## अपांगता अधिकारसम्बन्धी महासन्धिको प्रभावकारी कार्यान्वयनमा जोड

भएका अधिकारसम्बन्धी महासन्धि २००६ को कार्यान्वयन अनुगमन (संघीय तह) को संक्षिप्त प्रतिवेदन सार्वजनिक भएको छ । राष्ट्रिय अपांग महासंघले बधवार राजधानीमा एक कार्यक्रमबीच उक्त प्रतिवेदन सार्वजनिक गरेको हो।

संक्षिप्त प्रतिबंदनको औचित्य र बसको प्रभावकारिताका विषयमा सहजकतां मनिष प्रसाउँले प्रस्तुति दिएका थिए । उनले महासन्धिपछि नेपालले अन्तर्राष्ट्रिय मञ्चमा देखिनेगरी भएका काम कारवाहीका वारेमा जानकारी दिंदी बलियो उपस्थिति जनाउन नसकेको बताए । नेपाल सरकारले अपायता क्षेत्रमा ज्याएका नीति नियमहरू प्रभावकारी कार्यान्वयनका लागि सबै पछले जोड दिनपर्ने उनको भनाइ छ ।

कार्यक्रममा समावेशी आयोगका सदस्य



हरियत जोशीले प्रतिवेदनले धेरै करा समेटेको भन्दै सरकारी संयन्त्रबाट हुनुपर्ने गतिविधिका लागि सधै सहयोगी भूमिका खेल्न तयार रहेको बताए । यस क्षेत्रमा केही जटिल समस्याहरू भए पनि त्यसको निराकरणका लागि सरोकारवालाहरु मिलेर अधि बहन्पर्ने बताए।

महासंघका अध्यक्ष देवीदत्त आचार्यको सम्पन्न कार्यक्रममा सहभागीहरुले अपांगता भएका व्यक्तिहरुको

अधिकारका बारेमा हालसम्म सरकारी तहबाट भए गरेका क्रियाक्लापबाट सन्तुष्ट हुने अवस्था नरहेको बताए । उनीहरुले सरकारी कमीकमजोरी औल्याइँदै अपांगताका क्षेत्रमा सरकारले भविष्यमा गर्नपर्ने कार्यक्रम अहिले नै तय गर्नुपर्ने आवश्यकता रहेको बताए।

अपांगता अधिकारकर्मी बीरेन्द्रराज पोस्तरेलले नेपालका समावेशी राष्ट्रिय आयोग, मानवअधिकार आयोग र तालकदार मन्त्रालय विशेष जिम्मेवार

आयोजना हुने 'स्टेट पार्टी कन्फरेन्स'मा सहभागिताका लागि जोड दिए । अपांग अधिकारकमी भोजराज श्रेष्ठले पनि अपांगता भएका व्यक्तिहरुको अधिकार रक्षाका लागि सबै पशले काम गर्नुपर्ने बताए । अधिकारकर्मी रेणु लोहनीले र्पान अपांगता भएका व्यक्तिहरुको हितका लागि राज्यका साथै गैरसरकारी संस्थाका साथै जनस्तरबाट निवांह गर्नुपर्ने भूभिकाका बारेमा प्रकाश पारेकी थिइन ।

बस्तै धम, रोजगार तथा सामाजिक मन्त्रालयका सहसचिव डण्डराज धिमिरे महिला तथा बालबालिका मन्त्रालयकी प्रतिभा राई नेपाल मानवर्जाधकार आयोगकी कल्पना राष्ट्रिय योजना आयोगका सदस्य डा. किरण रूपासेतीलगायतले अपागता र उनीहरुको अधिकारका लागि सरकारी संयन्त्रबाट नीतिगतरूपमा नै समन्वय गर्ने प्रतिबद्धता व्यक्त गरे।

## निसानामा.

पुष्ठ १ बाट जारी

स्रोज्या राम्रो नहते चेतावनी दिए । 'प्रदेश सरकारलाई पनि क्रमजोर असाउस क्यों नाएको छ । दवाएर चलाउन खोज्दा राम्रो नहोला,' पुनले भने ।

क्यांलीका पार्टीको केन्द्रले नै विधानविपरीत काम गरेको आरोप लगाए । विधानविपरीत काम नहोस । आदरणीय महामन्त्रीहरुलाई हिन्दुस्तानका सिनेमा हेर्दा 'पोइन्ट टु वि नोटेड' मनिन्छ । पदाधिकारीले पनि नोट गर्नुहोला,' शाहीले भने, विधानको ३८ पेजमा र ३९ को पेजमा भएको एक-एक अक्षर केलाएर हेरे। केन्द्रीय समितिलाई स्वतः निष्कासित व्यक्तिहरले अनशासन समितिको एकल निर्णयले २०८० असार १७ गते निवेदन दिनहन्त्र । र्थान कारबाही फुकुवा भन्नुहुन्छ कसरी एकल अधिकार पाउनुभयो ?

#### निसानामा गगन-विश्व

मंगलबार विभिन्न प्रतिबेदन प्रस्तृत गरिएको केन्द्रीय समितिमा दोस्रो दिन व्धवारवाट केन्द्रीय सदस्यहरूले धारण राख्न सुरु गरेका हुन् । ब्र्धवारको बैठकमा अधिकांश पार्टी सभापति शेरबहादर वेजवापश्चका केन्द्रीय रास्ते क्रममा अधिकांशले महामन्त्री थापा र शर्मामाथि प्रश्न गरे केन्द्रीय सदस्य लक्ष्मी स्वतिवदाले दर्व महामन्त्रीले दायरा फराकिलो नवनाए विकल्प खोज्नुपर्ने अवस्था आउने चेतावनी दिइन ।

'दुई जना नै महामन्त्रीलाई विनम्रतापर्वक आग्रह छ, कांग्रेस वनाउन कांग्रेसलाई एक हिक्का बनाएर सही रोडम्याममा उद्देश्यका साथ तपाईहर हामी सबैको नेतृत्व लिनेगरी बहत्होला, खतिवडाले भतिन, 'तपाईहरुले दायरा फराकिलो बनाउन भएन भने जसरी तपाईहरु हरू कसैको विकल्प खोन्छी भन्दै हनहन्त्र । तपाईहरुको विकल्प पनि इ.स. हामीहरुले खोज्ने विकल्प नआओस् ।

केन्द्रीय सदस्य रामहरि खतिवडाले हा शेखर कोइराला मौन रहेकोमा धन्यवाद दिए । 'शेखर कोइरालालाई धन्यवाद । पारीलाई संयम बनाएर लाने विषयमा उहाँ लाग्नुभएकोमा, स्रतिवासने भने । स्रतिवास दे उवानिकर नेता हुन्। उनले सांसदमा महामन्त्रीहर क्षणक्षणमामात्रे आउने उल्लेख गर्दै प्रतिपक्षको प्रस्तृति हेर्न आग्रह गरे । 'संसदमा सभापति यदाकदा जाने उपसभाति दर्वजनै मन्त्री भएर उपस्थिति कम हुने । महामन्त्रीहरू छितछितमा आउते, देखापने । तर, प्रतिपद्मले कसरी हल्लाउँछन् संसद् भन्ने देख्तभा'ल ? कसरी चलेको होला ? त्यो बारेमा पनि प्रत्येक दिन छलफल गरेर संसदमा जाने पद्धति भयो भने कांग्रेस त्यहाँ पनि अभा दल्ले भएर प्रस्तुत हुनेछ,' उनले भने ।

खतिवडाले 'मिसन-०६४' भन्दै हल्ला गर्नुभन्दा २९०० सालसम्मको कार्ययोजना बनाउनिर लाक दुई महामन्त्रीलाई सुकाव दिए मिसन-०८४ भनेर हल्ला आएको छ । अहिले नै डराएको

उपनिर्वाचनबाट । अहिले नै गाली गरेर हिंड्दा राम्रो होला त ? प्रियम २९०० बनाउनिर सागी न,' खतिवडाले भने ।

केन्द्रीय सदस्य नैनसिंह महरले दर्ड महामन्त्रीले जिल्ला सभापतिहरुसँग गरेको छलफलको प्रक्रिया नपुगेको विषय उठाएका थिए । महरले पार्टी सभापतिको सहभागिता विनाजिल्ला सभापतिको भेला नभएको विगतको उदाहरण सुनाए । 'क्ष्णप्रसाद भइराई, गिरिजाप्रसाद कोइराला. सुशील कोइराला पार्टी सभापति हुँदा सभापति नससेर जिल्ला सभापति भेला भएको मैले स्नेको छैन, महरले भने । असार २५ गते दर्व महामन्त्रीले जिल्ला सभापतिहरुको

भेला गराएका थिए । केन्द्रीय सदस्य जीवन रानाले सभापतिमात्र होइन, महामन्त्री पनि चकेको बताइन । 'पार्टी सञ्चालनमा

मोटर्साइकल

हराएको-सुचना

तयाँ बातेञ्चर घरमै पाकिङ गरिराखेको ठाउँमा बाजमती प्रदेश ६२ ६३५प ५२८८ को काल

रातो १४० सिमिको निम्न व्यहोरा भएको

बजाज पत्सर मोटरसाईकल हराएको

हुदाँ पाउन हुने महानुभावले निम्न ठेनाता

वा बिजकैको प्रहरी कार्यालयमा सम्पर्क

गरिदिनुहुन अनुरोध गर्दछु ।

च्यासिस वं :MD2A11CX4MPD21292

नामः कमल बहादुर मजर

इंक्लिन न DHXP11C12617

सम्पर्क सं : 9843497415

सभापतिमात्र होइतः महामन्त्री पनि चुबनुभएको छ । पार्टी विधानसम्मत सञ्चालन नभएको करामा तपाई पनि अळुतो हुनुहुन्न,' उनले भनिन्।

सस्थापनपश्चकै अकां कर्णालीका जीवनबहादर शाहीले पनि महामन्त्री लक्षित गर्दै पार्टीको बैठक फॅसबुकमार्फत 'लाइम' भएकोले भित्र एउटा र बाहिर अर्को नबोल्न आग्रह गरे । महामन्त्रीद्रवले पार्टी बैठकभित्र एउटा र बाहिर अर्को बोलेर हिंडन बालेको उल्लेख गर्दै शाहीले भने, 'यो लाडभले हामीले सदब्दि देओस् । भित्र एउटा बोल्ने वाहिर अको बोल्ने ? अनि ठला नेताहरूले जथाभावी गऱ्यो भने त्यसपछिको नेताहरूले पनि गर्नुभएन ।'

देउवालाई सुभावः बृदाहरुबाट पार्टी चल्दैन

प्रदेशका सभापति

यादवले युवाहरु र विद्यार्थीहरु पार्टीमा शून्य हुँदै गएकोले पार्टी कमजोर बन्दै गएको तकं गरे । उनले मधेसप्रति कांग्रेस उदासीन रहेकोसमेत आरोप लगाए । 'मधेस कांग्रेसको जननी हो । मध्य वलियो हैदा कांग्रेस बलियो हुन्छ । मधेसप्रति उदासीन देखिन्छ कांग्रेस ' यादवले भने 'संगठन जिसे छ । नेविसंघ जिसे छ । यस्तो अवस्थामा के नेतृत्वविरुद्ध बोल्न नपाइने हो ?

कांग्रेसले युवाहरू गुमाउँदे लगेको अवस्थामा बहाहरुबाट पार्टी नचल्ने उनको भनाई थियो । 'युवाको पकड छैन । अब बढाहरुबाट मात्र पार्टी

सरकार छाड्दा बदबाम बहोस् केन्द्रीय शमिति बैठकमा

बजारमा चलेको सुनाइन् । बाहिर आपकस्पमा सरकार फेरिने हल्ला पनि बजारमा छ । देश र जनतालाई अधि रासेरमात्र पहिले अगादि बहनपर्छ । खेल सामान्य नेपाली कांग्रेस सकाउने कि माओबादी सकाउने देवकोटाले भनिन 'भ्रष्टाचारीलाई कारबाही गरेको अवस्थामा माओबादीलाई छाडेर कांग्रेसले बदनामी हने अवस्था पनि भाउनसम्बद्धः यसलाई सुक्तवकपूर्ण तरिकाले समाधान गर्न देवकोटाले सभापति देउवालाई आग्रह गरित्। बधबारको बैठक विहीबार ११ वजे बस्तेगरी स्थगित भएको छ । बुधबार ८६ जना केन्द्रीय सदस्यले आफ्नो धारणा राखेका थिए । कांग्रेसमा जनाको केन्द्रीय समिति रहेको छ ।

देवकोटाले सरकार फेरिने हल्ला

## साउदीमा वैदेशिक रोजगारको अवसर

म्पनी : NAYEF MOHAMMAD SAMRAN ALMUTAIRI EST. FOR CONTRACTING LT. No. 289341

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Al Kausar Human Resource Pvt.Ltd. (Makawanpur Overseas Pvt. Ltd.) Gairigaun - Tinkune, Kathmandu, Nepal Tel: +977 1 4442794, E-mail : alkausar.hrm@gmail.com



भुम्लु गाउँपालिका गाउँ कार्यपालिकाको कार्यालय सल्ले भुम्ल, काभ्रेपलाञ्चोक बागमती प्रदेश, नेपाल



(वातावरण संरक्षण ऐन, २०७६ दफा ३ को उपदफा (५) सँग सम्बन्धित) संक्षिप्त वातावरणीय अध्ययनतयारी सम्बन्धी सार्वजनिक सुनुवाइको सूचना

(सचना प्रकाशित मिति : २०८०/०४/०४)

बागमती प्रदेश, काभ्रेपलाञ्चोक जिल्ला, भूम्ल गाउँपालिका वडा नं ४ मा भूम्ल गाउँपालिका, गाउँ कार्यपालिकाको कार्यालय द्वारा निम्न बमोजिमको प्रस्ताव कार्यान्वयन गर्न लागिएको छ ।

प्रस्तावको नाम : भुम्लु गाउँपालिकाको प्रशासकीय भवनको निर्माणको सक्षिप्त वातावरणीय अध्ययन

माथि उल्लेखित प्रस्तावको वातावरणीय संरक्षण नियमावली, २०७७ को नियम ६ सँग सम्बन्धित रहेर यस भूम्ल् गाउँपालिकाको प्रशासकीय भवनको निर्माणको लागि मस्यौदा प्रतिबंदन तयार भई अन्तिम बातावरणीय अध्ययन प्रतिबंदन तयारीको सिलसिलामा सो क्षेत्रको प्राकृतिक, भौतिक प्रणाली, जैविक प्रणाली, सामाजिक प्रणाली, सांस्कृतिक प्रणाली र आर्थिक प्रणाली बिच के-कस्तो प्रभाव पर्दछ, भनी यकिन गर्न त्यस क्षेत्रका स्थानीय तहका प्रतिनिधि, स्थानीय वासी, सामुदायिक वन उपभोक्ता समृहको प्रतिनिधि तथा अन्य सरोकारवाला व्यक्ति वा संस्थाको राय सुभाव लिन आवश्यक भएकोले निम्न उल्लेखित मिति तथा स्थानमा तोकिएको समयमा उपस्थित भइदिन हन विनम्र अन्रोध गर्दछौ ।

समयः बिहान १९:00 बजे स्थान : भम्ल गाउँपालिका-५, सल्ले मिति : २०८०/०४/०८

पसल प्रशासकीय अधिकत

## जो जससँग सम्बधित

उपरोक्त सम्बन्धमा धनुषा जिल्ला साधिक मिथिलेश्वर मीवाही गा. वि. स. वडा न. ९ हाल मिथिला बिहारी न. पा. बड़ा न. ३ बस्ने भाप्सी साह फांकरको नाती मो. अनवर अली साहको छोरा वर्ष ३६ को मो अजमत अली साहले का. म. पा. ९ विजय चोक स्थित Max Employment Center Pvt. Ltd. (Govt. License No. 1531/078/079) को नाम दुरूपयोग गरी विभिन्न समयमा विभिन्न व्यक्तिहरुबाट मलेसिया मुलुकमा वैदेशिक रोजगारिमा पठाइदिन्छु भनी रकम संकलन गरी ठगी गरेको भन्ने सुन्तमा आएकोले वस प्रा. लि. को गम्भीर व्यानाकर्षण भएको छ, निज मो. अजमत अली साह यस संस्थाको कहिन्ये पनि कनै पदमा नरहेको जानकारी गराउदछी र उपरोक्त कार्यमा पीडित भनिएका व्यक्तिहरुले समेत कहिन्यै पनि यस कार्यालयमा प्रत्यक्ष नआइ आवश्यक काराजातहरु (माग पत्र पूर्व स्वीकृति, भिषा तथा अन्तिम स्वीकृति आदी। नदेखी,चेक जाँच नगरि अन्यत्रे कारोबार गरी रकम बुभाएको देखिन आएकाले, पीडित भनिएका व्यक्तिहरुहरुको यस संस्थासँग कुनै पनि किसिमको सरोकार -नरहेको जानकारी गराउदै निजहरु (मो. अजमत अली साह लगाएत पीडित मीनएका व्यक्तिहरुहरु) प्रती नेपाल सरकारका सम्बन्धित निकायले छानीबन एवम सोधपुछ गरी आवश्यक कारवाहीको प्रकृषा अगाडि बहाउन सहयोग गरी दिनु हुन अनुरोध गर्दछु , साथै कोहि कसैले यस्ता किसिम का कारोबार तथा लेनदेन गरे गराएमा यस संस्थाले कर्ने किसिमको जिम्मेबारी र दाबित्व नलिने नब्बोहोर्ने कराको यसै सचना मार्फत

## Max Employment Center Pvt. Ltd.



वन तथा वातावरण मन्त्रालय

ाञ्चोक जिल्ला, पत्नौती नगरपालिका वडा नं. ६ मा प्रस्तावित राष्ट्रिय न आयोजनाको वातावरणीय प्रभाव मृत्यांकन (EIA) प्रतिवेदनमा राय नावका लागि आब्हान गरिएको सार्वजनिक सुचना

प्रथम पटक प्रकाशित मिति: २०८०/०४/०४

वक श्री **राष्ट्रिय प्रहरी प्रशिक्षण प्रतिष्ठान** महाराजगञ्ज काठमाठी रहेको बागमती प्रदेश, काभ्रेपलाञ्चोक पनीती नगरपालिका वडा नं. ६ मा प्रस्तावित श्री राष्ट्रिय प्रहरी प्रशिक्षण प्रतिष्ठान आयोजनाको प्रस्ताव गरी उक्त आयोजनाको वातावरणीय प्रभाव मुल्यांकन (EIA) प्रतिवेदन यस मन्त्रालयमा प्रस्तावकले पेश गरेको छ ।

आधानांको धाता प्रतिवंदा अनुसाव पामानी प्रदेश कांग्रेसणांको प्रतिवंदान यह मंत्रालयमा प्रसावक पर मेरका छ । म्हातांको प्रारा प्रतिवंदा अनुसाव सामानी प्रदेश कांग्रेसणांको मंद्र मा प्रसावित राष्ट्रिय प्रदर्श प्रतिवंदा अनुसाव सामानी प्रदेश कांग्रेसणांको कांग्रेसणांको वा न ६ मा प्रसावित राष्ट्रिय प्रदर्श प्रतिवंदा राष्ट्रिय प्रतिवंदा राष्ट्रिय प्रतिवंदा स्वेदा प्रतिवंदा प्रतिवंदा कांग्रेसणां कांग्रेक राज्याला गर्ने छरंद परेको छ । आयोजनावां जामा क्राधांक परिया १,४५,००० हि. प्रतिवंदा रहेको छ । प्रतिवंदानां उल्लेख छ । नेपाल स्वकारकां व्यापित प्रार्थको प्रतिवंदानां उल्लेख छ । नेपाल स्वकारकां व्यापित प्रार्थको प्रतिवंदानां उल्लेख छ । नेपाल स्वकारकां व्यापित प्रतिवंदानां उल्लेख छ । नेपाल स्वकारकां व्यापित प्रतिवंदानां उल्लेख छ । नेपाल स्वकारकां व्यापित प्रतिवंदानां उल्लेख छ । नेपाल सावादाव्य सावादाव्य प्राप्तिक प्रतिवंदानां व्याप्तिक के नियम हो को चित्राण कांग्रिय स्ववंदा प्रतिवंदानां व्याप्तिकां विभागतां विभाग हाराजगञ्ज, काठमाठौ प्रस्तावक रहेको **राहिट्य प्रहरी प्रक्षिकाण प्रतिस्ठान आयोजनाको** वातावरणीय प्रभाव मुख्यांकर नशराजना-ज्या, कालमाना अत्यावक रक्का साम्ब्रक प्रदार प्रावशाय प्रक्रिकात आवोजनाको वातावराणीय प्रमान मून्यांकन सामित्रका सामान्यकारमा र पर तथा तावावरणा माजावरको वेपसाईट क्षण्यकारकोढिक्या माजावर माजावरको वेपसाईट क्षण्यकारकोढिक्या माजावर सामान्यकार के सामान्यकार कार्यान्यकार कार्यान्यकार सामान्यकार कार्यान्यकार कार्यकार कार्यान्यकार कार्यान्यकार कार्याकार कार्यान्यकार कार्यकार कार्यान्यकार कार्याच्यान्यकार कार्यान्यकार कार्यकार कार्यान्यकार कार्यान्यकार कार्यान्यकार कार्यान्यकार कार्यान्यकार कार्यान्यकार कार्यान्यकार कार्यान्यकार कार्यान्यकार कार्यकार कार्यान्यकार कार्यान्यकार कार्यान्यकार कार्यान्यकार कार्यान्यकार कार्यान्यकार कार्यान्यकार कार्यान्यकार कार्यान्यकार कार्यकार कार्यान्यकार कार्यान कार्यकार कार्यक

प्रतिवेदन अध्ययन वा उतार गर्न सकिने स्थानहरू:

- प्रानवहन अभ्यवन वा उतार वन सावन स्थानहरू भी वन अनुस्थान तथा प्रविश्वण मेन्द्रको पुरतकालय, बनरमहरू, काठमाठी । भी निधा तिहान तथा प्रविधि मन्त्रालय, तिहन्दरयर, काठमाठी । भी नेपाल राष्ट्रिय पुरतकालय, हरियर भवन, तिलेतपुर । भी नेपाल विश्वणियालय, केपियन पुरतकालय, किर्तपुर, काठमाठी । भी पुनतकालय, संसद सर्विवालय, सिहन्दरयार, काठमाठी ।

- श्री पुस्तकालय, संसद सांचवालय, सिहदरवार, काटनाजा । श्री आदिवासी तथा जनजाति महासंघ नेपाल, कुसुन्ती, ललितपुर ।
- (फोन नं कुसुन्ती ५५५५४५४, महाराजगञ्ज ४४१५३७६) श्री जिल्ला समन्वय समितिको कार्यालय, काभ्रेपलाञ्चोव बी नगर कार्यपालिकाको कार्यालय, पनौती नगरपालिका, कान्नेपलाञ्चोव

राम सभगव पठाउने ठेगाना

फ्याक्स ने ०१-४२११८६८

#### मलेसियामा वैदेशिक रोजगारको अवसर

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# ENVIRONMENTAL IMPACT ASSESSMENT REPORT Of

# CONSTRUCTION OF NATIONAL POLICE ACADEMY AT KAVREPALANCHOWK, NEPAL

in

Panauti Municipality-6, Kavrepalanchowk, Bagmati Provinces



## **Submitted To**

Government of Nepal

Ministry of Forest and Environment
Singhadurbar, Kathmandu, Nepal

## **Submitted Through**

Government of Nepal

Ministry of Home Affairs

Singhadurbar, Kathmandu, Nepal

# **Submitted By National Police Academy**

Maharajgunj, Kathmandu, Nepal

**JULY, 2023** 



## **ABBREVIATION AND ACRONYM**

		kld	Kilo Liter per Day
amsl	Average Mean Sea Level	Km	Kilometer
BS	Bikram Sambat	kPa	Kilopascal
CAO	Chief Administration Officer	kV	Kilo Volt
CBD	Convention on Biological	kVA	Kilo Volt Ampere
Diversity		LC	Least Concern
CBS	Central Bureau of Statistics	LPG	Liquid Petroleum Gas
CDO	Chief District Officer	_	Meter
CITES	Convention on International	m MBBR	
Trade in Endang	gered Species	MBT	Moving Bed Biofilm Reactor
CPTC	Central Police Training Centre	MCT	Main Boundary Thrust  Main Central Thrust
cum	Cubic Meter	ML	
DAO	District Administrative Office		Local Magnitude
dB	Decibel	mm MoFE	Millimeter
DCC	District Coordination		Ministry of Forest and
Committee		Environment	MC CII ACC .
DCPT	Dynamic Cone Penetration Test	MoHA	Ministry of Home Affairs
DFO	Division Forest Office	MoU	Memorandum of
DG	Diesel Generator	Understanding	
DHM	Department of Hydrology and	NBC	National Building Code
Meteorology	, ,	NEA	Nepal Electricity Authority
DIA	Direct Impact Area	NID -	National Investigation
DMG	Department of Mines and	Department	
Geology	1	NP	Nepal Police
DoS	Department of Survey	NPA	National Police Academy
DPO	District Police Office	NRs.	Nepali Rupees
DPR	Detailed Project Report	PAS	Public Announcement System
DRM	Disaster Risk Management	PFA	Project Footprint Area
EIA	Environmental Impact	RM	Rural Municipality
Assessment		RO	Reverse Osmosis
EPA	Environment Protection Act	SD	Scoping Document
EPR	Environment Protection	SPT	Standard Penetration Test
Regulations		sq.m	Square Meter
g	Gram	SRT	Sludge Retention Time
GoI	Government of India	STP	Sewage Treatment Plant
GoN	Government of Nepal	TIA	Tribhuvan International Airport
GRM	Grievance Redress Mechanism	ToR	Terms of Reference
На	Hectare	UNFCC United	Nations Framework Convention
HDPE	High-Density Polyethylene	on Climate Char	nge
IBA	Important Bird Area	VA	Volt Ampere
IIA	Indirect Impact Area	VIP	Very Important Person
IS	International Standards	VU	Vulnerable
IUCN	International Union for	WMP	Waste Management Plan
	Nature and Natural Resources	ZoI	Zone of Influence
Conservation of	TVature and realistat Resources		

Kg Kilogram Kg/cm² Kilogram per Square Centimeter

## TABLE OF CONTENTS

	MS AND ABBREVIATIONS	
	F CONTENTS	
	VE SUMMARY	
कार्यकारी सारांश		XIV
CHAPTER	R 1: NAME AND ADDRESS OF THE INSTITUTION PREPARING THE REPORT	1
1.1	Proponent	1
1.2	Institution Responsible for Preparing EIA	1
1.3	Rationality for Conducting EIA	
1.4	Objectives of the EIA	
1.5	Limitation of Study	
	R 2: INTRODUCTION OF THE PROPOSAL	
2.1	Background	
2.2	Description of the Project	
2.2.1		
2.2.2	· ·	
2.2.3		
2.2.4		
2.2.5		
2.3	Objectives of NPA Project	
	Project Requirements	
2.4.1	Construction Materials.	
2.4.2		
2.4.3	<b></b>	
2.4.4		
2.4.5		
2.4.6	1	
2.4.7	<u>.</u>	
2.4.8		
2.4.9	• • •	
2.4.9	•	
2.4.1		
	Project Associated/Ancillary Facilities	
2.5.1	Waste Generation and Management Options	
2.5.2	G	
2.5.3		
2.5.4	Rain Water Harvesting and Recharge Pits	
	Literature ReviewLiterature Review	
3.2	Review of Relevant Government's Policies, Laws, Regulations and Guidelines	
	Preparation of Scoping Document (SD) and Terms of Reference (ToR)	
3.4	Project Area Delineation	
3.5	Desk Study	
3.5.1	Study, Map Preparation and Interpretation	
3.5.2	Preparation of Checklists/Questionnaires	
3.6	Field Study	
3.6.1	Physical Environment	
3.6.2	Biological Environment	
3.6.3	Socio-Economic and Cultural Environment	
3.7	Consultation Meetings	
3.8	Public Hearing and Public Notice	
3.8.1	Public Hearing	
3.8.2		
3.8.3	Collection of Recommendation Letter	
3.9	Data Analysis, Impact's Prediction and Significance Study	
3.9.1	Systematization of Baseline Information	
3.9.2	Impact Identification, Evaluation and Prediction	31

3.9.3 Preparation of Major Plans	31
3.10 Preparation of EIA Study Report	32
CHAPTER 4: POLICY, LAWS AND CRITERIA REVIEW	33
CHAPTER 5: EXISTING ENVIRONMENTAL CONDITION	36
5.1 Physical and Chemical Environment	36
5.2 Biological Environment	43
5.3 Socio-Economic and Cultural Environment	47
CHAPTER 6: ALTERNATIVE ANALYSIS	
CHAPTER 7: IMPACT ON THE ENVIRONMENT AND PROTECTION MEASURES	57
7.1 Beneficial Impacts	57
7.1.1 Construction Phase	57
7.1.2 Operation Phase	57
7.2 Adverse Impacts	63
7.2.1 Construction Phase	63
7.2.2 Operation Phase	66
CHAPTER 8: MEASURES ADOPTED TO ENHANCE POSITIVE IMPACT AND MITIGATE	
ADVERSE IMPACT	78
8.1 Enhancement Measures of Beneficial Impacts	
8.2 Mitigation Measures of Adverse Impacts	
8.3 Summary of Mitigation and Enhancement Costs	
8.4 Disaster Risk Management Plan (DRMP)	86
8.5 Traffic Management Plan (TMP)	
8.6 Grievance Redresses Mechanism (GRM)	
8.7 Project Management Unit (PMU)	88
CHAPTER 9: ENVIRONMENTAL MONITORING PLAN	90
9.1 Baseline Monitoring	
9.2 Compliance Monitoring	
9.3 Impact Monitoring	
9.4 Organization and their Roles and Responsibilities for the Project Implementation	95
CHAPTER 10: ENVIRONMENTAL AUDITING	98
10.1 Objective of Auditing	98
10.2 Scope of Auditing	
10.3 Audit Planning	
10.4 Types of environmental auditing	
10.5 Aspects of Environmental Audit	
10.6 Environmental Auditing based on Involvement of Party	
10.7 Format for Environmental Audit Report	
CHAPTER 11: CONCLUSION AND COMMITMENTS	
10.1 Conclusions	
10.2 Commitments	
REFERENCES	
APPENDICES	104

## LIST OF TABLES

Table 1.3-1: Provisions Regarding Legal Justification	
Table 2.2-1: Salient Features of the Project	
Table 2.2-2: Description of Project Components	
Table 2.4-1: Weightage of Construction Material Quantity	
Table 2.4-2: Land Types and Area in Project Footprint Area	
Table 2.4-3: Construction Schedule of the Project	
Table 3.4-1: Municipality and Wards included in the Project Affected Area	
Table 3.6-1: Summary of Physical-Chemical Environment and Methods Adopted for Collecting Data.	
Table 3.6-2: Categorization of Trees/Poles/Saplings	
Table 3.6-3: Summary of Biological Environment and Methods Adopted for Collecting Data	
Table 3.6-4: Summary of Socio-Economic Environment and Methods Adopted for Collecting Data  Table 3.7-1: Details of Consultation/Meeting and Participation Details	
Table 3.8-1: Offices/Places of Public Notice Affixation	
Table 3.8-2: Details of Public Hearing and Participation Details	
Table 3.9-1: Numerical Scales as Predicted due to Implementation of Proposed Project	
Table 5.1-1: Geotechnical Investigation of Proposed Project Site	
Table 5.2-1: List of Tree Species found in Project Area	
Table 5.2-2: Tree Affected from Implementation of Project	
Table 5.2-3: Non-Timber Species Found in Project Area	
Table 5.2-4: List of Wildlife of Project Area	
Table 5.3-1: Population within Project Affected Municipality	
Table 5.3-2: Age-wise Population of Project Affected Municipality and Ward (%)	
Table 5.3-3: Literacy rate (%)	
Table 5.3-4: Major source of Drinking Water	
Table 5.3-5: Major source of Cooking Energy	
Table 5.3-6: Major source of Lighting Energy	
Table 5.3-7: Types of Toilet Facility	
Table 5.3-8: Types of Toilet Facility (%)	50
Table 5.3-9: Number of households by female ownership in fixed assets (%)	52
Table 5.3-10: Number of Schools and level	
Table 5.3-1: Alternative Analysis of Project	
Table 7.1-1: Evaluation of Beneficial Impact	
Table 7.2-1: Evaluation of Adverse Impact	
Table 8.1-1: Environmental Management Plan for Enhancement of Beneficial Impacts	
Table 8.2-1: Environmental Management Plan for Mitigation of Adverse Impacts	
Table 8.3-1: Cost of Other Environmental Mitigation Measures	
Table 9.3-1: Baseline Monitoring Plan	
Table 9.3-2: Compliance Monitoring Plan	
Table 9.3-3: Impact Monitoring Plan	
Table 9.4-1: Organizations Involved in Environmental Monitoring	
Table 10.6-1: Environmental Auditing Matrix	
Table 10.0-2. Cost Estimation for Environmental Audit Report for NPA Project	
Table 10.7-1. I offinat for Environmental Addit Report for IN A Hoject	101
LIST OF FIGURES	
Figure 2.2.1. Layout and Lagation Man of Project	5
Figure 2.2-1: Layout and Location Map of Project	
Figure 2.2-2: Bird-Eye View of Project	
Figure 2.2-3: Accessibility to the Proposed Site	
Figure 2.2-4: Project Site Plan Map	
Figure 2.4-1: Possible Spoil Management Location, Camp, Crusher Plant and Site Office Sites	
Figure 2.5-1: Waste Minimization Pyramid	
Figure 2.5-2: Typical Process Flow Diagram of MBBR Technology	
Figure 5.1-1: Provincial and Project Location Geological Map	
Figure 5.1-2: Geotechnical Investigation Block Location at proposed NPA Project Site	37

Figure 5.1-3: Details of SPT Procedure and DCPT Cone and Sampler  Figure 5.1-4: Watershed and Project Location Map  Figure 5.1-5: Climate Graph and Weather by Month of Panauti  Figure 5.1-6: Seismic Hazard Map of Nepal Showing Proposed Project Site  Figure 5.2-1: Location of Project Area with Respect to Nearby Protected Areas	.38 .39 .41 .43
Figure 5.3-1: Population Pie-Chart by Caste for Panauti Municipality  Figure 5.3-2: Population by Mother Tongue in Panauti Municipality  Figure 5.3-3: Small Scale Enterprises Other than Agriculture	.48
Figure 5.3-4: Female Ownership	51
LIST OF APPENDICES	
APPENDIX 1: APPROVED LETTER OF TOR FROM MINISTRY OF FOREST AND	
ENVIRONMENT	
<b>APPENDIX 2:</b> APPROVED TOR FROM MINISTRY OF FOREST AND ENVIRONMENT	
APPENDIX 3: MEMORANDUM OF UNDERSTANDING BETWEEN GON AND GOI	
APPENDIX 4: CABINET DECISION FOR NPA CONSTRUCTION	
APPENDIX 5: DOCUMENTS RELATED WITH FOREST AREA USE FOR NPA	
APPENDIX 6: CADASTRAL MAP OF PROJECT SITE	
APPENDIX 7: GOOGLE MAP OF PROJECT SITE	
APPENDIX 8: PROJECT SITE MAPS/ SITE PLAN MAPS OF PROJECT	
APPENDIX 9: DESIGN OF BOX-CULVERT BRIDGE OF PUNYAMATA KHOLA	
APPENDIX 10: POLICIES, ACTS, RULES, MANUALS AND GUIDELINES,	
INTERNATIONAL CONVENTIONS AND BYE-LAWS	
APPENDIX 11: CHECKLIST AND QUESTIONNAIRE USED FOR EIA STUDY	
APPENDIX 12: PHYSICAL ENVIRONMENT BASELINE INFORMATION	
APPENDIX 13: BIOLOGICAL ENVIRONMENT BASELINE INFORMATION	
APPENDIX 14: PUBLIC CONSULTATION, INTERACTION MEETING AND FOCUS	
GROUP DISCUSSION MINUTES	
APPENDIX 15: DEEDS OF ENQUIRY (MUCHULKAS) OF NOTICE PASTING AND	
INVITATION LETTER FOR PUBLIC HEARING	
APPENDIX 16: DETAILS OF PUBLIC HEARING PROGRAM	
APPENDIX 17: PROOF AND DEEDS OF PUBLIC NOTICE AFFIXATION	
APPENDIX 18: PUBLISHED PUBLIC NOTICE FOR EIA REPORT PREPARATION	
APPENDIX 19: RECOMMENDATION LETTER FROM STAKEHOLDERS	
APPENDIX 20: SUMMARY OF EIA REPORT	
APPENDIX 21: PHOTOGRAPHS RELEVANT TO THE FIELD	

#### **EXECUTIVE SUMMARY**

#### A. Background

The National Police Academy (NPA) holds the distinction of being the apex Police training institution in Nepal. It was established as the Central Police Training Center (CPTC) in 1956 AD with the responsibility of imparting training to Police Constables. The CPTC was eventually upgraded as the National Police Academy in 1993 AD. It is an important institution dedicated for the human resource development of Nepal Police within the country.

National Police Academy is solely responsible for conducting basic and advanced training programs for the police officers. The institution is relentlessly indulged on new scientific methods and advanced technological adaptations to ensure new concept of policing. The introduction of improved administrative practices focuses on enhancing qualitative instructors and its training to bring about improvements on administrative, investigative and overall improvement on the police professionals. Moreover, it focuses on human resource development aspects with an objective to improve its role in criminal justice system.

#### B. Objectives of the Proposal and the Proponent of the Project

The main objective of the proposal is to conduct basic and advanced training to the police officers of Nepal. For this, proponent is intending to construct a National Police Academy at Kavrepalanchwok District.

As per the prevailing environmental law of Nepal, before execution of any proposal, it's obligatory to carry out environmental study. The main objective of the study is to identify probable environmental impacts associated with the constructions of proposed project and suggest the practical, scientific proved and economically feasible mitigation measures to overcome such impacts.

The Proponent of this proposed Project is National Police Academy (NPA), Maharjgunj, Kathmandu, Nepal. NPA is under Ministry of Home Affairs (MoHA).

#### C. Relevancy of the Proposal

As per the Section 3 of the Environment Protection Act, 2019, and provision in Rules 3 of the Environment Protection Regulations, 2020; it has made mandatory to conduct Environmental Impact Assessment for the proposals listed within the Schedule 3. The proposal under Schedule 3 (Ka-Forest Area-5) of EPR 2020 has provisioned that "the use of forest area, forest conservation area, conservation area, buffer zone area, and forest within the environment conservation area, for more than 5 ha for all the proposals except electricity transmission line construction purposes. For this Project, 6.7ha of forest area will be used. Similarly, Schedule 3 (Ja-Housing, Building and Settlement Development and Urban Development Areas-2) of EPR 2020 has provisioned that "if construction of building with Built Up Area/ Floor Area for residential, business, and/or both types with more than 10,000sq.m". For this Project, the total built up area is 109215sq.m. and Schedule 3 (Ja-Housing, Building and Settlement Development and Urban Development Areas-6) of EPR 2020 has provisioned that "if the daily use of underground water of 20,000Liter. For this Project, 36,530Liter water during construction and 635,000Liter water during operation phase will be required. For these mentioned reasons, EIA is mandatory for this study.

#### **D.** Project Description

NPA is led by Additional Inspector General of Police (AIGP) and is Executive Director. The Academy has strength of 670 personnel who serve in diverse aspects of training management such as instruction, administration, logistics management, support services and other responsibilities. Senior Police Officers from around the country participate in various training courses organized in the Academy. Training courses for Junior Police Officers and other ranks are also organized in the Academy.

The proposed Project aims to construct modern and well-equipped infrastructure in Panauti, Kavrepalanchowk within a built-up area of 109215sq.m out of the total area of 41.86ha (4,18,603.17 sq.m.). In total, 58 buildings will be constructed to fulfill the requirement of NPA.

**Table A: Salient Features of the Project** 

S.N.	<b>Component Description</b>	Features of the Project				
1.	Proponent	National Police Academy, Maharajgunj, Kathmandu				
	-	Construction of National Police Academy at				
2.	Project Name	Kavrepalanchowk, Nepal				
	<b>Location of Project Site</b>					
	Province	Bagmati				
3.	District	Kavrepalanchowk				
	Local Level	Panauti Municipality				
	Ward No.	6				
4.	Geographical Location	Latitude: 27°35'33.46"N				
4.	Geographical Location	Longitude: 85°31'6.05"E				
5.	Physiographic Region	Mid-Hill Region at an elevation range of 1442 to				
3.	1 nysiographic Region	1574 amsl				
6.	Nearest Hydrological	Punyamata Khola at Western part				
0.	Network					
	Project Approach Road and					
		Araniko Highway (H03): 23.7Km from				
7.	Main Road	Singhadurbar, Kathmandu to Banepa				
, •	Internal Access Road	Banepa-Khopasi Road (F029): 5.1Km from Banepa				
		to Project Area				
		Total Distance: 28.8Km				
	Project Area					
	Total Area	822-13-1-0 Ropani = 418,599.61 sq.m = 41.86ha				
8.	Plinth Area	31914 sq.m				
	Built Up Area of NPA	109,215 sq.m				
	Project	92.38%				
	Open Space					
		Access Road up to each Buildings				
		Emergency Ladder				
		Fire Alarm System (NBC)				
0	F	Fire Fighting System with 200,000 liters static water				
9.	<b>Emergency Preparedness</b>	storage fire tanks				
		Evacuation Arrangement				
		Open Spaces				
		Pedestrian Path (Differently Able People Friendly)				
		Emergency Lighting in the Corridors of Buildings				

S.N.	Component	Description		Features			
D•14•	Component	Description	Medical Facility	y with Specialized Medical Teams			
10.	Water Requi	rement	Wicaicai i aciiii	y with Specianzed Medical Teams			
10.	Source			Municipal Supply and Deep Boring			
	Construction	Phase		40000 kl (36530 liters per day)			
		Quantity		635,000 liters per day			
		Underground	Water Tank	•			
		(Total)	,, ,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	635,000 liters			
	Operation	Static Fire Wa	ater Tanks	200,000 liters			
	Phase	Overhead Tan	ıks	202,000 liters			
		Drinking Wate (RO)	er Treatment	20,000 liters			
11.	Energy Supp	oly		1			
	Source		National Grid C	Connection supply from NEA			
	Electrical Sub	ostation	2*1500kVA				
	Standby Supp	oly	2*750kVA Dies	sel Generator Sets			
12.	<b>Solar Water</b>	Heating	Considering 20	lt/person 387000 liters per day			
_	Waste Gener	ation					
	Solid Waste						
	Construction	Phase	Total estimated generation: 59.5Kg per day				
			Biodegradable Composition (51%): 30.4Kg per day				
				generation: 424.35Kg per day			
			Biodegradable (	Composition (51%): 216.42Kg per			
-	Operation Pha		day				
13.	Sewerage Tre	atment					
	Facility		80% of 24200 liter (484 labors*50liters water/day)				
	Construction	Phase	19360-liter sewerage per day for 484 labors will be				
			managed in soa	<u>k pit</u>			
			000/ 6440000	12.			
			80% of 440000				
	Operation Ph	0.00		werage per day will be treated from echnology) for 3450 persons			
	Operation Pha	ase					
				xburghii, Schima wallichii, Alnus cica esculenta, Pyrus pashia			
	Major Specie	es found		ilurus bengalensis, Sus scrofa, Canis			
14.	within and P	eripheral	aureus, Muntiae	· ·			
	Area of Proje	ect Site	· ·	inus krameri, Passer domesticus			
				ns, Acridotheres tristis			
	<b>Expected Oc</b>	cupancy		Residential Quarters and Trainee			
15.	(3450 Persons		Barracks)	Zumoria min Iramee			
••	operation pha		· · · · · · · · · · · · · · · · · · ·	uests/Staffs/Visitors)			
1.0	Estimated Bu	,					
16.	Project	J	NRs. 8791.38 n	nillion			
177	Estimated Pr	roject	2				
<b>17.</b>	Construction	•	3 years				

Source: Detailed Project Report of Construction of National Police Academy at Kavrepalanchowk, Nepal, 2019

#### E. Methods and Approaches of the Study

The study adopted the provisions stated in EPA, 2019 and EPR, 2020 as a legal binding document of GoN, approved ToR, the concerns expressed during scoping study, baseline study, consultation with local people/stakeholders and officials and the secondary based published and unpublished information. The primary information was collected using Group Discussions, Key Informant Interview, Women's Group Consultation, Consultation and check point surveys. With the support of expert team members, consultation with nearby public and hearing program was conducted. The raised concerns were recorded and addressed in the report. The collected information was analyzed based on the computer based, expert judgment and previous similar studies findings.

## F. Existing Environmental Conditions

#### a) Physical Environment

The proposed Project lies at an elevation of 1442 to 1574 amsl. The climate of the Project area is classified as subtropical climate. The minimum temperature was recorded in January while the maximum temperature recorded in July. The average annual rainfall recorded in Panauti was 1200 - 2000 mm.

Geologically, project area is located in Phulchoki Sub Group of Tistung and Bhimphedi Sub Group of Tawa Khola Formation within the Kathmandu Group of Pre Cambrian-Devonian Region of Nepal. Geotechnical investigation shows that the foundation rests on cohesive soil. Punyamata Khola flows from the North to the South direction from the adjoining boundary and is a seasonal river that have minimum discharge during the dry season. The ground water table was recorded at a depth of 1-1.5m in the Western lower area of Project site.

## b) Biological Environment

The proposed Project does not lie within any conservation area (National Park, Conservation Area, Hunting Reserve and so on). The nearest conservation area is Phulchwoki conservation area which is 5.33 kilometers to the southeast. This conservation area lies in between Lalitpur and Kavre District with most unique Phulchoki Mountain Forest Area (Important Bird Area-IBA under the Category A2 & A3 (2005) declared from Birdlife International).

The Project lies in the Subtropical Bio-Climatic Zone with major species of Uttis, Chilaune, Lapsi and Salla. The proposed project covers 6.7 ha. area of Devisthan (Kha) Community Forest and National Forest. The forest is sparse. No major habitat of any critically endangered species were observed. However, as per the local people, sometimes Ratuwa Mriga are observed at the backyard. Besides, no other faunal species are seen in project site.

## c) Socio-Economic and Cultural Environment

Panauti is one of the oldest settlements nearby Kathmandu Valley. The settlements are adorned with several religious temples and shrines. The Project site is located just near the heart of Panauti Bazar in Northen part (just near 1Km distance). Administratively, the site lies in ward no. 6 of Panauti Municipality. The total population of Panauti Municipality is 51504 individuals as per 2021 census. While, the total population of 3547 (1740 female and 1807 male) individuals are living within the 859 households at an average 4.13 household size in ward 6. None of the private households and property will gets affected by the implementation of proposed Project. The major source of drinking water is from

tapped water. 67.5 percent of households use LPG as a major energy source for cooking food while 98.9 percent use electricity as a major source of energy for lightning purpose.

"Panauti" the core area of Panauti Municipality was originally a small state given by king Bhupatindra Malla as a dowry to his sister. The settlements in Panauti are dominated by Chhetris and Brahamin while ethnic groups are Newars and Tamang. Makkar Mela has been considered as of higher importance which is celebrated in every 12 years in the month of Magh. Major Jatra performed inside Panauti are Guthi Jatra, Baghbhairav Jatra, Kushadevi Jatra, Fulchoki Jatra, Gaijatra, Hilejatra etc.

#### G. Major Environmental Impacts Identified

From the Project implementation, the beneficial and adverse impacts on physical, biological and socio-economic environment will be presumed.

#### a) Beneficial Impacts Due to Project Activities

From the implementation of Project, following are the expected beneficial impacts generated as;

- Four hundred eighty-four workforce (50% each skilled and unskilled workforce) will get opportunity on daily basis.
- Suppliers from the local markets will get an opportunity to supply construction materials required for the Project construction activities.
- Technical skill transfer to local workforce will be an opportunity to capacitate on mega building construction and stabilization related works.
- Increase in demand for local goods, food and services will help to increase local economy.
- Establishment of modern and well-managed landscape within the NPA itself will increase aesthetic beauty of the existing area.
- Increment in land value will be expected during and after the construction of NPA. Migration of people nearby areas will be increase as because of belief on better security concerns.
- Public related facilities will be increased after the establishment of NPA.
- Practices focuses on enhancing qualitative instructors and the trainings to bring about improvements on administrative, investigative and overall levels of the police professionals will be improved.

#### b) Adverse Impacts on Physical Environment

- Change in existing land use pattern. The cultivated land and forest area permanently changed with built-up area.
- The excavation and construction work will increase erosion and landslide incidence adjacent to the western lower part of Project site along Punyamata Khola.
- The construction waste will pollute the land surface and degrade the soil properties.
- Dust generated during excessive vehicular movement for excavation, spoil management and construction material transportation work and emission of gaseous pollutant like COx, Sox and NOx from vehicles and operation of DG sets will deteriorate the air quality.
- Use of heavy machinery will generate annoying sound.
- Letting hazardous lead-based paint residues, paint, solvents, diesel and grease, heavy metals, solid waste and so on into the soil will degrade the surface soil.

#### c) Adverse Impacts on Biological Environment

- In total 6.7ha forest area (3.6ha of Devisthan (Kha) community forest area and 3.1ha of national forest area) will be affected.
- Nearly 299 trees need to be clearly felled during construction phase.
- Chance of Forest fire during construction phase.

#### d) Adverse Impacts on Social, Economic and Cultural Environment

- Previously used foot track inside the community forest area for the mobility from Dalinchowk community will be blocked after the operation of NPA.
- Use of child labor and conflict among workers and community people will be increased during construction phase.
- Insufficient parking area and more traffic at the entrance of Project site (proposed bridge area) will increase traffic congestion.
- Pressure on public utility

### **H.** Mitigation Measures

The mitigation measures to avoid or reduce above-mentioned adverse impacts are summarized hereunder:

#### a) Physical Environment

The following measures are proposed mitigation measures for the identified adverse impacts under physical environment:

- Adoption of bioengineering in the landslide-prone area and plantation of trees and/or maintain greenery in every appropriate open space to prevent possible landslide and erosion.
- Construction waste generated during the construction phase will be separated and reused as far as possible. The remaining waste shall be disposed in coordination with municipality.
- Domestic solid wastes (biodegradable) shall be collected and managed by the contractor within the Project construction boundary in daily basis, packing materials leftover reinforcement bars will be sold to the vendor and rest waste will be disposed to the landfill site in coordination with Panauti Municipality.
- Spoil generated during excavation for construction of NPA building will be safely stockpiled in proper places and such materials will be used for ground leveling.
- Contractor will carry out dust protection measures during site clearance, and building construction, such as periodical (at least twice a day) water spray, covering on construction material, etc. Following, water sprinkling shall be carried out at the entrance point of the Project site in connection part to the Banepa-Khopasi Road.
- Ear mufflers will be provided to the construction workers and other associated staffs.
- Provision of adequate sanitation facilities shall be ensured at an appropriate distance from the construction work sites.
- Wastewater from the construction site shall be treated and discharged to the designated site and facilities so that contamination of ground water shall be avoided.
- Soak pit will be used during construction phase for sewerage management while MBBR technology for sewerage treatment of 350000-liter sewerage per day will be installed to treat sewerage and other liquid waste generated from 3450 persons in operation phase.
- Spoil disposal over the edge of the embankment area of Punyamata Khola is strictly prohibited.

- Seepage of hazardous liquid or directly mixing of sewerage will be immediately controlled to prevent groundwater and soil pollution.
- A total area of 338,196.05 sq.m Rain Water Harvesting System (RWHS) including recharge pits will be constructed to recharge the groundwater. The extraction with respect to recharge ration is expected to 1:2.045 for 1200 mm average annual rainfall.
- Open barren space will be maintained greenery to increase the infiltration capacity of the soil.
- Stockpiling sites shall be located away from cultivable lands and settlements, drinking water (Kuwa), public places, school and health centers and nearby Punyamata Khola.

#### b) Biological Environment

The following measures are proposed mitigation measures for the identified adverse impacts under biological environment:

- Unnecessary clearance and use of forest area will be controlled to conserve natural forest stand. Emphasis will be given to construct buildings in phase wise.
- Compensatory re-plantation of 2990 trees sapling at the ratio of 1:10 will be done for loss of 299 trees and per hectare use for 6.7ha forest land in ratio of 1600 equivalent to 10,720 trees will be planted and conserved. Re-plantation will be carried out within the barren area of the affected Devisthan (Kha) Community Forest in close coordination with Sub Division Forest Office located at Khopasi and Devisthan (Kha) CF.
- Capacity building training modules on forest management and adopting alternatives to forest resources will be provided to Devisthan (Kha) CF users in coordination with Sub Division Forest Office, Khopasi.
- Ensure that the static water of 50KL is available for the unintended possible fire hazards within the construction site.

#### c) Socio-Economic and Cultural Environment

The following measures are proposed mitigation measures for the identified adverse impacts under socio-economic and cultural environment:

- Locals including Project-affected communities, local deprived, marginalized groups and women will be encouraged to participate in construction works and give first priority for work.
- Compliance with all legal requirements and regulations regarding demarcation of project boundaries will help to prevent disputes and legal challenges. For this, Project will be in regular coordination with Panauti Municipality.
- Clear and fair hiring policies shall be established to prohibit the hiring of children and ensure equal opportunities for women in the construction phase.
- Formation of User Response Committee (URC) will be established to deal with the community level issues.
- Safety sign board such as speed limit and specific construction activities area in the Project area and understanding language will be installed.
- The provision of diversion, safe and convenient lanes marks and pedestrian crossings shall be installed and done.
- A separate water reservoir tank will be built outside the compound of NPA to make access to the use of Kuwa water.
- With the establishment of NPA in Panauti and existing heavy traffic due to normal transportation and nearby Khopasi quarry site, the traffic congestion ultimately will

increase; and hence upgradation of Punyamata Khola Corridor Road will be upgraded to feeder road standard as far as possible.

• For the better alternative to previously used public trail road inside the forest area will be managed through upgrading the other existing road in the east, south and northern side. Construction of new road around the Project boundary seems to be impossible because of adjoining private plots.

#### I. Environmental Management Plan

The prediction, effectiveness of mitigation measures and in overall, long-term sustainability of the proposed Project is validated for the baseline, compliance, and impact monitoring, including environmental audit of the proposed Project, have been recommended along with monitoring indicators. Environmentally sound rapid socio-economic development of the community adjacent to the Project area is expected after the implementation of Project. Budget has also been allocated for monitoring during construction period and during the first year of operation and environmental auditing cost also has been allocated.

#### J. EMP Implementation and Monitoring Cost

The estimated costs for the suggested mitigation measures are shown in Table B. This includes the Compensatory Plantation and its management for 5 years, Public Property rehabilitation, Social Enhancement Costs such as Skill Building Trainings, and so on.

**Table B: Cost Estimation EMP and Monitoring Cost** 

SN	Items	Amount (NRs.)
1.	Cost of Other Environmental Mitigation Measures (Inc.	19,795,000
	Compensatory Plantation)	
2.	Environmental Monitoring Cost	54,307,000
3.	Environmental Auditing Costs	2,965,000
Tota	al Environmental Mitigation Costs	77,067,000

#### K. Conclusions and Commitments

The proponent has set aside NPR 19,795,000 for environmental enhancement measures, NPR 54,307,000 for monitoring activities and NPR 2,965,000 for environmental auditing or in total NPR 77,067,000 or 0.876% of the total estimated budget for construction of this NPA Project is proposed for EMP implementation.

The findings of EIA study report will be used as a guideline during implementation of project. EMP will be fully followed during construction and operation phase. Separate environment monitoring personnel under PMU will be deployed (partial or full term) for regular assessment and monitoring.

## कार्यकारी सारांश

## क. भूमिका

सन् १९५६ मा प्रहरी हवल्दारहरूलाई तालिम दिने जिम्मेवारीका साथ केन्द्रीय प्रहरी प्रशिक्षण केन्द्र (CPTC) को रूपमा स्थापना गरिएको संस्थानै सन् १९९३ देखि राष्ट्रिय प्रहरी प्रशिक्षण प्रतिष्ठान (NPA) को रूपमा परिचित छ। NPA, मुलुकको सर्वोच्च प्रहरी प्रशिक्षण केन्द्र हो जस्ले देशभित्रका समग्र नेपाल प्रहरीको मानव संशाधन विकासका लागि महत्वपूर्ण भूमिका निर्वाह गर्दछ ।

राष्ट्रिय प्रहरी प्रशिक्षण प्रतिष्ठान प्रहरी अधिकृतहरूको लागि आधारभूत र विशिस्ट प्रशिक्षण कार्यक्रमहरू सञ्चालन गर्न पूर्ण रूपमा जिम्मेवार रहँदै आएको छ । यो संस्था निरन्तर रूपमा वैज्ञानिक विधिहरू र निवनतम् प्रविधिहरू आत्मसात गरी प्रहरीहरूको संस्थागत विकास कायम गर्न तिल्लन रहेको छ । यसका साथै प्रशासिनक अभ्यासहरूको सुधार, दक्ष प्रशिक्षकहरू र प्रहरी कर्मचारीहरूको व्यसायिक दक्षतामा निखारता ल्याउनको लागि केन्द्रित छ। यसबाहेक, यसले आपराधिक न्याय प्रणालीमा प्रहरीको भूमिका सुधार गर्ने उद्देश्यका साथ मानव संसाधन विकास पक्षहरूमा ध्यान केन्द्रित गर्दछ।

## ख. प्रस्तावको उद्देश्य र आयोजनाको प्रस्तावक

प्रस्तावको मुख्य उद्देश्य काभ्रेपलाञ्चोक जिल्लाको पनौती नगरपालिकाको केन्द्र "पनौती" बजार नजिकै नेपाल प्रहरीका अधिकृतहरुलाई विशिस्ट प्रकारको तालिम प्रदान गर्न राष्ट्रिय प्रहरी प्रशिक्षण प्रतिष्ठानको निर्माण गर्नु हो। प्रस्तावसँग सम्बद्ध वातावरणीय प्रभाव र ति प्रभावहरुको प्राथमिकता पहिचान गरी उचित न्यूनीकरणका उपायहरू प्रस्ताव गर्नु यस EIA अध्ययनको मूल उद्देश्य रहेको छ ।

प्रस्तावित प्रस्तावको प्रस्तावक गृह मन्त्रालय अन्तर्गतको राष्ट्रिय प्रहरी प्रशिक्षण प्रतिष्ठान, महाराजगञ्ज, काठमाण्डौ रहेको छ ।

## ग. प्रस्तावको सान्दर्भिकता

वातावरण संरक्षण ऐन, २०७६ को दफा ३ र वातावरण संरक्षण नियमावली, २०७७ को नियम ३ मा भएको व्यवस्था बमोजिम अनुसूची-३ मा सूचीकृत प्रस्तावका लागि वातावरणीय प्रभाव मूल्याङ्कन अनिवार्य गरिएको छ । वातावरण संरक्षण नियमावली, २०७७ को अनुसूची ३को (क) वन क्षेत्र (५) को अनुसार "विधुत प्रसारण लाइन निर्माण बाहेक अन्य प्रायोजनको लागि ५ हेक्टरभन्दा बढी वन क्षेत्र, वन संरक्षण क्षेत्र, संरक्षण क्षेत्र, मध्यवर्ती क्षेत्र तथा वातावरण संरक्षण क्षेत्रको जग्गा प्रयोग गर्ने" व्यवस्था अनुरुप (यस आयोजनाका लागि ६.७ हेक्टर आवश्यक पर्ने हुनाले) र यसै नियमावलीको अनुसूची ३ को (ज) आवास, भवन तथा बस्ती विकास तथा शहरी विकास क्षेत्र (२) मा "१०,००० वर्गमिटर क्षेत्रफ़लभन्दा बढीको

Built Up Area वा Floor Area भएको आवासीय, व्यासायिक वा आवासीय र व्यासायिक दुवै प्रकृति भएको संयुक्त भवन निर्माण गर्ने" (यस आयोजनाका लागि १०९२१५ वर्गमिटर) र सोहि अनुसूचीको (ज) आवास, भवन तथा बस्ती विकास तथा सहरी विकास क्षेत्र (६) मा "२०,००० लिटर भन्दा बढी दैनिक भूमिगत पानीको प्रयोग हुने भवन निर्माण तथा संचालन गर्ने" (यस आयोजनाका लागि निर्माण चरणमा ३६,५३० लिटर र संचालन चरणमा ६३५,००० लिटर पानीको प्रयोग) आवश्यक हुने देखिएको छ । यस कारणहरूले गर्दा प्रस्तावित आयोजनाका लागि वातावरणीय प्रभाव मूल्याङ्कन अध्ययन नै आवश्यक रहेको हुनाले सोहि अनुरुप अध्ययन प्रतिवेदन तयार पारिएको हो।

## घ. आयोजनाको विवरण

राष्ट्रिय प्रहरी प्रशिक्षण प्रतिष्ठानको संचालन गर्न कार्यकारी निर्देशक अतिरिक्त प्रहरी महानिरीक्षक बाट हुने गर्दछ। प्रतिष्ठानमा रहने कुल ६७० जना दक्ष जनशक्तिबाट प्रशिक्षण व्यवस्थापनको विविध पक्षहरू जस्ते प्रशासनिक, व्यवस्थापकीय, जिन्सी व्यवस्थापन, बिषयगत सेवाहरू र अन्य जिम्मेवारीहरू लगायतमा तालिमहरू प्रदान गर्ने गर्दछ। प्रतिष्ठानमा आयोजना हुने विभिन्न तालिममा देशभरका वरिष्ठ प्रहरी अधिकृत तहको, सहायक प्रहरी अधिकृत र अन्य प्रहरीहरूको सहभागिता रहने गरी आयोजना गर्दछ।

प्रस्तावित आयोजनाले पनौती, काभ्रेपलाञ्चोकमा ४१.८६ हेक्टर (४,१८,६०३.१७ वर्ग मिटर) क्षेत्रफल मध्ये १०९२१५ वर्गमिटरको निर्माण क्षेत्रभित्र आधुनिक र सुविधा सम्पन्न पूर्वाधार निर्माण गर्ने लक्ष्य राखेको छ। रा.प्र.प्र.प्र.को आवश्यकता पूरा गर्न जम्मा ५८ वटा भवन निर्माण गरिनेछ ।

तालिका कः आयोजनाको विवरण

ऋ.स	विषय	विवरण
٩.	प्रस्तावक	राष्ट्रिय प्रहरी प्रशिक्षण प्रतिष्ठान, महाराजगञ्ज, काठमाण्डौ
٦.	आयोजनाको नाम	राष्ट्रिय प्रहरी प्रशिक्षण प्रतिष्ठान भवन निर्माण, काभ्रेपलान्चोक
₹.	आयोजना निर्माण स्थल	
٧.	प्रदेश	बागमती
	जिल्ला	काभ्रेपलान्चोक
	स्थानीय तह	पनौती नगरपालिका
	वडा	ų.
ሂ.	भौगोलिक अवस्थिति	अक्षांशः २७॰३५'३३.४६" उत्तर
	मागाालक अवास्यात	देशान्तरः ८५°३१'६.०५" पूर्व
ξ.	भौगर्भिक क्षेत्र	मध्यपहाडी, १४४२ देखि १५७४ मि. समुन्द्री सतह देखि
૭.	नजिकको खोला	पश्चिमी भाग रहेको पुण्यमाता खोला
۲.	आयोजना पहुँच मार्ग र पुल	
٩.	шаг шаж	अरनिको राजमार्ग (H03): सिंहदरबार, काठमाण्डौ देखि बनेपासम्म
	मुख्य सडक	२३.७ किलोमिटर बनेपा—खोपासी सडक (F029): बनेपादेखि
	आन्तरिक पहुँच मार्ग	आयोजना क्षेत्रसम्म ५.१ किलोमिटर कुल दूरीः २८.८ किमी

ऋ.स		विषय	विवरण				
90.	आयोजना	क्षेत्र					
99.	कुल क्षेत्र	<b>क</b> ल	४१.८६ हेक्टर				
	Plinth क्षेत्र		३१९१४ वर्ग मिटर				
	आयोजनाव	हो Built Up Area	१०९,२१५ वर्ग मीटर				
	खुल्ला क्षे	त्रफल	९२.३८%				
٩٦.			प्रत्येक भवनसम्म रहने पहुँच मार्ग				
			आपतकालीन सिँढी				
			आगलागी साइरन प्रणाली (Fire Alarm System)				
			२००,००० लिटर पानीको व्यवस्था सहितको अग्नी नियन्त्रण				
	भागनकार	ीन तयार <u>ी</u>	प्रणाली				
	जानसकार	॥ १ (पारा	आपतकालीन उद्दार व्यवस्था				
			खुला स्थानहरू				
			आपाङ्गमैत्री पैदल यात्री मार्ग				
			भवनको कोरिडोरमा स्वचालित बत्तिको व्यवस्था				
			विशेषज्ञ चिकित्सकहरूको सुविधा				
٩٦.	पानीको अ	ावश्यकता					
	गोन		नगरपालिकाबाट वितरण गरिने पानी र भूमिगत स्रोत (Deep				
	स्रोत		Boring)				
	निर्माण च	रण	४०००० कि.लि. (३६५३० लिटर प्रतिदिन)				
	परिमाण		६३५,००० लिटर प्रतिदिन				
	भूमिगत पानी ट्यांकी						
		( <b>कुल</b> )	६३५,००० लिटर				
	संचालन	आगलागी नियन्त्रण	२००,००० लिटर				
	चरण	प्रणाली	२०२,००० लिटर				
		Overhead ट्यांकी					
		खानेपानी प्रशोधन	30,000 -				
		(RO)	२०,००० लिटर				
98.	आवश्यक	<u>उ</u> र्जा					
	श्रोत		नेपाल विधुत प्राधिकरणको राष्ट्रिय ग्रिड प्रणाली मार्फत				
	Electrica	l Substation	२*१५०० के.भी.				
	वैकल्पिक	उर्जा श्रोत	२*७५० के.भी. क्षमताका डिजेल जेनेरेटर सेट				
-	तातो पानी	(सौर्य उर्जा)	३८७ ,००० लिटर (प्रति व्यक्ति दैनिक २० लिटर)				
	फोहर उत्सर्जन						
	निर्माण चरण		अनुमानित कुल उत्सर्जन : ५९.५ के.जी प्रतिदिन				
			जैविक फोहर (५१%) : ३०.४ के.जी प्रतिदिन				
			अनुमानित कुल उत्सर्जन : ४२४.३५ प्रतिदिन				
	संचालन	चरण	जैविक फोहर (५१%) : २१६.४२ के.जी प्रतिदिन				
٩٤.	ढल प्रशोध	 ग्रन प्रणाली	२४२०० लिटर (४८४ श्रमिक * ५० लिटर पानी प्रतिदिन)				
	निर्माण च		को ८०% का दरले १९३६० लिटर फोहर पानी प्रतिदिन Soak				
	ानमाण च	(प	का ५०% का दरल ५५३६० लिटर फाहर पाना प्रातादन Soak				

ऋ.स	विषय	विवरण			
		Pit को माध्यमद्वारा प्रशोधन			
		४४०००० लिटर पानीको ८०% पानी ३५०००० लिटर			
	संचालन चरण	फोहर पानी STP (MBBR Technology) द्वारा (पूर्ण रूपमा			
		३४५० जनाका लागि संचालनमा आउँदा)			
٩٤.	गाना बनगरि बनावन र	बनस्पतिः सल्लो, चिलाउने, उत्तिस, काफल, मयल, आदि			
	मुख्य बनस्पति, बन्यजन्तु र चराहरु	<b>बन्यजन्तुः</b> जंगली बिरालो, बँदेल, स्याल, रतुवा मृग, आदि			
		चराहरुः सुगा, भंगेरा, काग, डांग्रे, आदि			
٩७.	प्रक्षेपित जनसंख्या (कुल ३४५०	३२२५ जना (प्रहरी जवानहरूको बसोबास)			
	संचालन चरण)	१२५ जना (पाहुना)			
٩٣.	आयोजनाको अनुमानित लागत	ने.रु. ८,७९,१३,८०,०००			
98.	आयोजना निर्माणका लागि लाग्ने	३ वर्ष			
	अनुमानित समय	२ अप			

श्रोतः राष्ट्रिय प्रहरी प्रशिक्षण प्रतिष्ठान भवन निर्माण, काभ्रेपलान्चोक आयोजना विस्तृत अध्ययन प्रतिवेदन, २०१९

## ङ. अध्ययनमा अपनाइएका विधिहरू

अध्ययनले वा.सं.ऐ. २०१९ र वा.सं.नि. २०२० मा उल्लिखित प्रावधानहरू कानुनी बाध्यकारी नियम, स्वीकृत कार्यसूची, क्षेत्र निर्धारण अध्ययनको ऋममा व्यक्त गरिएका छलफल, स्थलगत अध्ययन, स्थानीय सरोकारवाला र अधिकारीहरूसँगको परामर्श र द्वितीय प्रकाशित र अप्रकाशित तथ्याँकहरूलाई आधार मानि यो प्रतिवेदन तयार पारिएको हो । प्राथमिक तथ्याँकहरू समूहिक छलफल, मुख्य सूचनादाता अन्तर्वार्ता, महिला समूहसँग गरिएको परामर्श, अन्य परामर्शहरू र चेक पोइन्ट सर्वेक्षणहरू प्रयोग गरी सङ्कलन गरिएको थियो। विज्ञ टोलीमा संग्लग्न सदस्यहरूको सहयोगमा स्थानीयसँग परामर्श र सार्वजिनक सुनुवाइ कार्यऋम सञ्चालन गरिएको थियो। त्यस ऋममा उठेका सवालहरू प्रतिवेदनमा रेकर्ड र सम्बोधन गरिएको थियो। सङ्कलन गरिएको जानकारी कम्प्युटरमा आधारित, विषयगत विशेषज्ञवाट गरिएको विश्लेषण र समान अध्ययनहरूमा प्रस्तावित व्यवहारिक न्यूनीकरणका उपायहरू विश्लेषण गरिएको थियो।

## च. हालको वातावारणीय अवस्था

## १. भौतिक वातावरण

प्रस्तावित आयोजना समुन्द्री सतह देखि १४४२ देखि १५७४ मिटरको उचाइमा अवस्थित रहेको छ । आयोजना क्षेत्रको हावापानीलाई उपोष्णकटिबंधीय मानिन्छ । न्यूनतम तापऋम जनवरीमा र अधिकतम तापऋम जुलाईमा रेकर्ड भएको थियो । पनौतीमा औषत वार्षिक वर्षा १२००-२००० मिमी रेकर्ड गरिएको छ ।

भौगोलिक रुपमा प्रस्तावित आयोजना क्षेत्र नेपालको प्रि क्याम्ब्रियन-डेभोनियन क्षेत्रको काठमाडौं समूह भित्रको टिस्टुङ समूहको फुलचोकी उपसमूह र तवा खोला फर्मेसनको भीमफेदी उपसमूहमा अवस्थित छ। आयोजना क्षेत्रमा गरिएको भौगर्भिक अध्ययन अनुसार

प्रस्तावित योजनाको जग कोहेसिव माटोमा निर्माण हुने देखिन्छ । आयोजना क्षेत्र निजेकै भएर बग्ने पुण्यमाता खोला आयोजना क्षेत्रको उत्तरबाट दक्षिण सिमाना हुँदै बग्छ जस्को बहाब सुख्खा मौसममा न्यूनतम हुन्छ। ईन्जिनियरिंग अध्ययन अनुसार आयोजना स्थलको पश्चिमी तल्लो क्षेत्रमा १-१.५ मिटरको गिहराइमा भूमिगत पानी भेटिएको थियो।

## २. जैविक वातावरण

प्रस्तावित आयोजना कुनै पनि संरक्षण क्षेत्र (राष्ट्रिय निकुञ्ज, संरक्षण क्षेत्र, शिकार आरक्ष र अन्य) भित्र पर्देन। प्रस्तावित आयोजना क्षेत्रबाट सवै भन्दा निकको संरक्षण क्षेत्र भनेको फुलचोकी संरक्षित वन क्षेत्र हो जुन आयोजना क्षेत्रबाट ५.३३ किलोमिटर एरियल दुरीमा अवस्थित छ। प्रस्तावित आयोजना क्षेत्र उपोष्णकिटबंधीय जैविक जलवायु क्षेत्रमा अवस्थित छ र यस क्षेत्रका वनमा पाइने वनस्पतिहरूमा उत्तीस, चिलौने, लप्सी र सल्ला आदि पर्दछन । आयोजनाको लागि देवीस्थान (ख) सामुदायिक वन र राष्ट्रिय वनको क्षेत्रको ऋमश ३.६ हेक्टर र ३.१ हेक्टर गिर कुल ६.७ हेक्टर वन क्षेत्र आवश्यक पर्ने देखिन्छ । आयोजना रहने वन क्षेत्रमा यदा कदा रतुवा मृग आउने बाहेक अन्य कुनै वन्यजन्तुको आवतजावत हुने गरेको पाइएन।साथै प्रस्तावित आयोजना रहने वन एक दम पातालो प्रकारको रहेको, मानव गतिविधि बढी रहेकोले पनि उक्त स्थानमा कुनै पनि प्रकारको वन्यजन्तुको वासस्थान रहेको पनि पाइएन।

## ३. सामाजिक-आर्थिक वातावरण

"पनौती" काठमाण्डौं उपत्यका नजिकैको सबैभन्दा पुरानो सहर हो। यहाँ धेरै धार्मिक मन्दिर र तीर्थ स्थलहरू रहेका छन् । आयोजना क्षेत्र पनौती बजार देखि उत्तरी भागमा करिब १ किलोमिटर टाढाको दुरीमा अवस्थित रहेको छ । प्रस्तावित आयोजना क्षेत्र पनौती नगरपालिकाको वडा नं. ६ मा अवस्थित छ । सन् २०२१ को जनगणना अनुसार पनौती नगरपालिकाको कूल जनसंख्या ५१५०४ जना रहेको छ । जबिक वडा नं ६ मा औसत ४.१३ घरपरिवारमा कुल जनसंख्या ३५४७ (१७४० महिला र १८०७ पुरुष) व्यक्ति ८५९ घरपरिवारमा बस्दै आएको पाइयो । प्रस्तावित आयोजना कार्यान्वयनबाट कुनै पनि निजी घरपरिवार र सम्पत्ति प्रभावित हुने छैनन् । यहाँ पिउने पानीको प्रमुख स्रोत पाइप धाराको पानी रहेको पाइयो । यहाँ कुल ६७.५ प्रतिशत घरपरिवारले खाना पकाउन मुख्य ऊर्जा स्रोतको रूपमा एलपीजी प्रयोग गर्छन् भने ९८.९ प्रतिशतले बित्त बल्न मुख्य स्रोतको रूपमा विद्युत प्रयोग गर्छन् ।

इतिहास हेर्ने हो भने पनौती नगरपालिकाको मुख्य क्षेत्र "पनौती" मूलतः राजा भूपितन्द्र मल्लले आफ्नी बिहनीलाई दाइजोमा दिएको सानो राज्य थियो। पनौती नगरपालिकामा समग्र क्षेत्री र ब्राह्मण जातिको बाहुल्यता रहेको छ भने मुख्य बजार क्षेत्रमा नेवार र तामाङ समुदायको बाहुल्यता रहेको छ । यहाँ प्रत्येक १२ वर्षमा माघको महिनामा मनाइने मक्कर मेलालाई

उच्च महत्वका रूपमा लिइन्छ । पनौती भित्र हुने प्रमुख जात्राहरू जस्तै गुठी जात्रा, बाघभैरव जात्रा, कुषादेवी जात्रा, फुलचोकी जात्रा, गाईजात्रा, हिलेजात्रा आदि हुन् ।

## छ. पहिचान गरिएका वातावारणीय प्रभावहरू

## १. सकारात्मक प्रभावहरू

- निर्माण चरणमा दैनिक ४८४ जनशक्ति वा २४२ (५०%) प्रत्येक दक्ष र अदक्ष जनशक्तिले दैनिक रूपमा अवसर पाउनेछन् ।
- स्थानीय रूपमा उपलब्ध उत्पादनको प्रयोग, प्राविधिक सीप अभिवृद्धिलाई प्राथिमकता दिएर स्थानीय जनताको आम्दानी वृद्धि गर्न सहयोग पुग्नेछ ।
- स्थानीयहरूलाई तालिमसँगै रोजगारीको अवसरहरू सृजना गरिनेछ ।
- सञ्चालनको चरणमा, रा.प्र.प्र.प्र. लाई आधुनिक र सबै खालको तालिमहरू संचालन गर्न आवश्यक पूर्वाधारहरूको उपलब्धता भई समग्र नेपाल प्रहरीको सीप र क्षमता अभिवृद्धि गर्न सहज हुने।
- स्थानीय बजार क्षेत्रको वृद्धि, वातावरणीय अवस्थामा सुधार, वरिपरीका क्षेत्रका जग्गाको मूल्य वृद्धि हुने जस्ता सकारात्मक प्रभावहरू हुन सक्नेछन् ।

## २. भौतिक वातावरणमा पर्ने प्रतिकूल प्रभावहरू

- भू-उपयोगमा परिवर्तन हुने
- माटो कटान र निर्माण कार्य गर्दा पुण्यमाता खोला र आयोजना क्षेत्रको पश्चिमी तल्लो भागको छेउछाउमा भूक्षय र पहिरोको जोखिमलाई बढाउन सक्नेछ।
- निर्माण जन्य फोहोरको अनियन्त्रित व्यवस्थापनका कारण हुने भुमि प्रदुषण
- उत्खनन, बिग्रन ढुवानी र व्यवस्थापन तथा अन्य निर्माण सामग्री ढुवानी कार्यको लागि अत्यधिक सवारी साधनको संचालन गर्नुपर्ने हुँदा त्यस ऋममा उत्सर्जन हुने धुलो र सवारी र DG सेटबाट निस्कने COx, SOx र NOx जस्ता प्रदूषक ग्याँसहरू उत्सर्जन भई वायुको गुणस्तरमा हास आउन सक्छ ।
- भारी मेसिनरीको प्रयोग र त्यसबाट उत्सर्जन हुने ध्वनिका कारण पर्ने प्रभाव
- नजिकैको पानीको श्रोतमा प्रदुषण हुन सक्ने
- सिसामा आधारित पेन्ट अवशेषहरू, रंग, घोलक, डिजेल र ग्रीज, भारी धातुहरू, ठोस फोहोर आदि खुल्ला जिमनमा छोड्दा सतहको माटो प्रदुषित हुन सक्छ।
- भण्डारण गरिएका निर्माण सामग्रीहरूहरूलाई उचित व्यवस्थापन नगरेमा नजिकैका पानीका स्रोतहरू प्रदूषित हुनेछन्।
- निर्माण र सञ्चालनको ऋममा उत्सर्जन हुने फोहोर (ठोस र तरल)।

## ३. जैविक वातावरणमा पर्ने प्रतिकूल प्रभावहरू

- प्रस्तावित आयोजनाको लागि दलिन्चोक (ख) सामुदायिक वन क्षेत्रको ३.६ हेक्टर र राष्ट्रिय वन क्षेत्रको ३.९ हेक्टर गरी कूल ६.७ हेक्टर क्षेत्रफल आवश्यक पर्ने देखिन्छ ।
- प्रस्तावित आयोजनाको कार्यान्वयनबाट २९९ वटा रुखहरु काट्नुपर्ने हुन्छ ।
- खुल्ला तथा प्रज्वलनिशल पदार्थका कारण हुन् सक्ने आगलागिका घटनाहरु बढ्न सक्छ ।

## ४. सामाजिक, आर्थिक र सांस्कृतिक वातावरणमा पर्ने प्रतिकूल प्रभावहरू

- रा.प्र.प्र.प्र.ले अधिग्रहण गर्नुअघि प्रयोग गरिएको आन्तरिक पहुँच सडकको प्रयोगमा अवरुद्ध हुने, बनेपा-खोपसी सडक छेउमा रहेको आयोजनाको प्रवेशद्वार क्षेत्रमा हुने ट्राफिक जामहरू लगायतका प्रभावहरू प्रमुख सामाजिक समस्याहरू हुन् ।
- दलिन्चोक समुदायबाट आवतजावतको लागि पहिले सामुदायिक वन क्षेत्र भित्र प्रयोग गरिएको गोरेटो आयोजना संचालन पश्चात अवरुद्ध हुनेछ ।
- निर्माण चरणमा बालश्रमको प्रयोग र श्रमिक र समुदाय बिच द्वन्द्व बढ्न सक्नेछ।
- आयोजना क्षेत्र सँगैको पुन्यमता खोला पारि पट्टि रहेको मुक्तिनाथ मन्दिर, बिचारी पाटी
   र घाट स्थलहरू निर्माण कार्यको ऋममा प्रभावित हुन सक्नेछन् ।
- अपर्याप्त पार्किङ क्षेत्र र आयोजना स्थल (प्रस्तावित पुल क्षेत्र) को प्रवेश द्वारमा सवारी ट्राफिक जाम बढाउनेछ ।

## ज. न्यूनीकरणका उपायहरू

## १. भौतिक वातावरण

भौतिक वातावरण अन्तर्गत पहिचान भएका प्रतिकूल प्रभावहरूको न्यूनीकरणका लागि निम्न उपायहरू प्रस्ताव गरिएका छन्ः

- भू-स्खलन हुन सक्ने क्षेत्रमा बायोइन्जिनियरिङ प्रविधि अपनाउने, रुख रोप्ने र साथै उपयुक्त खुला ठाउँमा हरियाली कायम गरिनेछ ।
- माटोको उत्खननबाट उत्पन्न हुने माटोलाई पुनःप्रयोग वा आयोजनाको सीमाभित्र तोकिएको क्षेत्रमा व्यवस्थापन गर्नुपर्नेछ।
- ठेकेदारले साइट क्लियरेन्स, र भवन निर्माण कार्यबाट उत्सर्जन हुन सक्ने धुलो र सँगै रहेको बनेपा-खोपसी सडक खण्डमा जोडिएको मूल प्रवेशद्वार लगायतका क्षेत्रमा दिनको कम्तिमा दुई पटक पानी स्प्रे गर्नुपर्नेछ, निर्माण सामग्री ढुवानी गर्दा त्रिपालले छोप्ने व्यवस्था गर्नुपर्नेछ ।
- निर्माणमा कार्यका लागि परिचालित श्रमिकलाई सम्भावित ध्विन प्रदुषणबाट हुने
   प्रभावलाई न्यूनीकरण गर्न कान मफलर उपलब्ध गराइनु पर्नेछ ।

- निर्माण कार्य स्थलहरूबाट उपयुक्त दूरीमा पर्याप्त शौचालय र सरसफाई सुविधाहरूको व्यवस्था सुनिश्चित गरिनु पर्नेछ ।
- कुवा र पुण्यमाता खोला क्षेत्र निजेक सवारी साधन वा उपकरणहरूको सरसफाई गर्न निषेध गरिनेछ ।
- ढल तथा फोहोर पानीको व्यवस्थापनको लागि निर्माण चरणमा सोक पिट प्रयोग गरिनेछ र सञ्चालन चरणमा सम्भावित कुल ३४५० व्यक्तिहरूबाट उत्पन्न हुने ढल र अन्य तरल फोहोरहरू प्रशोधन गर्न प्रति दिन ३५००० लिटर प्रशोधन गर्न MBBR प्रविधि जडान गरिनेछ ।
- भूमिगत पानी प्रयोग पश्चात पुनर्भरण गर्न रिचार्ज पिटहरू निर्माण गरिनेछ । यसको लागि कूल ३३८,१९६.०५ वर्गमिटर क्षेत्रफलमा वर्षातको पानी संकलन गर्ने रेन वाटर हार्वेस्टिङ सिस्टम (RWHS) को निर्माण गरिनेछ । त्यस क्षेत्रमा १२०० मिलिमिटर औषत वार्षिक वर्षाको तथ्यांक हेर्दा भूमिगत पानीको प्रयोग र पुनर्भरणको अनुपात १:२.०४५ का दरमा हुने अपेक्षा गरिएको छ।
- भण्डारण स्थलहरू खेती योग्य जिमन र वस्तीहरू, पिउने पानीका मुहानहरू, सार्वजिनक स्थानहरू, विद्यालय र स्वास्थ्य केन्द्रहरू र निजेकको पुण्यमाता खोलाबाट टाढा व्यवस्थापन गर्नुपर्नेछ ।

## २. जैविक वातावरण

जैविक वातावरण अन्तर्गत पहिचान भएका प्रतिकूल प्रभावहरूको न्यूनीकरणका लागि निम्न उपायहरू प्रस्ताव गरिएका छन्ः

- आयोजना निर्माणको ऋममा काटिने २९९ वटा रुखहरुको १:१० को अनुपातमा २,९९० रुखहरु क्षतिपूर्ति स्वरुप र प्रयोग हुने ६.७ हेक्टर वन क्षेत्र प्रयोग गर्दा गर्नु पर्ने प्रति हेक्टर १६०० का दरले १०,७२० गरी १३,७१० बिरुवा वृक्षारोपण गरी ५ वर्ष सम्म संरक्षणका लागि देवीस्थान (ख) सा.वन र डिभिजन वन कार्यालय, खोपासीसँगको समन्वयमा प्रभावित देवीस्थान (ख) सामुदायिक वनको बाँझो क्षेत्र भित्र पुनःवृक्षारोपण गरिने छ ।
- आयोजना क्षेत्रका उपयुक्त खुल्ला क्षेत्रमा वातावरण मैत्री बनाउन बगैचा, हिरयाली क्षेत्र निर्माण गरिनेछ ।
- सव डिभिजन वन कार्यालय, खोपसीको समन्वयमा देवस्थान(ख) सा.वनका उपभोक्ताहरूलाई वन व्यवस्थापन र वन स्रोतको विकल्प सम्बन्धिमा क्षमता विकास तालिमहरू उपलब्ध गराइनेछ ।
- अत्यधिक प्रज्वलनशील इन्धन र तेलको भण्डारण व्यवस्थित वातावरणमा उचित स्थानमा गरिनेछ।
- अनपेक्षित रुपमा जङ्गलमा हुन सक्ने सम्भावित आगो जोखिमहरुबाट हुने क्षिति कम गर्न कम्तिमा ५० हजार लिटरको पानी भण्डारण सुनिश्चित गरिनेछ ।

- पुन्यमाता खोलामा प्रशोधन नगरिएको फोहोर पानी मिसाउन कडाईका साथ निषेध गरिनेछ ।
- फुल्चोकीमा अवस्थित जैविक विविधता र बासस्थानमा अन्य कुनै पनि विशेष न्यूनीकरणका उपायहरू आवश्यक पर्ने देखिदैन किनिक यो अप्रत्यक्ष प्रभाव क्षेत्र भन्दा बाहिर अवस्थित रहेको छ।

## ३. सामाजिक, आर्थिक र सांस्कृतिक वातावरण

सामाजिक, आर्थिक र सांस्कृतिक वातावरण अन्तर्गत पहिचान भएका प्रतिकूल प्रभावहरूको न्युनीकरणका लागि निम्न उपायहरू प्रस्ताव गरिएका छन्:

- आयोजना कार्यान्वयनबाट कुनै पनि निजी सम्पत्ति र घरपरिवार प्रभावित हुने छैन।
- आयोजना प्रभावित समुदाय, स्थानीय विपन्न, सीमान्तकृत समूह र महिला लगायतका स्थानीयलाई निर्माण कार्यमा सहभागी हुन र काममा पहिलो प्राथमिकता दिन प्रोत्साहित गरिने सुनुश्चितता गर्नु पर्नेछ।
- आयोजना क्षेत्र भित्र रहेको कुवाको पानीको उपयोगमा पहुँच पु-याउन रा.प्र.प्र.प्र. को कम्पाउन्ड बाहिर छुट्टै पानी भण्डारण ट्याङ्की निर्माण गरी वितरण गर्ने वातावरण मिलाइन् पर्नेछ।
- पनौती नगरपालिकासँग सम्बन्ध कायम गरी पालिकालाई निर्णय प्रिक्रयामा संलग्न गराई निर्माण कार्यमा संग्लग्न गराउनुपर्नेछ ।
- बालबालिकाहरूलाई काममा रोक लगाउन र निर्माण चरणमा महिलाका लागि समान अवसरहरू सुनिश्चित गर्न स्पष्ट र निष्पक्ष रोजगारी नीतिहरू अवलम्बन गरिन् पर्नेछ ।
- सामुदायिक स्तरका समस्याहरू समाधान गर्न उपभोक्ता प्रतिकार्य समिति (URC) को गठन गरी सिक्रिय बनाइनु पर्नेछ ।
- आयोजना क्षेत्रमा गित सीमा र निर्माण गितिविधि क्षेत्रसँग सम्बन्धित सुरक्षा साइन बोर्ड स्थापना गिरनेछ।
- डाइभर्सन, सुरिक्षित र सुविधाजनक लेन चिन्हहरू र पैदल यात्री ऋसिङहरू स्थापना गरिनेछ।
- आयोजना स्थलको छेउ पुण्यमाता खोलापारी रहेका मुक्तिनाथ मन्दिर बिचारी पाटी र घाट स्थलको पुनर्स्थापना/संरक्षण गर्न सहयोग गरिनेछ ।
- पनौतीमा रा.प्र.प्र.प्र. स्थापना भएपछि त्यस क्षेत्रमा बढ्न सक्ने सवारी चाप न्यूनीकरण गर्न पुण्यमाता खोला करिडोर सडकको स्तरोन्नति गरी सम्भव भएसम्म फिडर रोड मापदण्डमा स्तरोन्नति गर्दा उपयुक्त हुनेछ ।
- पूर्व, दक्षिण र उत्तरमा हाल विद्यमान सडकलाई स्तरोन्नित गरी वन क्षेत्र भित्र पिहले
   प्रयोग गिरएको सार्वजिनक गोरेटो बाटो उपयुक्त विकल्पहरू हुनेछन् र यसलाई नै
   स्तरोंनिती गर्दा दिलनचोकबाट औ-जाउ गर्न उपयुक्त र सहज हुने देखिन्छ।

## झ. वातावरणीय व्यवस्थापन योजना

यस आयोजना अन्तर्गत अनुकूल प्रभाव अधिकतम अभिवृद्धि गर्ने र प्रतिकूल प्रभाव न्यूनीकरणका उपायहरूको प्रभावकारिता, आयोजनाको दिगोपना र प्रस्तावित आयोजनाको वातावरणीय परीक्षण सहित प्रभाव अनुगमन, अनुगमन सूचकहरूको साथ सिफारिस गरिएको छ। आयोजना क्षेत्रसँग जोडिएका समुदायहरूको सामाजिक आर्थिक विकास हुने अपेक्षा गरिएको छ। निर्माण अवधि र सञ्चालनको पहिलो वर्षमा अनुगमनका लागि बजेट विनियोजन गरिएको छ भने वातावरणीय परीक्षण लागत समेत विनियोजन गरिएको छ।

ज. वातावरणीय व्यवस्थापन योजना तथा अनुगमनका लागि आवश्यक अनुमानित लागत वातावरणीय अध्ययन प्रतिवेदनले सुझाइएका उपायहरूको कार्यान्वयनका लागि अनुमानित लागत तालिका ख मा उल्लेख गरिएको छ। यस कार्य अन्तर्गत क्षति भएका रुख विरुवाहरूको क्षतिपूर्ति स्वरुपको वृक्षारोपण र ५ वर्ष सम्मको व्यवस्थापन खर्च, प्रभावित हुने सार्वजनिक सम्पत्तिको प्रभाव न्यूनीकरण तथा सामाजिक सहयोग कार्यक्रम अन्तर्गत क्षमता अभिवृद्धि लगायत रहेका छन्।

तालिका खः वातावरणीय व्यवस्थापन योजना तथा अनुगमनका लागि आवश्यक अनुमानित लागत

ऋ.सं.	विवरण	रकम (ने.रु.)		
٩.	नकरात्मक प्रभाव न्यूनीकरण (क्षतिपूर्ति स्वरूपको बृक्षारोपण सहित) लागत	१९,७९५,०००		
٦.	आनुमानित वातावरणीय अनुगमन लागत	५४,३०७,०००		
₹.	वातावरणीय परिक्षण लागत	२,९६५,०००		
	कुल वातावरणीय व्यवस्थापन लागत			

## क. निष्कर्ष र प्रतिबद्धता

प्रस्तावकले वातावरणीय सवालहरूको कार्यान्वयनका लागि कुल रु. १,९७,९४,०००, रु. ५४,३०,७००० अनुगमन कार्यका लागि र रु. २९,६५,००० वातावरणीय परिक्षणका लागि गरि कुल रू. ७७,०६,७००० (कुल आयोजनाको ०.८७६%) वातावरणीय व्यवस्थापन योजनाको कार्यान्वयनका लागि प्रस्ताव गरिएको छ ।

वातावरणीय प्रभाव मुल्यांकन अध्ययन प्रतिवेदनका प्रस्ताव गरिएका न्युनिकारणका उपायहरूलाई आयोजना कार्यान्वयनका बेला पूर्ण रुपमा पालना गर्नुपर्नेछ । प्रस्तावक आयोजना निर्माण तथा संचालन चरणमा वातावरणीय व्यवस्थापन योजनामा उल्लेख भएका सर्त तथा कार्यक्रमहरु लागु गर्न प्रतिबद्द रहेको छ ।

## CHAPTER 1: NAME AND ADDRESS OF THE INSTITUTION PREPARING THE REPORT

#### 1.1 Proponent

The name of the Project is "Construction of National Police Academy at Kavrepalanchowk, Nepal. National Police Academy (NPA) is the proponent of this Project. The details address of Proponent is presented below:

The detail of proponent:

Name: **National Police Academy** Address: Maharajgunj, Kathmandu

Phone: 01-4420517

Email: npa\_kavreProject@nepalpolice.gov.np

Website: https://npa.nepalpolice.gov.np

## 1.2 Institution Responsible for Preparing EIA

NPA entrusted Research Enclave Pvt. Ltd. for EIA study of this Project. On behalf of Proponent, Research Enclave Pvt. Ltd. has prepared Terms of Reference (ToR) for EIA study and this report. The details address of the organization preparing the report is presented below:

#### Research Enclave Pvt. Ltd.

Kathmandu Metropolitan City-31, Hanuman Marg

Shankhamul, Kathmandu

Phone: 01-5242918 / 9851097036 Email: researchenclave@gmail.com

## 1.3 Rationality for Conducting EIA

As per the Section 3 of the Environment Protection Act, 2019, and provision in Rules 3 of the Environment Protection Regulations, 2020; it has made mandatory to conduct Environmental Impact Assessment for the proposals listed within the Schedule 3. The Project is fully funded (foreign investment) by Government of India (GoI), for which the report is prepared in English language as per Rule 7 (8) of EPR 2020. The summarized EIA report is prepared in Nepali language as per Rule 7 (9) of EPR 2020 (APPENDIX 20).

**Table 1.3-1:** Provisions Regarding Legal Justification

S.N.	Legal Provisions	Binding Provisions for the Project			
Provi	sion under Forest Clearance				
1.	The proposal under Schedule 3 (Ka-Forest Area-5) of EPR 2020 has provisioned that "the use of forest area, forest conservation area, conservation area, buffer zone area, and forest within the environment conservation area, for more than 5 ha for all the proposals except electricity transmission line construction purposes.	The Project is not related to electricity transmission line construction. This Project requires 6.7ha of forest area.			
Provi	Provision under Built-up Area				
2.	The proposal under Schedule 3 (Ja-Housing, Building and Settlement Development and Urban Development Areas-2) of EPR 2020 has provisioned that "if	For this Project, the total built-up area is 109215 sq.m			

S.N.	Legal Provisions	Binding Provisions for the Project
	construction of building with Built Up Area/ Floor	
	Area for residential, business, and/or both types with	
	more than 10,000sq.m" requires EIA as mandatory.	
Provi	ision under use of Ground Water Extraction per Day	
	The proposal under Schedule 3 (Ja-Housing, Building	For this Project, the total daily
	and Settlement Development and Urban Development	36530 liters of water will be
3.	Areas-6) of EPR 2020 has provisioned that "if the daily	required during construction
3.	use of underground water of 20,000Liter shall be	and 635,000 liters of water
	required for the construction and operation of building"	will be required during
	requires EIA as mandatory.	operation stage.

The use of 6.7ha forest area has been proposed for NPA Project. Firstly, the decision on the allocation of proposed Project site is decided by Cabinet Meeting held on 2075/05/21 (6 September, 2018) and secondly the recommendation of concerned forest management authorities for the use by NPA (APPENDIX 3 and APPENDIX 4) has been received.

## 1.4 Objectives of the EIA

The main objective of EIA study is to collect baseline information of the project impact area, predict environmental impacts due to execution of project and to propose practical, scientific and cost effective mitigation measures to overcome such impacts. The core objectives of the EIA are to:

- identify and evaluate the various components of the existing physical, chemical, biological, socio-economic and cultural environment in documentation and decision-making processes;
- review legislation associated with the Project and applied to Projects;
- disseminate the project related information at project impact area through public hearing and public notice.
- evaluate the various alternatives to Project area and determine the best alternatives with a definitive form, a socially acceptable and economically viable one;
- assess the magnitude, extent and duration of the impacts associated with Project and to help in decision making process;
- formulate environmental management plan through preventing or minimizing the impacts level and support in achieving sustainable development of environment, assurance of socio-economic development;
- determine the indicators for the monitoring and supervision of the Project activities during construction and operation phase, too.

## 1.5 Limitation of Study

During this study, one time air, noise and water quality data is collected. Tree counting data and volume of trees to be cut within the Project Footprint Area where the infrastructure is proposed is taken reference from the census data done from the Sub-Division Forest Office, Khopasi at the time of preparation of Detailed Project Report (DPR). For Fauna, findings of study are based on one-time field visit, public consultation and secondary source from Sub-Division Forest Office, Khopasi and Devisthan (Kha) Community Forest; thus, lack on information on seasonal variation which is inevitable. Wildlife, aquatic and herpetofauna species is not observed during field visit, thus, species diversity of the project area is cited from other research findings and consultations also.

## **CHAPTER 2: INTRODUCTION OF THE PROPOSAL**

### 2.1 Background

The National Police Academy (NPA) holds the distinction of being the apex Police training institution in Nepal. It was established as the Central Police Training Center (CPTC) in 1956 AD with the responsibility of imparting training to Police Constables. The CPTC was eventually upgraded as the National Police Academy in 1993 AD. It is an important institution dedicated for the human resource development of Nepal Police within the country.

National Police Academy is solely responsible for conducting basic and advanced training programs for the police officers. The institution is relentlessly indulged on new scientific methods and advanced technological adaptations to ensure new concept of policing. The introduction of improved administrative practices focuses on enhancing qualitative instructors and its training to bring about improvements on administrative, investigative and overall improvement on the police professionals. Moreover, it focuses on human resource development aspects with an objective to improve its role in criminal justice system.

With the increasing global security concerns, creating peace and harmony within the country, NPA seeks modern and well-equipped infrastructure to strengthen Nepal Police. In this context, the Government of Nepal (GoN) also seek enhancement of capacity of Nepal Police. During the visit of Hon'ble Prime Minister of India, the Government of Nepal (GoN) and the Government of India (GoI) had signed a Memorandum of Understanding (MoU) dated 25 November 2014 (9 Mangsir 2071) to enhance the capacity of Nepal Police. For this, GoI intends to provide technical and financial support to upgrade National Police Academy. Hence, GoN has identified a suitable place at Panauti of Kavrepalanchowk district; Nepal for construction of highly equipped and well managed National Police Academy.

In order to construct NPA at identified place, it is the prime responsibility of GoN to sort out all the administrative procedure and get environmental clearance along with fulfillment of all legal requirements as per the legal bindings of GoN (Article 6.1.4 of MoU made in between GoN and GoI, refer (APPENDIX 3).

The name of the Project is "Construction of National Police Academy at Kavrepalanchowk District, Bagmati Province, Nepal". Environmental assessment for this Project is mandatory provision to be completed as per Environment Protection Regulation (EPR), 2020 of GoN before the implementation of the Project. At a projected expenditure of NRs. 8791.38 million, the Government of India is entirely funding the project.

## 2.2 Description of the Project

NPA is led by Additional Inspector General of Police who serves as the Executive Director of the Academy. The Academy has strength of 670 personnel who serve in diverse aspects of training management such as instruction, administration, logistics management, support services and other responsibilities. Senior Police Officers from around the country participate in various training courses organized in the Academy.

Training courses for Junior Police Officers and other ranks are also organized in the Academy. Following are the briefs of basic programs and activities NPA is doing so far:

- 1. Training Programs for the Police Personnel: As the apex training institution of Nepal Police, the NPA organizes training courses for police personnel from across the country. Most of the training programs conducted by the NPA are for senior police officers who are currently working or will serve at the operational and strategic leadership positions. It serves as the only training institution with the responsibility to train and develop Police Inspectors by conducting Foundation Training Course. It also conducts in-service training programs for police officers on four major areas: crime investigation, administration and management, security, and operations. Thousands of police officers working in different regions and under diverse and challenging circumstances are the principal beneficiaries of these specialized training programs conducted by the Academy.
- 2. Training Programs for Civil Servants and Other Security Agencies: As the premier training institution of Nepal Police, NPA also offers training programs to civil servants and other security agencies. The major training programs include Strategic Management, Operational Command and Leadership Development, and Investigation Officer Basic Training for officers of National Investigation Department (NID). Similarly, the NPA conducts security phase of the Chief District Officer Course and Assistant Chief District Officer Course in its premises. The NPA also provides resource persons to various training courses organized in other training institutions such as Nepal Administrative Staff College, National Judicial Academy and Training Academies of Nepal Army and Armed Police Force. In recent years, it has extended its expertise to training courses such as Basic Administration Training for newly recruited gazette officers, Basic Judicial Training Course for judicial officers and so on.

<u>Development of Sports Activities:</u> Apart from training responsibility, NPA also plays a leading role in the development of sports activities of Nepal Police. The Sports wing of the NPA is actively involved in identifying, selecting and training best talents from within and outside the organization. Through discipline, hard-work and quality sports culture maintained at the Academy, Nepal Police has made immense contribution to the development of Nepali sports arena across diverse sporting events including football, volleyball, martial arts (Taekwondo, Karate, Judo), athletics and so on. Police athletes have been winning medals both at national and international levels for long.

#### 2.2.1 Project Location and Accessibility

The Project site is located in Panauti Municipality, Ward No. 6 of Kavrepalanchowk District in Bagmati Province, Nepal. The geographical location of the Project site is 27°35'39.36"N in West, 27°35'35.98"N in North, 27°35'27.53"N in South and 27°35'19.85"N in East by latitudes and 85°31'12.35"E in West, 85°31'37.84"E in North, 85°31'1.34"E in South and 85°31'13.83"E in East by longitudes respectively.

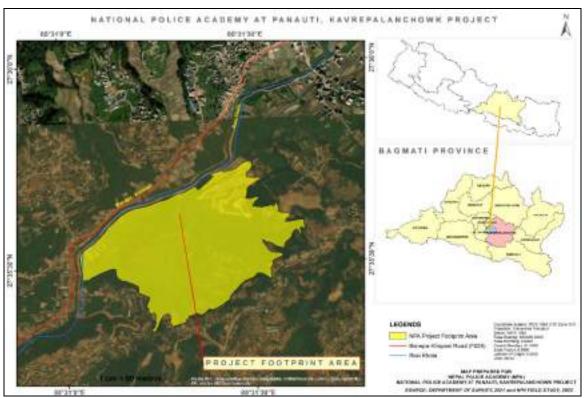


Figure 2.2-1: Layout and Location Map of Project

Source: Digital Data from Department of Survey, 2021 and Detailed Project Report of Construction of National Police Academy at Kavrepalanchowk, Nepal, 2019

The Project site is connected with all-weather road from Kathmandu, the Capital City of the country. The nearest airport to Project site is the Tribhuvan International Airport (TIA) which is approximately 27Km to North West direction. The Project site is approximately 28.8Km south east of capital Kathmandu having roadway connectivity with Madan Bhandari Road, Araniko Highway, Banepa-Khopasi Road upto Dalinchowk near Panauti Bazar. Hence, there will be no issues related to accessibility to the proposed Project site.

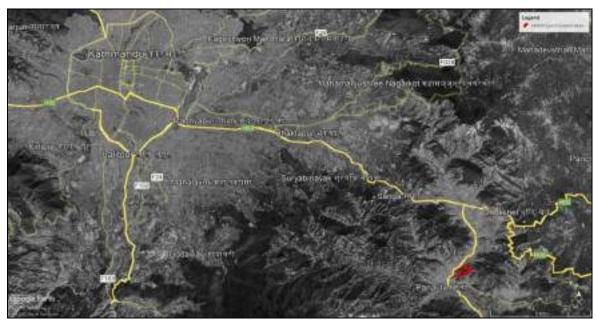


Figure 2.2-2: Bird-Eye View of Project

Source: Google Earth Pro, 2022



Figure 2.2-3: Accessibility to the Proposed Site

Source: <a href="https://maps.google.com/">https://maps.google.com/</a> on 6/05/2022

## **Connectivity from India**

Tribhuvan International Airport (TIA) has international air connectivity, and the project site is well linked by the roadway as mentioned above in this chapter.

## 2.2.2 Salient Feature of the Project Components

The salient features of Project are presented in the following table as:

Table 2.2-1: Salient Features of the Project

S.N.	Component Description	Features			
18.	Proponent	National Police Academy, Maharajgunj, Kathmandu			
19.	Project Name	Construction of National Police Academy at Kavrepalanchowk, Nepal			
	<b>Location of Project Site</b>				
	Province	Bagmati			
20.	District	Kavrepalanchowk			
	Local Level	Panauti Municipality			
	Ward No.	6			
21.	Geographical Location	Latitude: 27°35'33.46"N			
21.	Geographical Location	Longitude: 85°31'6.05"E			
22.	Physiographic Region	Mid-Hill Region at an elevation range of 1442 to			
		1574 amsl			
23.	Nearest Hydrological Network	Punyamata Khola at Western part			
	Project Approach Road and Bridge				
		Araniko Highway (H03): 23.7Km from			
	Main Road	Singhadurbar, Kathmandu to Banepa			
	Internal Access Road	Banepa-Khopasi Road (F029): 5.1Km from			
24.		Banepa to Project Area			
24.		Total Distance: 28.8Km			
	Punyamata Khola Bridge				
	Туре	Box Culvert			
	Length of Bridge	14.3m			
	Breadth of Bridge	9.5m			

S.N.	Compo	nent Description	Features			
		Footpath Width	1.0m			
		Kerb Height	0.3m			
		Railing Height	1.0m			
		Carriage Width	7.5m			
	Project Area			0.70.00.00.00.00.00.00.00.00.00.00.00.00		
25	Total Area		822-13-1-0 Ropani = 418,599.61 sq.m = 41.86ha			
25.	Plinth Area	CMDAD	31914 sq.			
		of NPA Project	109,215 s	sq.m		
	Open Space		92.38%	and we to such Duildings		
				oad up to each Buildings cy Ladder		
			_	m System (NBC)		
				ting System with 200,000 liters static		
				rage fire tanks		
26.	Emergency P	reparedness		on Arrangement		
			Open Spa	-		
				n Path (Differently Able People Friendly)		
				cy Lighting in the Corridors of Buildings		
			Medical Facility with Specialized Medical Teams			
27.	Water Requir	ement				
	Source			Municipal Supply and Deep Boring		
	Construction I	Phase		40000 kl (36530 liters per day)		
		Quantity		635,000 liters per day		
	Operation	Underground Water Tar	nk (Total)	635,000 liters		
	Phase	Static Fire Water Tanks		200,000 liters		
	Thuse	Overhead Tanks		202,000 liters		
•••		Drinking Water Treatme	ent (RO)	20,000 liters		
28.	Energy Suppl	<u>y</u>	NI-411	C.: 1 C NEA		
	Source Floration 1 Seek	-1-1:		Grid Connection supply from NEA		
	Electrical Subs		2*1500kV	A Diesel Generator Sets		
29.	Standby Suppl Solar Water I	•		ing 20lt/person 387000 liters per day		
29.	Waste Genera	Č	Consider	ing 2017 person 387000 mers per day		
-		auon				
	Solid Waste		Total esti	mated generation: 59.5Kg per day		
	Construction I	Phase	Biodegradable Composition (51%): 30.4Kg per			
			day			
			Total estimated generation: 424.35Kg per day			
	Operation Pha	00	Biodegradable Composition (51%): 216.42Kg per			
30.	Operation i na	SC	day			
30.	Sewerage Trea	ntment Facility				
	Construction I			4200 liter (484 labors*50liters water/day)		
				er sewerage per day for 484 labors will		
			be managed in soak pit			
			900/ of 4	40000 14		
				40000 liter iter sewerage per day will be treated		
	Operation Pha	se		(MBBR Technology) for 3450 persons		
				nus roxburghii, Schima wallichii, Alnus		
31.		Major Species found within and		nepalensis, Myrica esculenta, Pyrus pashia		
31.	Peripheral Area of Project Site					
31.	Peripheral A					
	Peripheral Area of Project Site		Fauna: Prionailurus bengalensis, Sus scrofa, Canis aureus, Muntiacus vaginalis Aves: Alexandrinus krameri, Passer domesticus			

S.N.	<b>Component Description</b>	Features			
		Corvus splendens, Acridotheres tristis			
	Expected Occupancy (3450 Persons in Total in operation phase)	3225 Persons (Residential Quarters and Trainee			
32.		Barracks)			
		125 Persons (Guests/Staffs/Visitors)			
33.	Estimated Budget of Project	NRs. 8791.38 million			
34.	<b>Estimated Project Construction</b>	2 110070			
	Period	3 years			

Source: Detailed Project Report of Construction of National Police Academy at Kavrepalanchowk, Nepal, 2019

 Table 2.2-2: Description of Project Components

S.N.	Component Descriptions	Nos	Plinth Area (sq.m)	Total Built-up Area (sq.m)	Floor
A	Non-Residential Buildings (Office/School/College)				
1	Administration Block	1	1550	4556	G+2
2	Tutorial Block	1	3190	7700	G+3
3	Library + Mock up area	1	1389	2725	G+1
4	Cafeteria	2	568	1136	G
5	Auditorium 1 (572 Capacity)	1	1160	1562	G+1
6	Auditorium 2 (352 Capacity)	1	970	970	G
7	Conference Hall 1 (240 Capacity)	1	556	556	G
8	Conference Hall 2 (480 Capacity)	1	1041	1041	G
9	Indoor Sports Complex/Other Facilities	1	2550	2550	G
10	Miscellaneous (Shopping Complex)/ Bank/ ATM/ Post Office	1	443	443	G
11	Indoor Firing Block (50m)	1	200	200	G
12	Swimming Pool, Gymnasium and Health Club	1	1267	1267	G
В	Non-Residential Buildings (Hospital)				
1	Medical Facility	1	905	2449	G+1
С	Non-Residential Buildings (Guard Room/Reception)				
1	Guard Room/ Control Room/ Reception	1	127.5	255	G
D	Non-Residential Buildings (SERI/ICE Block & Stores)				
1	Support Service Block	1	443	443	G
2	Store Block	1	585	585	G
3	Weapon Store	1	685	1225	G+1
4	Ammunition Store	1	41	41	G
5	Pump Room & Water storage tanks	1	200	300	B+G
6	Electric Substation	1	600	600	G
7	Motor Garage	1	745	745	G
8	Parade Ground/ 200m Athletic Track/ Viewer's Gallery	1	625	625	G
E	Non-Residential Buildings (Kennel & Stable)				
1	Dog Kennel	1	342	342	G
2	Horse Stable	1	860	860	G
F	Residential Buildings				

S.N.	<b>Component Descriptions</b>	Nos	Plinth Area (sq.m)	Total Built-up Area (sq.m)	Floor
1	Senior Officer's Residence- Executive Director (Type VI)	1	165	281	G+1
2	Senior Officer's Residence - Director (Type V)	1	182.5	730	G+3
3	Senior Officer's Residence - Joint Director & Superintendent (Type IV)	2	288	2304	G+3
4	Inspector's/ JCO's/ HC Quarters - 4 Blocks (Type III)	4	628	20096	G+7
5	Constable's/Follower's Quarters - 5 blocks (Type II)	5	578	23120	G+7
6	Junior Officer's Guest House	1	542	1084	G
7	Senior Officer's Guest House	1	784	1568	G+1
8	Non-Ranked Officers Guest House	1	542	542	G
G	Residential Buildings (Barracks/Hospitals)				
1	Trainee Officer's Barracks with Dining	1	1782	5355	G+3
2	Trainee JCO's Barracks with Dining	2	1782	10710	G+3
3	Basic Trainee Barracks with Dining	1	1284	3504	G+3
4	Trainee Other Rank's Barracks with Dining	1	1284	3504	G+3
5	Female Barracks with Dining	1	1030	3241	G+3
	Total		31914	109215	

Source: Detailed Project Report of Construction of National Police Academy at Kavrepalanchowk, Nepal,

#### 2.2.3 Nature of the Project

The proposed Project aims to construct modern and well-equipped training center of Nepal police in Panauti, Kavrepalanchowk within a built-up area of 109215sq.m out of the total area of 41.86ha (4,18,603.17 sq.m). In total, 58 buildings will be constructed to fulfill the requirement of NPA.

The Project will be constructed based on Zonal Model where Residential Buildings, Academic Buildings, Administrative Buildings, Security Buildings, Sports (Indoor and Outdoor) Areas and so on are designed to be constructed in clustered form. Of the total area (41.86ha/418603.15 sq.m), the plinth area of the buildings is estimated to be 31914 sq.m out of the 109215 sq.m built-up area. This means about 7.62% will be occupied by structures and rest of the area (92.38%) will be left as open space.

#### **2.2.4** Information About the Project Components

The establishment of a new, modern and well-equipped police academy at Panauti, Kavrepalanchowk for strengthening and assisting the Nepal Police, NPA has proposed the following facilities within its scope:

- 1. Administration Block
- 2. Tutorial Block
- 3. Library + Mock up area
- 4. Cafeteria
- 5. Support Service Block

- 6. Dog Kennel
- 7. Horse Stable
- 8. Auditorium 1 (572 Capacity)
- 9. Auditorium 2 (352 Capacity)
- 10. Conference Hall 1 (240 Capacity)
- 11. Conference Hall 2 (480 Capacity)
- 12. Indoor Sports Complex/Other Facilities
- 13. Store Block
- 14. Weapon Store
- 15. Medical Facility
- 16. Trainee Officer's Barracks with Dining
- 17. Trainee JCO's Barracks with Dining
- 18. Trainee Other Rank's Barracks with Dining
- 19. Basic Trainee Barracks with Dining
- 20. Female Barracks with Dining
- 21. Miscellaneous (Shopping Complex)/ Bank/ ATM/ Post Office
- 22. Parade Ground/ 200m Athletic Track/ Viewer's Gallery
- 23. 200m Fire Range
- 24. Motor Garage
- 25. Guard Room/ Control Room/ Reception
- 26. Indoor Firing Block (50m)
- 27. Swimming Pool, Gymnasium and Health Club
- 28. Senior Officer's Guest House
- 29. Junior Officer's Guest House
- 30. Non-Ranked Officers Guest House
- 31. Senior Officer's Residence- Executive Director (Type VI)
- 32. Senior Officer's Residence Director (Type V)
- 33. Senior Officer's Residence Joint Director & Superintendent (Type IV)
- 34. Inspector's/ JCO's/ HC Quarters 4 Blocks (Type III)
- 35. Constable's/Follower's Quarters 5 blocks (Type II)
- 36. Obstacle/ Outdoor Training Ground
- 37. Outdoor Sports complex
- 38. Pump Room & Water storage tanks
- 39. Sewage Treatment Plant (STP)
- 40. Electric Substation
- 41. Visitors Parking
- 42. Play Ground for Staff and Family
- 43. Helipad
- 44. Additional Ground for Training
- 45. Ammunition Store

Other Facilities (Quarter Guard, Parade Ground, P.T. Ground, Firing Range, Horse Riding Training Ground and so on).

The listed Individual Building Components and Layouts<sup>1</sup> have been described as:

## 1. Residential Buildings

- a. Trainee Officer's Barracks (1 Block) & Trainee JCO's Barracks (2 blocks) with Dining: The buildings have been designed as G+3 structures accommodating 96 rooms per block (24 rooms on each floor) with attached toilets and balcony. Trainee Officer's rooms have been planned for single accommodation per room and Trainee JCO's rooms have been planned for double occupancy per room. These Barracks also accommodate recreation room, library and offices. Barracks have a separate vegetarian and non-vegetarian Dining Hall (for 75 persons each) with a separate kitchen, preparation area, store, and staff room.
- b. Trainee Other Rank's Barracks (1 Block) & Basic Trainee Barracks (1 Block) with Dining: The building has been designed as a G+3 structure accommodating 8 dormitories with total 184 beds. It has two dormitories on each floor with each dormitory housing 23 beds. These Barracks have two common toilets on each floor. They have a separate vegetarian and non-vegetarian Dining Hall (for 75 persons) with a separate kitchen, preparation area, and store and staff room.
- c. Female Barracks with dining (1 Block): The building has been designed as a G+3 structure accommodating 56 rooms (14 rooms on each floor) on double accommodation basis with attached toilets and balcony. Barrack has canteen (for 75 persons) with kitchen, preparation area, store and dining area.
- d. Senior Officer's Residence: Executive Director Type VI (1 Block): The building has been designed as a duplex residence. The ground floor accommodates a drawing room, dining area, kitchen, two bedrooms (one with attached toilet), common bath, common toilet, study, internal staircase, sit-out and garage. The First floor accommodates two bedrooms (one with attached toilet), common bath, common toilet and servant's room. The building also has an external staircase for servant's room access.
- e. Senior Officer's Residence: Director Type V (1 Block): The building has been designed as a G+3 structure accommodating 3BHK apartments on each floor. Each apartment accommodates living room, dining, kitchen, three bedrooms (one with attached toilet), common bath & toilet, box room, two balconies and servant's room (attached with a separate kitchen and toilet).
- f. Senior Officer's Residence: Joint Director & Superintendent Type IV (2 Blocks): The building has been designed as a G+3 structure having 2 nos. three-bedroom apartments on each floor. Each apartment accommodates drawing room, dining, kitchen, three bedrooms (two with attached toilet), common toilet, two balconies, utility and servant's room (with attached toilet). The building has a staircase for vertical circulation. Senior Officer Residence- Joint Director & Superintendent has two such blocks.
- g. Inspector's/ JCO's/ HC Quarter Type III (4 Blocks) and Constable's/ Follower's quarter Type II (5 Blocks): The buildings have been designed as G+7 structures accommodating 6 nos. two-bedroom apartments on each floor having a total of 48 apartments per block. Each apartment has a living room, kitchen, two bedrooms (one with attached toilet), common toilet, balcony and utility. The building has two staircases and 2 passenger lifts and 1 Goods lift in each block.
- h. Senior Officer's Guest House: The building has been designed as a G+1 structure accommodating 8 VIP Suites (4 on each floor); each suite has 1 bedroom, toilet,

<sup>&</sup>lt;sup>1</sup> Detailed Project Report for NPA Panauti Project, 2019

- kitchen, lounge and a balcony. The upper floor also has 3 Guest rooms with attached dresser and toilet. The building also accommodates a common lounge (for 32 people), care taker room and a store. The Guest House has a Dining room (for 40 people) with kitchen, wash area, pantry and toilets (male and female).
- i. Junior Officer's Guest House: The building has been designed as a double storey structure accommodating 5 bedrooms with attached toilet and balcony on ground floor. The first floor has 8 bedrooms with attached toilet and balcony. It also has a lounge, care taker room and store/s. The Guest House has a Dining room with kitchen, wash area, pantry and bar.
- j. Non-Ranked Officer's Guest House: The building has been designed as a single storey structure accommodating 5 bedrooms with attached toilets and balconies. It also has a lounge, care taker room and store/s. The Guest House has a Dining room with kitchen, wash area, pantry and bar.

## 2. Non- Residential Buildings

- a. Administration Block: The building has been designed as a G+2 structure having all office areas equipped with conference rooms, reception, waiting areas, pantries & stores. The second floor accommodates six large offices for Joint Directors with a separate meeting room, waiting area, pantry, PA room and toilets.
- b. Tutorial Block: The building has been designed as a G+3 structure housing 10 classrooms, simulation rooms, jungle warfare activity area, cybercrime lab and other required training facilities and common areas.
- c. Library + Mock up area: The building has been designed as a G+1 structure accommodating library hall, classrooms, toilets, reception, staircases, halls, etc.
- d. Cafeteria: This is a single-storey structure accommodating Main dining area, VIP dining areas, separate kitchens for vegetarian and non-vegetarian, offices, stores, wash areas, pantries, toilets, etc.
- e. Dog Kennel: This is a single storey building accommodating 20 kennels for dogs. The building has galvalume roofing with steel truss and openings protected with welded wire mesh.
- f. Horse Stable: The building is a single storey structure accommodating 20 Horse stables. The building is divided into 2 blocks i.e., Block A & Block B. Block A houses the stables, food mixing room, tack room and the feed room whereas Block B has the office area, workshop, veterinary offices, stores, toilets etc.
- g. Auditorium 1 (572 Capacity): The building is designed as G+1 structure with a 462-seating capacity on ground floor and 110 seating capacity on the first floor. It also has a large stage, separate green rooms with attached toilets.
- h. Auditorium 2 (352 Capacity): This is a single storey double height structure with a seating capacity of 352 nos. It also has separate green rooms with attached toilets.
- i. Conference Hall 1 (240 Capacity): This is a standalone single storey building with seating capacity of 240 nos.
- j. Conference Hall 2 (480 Capacity): This is a standalone single storey building with seating capacity of 480 nos.
- k. Indoor Sports Complex/Other Facilities: The building is a large span single storey structure with high ceiling accommodating indoor sports courts like basketball court, volleyball court, badminton courts, table tennis court and squash court. All the courts have been provided with viewing galleries. The building also accommodates separate toilets, changing rooms for male and female, dispensary, stores & offices.
- 1. Store Block: This building is a single storey structure accommodating shops, offices and store rooms of different types.

- m. Weapon Store: The building is a G+1 structure accommodating weapon store rooms, armor shop, guard rooms, offices and a workshop.
- n. Medical Facility: The building is designed as G+1 structure having 4 bedded & 8 bedded wards with attached common toilets. The building also has several healthcare & treatment rooms, labs, cafeteria, dispensary etc.
- o. Miscellaneous (Shopping Complex)/ Bank/ ATM/ Post Office: The building has shops, bank, post office, photo gallery, toilets catering to the daily needs of the residents.
- p. Parade Ground/ 200m Athletic Track/ Viewer's Gallery: It is a single storey structure accommodating Spectators gallery area above with toilets below it. The parade ground also having a 200m Athletic track located in the center.
- q. Motor Garage: The building houses different sized garages, air check point, stores, petrol booth, office, toilets, etc.
- r. Guard Room/ Control Room/ Reception: This building houses a reception, waiting area, visitor's toilet and a 6 bedded guard room with attached common toilet.
- s. Indoor Firing Block (50m): The building has an enclosed 50m firing range with 10 firing stations, viewing gallery and a lobby.
- t. Swimming Pool, Gymnasium, and Health Club: This single storey building has a swimming pool of 50 x 25m size with changing rooms (depth varying from 1.05m to 5m), Gymnasium, Yoga room and a Spa with Jacuzzi, sauna, steam bath, etc.
- u. Ammunition Store: This building consists of two ammunition rooms surrounded by earthen embankment on three sides.

#### 3. Service Blocks

- a. Support Service Block: The building is designed as a single storey complex accommodating different maintenance sections like plumbing, salon, laundry, communication, clinging, etc.
- b. Pump Room and Water Storage Tanks: The underground water tanks have been proposed for a total capacity of 635,000 liters of which 200,000 liters has been provisioned as a static fire water tank with an underground pump room. An overhead tank of 202,000 liters capacity has also been proposed for the campus.
- c. Electric Substation: This single Storey structure shall house the HT panels, Transformers, LT panels and Diesel Generators.

## 4. Open Areas

- a. 200m Firing Range: The 200m firing range has two firing points located at a distance of 100m each. The range is located at the periphery of the campus away from all residential and non-residential areas.
- b. Obstacle/ Outdoor Training ground: It has different kinds of obstacles like tarzan hand walk, step up, ranger crawl, tiger leap, spider web, parallel rope bridge, etc.

# 5. Horticulture & Landscaping:

The academy shall have plantation and landscaping with locally available evergreen trees, shrubs and flowering plants. This has been proposed to provide a pleasing ambience and make the Academy environment friendly. All plantation of the garden area i.e., shrubs, hedges, potted plants, flowers beds, creepers etc. and other features shall be done in harmony with the local aesthetics of Nepal.

Before undergoing into the construction phase, Proponent shall have to submit application with Project design and take approval on the design from Panauti Municipality.

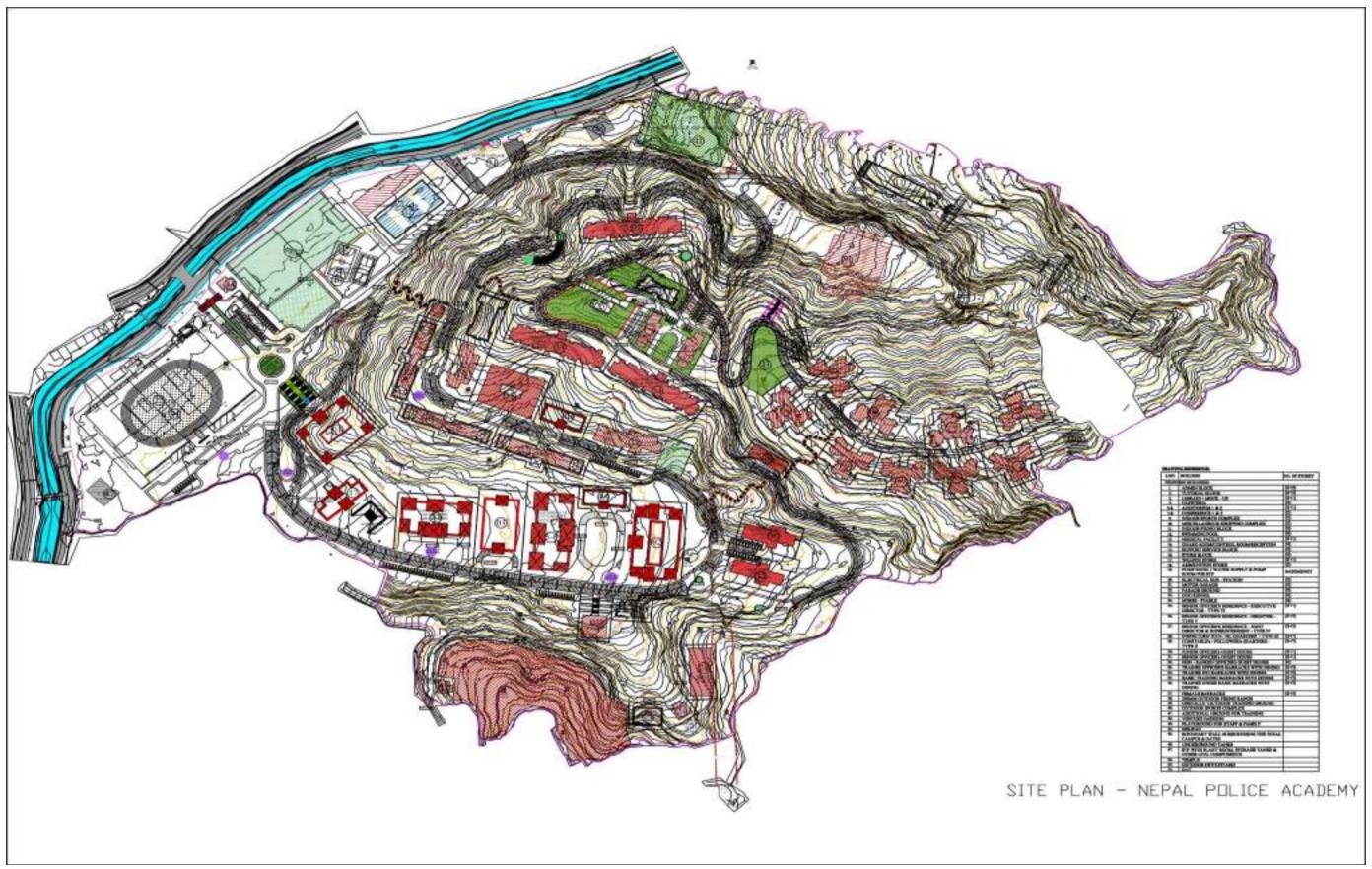


Figure 2.2-4: Project Site Plan Map

Source: Detailed Project Report of Construction of National Police Academy at Kavrepalanchowk, Nepal, 2019

#### 2.2.5 Project Related Key Construction Activities

There are basically three phases proposed for this Project namely as Preconstruction, Construction and Operation and Maintenance Phases. All the Project activities are categorized on the basis of these phases.

#### A. Pre-Construction Phase

Pre-engineering study, study on geological and geo-technical research, site survey, seismic study, environmental study, etc. will be carried during this phase. Other activities related to this phase will be as follows:

- Demarcation and Fencing of Project site boundary.
- Preparation and Approval of EIA study
- Contract opening and award.
- Identification of supplies of water
- All legal clearance (including tree cutting and getting ownership of land) from concerned authority.

#### **B.** Construction Phase

The construction phase consists of the main works of Project implementation. The major components which are listed in **2.2.4** will be constructed at this stage.

## C. Operation and Maintenance Phase

At this stage, the Project will be operated to fulfill the objective of NPA as mentioned in Chapter 2.1. Moreover, regular cleaning and maintenance of drainage, water and waste water treatment plant, boundary walls, internal maintenance, etc. will be carried out in this phase.

## 2.3 Objectives of NPA Project

At present, the main objective of the Project is to upgrade and modernize the existing training programs in a modern and well-equipped infrastructures and environment for the sake of institutional strengthening. This will help NPA to expand its various specialized training courses among the Police personnel within the country. The main objectives of NPA are:

- to conduct foundation training courses targeting the senior police officers and technical police officers;
- to develop qualified police instructors necessary for the police training environment and provide consultancy services;
- to conduct specialized training courses for senior police officers in the sphere of crime investigation, operations, security, management and administration, police outreach, etc.;
- to set and maintain training benchmark for police training institutions across the country;
- to forge substantive relationships with academia including universities, other training and research institutions;
- to assist Police Headquarters in the formulation of human resource development policies including training policies; and

• to conduct research activities in matters pertaining to policing and security.

# 2.4 Project Requirements

## 2.4.1 Construction Materials

The detailed estimates of component wise material quantities are not available in DPR, however, the construction material have been described on the basis of weightage value presented in the following table as:

Table 2.4-1: Weightage of Construction Material Quantity

S.N.	Description	Unit	Weightage			
1	Brick (Ash Fly)	1000no	8.00			
2	Cement (OPC)	Quintal	14.50			
3	TMT Steel	Quintal	19.50			
4	Aggregates (20mm)	cum	6.50			
5	Sand (Coarse Sand)	cum	3.00			
6	Flooring Items	sq.m	5.00			
7	Paints	liter	3.00			
8	Doors/Window/Frame (uPVC-Al-Steel)	sq.m	7.00			
9	Pipes	meter	2.50			
10	Lamps and Fans	each	4.50			
11	Electrical Machinery	each	2.50			
12	Wires and Cables	100metre	4.00			
13	Labor (Skilled-50% & Unskilled-50%)	each	20.00			
	Total					

Source: Detailed Project Report of Construction of National Police Academy at Kavrepalanchowk, Nepal, 2019

The required construction material during the construction phase will be procured from the nearest legal markets: Sanga and Banepa. The supply of construction material for these depots will be from environmentally approved sites located at Melamchi, Bhakunde Besi and Panauti (Roshi Khola Quarry Sites). The construction material will be stockpiled within the Project site boundary only. Also, the supply chain and management of construction materials will be maintained on such a way that the material will not be procured at once and or over stored.

#### 2.4.2 Use of Energy during Construction

Management of energy source is one of the main components for this Project to be accomplished. The electricity supplied by the Nepal Electricity Authority (NEA will be the main source of energy for lighting. During the time of construction, 2\*1500kVA electrical substation shall be placed in the project site by the NEA through national grid connection. At the time of power load shedding, low noise generation Diesel Generator (DG) of capacity 2\*750kVA will be used. Apart from electricity, LPG will be supplied for the preparation of food for workforce and staffs. Meanwhile, the petroleum products like petrol, diesel, kerosene, LPG, bitumen will be procured from Nepal Oil Corporation.

#### 2.4.3 Construction Camp and Material Stockpiling Site

Construction materials like cement, aggregates, sand, steel bar, stone/boulder, pipes, generator, acid, transformer, lubricants and heavy machinery and equipment like excavators, bulldozers, loaders, tippers, trucks, tractors, screen plants, water tankers, vibrators, rollers, concrete mixers will be located at the optimal ease locations with respect to be approachable.

## 2.4.4 Spoil Management Sites

During the construction phase, it will go through both excavation and filling of spoils. From a preliminary estimation in DPR, nearly 67,180.5cum spoil will be generated from the foundation work. For this, the spoil will be used in filling at outdoor play ground, parking areas, backfilling of retaining walls, levelling of ground near entrance area of NPA and internal access road construction work. Similarly, the construction waste like steel bar pieces, broken bricks, and construction materials will be managed around the construction site and/or sold to nearest community or will be used in other purposes.



Figure 2.4-1: Possible Spoil Management Location, Camp, Crusher Plant and Site Office Sites 2.4.5 Human Resource Requirement

The detailed estimates of human resources for this Project are not available in DPR, however based on the construction of building Project of similar nature, about 530000 (484 workforce per day) workforce or 242 (50%) each skilled and unskilled workforce will be required on a daily basis during the time of 3 years construction period. The possibility of deficit of local workforce might exist on a daily basis as it uses huge mass of labor force during construction phase. On such, contractor might recruit workforce from the outer range also.

## 2.4.6 Land Requirement

For the proposed Project of NPA, a total of 41.86 hectares (ha) land is allocated, out of which 10.92ha land will be built up area used for Project related infrastructure and 30.94ha land will be left for open. The detail category of the land is tabulated below:

Table 2.4-2: Land Types and Area in Project Footprint Area

S.N.	Land Ownership	Area of Land (ha)			
1.	Forest Area	6.7			
	Devisthan (Kha) Community Forest	3.6			
	National Forest	3.1			
2.	NPA Owned Land	35.16			
	Total 41.86				

Source: Documents of NPA Project

Almost all the building structures will be constructed within the area of land owned by NPA. The outdoor facilities like parade ground, firing range, horse riding will be constructed with minimal loss of tree species from the forests. The detail of components, occupying area and trees to be cleared from the forest area during the Project construction is incorporated in **APPENDIX 4** and **APPENDIX 3**. GoN and Devisthan (Kha) CF has agreed for the use of forest land plot from NPA in 2052/04/17 and 2076/05/03 (**APPENDIX 5**).

#### 2.4.7 Crusher Plant Sites

Crusher plants will be established in proposed locations. There is availability of the land for the placement of crusher plant. Two possible locations are identified as in given figure **Figure 2.4-1**. The plant will be used only for the Project associated activities.

#### 2.4.8 Major Construction Equipment

Most of the major construction equipment used for the construction for building is available locally within the country. The reliability of such equipment in local market; however, is unknown, and the possibility of importing will also be considered during the basic construction phase. Heavy machinery and equipment, like excavators, bull dozers, giant breaker, dump truck, truck crane, loaders, tippers, tractors, water tankers, vibrators, rollers, and concrete mixers, and workers will be used for the proposed Project construction work.

#### 2.4.9 Project Implementation Schedule

After completion of pre-implementation works such as demarcation, vegetation clearance, temporary fencing etc., mobilization of contractors will be done. Construction of buildings, internal access roads, entrance bridge are planned to start on 2023 and will be completed on 2026 (construction period 3 years and 1 year defect liability period). The project implementation schedule is presented in the following table:

**Table 2.4-3:** Construction Schedule of the Project

Source: DPR of NPA Project, 2019

## 2.4.10 Resources Required for the Implementation of Proposal

Cost estimates for the construction of the NPA are based on an evaluation of the unit rates and quantities obtained from the designs, drawing and inventory. Costing has been estimated in the format using district rates and Norms (National Building Code, 2020) approved by Department of Urban Development and Building Construction (DUDBC). The total project cost for construction of Project has been estimated NRs. 8791.38 million.

## 2.4.11 Purpose of Proposal

The main purpose of the proposal is to upgrade and modernize the existing training programs in a modern and well-equipped infrastructures and environment for the sake of institutional strengthening. This will help NPA to expand its various specialized training courses among the Police personnel within the country.

# 2.5 Project Associated/Ancillary Facilities

## 2.5.1 Waste Generation and Management Options

In general, the waste will be of two categories:

- 1. Organic Waste (bio-degradable)
- 2. Inorganic Waste (non-biodegradable)

The NPA is expected to generate 59.5Kg/day (484\*123.62 g/capita/day² =59.5Kg/day) in total and/or 30.4Kg organic biodegradable waste on a daily basis generation during the construction phase and will be managed within the Project boundary. During operation phase, NPA is expected to generate 424.35Kg/day (for 3450 individuals) of which 216.42Kg will be of biodegradable waste in full occupancy. In both phases, biodegradable waste shall be managed within the NPA premises and used for horticulture and landscaping.

The wastes generated during construction within the Project area are cement bags, iron bars, and other leftover construction materials, and wastes generated in the labor camp. Biodegradable wastes generated from labor camp may give foul smell, and attract rodents. It will cause adverse impact, if not properly managed. The generated waste in the form as organic and inorganic wastes will be of both hazardous and non-hazardous types.

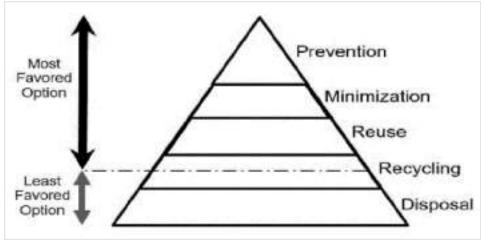


Figure 2.5-1: Waste Minimization Pyramid

<sup>&</sup>lt;sup>2</sup> ADB, 2013: Solid Waste Management, and Composition Practices of Municipalities in 2013 in Nepal

The basic Solid Waste Management Regulation 2070 and its principles will be duly applied for waste management in the following ways:

- Source segregation of organic, and inorganic wastes in different storage areas or facilities in the designated location.
- The biodegradable waste generated from the campsite shall be managed through constructing a ground pit, and covered by the sufficient thick layer of soil on daily basis.
- Reusable wastes, like debris, broken brick pieces, sand, stone, waste cement, and sand, mix will be used as refills for making ground leveling.
- The packing materials used for casing components should be recyclable, and nonhazardous.
- The Project Construction Contractor (PCC) shall ensure proper management of ground drainage from camps as a preventive measure against breeding places of mosquitoes, and other pests.
- Recyclable wastes, like left out/non-usable reinforcement bars and packing materials, shall be sent or sold to scrap vendors.
- Chemical waste generated from garages shall be collected in leakage proof, corrosion free, and specially designed container and sealed carefully.
- Effective coordination shall be done with local level government for proper waste management during construction period.

## 2.5.2 Water Storage and Supply System

The detailed estimates of water requirement during the construction period are not available in DPR; however, the supply of water will be fulfilled from municipal water supply and water tankers from legally operating local authorities in the initial phase of construction phase. From the preliminary estimation, 40000kl (36530 liters per day) water will be required during the construction phase. Of the total per day requirement, 24200liter water will be required for labor (maintaining hygiene and preparing food at 50liter/day) and 12330 liter will be used for the construction work. To overcome deficit after supply from municipal system, installation and operation of deep boring will also undergoes at early stage of construction phase.

In case for the operation phase, the underground water tanks having a total capacity of 635,000 liters of which 200,000 liters will be provisioned as a static fire water tank with an underground pump room. An overhead tank of 202,000 liters capacity has also been proposed for the campus.

#### **Borewell Drilling Works Details for Ground Water Extraction**

Nature of Work: Borewell drilling works at National Police Academy project, Panauti,

Kavre, Nepal

Size: 8"\*6" diameter \*100m depth.

**Drilling Method:** Drilling by DTH hammering method.

Pipes and Sockets to be Used: 200 mm dia and 150 mm dia ERW MS plain pipe with 4.5 to 4.8

mm thickness. Make: Jagadamba

Screen cutting (making hole) on plain pipes

Supply of 150 mm dia and 200 mm dia casing shoe,

Submersible Pump: 75 HP capacity having water discharge 2-4 ltr/sec. head 30-120 m.

discharge pipe 50 mm dia 75m, 4 sqm cable 100 m panel board complete

set. Make of Submersible pump: KSB.

**Station:** Two

#### 2.5.3 Waste Water Management

National Police Academy will develop the waste water treatment plant to treat waste water. For the waste water treatment, NPA will install the Moving Bed Biofilm Reactor

(MBBR) waste treatment technology. During the construction and operation phase, the generation of liquid waste is estimated as:

**Sewerage generation during the Construction Phase:** 

80% of 24200 liter (484 labors\*50liters water/day)

19360-liter sewerage per day
for 484 labors will be
managed in soak pit

350000-liter sewerage per day
will be treated from STP for
3450 persons.<sup>3</sup>

**Moving Bed Biofilm Reactor (MBBR):** Moving bed biofilm reactor (MBBR) is a type of wastewater treatment process. The MBBR system consists of an aeration tank (similar to an activated sludge tank) with special plastic carriers that provide a surface where a biofilm can grow. The carriers are made of a material with a density close to the density of water (1 g/cm<sup>3</sup>). An example is high-density polyethylene (HDPE) which has a density close to 0.95 g/cm<sup>3</sup>]<sup>4</sup>. The carriers will be mixed in the tank by the aeration system and thus will have good contact between the substrate in the influent wastewater and the biomass on the carriers.

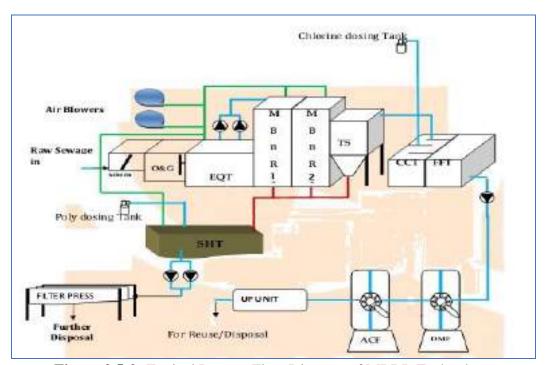


Figure 2.5-2: Typical Process Flow Diagram of MBBR Technology

MBBR systems don't need a recycling of the sludge, which is the case with activated sludge systems. Some other advantages compared to activated sludge systems are:

- Higher effective Sludge Retention Time (SRT) which is favorable for nitrification
- Responds to load fluctuations without operator intervention

<sup>&</sup>lt;sup>3</sup> Basis for calculation of STP is referenced from DPR of NPA Project, 2019.

<sup>&</sup>lt;sup>4</sup> https://en.wikipedia.org/wiki/Moving\_bed\_biofilm\_reactor, Retrieved on 09/03/2022.

- Lower sludge production
- Less area required
- Resilient to toxic shock
- Process performance independent of secondary clarifier (due to the fact that there is no sludge return line)

After the sludge or the liquid waste generate in NPA are transported, screened and collected goes to treatment. After the sludge gets treated at MBBR system, it goes to recharge pit.

## 2.5.4 Rain Water Harvesting and Recharge Pits

The use of gutter in all the blocks of the building will in practice and recharge pits will be placed in suitable area within the NPA area. The proponent will install rain water harvesting system in the NPA from a total area of 338,196.05 sq.m Rain water collection system will be established within NPA by the proponent to recharge the ground water table through separate recharge pit. The detailed baseline information and analysis is presented in [5.1 (8)].

# CHAPTER 3: PROCEDURE ADOPTED WHILE PREPARING THE REPORT

The process follows the EPA, 2019 and EPR, 2020 as a legal binding document for GoN, the concerns expressed during scoping study, based on approved ToR and Scoping, baseline study, consultation with local people/stakeholders and officials. Soon after the approval of ToR dated on 2079-08-13 (29 November 2022) from Ministry of Forests and Environment (MoFE) a multi-disciplinary team comprising Environmental Management Specialist, SW Management Expert, Sociologist, Geologist and Forest Expert were involved in EIA study. During the field visits, baseline information on physical, biological, and social conditions of the project including direct and indirect impacts were collected using checklists. The various approaches and methodologies applied during the field exploration have been summarized below:

- Desk study and literature review of relevant documents (published/unpublished),
- Delineation of Project area
- Study and map interpretation of Project area
- Preparation of checklist/questionnaire
- Field study in order to collect baseline information of Project area
- Public consultation meetings, Focus Group Discussions and Key Informant Interview
- Approved notice pasting provided from proponent
- 7 days public notice publication in daily national newspaper
- Public hearing
- 7 days public notice publication in daily national newspaper
- Impact identification and propose appropriate mitigation measures,
- Draft EIA study report preparation
- Submission to MoFE through proponent and MoHA
- 7 days Public Disclosure of EIA report in MoFE website along with hard copy availability at local level.
- Comment receives, incorporation, Submission to MoFE and Presentation
- Final EIA report preparation incorporating all the comment received from MoFE and submission to MoFE for approval
- Approval of EIA study report

#### 3.1 Literature Review

Available primary and secondary literature in the form of reports and maps; topographic maps, land use maps, aerial photographs, cadastral survey maps etc. were collected and reviewed. Detailed Project Report (DPR), Soil Test report, site plan, organogram of NPA, cabinet decisions, GoN policies and laws along with following listed documents/information sources were reviewed;

- Detailed Project Report of NPA,
- Memorandum of Understanding (MoU) between GoN and GoI document,
- GoN' cabinet decisions on NPA,
- Land use and ownership certificates,
- Census Statistics of Nepal Published by Central Bureau of Statistics, 2021 for Kavrepalanchowk District and Panauti Municipality's Profiles,
- Review of Relevant Government's Policies, Laws, Guidelines and Manuals.

- Publications from Ministry of Forest and Environment (MoFE), Ministry of Home Affairs (MoHA), Nepal Police (NP) and National Police Academy official webportal, Department of Hydrology and Meteorology (DHM), Department of Mines and Geology (DMG), Department of Survey (DoS), and
- Similar previous environmental study reports.

During the study period, published and unpublished literatures of the Project area pertaining to biological, social, chemical, physical, and cultural environments were collected from various sources and reviewed to get information on the coverage of the studies and fulfill the data gaps.

# 3.2 Review of Relevant Government's Policies, Laws, Regulations and Guidelines

The relevant plan, policy, laws and guidelines were reviewed carefully and incorporated requirements for the implementation of the project including Environmental Protection Act, 2019 and its Rules, 2020 in Chapter 4 and requirement of EIA in **APPENDIX 10**.

# 3.3 Preparation of Scoping Document (SD) and Terms of Reference (ToR)

The Scoping for the EIA was undertaken in accordance with the EPA/EPR-2019/2020 to determine the scope of the EIA, inform stakeholders about the proposed Project, receive their comments on relevant environmental issues, and identify priority issues for environmental assessment. A seven (7) days public notice was published in national daily newspaper during scoping for written feedback and suggestions. Formal and informal deliberations with local people and other concerned stakeholders was conducted. The issues and possible impacts identified in the Scoping were categorically tabulated for EIA Study. Then it was also incorporated in the Terms of Reference (ToR) for defining methodology. The ToR was prepared by including these potential issues, as per the Schedule 3, Rule 3, Forest Area Ka (5) and Built-Up Area Ja (2 & 6) of EPR, 2020. The main EIA study was focused on the detailed analysis of the environmental issues identified in the approved SD and ToR. The SD and ToR was approved by MoFE, on dated 2079-08-13 (29 November 2022) and approved ToR is given in **APPENDIX 2**.

## 3.4 Project Area Delineation

First, a topographical map and a Google map were used to define the project impact area's geographic perimeter. The area was divided into three different zones depending on the type and size of the predicted impact area as:

- a) **Direct Impact Area:** The Direct Impact Area (DIA) refers to the permanent and temporary land use for the Project construction activities. The DIA is also considered the Project Footprint Area (PFA) where the Project related infrastructure lies.
- **b) Indirect Impact Area:** Immediate adjacent area of 500 m beyond the PFA is considered as the Indirect Impact Area (IIA).
- **c) Zone of Influence:** The proposed Project is planned in ward No. 6 of Panauti Municipality. The adjoining wards to ward No. 6 of Panauti Municipality are wards 4 & 5. Hence, all these wards (4, 5 & 6) are considered Zone of Influence (ZoI) including ward no. 7 (requested from Stakeholders during Public Hearing).

**Table 3.4-1:** Municipality and Wards included in the Project Affected Area

	District / Municipality	Affected Ward/ Municipality
DIA		Project Footprint Area (Project Boundary)
IIA	Kavrepalanchowk,	500m beyond DIA area
ZoI	Panauti Municipality	Panauti Municipality- 4, 5, & 6 (W.N. 7 is requested in
ZOI		public hearing program)

## 3.5 Desk Study

# 3.5.1 Study, Map Preparation and Interpretation

The available maps, such as topo maps and geographic maps with geographic information systems (GIS), as well as the engineering drawings created in the comprehensive design report of the project region, were carefully examined in order to analyze the potential environmental impact. Moreover, information about the physical environment was gathered through site visits, photography, and field surveys. Using the Timeline tool, data on local natural disasters including erosion and flooding were gathered through participatory community interaction.

## 3.5.2 Preparation of Checklists/Questionnaires

Checklists for gathering data on the physical characteristics, biological resources, and socioeconomic and cultural aspects (APPENDIX 11) were created for the detailed field investigation. The study's approved Terms of Reference, including the issues illustrated in Schedule 12 of the EPR, 2020, and Schedule 9 of Forest Regulation, 2022, paid particular attention to accommodating concerns. The composition of the plants and animals, as well as their condition in the direct impact zone and its surroundings, were recorded using checklists. It also included ethnobotanical data with a focus on how plants are used, including the parts used, the manner, and the purpose of use.

# 3.6 Field Study

The multidisciplinary team of experts conducted field observations of the project site in February 2023 to gather baseline data on the Project area, including any potential environmental impacts and relevant issues/risks. The teams interacted with local stakeholders, government officials, public representatives, key informants, and local level elected representatives during the field visit. The engagement largely focused on the physical, biological, sociological, economical, and cultural aspects of the present and future environments that are likely to be impacted by project execution.

## 3.6.1 Physical Environment

By defining the project impact area, a thorough physical environment assessment was conducted to gather baseline data on the physical aspect. The study team visited the Project site to collect topographical data through walkover survey and observation. Physical features such as topography, air quality and noise level, erosion, land stability & land use pattern were observed and recorded. While, climate & meteorological data on rainfall information were collected and analyzed using Department of Hydrology and Meteorology (DHM) database. Field observation and walkthrough survey method were adopted to verify information on drainage system, land stability, hydrology present within the study of area, water sources, solid waste management practices, and ground water use practices. Samples on water quality of nearby Punyamata river and Kuwa (small shallow aquifer or Dhunge Dhara) within the boundary of Project area were collected for laboratory analysis. Noise level within the proposed Project area was measured with

Digital Sound Level Meter<sup>5</sup>. Likewise, air quality of the Project site was analyzed from High Volume Sampler instrument are attached in **APPENDIX 12**.

**Table 3.6-1:** Summary of Physical-Chemical Environment and Methods Adopted for Collecting Data

Indicators	Collecting Data  Information/Data Collection Methods				
Physical Environment					
Temperature and Rainfall	Analysis of Data from Department of Hydrology and Meteorology (DHM)				
Characteristics of River/Khola	DPR of the Project, field observation and consultation, secondary published research literatures for the indication of characteristics of rivers/Khola was studied				
Air Quality	Air quality measurement using high volume sampler at the one station on 10-11 February 2023; analysis of TSP, PM <sub>2.5</sub> and PM <sub>10</sub> was done.				
Water Quality	Observation of the water sources (river/streams) within the Project area and water samples analysis was completed using scientific methods developed by American Public Health Association-APHA 23 <sup>rd</sup> Edition and National Drinking Water Quality Standard, 2062 for, Punyamata Khola (at Entrance Location): pH, TSS, DO, COD, BOD, Nitrate-N, Ammonia-N, PO <sub>4</sub> -P Kuwa (Dhunge Dhara): Temperature, pH at 21°C, Electrical Conductivity, Turbidity, Total Hardness as CaCO <sub>3</sub> , Ammonia, Nitrate, Chloride, Iron, Coliform (presence/absence)				
Sound Quality	Noise quality measurement using Sound Level Meter (SL-4023SD) at the one station on 10-11 February 2023				
Geological Study	Analysis of soil types, rock types, geological structure formation, etc. referenced from DPR of Project				
Public Property	Field observation and checklists was used for this purpose, listing of public property was completed				
Ancillary Facilities of Projects	Information in brief on different sites such as labor camp, stockpiling sites, crusher plant sites and muck/spoil management sites was collected				
Land Use	Categorization of land use data for public land, private land, forest area, agricultural land, river uplift area, barren land etc.  Measurement of area of land within the Direct Impact Area was completed				
Solid Waste Management	Consultation with public and concerned municipality for practice of waste management was completed through using Key Informant Interview, Group Discussion and validation from study team through cross check method				
Bitumen and Chemicals	As bitumen will not be used (only concreting will be done) for the construction of internal access road for which emission calculation for this purpose was not covered in the report. Instead, emission from fuel was estimated using IPCC standard.				
Sources of Construction Materials	Location was identified using KII				
Identification of Spoil Disposal Sites	Interaction meeting with Proponent and field-based survey/observation				

<sup>&</sup>lt;sup>5</sup> UNI-T UT 353 Mini Sound Meter (dB)

## 3.6.2 Biological Environment

<u>Flora:</u> The transect survey, sampling of vegetation was completed within the DIA from the study team. Transect and sampling of vegetation using 5 circular quadrates of radius of 12.5m was laid to know the species diversity of forest. Inventory of the likely loss of trees in forest due to construction activities was made through measuring diameter of tree' Diameter at Breast Height (DBH) at 1.3m height, height of individual tree from Sub-Division Forest Office, Khopasi at the time of preparation of Detailed Project Report phase. For this reason, the study team did not record the individual measurement of trees instead the calculated volume of tree species from Sub-Division Forest Office, Khopasi has been incorporated in this report (APPENDIX 13) only.

Based on the received surveyed data from Sub-Division Forest Office, the total numbers of trees with respective species wise volume to be cleared from the entire required forest area was received and tabulated in (APPENDIX 13) as per the listed norms given in following table:

**Table 3.6-2:** Categorization of Trees/Poles/Saplings

Categories of Plants	Criteria of Measurement	Reference	
Trees	>30 cm		
Poles	10-30 cm	Forest Regulation, 2022 [Related with Rule 19 (2) and	
	<10 cm and height	Rule 131 (Ka) & (Gha) and Schedule-9]	
Sapling	<1.35 m		

The analysis of forest data was done and incorporated in baseline section **APPENDIX 13** of this report as obtained from NPA for the formula mentioned in Schedule-9 of Forest Regulation, 2079 BS as:

#### **Stem Volume**

```
Ln (V) = a+ b* Ln (d) + c* Ln (h)
Or
V = Exp [a+ b* Ln (d) + c* Ln (h)]
Where,
V = Volume of Stem (Should be divided by 1000 for conversion into cum)
a, b, & c = Coefficient Values of tree species (Schedule-9 of Forest Regulation, 2079)
d = Diameter at Breast Height (1.3m)
h = Height of tree species
```

<u>Wildlife:</u> Wildlife survey was conducted through transect survey, direct observation and public consultation using the checklist to know the presence of wildlife, habitat, grazing area and wildlife corridor within the DIA of Project area. Simultaneously, consultation with key person from the ward and local level was also completed to know the occurrence of wildlife nearby the IIA of Project area also. Thus, the data obtained was analyzed using the GoN, IUCN and CITES norms and criteria for prioritizing wildlife conservation status.

Table 3.6-3: Summary of Biological Environment and Methods Adopted for Collecting Data

Indicators	Information/Data Collection Methods		
Biological Environment			
Forest types and	Field study, observation and public consultation using checklists,		
Management Perspectives	listing of forest types, public consultation		
Vacatation	Brief of vegetation species within the Project site from sampling		
Vegetation	through a circular plot for the identification of species richness,		

Indicators	Information/Data Collection Methods		
	volume calculation that can be destructed with the use of scientific methods and tools, protected species (Government of Nepal, IUCN and CITIES Protected) was clearly mentioned		
Wildlife (Aquatic animal, Mammals, Amphibians, Reptiles, Birds)	Transect survey, public consultation and consultation with Devisthan (Kha) CF, literatures review from the data of secondary sources like DoF, DFO, National Biodiversity Strategy, CBS/Environmental Statistics of Nepal, Consultation with the local people, literatures from Bird Conservation Nepal (BCN), protected species (Government of Nepal, IUCN and CITES Protected) was clearly mentioned		

#### 3.6.3 Socio-Economic and Cultural Environment

Of the total area, 6.7ha of forest area owned by GoN and 1.43ha built-up area, 0.15ha stream area and rest land of 33.58ha is owned by NPA. There are no any private households and public infrastructures within the proposed Project boundary or DIA. Information on socio-economic and cultural features of the nearby Project area (ward no. 6) like population, ethnicity, occupation status, education level, settlement pattern, religion, cultural and religious sites, sources of energy and energy consumption, social infrastructures, market centers, etc. was taken reference from CBS 2021 for Panauti Municipality was generated and described. KII was done with Mayor and Ward Chairman of Ward No. 4, 5 & 6 for gathering information on the historical, cultural and socio-economic context of peripheral and Panauti Municipality. Following, FGD with User Committee and women's group, public consultation with stakeholder from IIA area, interaction meeting with key stakeholders, observation of boundary area was simultaneously completed during the field study. Public hearing was completed and described in following subheading.

**Table 3.6-4:** Summary of Socio-Economic Environment and Methods Adopted for Collecting Data

Indicators Information/Data Collection Methods							
Socio-Economic	Socio-Economic-Cultural Environment						
Population and	Use of secondary source of information from the published source from						
Households	CBS/NPHC, 2021 and Panauti Municipality Profiles						
(HHs) details	None of the HHs lies within the CPA.						
of ZoI	Information regarding Socio-Economic-Cultural Environment						
Traditional,							
Cultural,	Panauti Municipality Profile was used for listing Traditional, Cultural,						
Historical, and	Historical, and ancient sites and its descriptions						
ancient sites							
	Stakeholder Consultation: People or institution concerned with Project						
	activities						
	Public Consultation with key stakeholders from IIA						
	Interaction Meeting with Stakeholders in early study phase within DIA						
Public issues	Focus Group Discussion: Users Committee, Women's Group						
Fublic issues	Key Informant Interview: Mayor of Panauti Municipality and Ward Chairman						
	of Ward No. 4, 5 & 6						
	Group Discussion: All Stakeholders						
	Noting all Public issues, Minutes of meeting organized, collection of						
	Deed of enquiry and Recommendation letters						

# 3.7 Consultation Meetings

Public are the key stakeholders and plays a critical role during the EIA study and implementation phase. Any forms of meeting or the processes adopted to provide opportunities for stakeholders to engage in the EIA process, provide feedback, and participate in decision-making. They help to ensure that the potential environmental and social impacts of a proposed project are thoroughly evaluated, and any necessary mitigations are identified.

Altogether 11 consultation meetings (Public Consultation-2, Interaction Meeting-2, Key Informant Interview-5, Focus Group Discussion-2) with the major stakeholders of the project area were done to obtain their opinions and suggestions. This was organized and moderated by the sociologist to identify the issues and concerns related to the proposed Project that may not have been identified through other method of data collection. This helps in gathering in-depth information, building consensus and provided a feedback mechanism. During discussion, people's understanding of the Project's suitability, short-term, long-term impacts and benefits was discussed and issues was noted in checklist. Here's a bird eye view of each method used during the study:

**Table 3.7-1:** Details of Consultation/Meeting and Participation Details

S.N.	Type of Meeting	Date	Location	Representation Area of Participants	Participation
1.	Interaction Meeting	30 May 2022 29 June 2022	Panauti Municipality Office	Mayor, D. Mayor CAO, Engineer, DPO, Panauti, Official, Ward Chairpersons of 5 and 6, NPA and Consultant	9
2.	Public Consultation	10 February 2023	Ward No. 4, 5 & 6 of Panauti Municipality  Ward No. 4, 5 & 6 of Panauti Municipality  Public Stakeholder from IIA, Chairper of Ward No. 4, 5		24
3.	Key Informant Interview			Mayor and Ward Chairperson of Ward No. 6 and Secretary of Devisthan (Kha) CF of Panauti Municipality	4
4.	Focus Group Discussion	11 February 2023	Dalinchowk, Ward No. 6 of Panauti Municipality	Devisthan (Kha) CF and Women's Group	35

# 3.8 Public Hearing and Public Notice

## 3.8.1 Public Hearing

Public hearing is a formal process that provides an opportunity for the public to express their views on the proposed Project's potential impacts. According to Section 3 (5) of EPA, 2019; it has made obligations to organize public hearing for any environmental studies. For this reason, Rule 6 (1) of EPR, 2020, it has made clear mandatory provisions for conducting public hearing sessions in one or more locations based on geography and accessibility. Public hearings are an essential part of the decision-making process, and the comments and feedback received during this process are taken into consideration while drafting EIA study report. This is a point Project and lies within ward no. 6 of Panauti Municipality for which only one Public Hearing was conducted.

The public notice including objectives of public hearing venue and time requesting stakeholder's active participation during the Public Hearing was first pasted in the notice board of stakeholder's location and deeds of notice pasting was also collected. After then, the same information was published in Sanjiwanipatra national newspaper as per Schedule 9 of EPR, 2020 on 23 December 2022. The notice of hearing was sent to the local level and other stakeholders through invitation letter in hand. Hard copies (Brochures) of summary of Project features and activities in Nepali language was shared at the time of hearing. Study team was present at the time of event and facilitated the issues raised from the stakeholders. The views, concerns, recommendations/suggestions of the participants were documented in the form of minutes and incorporated in this report in **APPENDIX** 16.

The approved public notice as per the format in Schedule-9 from the Proponent (**APPENDIX 17**) was pasted in the following offices/locations as mentioned in the following table:

**Table 3.8-1:** Offices/Places of Public Notice Affixation

Areas Offices/Locations of Public Notice Affixation				
	District Administrative Office (DAO); District Police Office			
District Level	(DPO); District Coordination Committee (DCC); District			
Stakeholders	Survey Office (DSO), District Land Revenue Office (DLRO);			
	Division Forest Office (DFO) of Kavrepalanchowk District			
Local Levels	Panauti Municipality Office			
Municipality/Ward	Panauti Municipality, Ward No. 4, 5 & 6			
	Devisthan (Kha) Community Forest; Police Station at Panauti			
Other Places	Municipality; Dalinchowk Urban Health Centre at Dalinchowk;			
	Gorakhnath Primary School at Dalinchowk			

**Table 3.8-2:** Details of Public Hearing and Participation Details

S.N.	Type of Meeting	Date	Location	Representation Area of Participants	Participation
1.	Public Hearing	31 December 2022 (16 Poush 2079)	Project site located at Dalinchowk, Ward No. 6 of Panauti Municipality	District Coordination Office- Kavre, Department of Environment, Mayor, CAO, Engineer, DPO, Panauti, Official, Ward Chairpersons of 4, 5, 6 and 7, Representatives from Devisthan (Kha) CF, NPA and Consultant	44

The detailed information related to public hearing is incorporated in the APPENDIX 16.

#### 3.8.2 Publication of Public Notice

After conducting public hearing in Dalinchowk, a public notice was published in the Sourya Dainik national daily dated on 27 January 2023 (**APPENDIX 18**). The notice contained a brief background of the project, its activities and potential impact (on physical, biological, and socioeconomic and cultural aspects) induced by project activities. The notice also requested institutions and individuals to submit their written opinions and suggestions on the likely environmental impacts within (Seven) 7 days of the notice

publication. This was published in accordance with the requirements of the Rule 7 of EPR, 2020 in the format given in Schedule 9. Altogether public notices were posted in different 14 different locations/offices. The written complains/ suggestions (Muchulka) were collected. The copy of public notice was attached in **APPENDIX 17**.

#### 3.8.3 Collection of Recommendation Letter

The preparation of draft EIA report is completed after incorporating all the concerns or issues raised from stakeholders as obligated in the Rule 8 (8) of EPR, 2020 for the collection of recommendation letters in the format given in Schedule-14 of EPR, 2020 from the concerned local level and/or respective offices. The detailed recommendation letters thus received from the stakeholders is incorporated in the APPENDIX 19.

# 3.9 Data Analysis, Impact's Prediction and Significance Study

# 3.9.1 Systematization of Baseline Information

The present condition and impacts during construction and subsequent operation phases were analyzed by using matrix method from compiled data and categorized the potential impacts as per method prescribed in the Table 8.2 in Schedule-12 of EPR, 2020. The environmental aspects such as physical, biological, socio-economic, cultural and historical, impacts were identified based on-site observation, field survey, information obtained from the stakeholders and expert judgment.

# 3.9.2 Impact Identification, Evaluation and Prediction

Impacts from the proposed project obtained were both beneficial as well as adverse impacts. The potential impacts were predicted in terms of their magnitude (minor, moderate and high), extent (site specific, local and regional) and duration (short term, medium term and long term) as well as their nature (reversible, irreversible). The criteria for the rating of the impacts in terms of their magnitude, extent, and duration are listed below:

**Table 3.9-1:** Numerical Scales as Predicted due to Implementation of Proposed Project

Magnitude	Score	Extent	Score	Duration	Score		
High/Major	60	Regional	60	Long Term	20		
Moderate/Medium	20	Local	20	Medium Term	10		
Minor/Low	10	Site Specific	10	Short Term	05		
Cumulative Level of Score of Significance							
<50: Insignificant, 50 to 75: Significant and >75: Very Significant							

Source: EPR. 2020

# 3.9.3 Preparation of Major Plans

Environment Management Plan (EMP) was prepared to ensure and evaluate the effectiveness of each of the mitigation and enhancement measures adopted to minimize the environmental impacts on making acceptable environmental conditions within the region of influence. The mitigation and enhancement measures were proposed in order to enhance the beneficial impacts and avoid or mitigate the adverse impacts considering the identified impacts, their nature, extent and complexity. The associated costs for adopting mitigation measures and enhancement measures were also estimated and addressed in the respective Chapter 8.

While recommending the mitigation options, a realistic approach was applied such that the measures could be employed in the local context. Environmental Monitoring Plan (EMoP)

in Chapter 9 was formulated to assess the effectiveness and implementation status of mitigation and benefit augmentation measures. Following, the possible alternatives to the Project's design and components was discussed in Chapter 6. While, Auditing Plan was designed and addressed procedural activities within this Chapter 10 as per Scheule-12 of EPR, 2020.

# 3.10 Preparation of EIA Study Report

Environment management plan and monitoring plan and were compiled and draft report was prepared. Impact mitigation measures were identified from the analysis of the negative environmental impacts that the project might induced on the local environment and included in the environmental study report as per Schedule-12 of EPR, 2020.

# CHAPTER 4: POLICY, LAWS AND CRITERIA REVIEW

The proposed Construction of National Police Academy at Kavreplanchowk, Nepal Project attracts the following policies, laws, guidelines, manuals and standards of Government of Nepal (GoN). Apart from the GoN policies, laws, guidelines and standards, the Project will also attract the international convention treaties to which Nepal is a signatory.

# 4.1 Constitution of Nepal

#### 4.2 Plan, Policies and Strategies

- 1. National Adaptation Plan (NAP) 2078-2107 BS
- 2. Forest Area Strategy (2073-2082 BS)
- 3. Fifth Plan (Fiscal Year 2076/77-2080/81) BS
- 4. National Climate Change Policy, 2076 BS
- 5. National Environment Policy, 2076 BS
- 6. National Forest Policy, 2076 BS
- 7. Land Use Policy, 2075 BS
- 8. National Urban Development Strategy, 2074 BS
- 9. National Employment Policy, 2071 BS for Construction Sector
- 10. Public Infrastructure Construction and Operation Policy 2057 BS

#### 4.3 Acts

- 1. Environment Protection Act, 2076 BS
- 2. Forest Act, 2076 BS
- 3. Land Use Act, 2076 BS
- 4. Building Act, 2075 BS
- 5. The Foreign Investment and Technology Transfer Act, 2075 BS
- **6.** Public Health Services Act, 2075 BS
- 7. Children's Act, 2075 BS
- 8. Right to Employment Act, 2075 BS
- 9. The National Civil (Code) Act, 2074 BS
- 10. Human Rights of Persons with Disabilities Act, 2074 BS
- 11. Civil Rights Act, 2074 BS
- **12.** Labor Act, 2074 BS
- 13. Disaster Risk Reduction and Management Act, 2074 BS
- **14.** Local Government Operation Act, 2074 BS
- **15.** The International Trade in Endangered Species of Wild Fauna and Flora Act, 2073 BS
- **16.** Sexual Harassment at Workplace Prevention Act, 2071 BS
- 17. Solid Waste Management Act, 2068 BS
- 18. Plant Protection Act, 2064 BS
- 19. Child Labor (Prohibition) Act, 2056 BS
- **20.** Water Resources Act, 2049 BS
- **21.** Soil and Watershed Conservation Act, 2039 BS
- 22. National Parks and Wildlife Conservation Act, 2029 BS
- 23. Aquatic Protection Act, 2017 BS
- **24.** Police Act, 2012 BS (Amendment in 2066 BS)

## 4.4 Rules/Regulations

- 1. Forest Regulation, 2079 BS
- 2. Environmental Protection Regulation, 2077 BS
- 3. Disaster Risk Reduction and Management Regulation, 2076 BS
- 4. National Natural Resources and Finance Commission Regulation, 2076 BS
- 5. Endangered Wildlife and Flora International Trade Control Regulation, 2076 BS
- **6.** Labor Regulation, 2075 BS
- 7. National Social Security Regulation, 2075 BS
- **8.** Police Regulation, 2071 BS (Eighth Amendment)
- 9. Solid Waste Management Regulation, 2070 BS
- 10. Building Regulation, 2066 BS
- 11. Child Labor (Prohibition and Restriction) Regulation, 2062 BS
- 12. Ozone Depletion Consumption (Control) Regulation, 2057 BS
- 13. Mining and Minerals Regulation, 2056 BS
- 14. Land and Watershed Protection Regulation, 2042 BS
- 15. Land Rules, 2021 BS
- 16. Aquatic (Thek) Rules, 2019 BS
- 17. The Nepal Civil (Code) Procedure, 2076 BS

#### 4.5 Guidelines and Directives

- 1. Wildlife Friendly Infrastructure Construction Guideline 2078 BS
- 2. Procedure with Criteria for Using National Forest Area for National Priority Project, 2076 BS
- 3. NTFP Inventory Guidelines, 2068 BS
- 4. Forest Fire Management Strategy 2067 BS
- 5. EIA Guidelines for the Forestry Sector, 2052 BS

#### 4.6 National Standards

- 1. Nepal National Building Code 2077 BS
- 2. National Standards for Sound Quality, 2069 BS
- 3. National Transport Emission Standards, 2069 BS
- 4. Emission Criteria for Diesel Generators, 2069 BS
- 5. Nepal Water Quality Guidelines for the Protection of Aquatic Ecosystem, 2065 BS
- 6. National Standards on Air Quality, 2062 BS
- 7. Nepal Vehicle Pollution Standards, 2062 BS
- 8. National Drinking Water Quality Standards, 2062 BS

## 4.7 International Conventions, Agreements and Treaties

- **1.** The Stockholm Convention on the Continuously Increasing Permanent Pollutants, 2001
- **2.** Kyoto Protocol to the United Nations Framework Convention on Climate Change, 1997
- 3. United Nations Framework Convention on Climate Change, 1994
- 4. Convention on Biological Diversity, (CBD) 1992
- **5.** Basel Convention, 1989
- **6.** Convention on International Trade in Endangered Species (CITES), 1975
- 7. ILO Convention, 1969

# 4.8 Bylaws Related with Panauti Municipality

- 1. Building Construction 2077 BS
- **2.** Act made in relation for Forest Management within the Panauti Municipality Area, 2077 BS
- **3.** Disaster Risk Management Act, 2077 BS
- 4. Forest Management Act, 2077 BS
- 5. Land Development Guideline of Panauti Municipality 2076 BS
- **6.** Water Resource Use Regulations, 2076 BS
- 7. Road Standard of Panauti Municipality, 2074 BS

Note: The brief of reviewed policies and legislation was annexed in APPENDIX 10. The date is in Nepalese only.

## **CHAPTER 5: EXISTING ENVIRONMENTAL CONDITION**

# 5.1 Physical and Chemical Environment

## 1. Topography and Land Use

Kavrepalanchowk district is one of the seventy-seven districts located in the central-eastern part of Mid-Hill Region of Nepal. This district is surrounded by Ramechhap and Dolakha. The proposed Project area is centrally located in the core area of Panauti Municipality of Kavrepalanchowk district. The geographical location of the Project site lies in the latitude of 27°35'39.36"N in the West, 27°35'35.98"N in the North, 27°35'27.53"N in the South and 27°35'19.85"N in the East, and the longitude of 85°31'12.35"E in the West, 85°31'37.84"E in the North, 85°31'1.34"E in the South and 85°31'13.83"E in the East respectively. The total area for the purpose of NPA is 41.86 hectares (ha). Of the total area, 6.7 ha is the forested area (3.6ha of Devisthan Community Forest, 3.1ha of National Forest) and 35.16ha NPA owned land.

# 2. Geology and Soil

The general geological characteristic of the Project area is located in Phulchoki Sub Group of Tistung and Bhimphedi Sub Group of Tawa Khola Formation within the Kathmandu Group of Pre Cambrian-Devonian Region of Nepal.

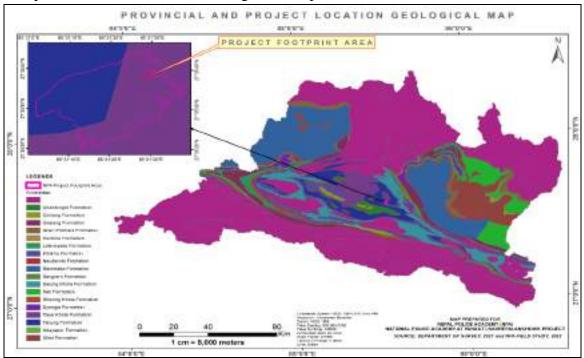


Figure 5.1-1: Provincial and Project Location Geological Map

It is characterized by the dull green grey colored Phyllites, pink purplish tinted sandstones with sandy limestone with ripple marks, clay cracks, and worm tracks with pebbly beds near base at the areas of the bottom part along Punyamata Khola. The upper part of hills is dominated by coarse grained dark grey garnetiferous muscovite biotite quartz schists interbedded with grayish impure quartzite pandering quartzite member light green quartzite.

Geo-technical Investigation<sup>6</sup> of the proposed Project site was completed in 2018 through 30 boreholes over four blocks having 10-13 m depth from the ground levels in four blocks.



Figure 5.1-2: Geotechnical Investigation Block Location at proposed NPA Project Site

Standard Penetration Test (SPT) and Dynamic Cone Penetration Test (DCPT) were taken at every 1.5 m intervals. Borehole logs were prepared at the site on the basis of visual observation of the soil obtained from the boreholes.

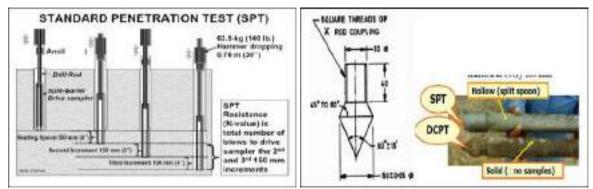


Figure 5.1-3: Details of SPT Procedure and DCPT Cone and Sampler

Logging of the boring hole was carried out at the site. The log was reconfirmed and suitably corrected based on the laboratory test results. The log of the boreholes shows Gravel, Boulder with Sand throughout bore holes. Measured SPT N-value is 9 to more than 60 at different depth and bore holes in the in-situ soil strata. Measured SPT N-value shows that the soil is in medium dense to very dense state. Ground water table was found at a depth of 1-1.5 m in different bore holes. The Shear strength parameters obtained from the direct shear test and unconfined compression test are analyzed. From the direct shear test, cohesion of the soil sample varies 0.5 to 7.0 kPa and angle of internal friction varies from 28.3 to 38.0°. Unconfined compression strength varies from 0.80 Kg/cm² (80 kPa) to 1.09 Kg/cm² (109 kPa).

<sup>&</sup>lt;sup>6</sup> Soil Investigation, Geotechnical Analysis of Proposed Building- National Police Training Center, Panauti, Kavre, 2018.

Geotechnical profile along the different borehole shows Sand/Gravel in Block-1 and Silt/Clay in Block-2, Block-3 and Block-4 are found at foundation level. Recommended bearing capacity for spread footing and raft foundation is shown in following table.

<b>Table 5.1-1:</b> Geotechnical Investigation of Pro-	oposed Project Site
--	---------------------

Depth of foundation below Ground (D) = 2 m	Foundation Soil Type	Spread Footing (2m X 2m)	Raft Foundation (20m X 40m, assumed)
Allowable settlement (mm)		25	50
Block-1	Sand/Gravel	150	200
Block-2	Silt/Clay	130	100
Block-3	Silt/Clay	145	110
Block-4	Sand/Gravel	132	105

Source: Soil Investigation, Geotechnical Analysis of Proposed Building- National Police Training Center, Panauti, Kavre, 2018

For Blocks 2 and 3, the foundation rests on cohesive soil. Though the raft foundation shows slightly lower bearing capacity, it can accommodate large, total and differential settlements; hence, recommended.

#### 3. River Environment and Drainage

The proposed Project area lies within one of the basin areas of Sunkoshi River i.e., Punyamata Sub-Watershed area. Punyamata Khola flows from the North to the South direction from the adjoining boundary line of the Project area.

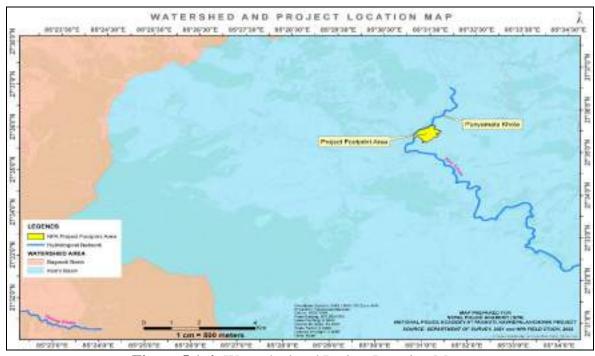


Figure 5.1-4: Watershed and Project Location Map

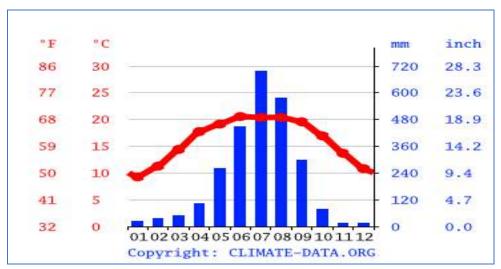
Punyamata Khola that lies adjoining to the project area is seasonal river that have minimum discharge during the dry season. In the monsoon season the Punyamata Khola is known to come across the bridge due to the siltation problem at the upstream section at pillar foundation of bridge and narrow Khola ways. The drainage from the city area like Banepa, Panauti Bazar, Dalinchowk Police Post (proposed Project site) the dense population across the road side discharge their sewers and even solid waste to the Khola. Moreover, the use of fertilizers in agriculture land and the practice of people across the road side had degraded the natural Khola environment.

## 4. Present Ground Water Level around the Project Area

The standard penetration test normal value measured during the soil testing of the proposed Project site shows that the soil is in medium dense to very dense. From the study, it was found that the ground water table was recorded at a depth of 1-1.5m in the Western lower area of Project site throughout the flood plain area of Punyamata Khola. While, in the side of Eastern side of the Project area (hill part) there is no source of ground water like ring wells except a Kuwa in the North-East part within the extreme Project boundary. The settlements above the proposed Project area like Basnet Gaun, Gorakhnath Primary School and Dalikchowk Health Post are also using piped water from lifting system and no live wells were observed during field survey.

#### 5. Climate

The Project area is located at an elevation of 1442 to 1574 amsl. Panauti's climate is classified as warm and temperate. The summers here have a good deal of rainfall, while the winters have very little. The Köppen-Geiger climate classification is Cwb<sup>7</sup>. In Panauti, the average annual temperature is 16.2°C, and Summer begins at the end of June and ends in September.



**Figure 5.1-5:** Climate Graph and Weather by Month of Panauti

The proposed Project area belongs to the Subtropical bio-climatic zone (below 2000 amsl). The minimum temperature recorded is 0°C in January, while the maximum temperature recorded is 32°C, in July (DHM, 2022). It receives the highest rainfall in July. The average annual rainfall recorded along the Punyamata Khola sub watershed region ranges from 1200 to 2000 mm rainfall.

## 6. Air and Water Quality and Noise Level

The air quality monitoring at one station at Project site near entrance point for 24 hours. The air quality parameters that were measured during the monitoring were: Total Suspended Particles (TSS), Respirable Particulate Matter (PM<sub>2.5</sub> and PM<sub>10</sub>). The value for PM<sub>2.5</sub> is found with higher limit from sampling and laboratory analysis as 47.2 (for 40)  $\mu$ g/m<sup>3</sup> in 24 hours average while other parameter remains under the limit of National Air

**39** | P a g e

<sup>&</sup>lt;sup>7</sup> <u>https://en.climate-data.org/asia/nepal/central-development-region/panauti-47338/</u> Retrieved on 2/26/2023

Quality Standard, 2012. The main sources of air pollution in the project area include vehicular emission and dust pollution due to excessive tipper truck and other vehicular movement on unpaved shoulders of Banepa-Khopasi Road, agricultural farming activities, Pashupati Furniture Industry just next to the Project site, and wind movement towards measuring station.

During the field study, the water quality parameters were measured at 2 points namely Punyamata Khola at proposed entrance, and Kuwa (Dhunge Dhara within the periphery of Project site). Mainly four parameters were measured namely pH, Total Suspended Solids (TSS)- (mg/l), Biological Oxygen Demand (BOD)-(mg/l), Chemical Oxygen Demand (COD)-(mg/l) and Coliform for Punyamata Khola water sample while for Dhunge Dhara NDWQS identified parameters were analyzed. The water quality of Punyamata is massively deteriorated as Ammonia (11.84 for <1.0mg/l), BOD (49.24 for <2.1mg/l), COD (82.34 for <65.2mg/l) and PO4-P (1.76 for <0.6mg/l) parameters including Coliform (100) are higher than the limits mentioned in the Nepal Water Quality Guidelines for Aquaculture, 2008. This shows that water quality of Punyamata Khola is similar to dead river. While, except coliform the other parameter for Dhunge Dhara remains within the permissible limit of NDWQS, 2012.

The noise level in the Project area has been measured at 1 station. The noise levels were measured at the exact location where air quality has been measured for 24 hours. During day time the average day-night sound pressure level doesn't comply the standard value (64.4 for 63dB(A)) for mixed residential area. The noise situation at the station recorded higher than national standard in working hours (day time). Structures are relatively gathered and close to exiting road in these areas, therefore, the measured values of noise might be high because of Tipper Truck, high wind velocity, and other people's activities.

# 7. Solid Waste Generation and Management Options

It is expected that NPA will generate 59.5Kg/day or 30.4Kg organic biodegradable waste on a daily basis generation during the construction phase and 424.35Kg/day (for 3450 individuals) of which 216.42Kg will be of biodegradable waste in full occupancy during operation phase.

## 8. Liquid Waste Generation and Management Options

During the construction and operation phase, the generation of liquid waste is estimated as:

**Sewerage generation during the Construction Phase:** 

80% of 24200 liter (484 labors\*50liters water/day)

19360-liter sewerage per day
for 484 labors will be managed in soak pit

**Sewerage Treatment Plant Facility during the Operation Phase:** 80% of 440000-liter flow

350000-liter sewerage per day will be treated from STP for 3450 persons.<sup>8</sup>

-

<sup>&</sup>lt;sup>8</sup> Basis for calculation of STP is referenced from DPR of NPA Project, 2019.

National Police Academy will develop the waste water treatment plant to treat waste water. For the waste water treatment, NPA will install the Moving Bed Biofilm Reactor (MBBR) (2.5.3) waste treatment technology.

## 9. Rain Water Harvesting and Recharge Pits

From the total estimated area of 338,196.05 sq.m for 1200 mm Average Annual Rainfall<sup>9</sup> the Harvesting Potential<sup>10</sup> of 324,668,160.00 liters of rain water will be possible to send in recharge pit. When discussed with respect to daily water consumption during operation phase it is estimated to be 435,000.00 liters or 158,775,000 liters per annum. On such, the ratio of ground water extraction with respect to recharge ratio is 1:2.045. This shows that none of the issues related to ground water table will trigger in future.

## 10. Natural Disaster Risk Management

Nepal lies within the one of the youngest mountain regions of the world. Geologically, the proposed Project site is located between Main Boundary Thrust (MBT) and Main Central Thrust (MCT). This might result in many natural disasters. The recurrent multiple hazards of natural and human induced disasters, like flood, landslide, thunderbolt, fire, road accidents, and epidemics every year within the country suffers from great loss of human lives and damage to properties. Most expected natural hazards are described as:

#### a. Seismic Hazard

The frequency and the intensity of earthquakes are found at the weakness of the crust, such as major faults, major bends and major acres.

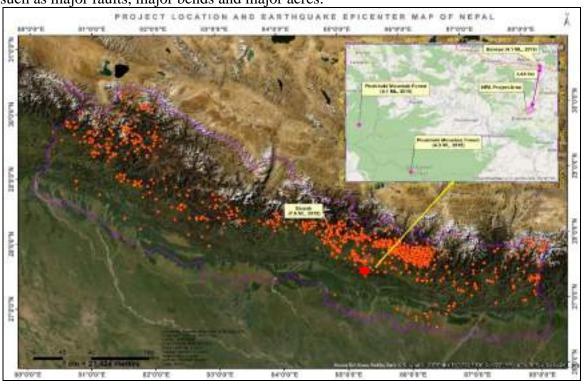


Figure 5.1-6: Seismic Hazard Map of Nepal Showing Proposed Project Site

A recent earthquake of 4.1 ML (in 2015) made its epicenter in Banepa which is located at a distance of 3.58 Km from the Project area. This year's earthquake of magnitude 7.6 ML

<sup>&</sup>lt;sup>9</sup> <u>https://panautimun.gov.np/en/node/4</u> Retrieved on 3/25/2023.

<sup>&</sup>lt;sup>10</sup> https://ciud.org.np/rwh-calculator/ Estimated on 1/25/2023.

on Richter scale (Nepal Earthquake 2015) already proves that the country is highly vulnerable to earthquake. Kavre was one of the 31 severely affected districts. For this reason, the Project area is also prone to the earthquake hazard.

#### b. Urban Flood and Inundation Situation

During the field visit, inundation scars are still seen at lower areas of Project site in the west adjoining to Punyamata Khola. Punyamata Khola discharge comes over the existing bridge during heavy rainfall durations and inundates portion of the lower edge of Banepa-Khopasi Road, entrance bridges and surrounding nearby lower flat lands, for a few days, until the water recedes naturally. The inundation situation is aggravated by deposition of debris that have accumulated along the Khola banks and obstructed the flushing out of the excess water.

## c. Embankment Erosion from Punyamata Khola

Across the proposed Project boundary, the Punyamata Khola embankment is retained by the stone masonry wall and gabion mess wall. During the field visit the study team doesn't observe any sorts of erosion at the embankment.

#### **BOX 1: TACKLING MULTI HAZARD DISASTERS**

Besides these; to prevent from any unforeseeable disasters, NPA will fully adopt National Building Code (NBC) of Nepal and International Standards (IS) of best practices. The proper security system, alarm and PAS (Public Announcement System) for emergency announce, the lift and proper emergency exits are needed for emergency preparedness which will be adopted within the building structures. There has been provisional opening for emergency exits system through fires safety staircase in order to avoid and reduce accidental hazard.

To prevent any unforeseeable disasters, the listed actions will be undertaken:

- Competency-based training programs about emergency preparedness will be delivered to all personnel, and that all workers are familiar and deemed to be competent with emergency management procedures.
- Emergency response capabilities, which include all fire, medical, and rescue equipment, will be maintained to an operational standard, reviewed, and documented regularly.
  - The employers will be told to comply with all site safety rules and procedures.
  - Be alert at all times to potential hazards.
  - Participate in the identification and elimination of hazards.
- National Policy for Disaster Risk Reduction 2018<sup>1</sup> will be duly adopted in order to substantially reduce the natural and human induced disaster losses in lives and properties of persons, health, means of livelihood and production, physical and social infrastructures, cultural and environmental assets.

#### 11. Traffic Volume and Congestion

The NPA Project construction activities like boundary wall construction and bridge at Punyamata Khola at entrance point will affect the normal traffic on the Banepa-Khopasi Road section at Dalinchowk area and could lead to traffic congestion. It can potentially impact the residents of settlements along project narrow road, particularly the movement and safety of school children and elders. This may lead to traffic accidents.

#### 12. Construction Material

The construction material requires various types of materials construction materials. The naturally available materials nearby the project site play a vital role in the project cost. Naturally available materials like stones, sands, boulders, will be needed in one or other form and will be procured from the legally operating markets as mentioned in the **2.4.1**.

## 13. Legal Standing Material Source Sites

Local Government, District Coordination Committee Office (DCC) Ministry of Federal Administration and Local Development, provides legal permission to operate the Crusher

Plant. Crusher Plants are operated under Ministry of Industry's guidelines, after environmental approvals are received by the Crusher Plant operators. Taxes are levied by the District Coordination Committee, as local taxes, in volume basis.

# **5.2** Biological Environment

# 1. Protected Areas and Endangered Species

There are no protected areas adjoining to the target Project area. The nearest conservation area is Important Bird Area (IBA), i.e., Phulchowki Mountain Forest, which is 5.33Km away (arial distance) from the project area. During baseline survey no any endangered species of flora and fauna are recorded inside the project area and its surrounding.

#### 2. Forest Management

The Project lies in the Subtropical Bio-climatic Zone (less than 2000amsl). Of the total Project area, 6.7ha land is covered by saprse forest. The forest is partially managed by Devisthan (Kha) Community Forest and rest is national forest. This CF was established in 1998 and is located in Dalinchowk of Panauti Municipality ward-6.

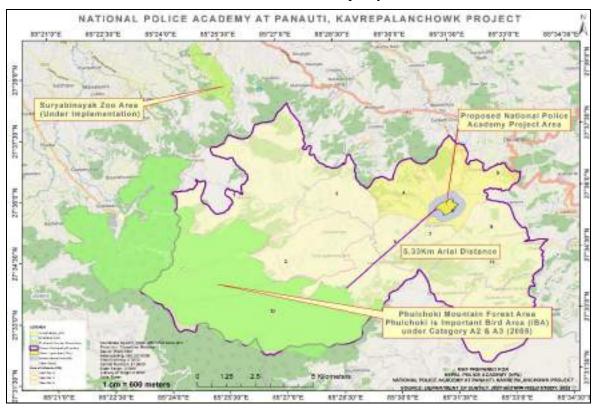


Figure 5.2-1: Location of Project Area with Respect to Nearby Protected Areas

#### 3. Tree Species Diversity

The Project area falls within the subtropical region. The Project area is distributed with major species with Uttis, Chilaune, Lapsi and Salla. In total 17 species have been recorded during field study as Chilaune (*Schima wallichii*), Hade Bayer (*Ziziphus incurve*), Jamun (*Eugenia jambolana*), Kapur (*Cinnamomum glanduliferum*), Gobre Salla (*Pinus wallichiana*), Khotesalla (*Pinu roxburghii*), Lapsi (*Choerospondias axillaris*), Paiyun (*Cerasus cerasoides*), Pate Salla (*Pinus patula*), Saur (*Betula alnoides*), Siris (*Albizia lebbeck*), Tuni (*Cedrela toona*), Kafal (*Myrica esculenta*) and Uttis (*Alnus nepalensis*). Uttis and Chilaune are the dominant forest species. The shrub layer is occupied by Angeri and Uniyo (Fern) etc.

Table 5.2-1: List of Tree Species found in Project Area

S.N.	Common/Local Name	Scientific Name	GoN	IUCN	CITES
1.	Lapsi	Choerospondias axillaris	-	LC	-
2.	Uttis	Alnus nepalensis	1	LC	-
3.	Kafal	Myrica esculenta	ı	LC	-
4.	Gobre Salla	Pinus wallichiana	-	LC	-
5.	Khote Salla	Pinus roxburghii	-	LC	-
6.	Mayal	Pyrus pashia	1	LC	-
7.	Chilaune	Schima wallichii	ı	LC	-
8.	Jamun	Syzgium cumini	-	LC	-
9.	Bans	Bambusa species	1	LC	-
10.	Chhatiwan	Alstonia scholaris	ı	LC	-
11.	Dabdabe	Garuga pinnata	-	LC	-
12.	Kapur	Cinnamomum glanduliferum	-	LC	-
13.	Paiyun	Cerasus cerasoides	-	LC	-
14.	Siris	Albizia lebbeck	1	LC	-
15.	Tuni	Cedrela toona	-	LC	-
16.	Saur	Betula alnoides	-	LC	-
17.	Pate Salla	Pinus patula	-	LC	-

Source: Field Study, 2023 (February) Note: Least Concern (LC)

The diversity index (Shannon-Wiener Diversity Index, 'H') for the species presents within the area proposed for construction of project within the CF is calculated as 1.67. This H-value shows that the diversity is very when compared to the classification scheme described from Fernando et al. 1998. While, the evenness index of 0.672 for 12 species shows the species is mediumly distribution.

Table 5.2-2: Tree Affected from Implementation of Project

CN	Species Local	C4:0 NT	Nos. of Trees		T-4-1 T
S.N.	Name	Scientific Name	Tree	Pole	Total Trees
1.	Saur	Betula alnoides		1	1
2.	Tuni	Cedrela toona	10	10	20
3.	Jamun	Eugenia jambolana	1	1	2
4.	Paiyun	Cerasus cerasoides	11	10	21
5.	Pate Salla	Pinus patula		2	2
6.	Chilaune	Schima wallichii	42	55	97
7.	Siris	Albizia lebbeck	2		2
8.	Lapsi	Choerospondias axillaris	16	13	29
9.	Uttis	Alnus nepalensis	19	83	102
10.	Kapur	Cinnamomum glanduliferum	1		1
11.	Khotesalla	Pinu roxburghii		21	21
12.	Hade Bayer	Ziziphus incurva		1	1
	Total		102	197	299

Source: S-DFO Survey Data, [Received from NPA], 2023 (February)

## 4. Non-Timber Forest Product (NTFP) and Ethnobotany

The socio-economically useful and commercially important Non-Timber Forest Products (NTFP) of the Project impact area was studied by conducting ethno-botanical survey. During the survey, Focus Group Discussion was carried out to record the use of the key species. The forest is habitat of some of the NTFPs such as Jamun, Hade Bayar, Githa, Karma, Chhatiwan, Harro, Barro, Bel etc as trees and shrubs as well as herbs found in the forest are Titepati, Ganaunejhar, Aaiselu etc.

**Table 5.2-3:** Non-Timber Species Found in Project Area

S.N.	Local Name	Scientific Name	Use	Remarks
1.	Jamun	Syzygium cumini	Local Medicine	Edible fruit
2.	Bayar	Ziziphus mauritiana	Edible fruit	Edible fruit
3.	Githa	NA	NA	Edible fruit
4.	Chhatiwan	Alstonia scholaris	Local Medicine	Rare in IUCN red list
5.	Harro	Terminalia chebula	Local Medicine	Medicine
6.	Barro	Terminalia bellirica	Local Medicine	Medicine
7.	Bel	Aegle marmelos	Local Medicine	Medicine and rituals
8.	Titepati	Artemisia dubia	Local Medicine	For mulching
9.	Bamboo	Dendrocalamus sps	Local Medicine	Furniture and food
10.	Ganaunejhar	Agaratum Coniziod	Local Medicine	Mulching

Source: Field Study, 2023 (February)

# 5. Wildlife and Bird Species

The assessment of wildlife and bird species was done through direct field visit, field observation, to understand their distribution, occurrence, habitats, and diversity in project area. In addition, local people, senior citizens, women were also consulted to get information on wildlife, their movement, and possible conflicts with human. Wildlife based on IUCN Red List and NPWC Act 1973 were also assessed. Published and unpublished secondary literatures were also reviewed. The list of the wildlife found from the forest of project site is listed in table below:

Table 5.2-4: List of Wildlife of Project Area

S.N.	English/Local Name	Scientific Name	GoN	IUCN	CITES		
List o	List of Major Mammals Species						
1.	Ratuwa Mriga	Muntiacus vaginalis	VU	LC	-		
2.	Jangali Biralo	Prionailurus bengalensis	-	LC	-		
3.	Syal	Canis aureus	-	LC	-		
4.	Bandel	Sus scrofa	-	LC	-		
5.	Rato Bandar	Macaca mulata	-	NT	II		
6.	Nyaurimuso	Herpestidae species	-	VU	II		
List o	of Common Bird Species						
1.	Kaag	Corvus splendens	-	LC	-		
2.	Kalij	Lophura leucomelanos	-	LC	-		
3.	Bhangera	Passer domesticus	-	LC	-		
4.	Suga	Psittacula krameri	-	LC	-		
5.	Dhukur	Spilopelia chinensis	-	LC			
6.	Koili	Eudynamys scolopaceus	-	LC	-		
7.	Cheel	Aquila nepalensis	_	EN	П		

S.N.	English/Local Name	Scientific Name	GoN	IUCN	CITES	
8.	Gauthali	Hirundinidae sps	-	LC	-	
9.	Phisto	Phylloscopus xanthoschistos	-	LC	-	
10.	Jureli	Pycnonotus cafer	-	LC	-	
11.	Matikorae	Halcyon gularis	-	LC	-	
12.	Firfire	Cisticola juncidis	-	LC	-	
13.	Parewa	Columba livia	-	LC	-	
14.	Chibe	Dicrurus macrocercus	-	LC	-	
15.	Dangre	Acridotheres tristis	-	LC	-	
List o	List of Herpetofauna Species					
1.	Sarpa	Ptyas mucosa	-	LC	II	
2.	Chheparoo	Calotes versicolor	-	LC	-	
3.	Hariyo Sarpa	Trimeresurus gramineus		LC	-	
4.	Bhyaguta	Hoplobactrachus tigerinus	-	LC	-	

Source: Field Study, 2023 (February)

Note: VU: Vulnerable, LC: Least Concern, NT: Near Threatned & II: Appendices II

# 6. Phulchoki Mountain Forest's Conservation and Threat Aspects

Sixteen kilometers to the southeast of Kathmandu in between Lalitpur and Kavre District lies a most unique Phulchoki Mountain Forest Area (Important Bird Area-IBA under the Category A2 & A3 (2005) declared from Birdlife International), which is the highest peak on the rim of the Kathmandu Valley. This forest is located 5.33Km apart from the proposed Project Site. Limestone and low-grade metamorphic marble make up this mountain. On the lower slopes of Phulchoki, which receives a lot of rainfall, subtropical broadleaved Schima wallichii and Castanopsis indica forests on the lower slopes, with Quercus lamellosa and Q. lanata mixed with Rhododendron arboreum and small bamboo patches higher up along with *Quercus semecarpifolia*. Inskipp 1989a, Inskipp 1993, Lama 1994, 1995, Baral 1995, Giri and Choudhary 1996, Choudhary 1996a, Giri and Choudhary 2000a, 2001a, 2004a, H. S. Baral pers. observation has recorded a total of 288 bird species within this mountain area11. Phulchoki's forests are well-known around the world for the numerous animals that live there. A wide variety of butterflies are found in Phulchoki, including the endangered Golden Emperor Dilipa morgiana and Kaiser-I-Hind Teinopalpus imperialis (Limbu and Gurung 1998). Ghimire (1984–1985) promoted their preservation based solely on the value of their plant diversity. The majority of mammals are smaller, such as Indian Muntjacs (Muntiacus muntjac), Yellow-throated Martens (Martes flavigula), Orange-bellied Squirrels (Dremomys lokriah), and the rare Leopard (Panthera pardus). No such substantive conservation initiations from Government of Nepal for which proper comprehensive measures are still limited by resources and capacity in the shake of conservation efforts of this forest.

The forests on Phulchoki mountain face many threats. Following table shows the level of threats the Phulchoki Mountain if facing in the present time are;

i. Biological Resource Use: The gathering of terrestrial plants from the lower part of forest area in the name of conservation is being practiced from the people of

<sup>&</sup>lt;sup>11</sup> Bird Life International (2023) Important Bird Areas factsheet: Phulchoki Mountain forests. Downloaded from <a href="http://www.birdlife.org">http://www.birdlife.org</a> on 03/04/2023.

- nearby communities of Kavre and Lalitpur side is slightly deteriorating the ecological habitat.
- ii. Human Intrusions and Disturbance: Use of forest area for recreational activities, upgrading road and accessing vehicles across the forest and establishment of stone quarry sites are deteriorating the habitat in the lower rim of Phulchoki forest. Use of heavy equipment for the quarry of large volume of stones is one of the major factors for deteriorating the forest environment with respect to air, noise, water and habitat related issues.

## 5.3 Socio-Economic and Cultural Environment

#### 1. Demography

The proposed Project site is located in Ward No. 6 of Panauti Municipality, Kavrepalanchowk District in Bagmati Province. According to the National Housing and Population Census 2021, the total population of the municipality is 51504. Among them, 25015 are male and 26489 are female population. There are 859 households inside the Project affected ward-6. The project affected ward male-female population ratio is different from national and district ratios where male population is higher than the female population. The average family size of the Panauti municipality is 4.02, which is higher than that of the district average (4.13). The demographic detail of the affected municipality is presented in the following table:

**Table 5.3-1: Population within Project Affected Municipality** 

		Household and Population					
S.N.	Local-level	НН	Total Population	Female	Male	HH Size	
1	Panauti Municipality	12806	51504	26489	25015	4.02	
2	Ward No. 6	859	3547	1740	1807	4.13	

Source: NPHS, 2021

The largest population residing in project proposed Municipality and affected ward (age group) is between 15 to 59 years old. Out of the total population, the municipality and ward have 66.7 and 68.3 % of the population in this category. However, the Panauti municipality has a slightly greater difference in a male-female ratio compared to the same age group in the project-affected ward.

Table 5.3-2: Age-wise Population of Project Affected Municipality and Ward (%)

Panauti Municipality				Project Affected ward			
Age Bar	Male	Female	Total	Age Bar	Male	Female	Total
Below 5	55.2	44.8	6.5	Below 5	60.5	39.5	7.3
5 to 14	52.5	47.5	15.2	5 to 14	55.1	44.9	15.4
15 to 59	47.4	52.6	66.7	15 to 59	49.4	50.6	68.3
60 Above	46.4	53.6	11.6	60 above	47.8	52.2	9.0
Total	50.4	49.6	100.0	Total	53.2	46.8	100.0

Source: NPHS, 2021

## 2. Caste and Ethnicity

The project influence municipality is heterogeneous in terms of caste and ethnic composition, comprising several different caste and ethnic groups. Out of them, Chhetri caste group are the most inhabited caste group with 27.69% of the population followed by

Brahmin hill (27.24%) and Newar (18.60%) respectively. In the figure, only the castes having above 1000 population are illustrated:

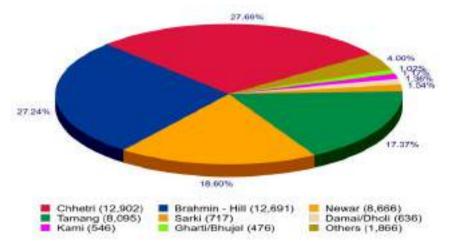


Figure 5.3-1: Population Pie-Chart by Caste for Panauti Municipality

Source: CBS, 2011 and Nepalarchives.com

#### 3. Language

Majority of the population speaks Nepali as their mother tongue in the Panauti Municipality. According to the census of 2011, 68.61 % of Panauti Municipality's total population speaks Nepali while other major languages are Tamang and Newari. Even though the population of Tamang caste is lower than Newar, they speak their own language more than Newar caste group.

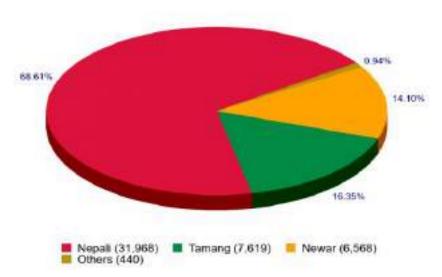


Figure 5.3-2: Population by Mother Tongue in Panauti Municipality

Source: CBS, 2011 and Nepalarchives

#### 4. Religion

In the project influence Municipality, majority of the people practice Hindu (81.7%), Buddhist (16.1%), Christianity (1.7%), Islam (0.1%) and other (0.3%) as their religion.

#### 5. Education and Literacy

According to the NPHS 2021, the average literacy rate of Nepal (population above 5 years) is 76.2 %. The average literacy rate of male is 83.6 % and female is 69.4%. Both

the municipality and project influence ward have higher literacy rate than the national standards following the 81.4% and 83.2%.

Table 5.3-3: Literacy rate (%)

Panauti Municipality				Ward no.6		
Sex	Literate	Illiterate	Total	Literate	Illiterate	Total
Male	89.9	10.1	100.0	91.0	9.0	100.0
Female	72.8	27.2	100.0	75.5	24.5	100.0
Average	81.4	18.6		83.2	16.8	

Source: NPHS, 2021

## 6. Quality of Life

## i. Drinking Water

On average the majority of people living in Panauti municipality use Tap/Pipe (76.6 %) water as a major source of drinking water however ward no.6 people still rely on *Kuwa* (46.6 %). The other major sources of drinking water are Tube well, Spout, Jar, etc.

Table 5.3-4: Major source of Drinking Water

Source	Panauti Mu	ınicipality	Ward.no.6	
Source	НН	%	НН	%
Tap/Pipe Water	9805	76.6	373	43.4
Tube well/handpump	41	0.3	1	0.1
Kuwa (covered/uncovered)	2112	16.5	400	46.6
Spout/River/Stream	748	5.8	52	6.1
Jar/Bottle	79	0.6	31	3.6
Other	21	0.2	2	0.2
Total	12806	100.0	859	100.0

Source: NPHS, 2021

#### ii. Cooking Energy

LP Gas and wood are the major sources of cooking energy both inside in Municipality and project influenced ward. Out of the total population, 85.7 % of people use LP gas for cooking in ward no.6 whereas 67.5 % of the population in Municipality. Other sources and their usage details are presented in the following table:

Table 5.3-5: Major source of Cooking Energy

Source	Panauti Mu	ınicipality	Ward.no.6		
Source	НН	%	НН	%	
Wood	4095	32.0	118	13.7	
LP Gas	8645	67.5	736	85.7	
Electricity	28	0.2	1	0.1	
Cow Dung	2	0.0	0	0.0	
Biogas	24	0.2	4	0.5	
Kerosene	8	0.1	0	0.0	
Other	4	0.0	0	0.0	
Total	12806	100.0	859	100.0	

Source: NPHS, 2021

#### iii. Lighting Energy

Electricity is the major source of lighting energy in Panauti municipality and ward no.6 as well. Almost 100% of households of ward no.6 use electricity as a source of light whereas still, 1% of the population uses solar energy for lighting inside Panauti Municipality.

Table 5.3-6: Major source of Lighting Energy

Course	Panauti Mu	ınicipality	Ward.no.6		
Source	НН	%	НН	%	
Electricity	12665	98.9	858	99.9	
Solar	122	1.0	1	0.1	
Kerosene	5	0.0	0	0.0	
Biogas	1	0.0	0	0.0	
Other	13	0.1	0	0.0	
Total	12806	100.0	859	100.0	

Source: NPHS, 2021

#### iv. Toilet

According to the NPHS 2021, still, 4.5 % of the household do not have any type of toilet facility in Nepal however the Panauti municipality is more than the national average. Almost 99% of households have access to a toilet facility. The major type of toilet facility in Panauti Municipality and Ward No. 6 is a Flush (Septic Tank) which is 74.7 % and 70 % respectively.

**Table 5.3-7: Types of Toilet Facility** 

Type of Toilet Facility	Panauti Mu	ınicipality	Ward. no.6		
Type of Tonet Facility	НН	%	НН	%	
Flush (Public Sewerage)	1976	15.4	217	25.3	
Flush (Septic Tank)	9568	74.7	601	70.0	
Pit Toilet	1067	8.3	34	4.0	
Public Toilet	99	0.8	0	0.0	
Without Toilet	96	0.7	7	0.8	
Total	12806	100.0	859	100.0	

Source: NPHS, 2021

#### v. Foundation of House

Out of the total households in Panauti Municipality, the most common (39.5%) houses type were mud bonded bricks/stone, whereas, in project-influenced ward no. 6 the most common (48.3%) houses were Reinforced Cement Concrete with pillars. The other remaining types of houses and their details are presented in the table below:

Table 5.3-8: Types of Toilet Facility (%)

Foundation Types	Mud- bonded bricks/ stone	Cement-bonded bricks/ stone	RCC with pillars	Wooden pillars	Other	Total
Panauti Municipality	39.5	27.5	30.3	1.7	1.0	100.0
Ward no.6	22.5	25.5	48.3	2.7	1.0	100.0

Source: NPHS, 2021

## 7. Economy

Majority, of the people living in Panauti municipality, rely on agriculture for their subsistence. Out of the total population still, 51% of the population engages in agriculture for an occupation. Whereas only 0.4% were in armed force for occupation.

## i. Small Scale Enterprises

More than 90% of the household of Panauti Municipality do not own any type of small-scale enterprise other than agriculture. The topmost small-scale enterprise owned is a trade business that is owned by only 4.5% of the household. The details of type of enterprises and their values are presented in the table below:

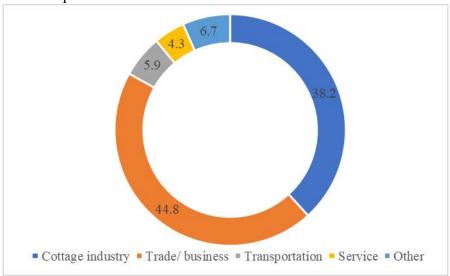


Figure 5.3-3: Small Scale Enterprises Other than Agriculture

Source: NPHS, 2021

#### ii. Female Ownership

In Panauti Municipality, only 11.9 % of females have ownership of land and housing units. The result shows that still, 75% of females do not have ownership either in housing or land.

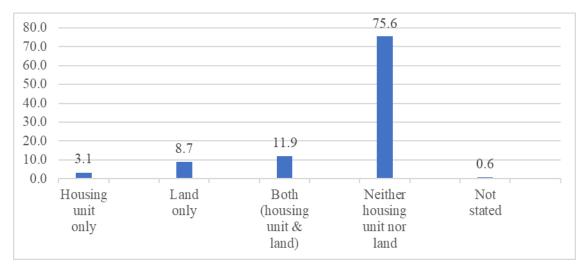


Figure 5.3-4: Female Ownership

Source: NPHS 2021

#### iii. Small Scale Enterprises

According to the NPHS 2021, the overall involvement of male-female ratio in running small-scale enterprises is 55% and 45% at National level. The ratio of Panauti

Municipality is also similar to National level which is 53% and 47%. The major gap between male and female are in Transportation sector which is 73% male and 26% female.

Table 5.3-9: Number of households by female ownership in fixed assets (%)

Enterprises	Male	Female	Total
Cottage Industry	51.9	48.1	100.0
Trade Business	47.9	52.1	100.0
Transportation	73.7	26.3	100.0
Service	50.0	50.0	100.0
Other	41.9	58.1	100.0
Average	53.1	46.9	100.0

Source: NPHS 2021

#### 8. Social Infrastructures Facilities and Status

#### i. Health

Altogether there are fourteen government health service institutions in Panauti Municipality. Out of them, there are eight Health Posts, 2 Primary Health Posts, 2 Basic Health Center and 2 Urban Health Center. The project influenced ward no six has only a Basic Health Center. Besides, taking basic services from government institutions local people visit the nearest Dhulikhel hospital and hospitals of Kathmandu Valley.

#### ii. Education

Inside the Panauti municipality, there are fifty-eight government and institutional schools. Among them, there are one government primary school and one private secondary school inside project influenced ward no.6. Beside schools, there is one Tej Ganga Campus in Panauti Municipality for further education most of the student go to the nearest destination Banepa and Kathmandu valley. The detail list and level of school information is presented in the table below.

Table 5.3-10: Number of Schools and level

Government		Inst	Total	
Primary	Secondary	Primary	Secondary	Total
28	10	3	17	58

Source: Panauti Municipality Profile 2075

#### 9. Communication

The communication facilities available in Panauti municipality are Nepal Telecom Landline and GSM, NCELL and several other Internet Service providers like World link, Subisu, Vianet, Websurfer, etc. Apart from problems raised due to weather and electricity, the municipality has fair access to phone services and internet services. Due to the good road and transportation facilities, the municipality also has good access to daily/weekly newspapers published from Banepa and Kathmandu Valley. Even more, FM Radio and Television's access inside Municipality.

#### 10. Culture and Religion

Panauti is one of the oldest settlements nearby Kathmandu Valley. The settlements are adorned with several religious temples and shrines. Due to its culture, traditions, art and beauty of the city itself, this tiny town has been designated a UNESCO tentative site. It was originally a small state given by king Bhupatindra Malla as a dowry to his sister. The

settlements in Panauti are dominated by Chhetris and Brahamin while ethnic groups are Newars and Tamang.

People celebrate Hindu and the Buddha religion according to their traditions intensively. Major festivals celebrated inside Panauti Municipality are Dashain, Tihar, Buddha Purnima, Lohshar, Holi, Janai Purnima, Krishna Astami, Teej, Rishi Panchami, Ram Nawami, etc. Panauti is famous for Jatra's and Mela which are celebrated throughout the year. Among them Makkar Mela has higher importance than others. It is celebrated every 12 years in the month of Magh. The festival attracts Hindu pilgrims believing a dip in the holy river(confluence of three rivers viz. Punyamati, Roshi and Rudrawati.) during the festival washes away their sins. Pilgrims bath in the river and worship Basuki Naag which is considered to be the caretaker of Panauti. Major Jatra performed inside Panauti are Guthi *Jatra*, Baghbhairay *Jatra*, Kushadevi *Jatra*, Fulchoki *Jatra*, *Gaijatra*, *Hilejatra* etc.

## **CHAPTER 6: ALTERNATIVE ANALYSIS**

With the changing global security aspects, NPA is an apex training institution of Nepal Police which organizes training courses for senior and junior police personnel in four major areas crime investigation, administration and management, security, and operations along with civil servants from across the country. The comparison of various considered Project alternatives showed that the Project would not cause severe adverse environmental impacts if appropriate mitigation and monitoring measures identified are implemented in the project design and implementation. Therefore, to support the NPA's objectives to upgrade and modernize the existing training programs in a modern and well-equipped infrastructure and environment for the sake of institutional strengthening the proponent has decided to implement the proposal.

For that reason, this option has been studied within the concept of implementing the proposal. While implementing the proposal, the options, including the following areas, have been analyzed.

- 1. Design
- 2. Project Location
- 3. Technology, Procedure of Operation, Time Schedule
- 4. Raw Materials to be used
- 5. Environmental Management Plan (EMP)
- 6. Other Matters or Do-Nothing Alternatives

Beneficial and Adverse impacts in the environment due to implementation of alternative analysis are explained in the following table:

**Table 5.3-1:** Alternative Analysis of Project

		Beneficial	Adverse
Alternative	Analysis	Environmental	Environmental
		Impacts	Impacts
Design	The design and drawings approved by NPA will be adopted, and the building of the NPA will be constructed according to Nepal National Building Code NBC: 105:2020	During construction of NPA's infrastructures, it will adopt best sustainable options to minimize adverse impacts on nearby environment	Change in land use and stability
Project Location	NPA will be located at Ward no.6 of Panauti Municipality in Kavrepalanchowk District, Nepal. Realizing the need of well-equipped and modern capacity building trainings to junior and senior police officials and civil servants, NPA has been proposed the project. Regarding location, the site has been already proposed by GoN and acquisition of land	Strengthening and capacity building of police personals along with civil servants will be provided	Traffic congestion

Alternative	Analysis	Beneficial Environmental Impacts	Adverse Environmental Impacts
Technology, Procedure of Operation, Time Schedule, Raw Materials	has also been already completed for this Project, for which studies on alternatives was not studied.  • The NPA is aimed at providing best available globally recognized strengthening trainings • The NPA will gradually follow up on new and modernized technology regarding capacity enhancement trainings to police personals. • The NPA will use MBBR for waste water treatment plant within the premise. • The NPA will adopt SWM basic 3R principles to minimize the waste and its management within its own premises. • NPA will recharge in more than 1:2 ratio water to ground water table. • The implementation schedule for this Project is estimated to be 3 years. Season, shift of working	More police personals and civil servants will have opportunity to strengthen their capacity on security concerns     Employment opportunity to local people     Increase in local revenue from using locally available materials     More secured	
	hours and festival time will be considered for the preparation of the working schedule.  Construction materials such as sand, gravel, and cement will be sourced from the local market.  Environmentally friendly construction materials will be used	place than before after operation in Panauti Municipality	
Environment Management Plan	<ul> <li>Wastewater generated from the NPA will be treated by MBBR plant</li> <li>Adoption of 3R principle (minimum) to minimize and manage the solid waste</li> </ul>	Help to maintain the understanding with the local community, local level	None

Alternative	Analysis	Beneficial Environmental Impacts	Adverse Environmental Impacts
	<ul> <li>within own premises</li> <li>Recharge pit will be constructed for groundwater recharge.</li> <li>Rain water harvesting technology will be adopted</li> <li>NBC for building will be fully adopted while construction of buildings</li> <li>Greenery will be maintained</li> </ul>	Help to maintain a clean environment	
Other Matters or Do-Nothing Alternatives	Do nothing alternatives of the project involve no construction of NPA	NPA is not only important for strengthening of police but equally good for upliftment of socio-economic condition, through development of local business	Scenario will cause social injustice to local people and positive beliefs of local level towards NPA will be changes

# CHAPTER 7: IMPACT ON THE ENVIRONMENT AND PROTECTION MEASURES

This chapter identifies the potential environmental impacts associated with the project activities. All the environmental impacts that have been predicted during the Scoping stage and identified in EIA stage has been categorically analyzed and assessed based on existing conditions. The beneficial and adverse impacts due to implementation of the project are discussed for project construction and operation phase.

## 7.1 Beneficial Impacts

#### 7.1.1 Construction Phase

## 7.1.1.1 Employment Opportunity

During the construction of the NPA, skilled and unskilled human resources will get employment opportunities. Approximately 484 workforce per day or 242 (50%) each skilled and unskilled workforce will be involved in project construction work. Priority will be given to local people for the job opportunity. The envisaged impact is direct in nature, high in magnitude, local in extent, and short term in duration; hence, this impact is very significant.

#### 7.1.1.2 Increase in Economic Activities

Different construction materials and equipment will be required during the construction phase. Suppliers of local markets will get an opportunity to supply construction materials like brick, cement, steel, bar, aggregates, sand, flooring items, etc. This will benefit the local market and help grow the local people's economy. The envisaged impact is direct in nature, medium in magnitude, local in extent, and short term in duration; hence this impact significant.

#### 7.1.1.3 Technical Skill Enhancement

The Project development involves competent human resources like engineers, painters, carpenters, sanitary fixers, welders, electricians, etc. It will be a better opportunity for them to develop skills and learn new technologies related to building construction and stabilization of unstable areas. The workforce gets the opportunity to work with new technologies and equipment so that their skill level will upgrade. This will be a positive point to the employees for their future works. Idea and skill generated for once can be used for similar nature of Projects in future. The envisaged impact is direct in nature, medium in magnitude, local in extent, long term in duration; hence, this impact is significant.

#### 7.1.2 Operation Phase

#### 7.1.2.1 Increase in the Local Economy

With the operation of the NPA, economic activities will be increased around the NPA. Daily activities of the area will be increased, and demand for local goods, food, and other basic requirements will be increased at the Project site. A large number of police personals, visitors and other civil staff will significantly increase economic transactions in and around the Project area. This will increase the local economy, lead to the urbanization of the area, and improve the local people's socio-economic status through the increment of number of suppliers supplying various NPA related items and other different commodities

would be increased. The envisaged impact is direct in nature, moderate in magnitude, local in extent, long term in duration; hence, this impact is significant.

#### 7.1.2.2 Increase in Aesthetic and Environmental Value

With the establishment of NPA, there will be modern and well-designed infrastructures. Previously the Project area was barren land (after transfer to NPA), will be converted into a well-managed landscape management profile adopting both civil and bioengineering aspects. This will increase the aesthetic and environmental value of the Project area. *The impact is direct, high in magnitude, local in extent, long term in duration; hence, this impact is very significant.* 

#### 7.1.2.3 Increment of Land Value

The area near the Project will be of very high significance because the land near Project will be used to establish offices, shops, and restaurants, serving the increased number of people who do business with NPA. This activity will likely uplift the economic condition of the local people. Measures to enhance benefit would be to promote land development activities and control of encroachment within the project area. Also, migration of people nearby areas will be increase as because of belief on better security concerns. The impact is direct, high in magnitude, local in extent, long term in duration; hence, this impact is very significant.

#### 7.1.2.4 Increase in Market Facilities

With the operation of NPA, public related facilities like communication centers, stationaries, sports related goods and services, health facilities, standard restaurants and hotels, groceries and etc. will be established and help to upgrade small shops into a standard market nearby the Project area. *The impact is direct, high in magnitude, local in extent, long term in duration; hence, this impact is very significant.* 

#### 7.1.2.5 Benefits from Community Social Program (CSP) of the Project

The NPA is supporting communities in different sectors like security concerns, hazard management, reliefs, and development of community infrastructures and so on. NPA has proposed this Project in Dalinchowk of Ward-6 of Panauti Municipality. Communities adjoining to the Project area are directly and indirectly using those resources within the Project area in past. To support the basics, NPA will support through community development programs. The impact is direct, medium in magnitude, local in extent, long term in duration; hence, this impact is very significant.

## 7.1.2.6 Enhancement of Skill and Capacity of Nepal Police

It relentlessly emphasizes on new scientific methods and advanced technological adaptations to ensure new concept of policing. The introduction of improved administrative practices focuses on enhancing qualitative instructors and the trainings to bring about improvements on administrative, investigative and overall levels of the police professionals. The impact is direct, high in magnitude, local in extent, long term in duration; hence, this impact is very significant.

 Table 7.1-1: Evaluation of Beneficial Impact

T	T		Environme	ntal Impacts		Total	Significance of
Issues	Impacts	Nature	Magnitude	Extent	Duration	Score	Impacts
<b>Construction Phase</b>							
Employment Opportunity	Skilled and unskilled human resources will get employment opportunities.  Approximately 484 workforce per day or 242 (50%) each skilled and unskilled workforce will be involved in project construction work.	D	H (60)	Lo (20)	ST (05)	85	Very Significant
Increase in Economic Activities	Suppliers of local markets will get an opportunity to supply construction materials like brick, cement, steel, bar, aggregates, sand flooring items, etc.	D	M (20)	Lo (20)	ST (05)	45	Significant
Technical Skill Enhancement	Better opportunity for them to develop skills and to learn new technologies. The workforce gets the opportunity to work with new technologies and equipment so that	D	M (20)	Lo (20)	ST (05)	45	Significant

T	T		Environme	ntal Impacts		Total	Significance of
Issues	Impacts	Nature	Magnitude	Extent	Duration	Score	Impacts
	their skill level will						
	enhance. This will be a						
	positive point to the						
	employees for their						
	future works. Idea and						
	skill generated for once						
	can be used for similar						
	nature of projects in						
	future.						
<b>Operation Phase</b>							
	Daily activities of the						
	area will be increased,						
	and demand for local						
	goods, markets, food,						
	and other basic						
	requirements will be						
Increase in the	increased at the Project	D	M (20)	Lo (20)	LT (20)	60	Significant
Local Economy	site. A large number of		111 (20)	20 (20)	L1 (20)		
	police personals,						
	visitors and other civil						
	staff will significantly						
	increase economic						
	transactions in and						
	around the Project area.						
Increase in	Previously the Project						
Aesthetic and	area was barren land	_	TT (50)	. (20)	L TT (20)	100	T. G. (C)
Environmental	(after transfer to NPA),	D	H (60)	Lo (20)	LT (20)	100	Very Significant
Value	will be converted into a						
	well-managed						

T	T		Environme	ntal Impacts		Total	Significance of
Issues	Impacts	Nature	Magnitude	Extent	Duration	Score	Impacts
	landscape management profile adopting both civil and						
	bioengineering aspects.						
Increment of Land value	The area near the Project will be of very high significance because the land near Project will be used to establish offices, shops, and restaurants, serving the increased number of people who do business with NPA.	D	H (60)	Lo (20)	LT (20)	100	Very Significant
Increase in Market Facilities	Public related facilities like communication centers, stationaries, sports related goods and services, health facilities, standard restaurants and hotels, groceries and etc will be established and help to upgrade small shops into a standard market nearby the Project area.	D	H (60)	Lo (20)	LT (20)	100	Very Significant
Benefits from Community Social Program (CSP) of	The NPA is supporting communities in different sectors like	D	M (20)	Lo (20)	LT (20)	60	Significant

T	T		Environmen	ntal Impacts		Total	Significance of	
Issues	Impacts	Nature	Magnitude	Extent	Duration	Score	Impacts	
the Project	security concerns,							
	hazard management,							
	reliefs, development of							
	community							
	infrastructures and so							
	on. Communities							
	adjoining to the Project							
	area are directly and							
	indirectly using those							
	resources within the							
	Project area in past.							
	The introduction of							
	improved							
	administrative practices							
	focuses on enhancing							
Enhancement of	qualitative instructors							
Skill and Capacity	and the trainings to	D	H (20)	R (40)	LT (20)	80	Very Significant	
of Nepal Police	bring about		11 (20)	11 (13)	21 (20)		, or a significant	
	improvements on							
	administrative,							
	investigative and							
	overall levels of the							
	police professionals.							

## 7.2 Adverse Impacts

#### 7.2.1 Construction Phase

## 7.2.1.1 Physical and Chemical Environment

#### 7.2.1.1.1 Impact on Topography and Geology (Erosion/Landslide/Embankment)

The proposed site is located in the forest area and barren (previously used as cultivated land before it acquired from NPA) land, but there is a probability of landslide adjacent to the western lower part of Project site along Punyamata Khola due to the excavation and construction work. The envisaged impact is direct in nature, moderate in magnitude, site specific in extent, short term in duration; hence, this impact is significant.

## **7.2.1.1.2** Impact due to Construction Waste

Construction waste includes debris, broken brick pieces, left out/non-usable reinforcement bars, sand, stone, waste cement, sand mix and packing materials will be generated during construction phase. If construction trash is not properly managed, it may have negative effects on the surrounding area, particularly on the Punyamata Khola and neighboring settlements in the east, west and south. The construction work will also generate the spoil. Accidents and Punyamata Khola deterioration are also possible effects of the careless disposal of waste. The envisaged impact is direct in nature, high in magnitude, site specific in extent, short term in duration; hence, this impact is very significant.

## 7.2.1.1.3 Impact due to Air Pollution

The use of heavy machinery and equipment for site clearance will generate dust and smoke as a consequence increase air pollution. In addition, transporting construction materials like sand, cement, and brick to the construction site releases hazardous gases like COX, SO<sub>X</sub>, NO<sub>X</sub>, and others that additionally contribute to air pollution. The Project team and local people may experience certain effects as a result of these actions. Besides this vehicular movement on the side road, operation of construction machinery/ equipment including back-up diesel generator (DG) sets, construction-related activities, spoil disposal, etc., emits dust and smoke leading to deterioration in air quality. The envisaged impact is direct in nature, high in magnitude, local in extent, short term in duration; hence, this impact is significant.

## 7.2.1.1.4 Impact due to Noise Pollution

Noise is one of the most unfavorable effects of construction activity due to equipment, including generators, vehicles, etc. Oral communication disruption and sleep disturbance are the effects of higher noise levels that are most frequently observed. During the Project construction stage, the noise levels at the project site and adjacent areas would higher than those usually occurring in the Project area. The Project construction activities involving the operation of heavy equipment for ground preparation, use of generators, construction of building structure, and movement of heavy machinery during the transportation of construction materials and medical equipment will cause temporary increase of noise levels in the Project site. The envisaged impact is direct in nature, high in magnitude, site specific in extent, short term in duration; hence, this impact is significant.

#### 7.2.1.1.5 Impact due to Water Pollution

Large amounts of water are needed during construction works, such as, compaction of the soil, water spraying to control dust, mixing of cement concrete and mortar, curing of

concrete, cement plaster, cleaning of surfaces, etc. There is a possibility of water pollution due to mixing of wastewater like waste, leachate and sewerage discharge from construction site that leads to pollution of Punyamata Khola and Kuwa near the Project construction site. The envisaged impact is indirect in nature, moderate in magnitude, site specific in extent, short term in duration; hence, this impact is insignificant.

#### 7.2.1.1.6 Impact due to Soil Contamination

The transportation of spoil generated from earth work and the accumulation of solid waste during the Project's construction phase, which consists of organic waste, liquid waste along with hazardous lead-based paint residues, paints and solvents, cement, diesel fuel, oil, heavy metals, floor cleaning solvents and other products considered hazardous waste material. This hazardous waste plays a vital role in degrading the soil quality and will also degrade the Punyamata Khola. The envisaged impact is direct in nature; moderate in magnitude, site specific in extent, short term in duration; hence this impact insignificant.

#### 7.2.1.1.7 Impact due to Ground Water Extraction

The Project will require a significant amount of water, which will be extracted mostly from underground. If the withdrawal rate exceeds the recharge rate, there will be a chance of groundwater depletion in the surrounding area. Besides this, activities like the construction of buildings or pavement of surfaces will further decrease the permeable surface, thereby lowering the recharge rate. The envisaged impact is direct in nature, moderate in magnitude, local in extent, short term in duration; hence, this impact is significant.

## 7.2.1.1.8 Impact due to Stockpiling of Construction Material

Construction materials such as soil, gravel, sand, aggregates, etc., or excess material are usually stockpiled within the construction site as well as other related facilities of contractor. With improper management, natural wind might blow away the upper lose dust particles. Following, heavy rain can also wash away finer particles and pollute surface water. The envisaged impact is indirect in nature, low in magnitude, site specific in extent, short term in duration; hence, this impact is insignificant.

#### 7.2.1.2 Biological Environment

## 7.2.1.2.1 Impact due to Loss of Vegetation and Forest Land

Since most of the Project components will be constructed in the Devisthan (Kha) Community Forest area along with national forest area. 299 tree/poles will need to be clearly felled from 6.7ha total forest land during the construction of proposed Project. *The envisaged impact is direct in nature, high in magnitude, site specific in extent, long term in duration; hence this impact is insignificant.* 

#### 7.2.1.2.2 Impact due to Loss of Habitat

From the Project implementation, 6.7ha of forest area (3.6ha from Devisthan (Kha) Community Forest and 3.1ha from National Forest) will be used. It is obvious that the low recorded population of Barking Deer in the Project region will be shifted to adjoining location of Devisthan (Kha) Community Forest area as it is disturbed by the frequent vehicle movement; noise from heavy machines in the vicinity will have an effect on the wildlife and bird species. Since the construction nature is of point Project activities there will be negligible impact to Phulchowki Mountain Forest. *The envisaged impact is direct* 

in nature, high in magnitude, site specific in extent, long term in duration; hence this impact is insignificant.

#### 7.2.1.2.3 Impact due to Forest Fire Hazards

Forest fires will be caused from burning forest vegetation, bushes and shrubs, spillage of inflammable solvents and the fires which spread beyond the area authorized for burning. The envisaged impact is direct in nature, low in magnitude, site specific in extent, short term in duration; hence this impact is insignificant.

#### 7.2.1.3 Socio-Economic and Cultural Environment

#### 7.2.1.3.1 Problem in Use of Spring Well and Prohibition of Livestock Grazing

The water supply used by the locals (15 Households including Gorakhnath Primary School and health post) will be impacted by the Project construction. As the Project undergoes construction, community people will not have access to use water for drinking purpose. Also, people will not have access to forest for cattle grazing and forest resources collection which they have been doing previously. The envisaged impact is direct in nature, moderate in magnitude, site specific in extent, short term in duration; hence this impact is insignificant.

#### 7.2.1.3.2 Issues During Demarcation of Project Boundary

People who are residing close to the Project boundary will be dissatisfied if Project fails to involve them during demarcation of boundary will raises issues. Also, the mobility of people through the Project boundary will be stopped. This will lead people to take a long way to travel/walk to reach the community from the main Banepa-Khopasi Road. The envisaged impact is direct in nature, high in magnitude, site specific in extent, short term in duration; hence this impact is very significant.

#### 7.2.1.3.3 Child Labor and Discrimination towards Women Labor

Contractors may use children and women for their own benefit during construction works. In contrast to the eligible or male workers, they may participate in hard and tedious work at a lower rate for women workers. Also, gender pay differentials are the predominant factor in this situation. The envisaged impact is indirect in nature, low in magnitude, site specific in extent, short term in duration; hence this impact is insignificant.

#### 7.2.1.3.4 Impact due to Conflict between Workers and Local People

Project Construction Contractor prefer to hire trained labors having experience of relevant work over the years. It is because they are assured with the reason that they will be able to work according to their expertise, schedule, rules, benefits etc. and for which contractor are less likely to engage local labors. This in turn, will lead to conflicts among the local people and outside workers. The other possible causes of conflict may arise due to unequal opportunities, influx of labors from outside the Project area, harassment, alcoholism, prostitution and disrespecting local customs, norms, and religion, sharing of resources like drinking water etc. The envisaged impact is direct in nature, moderate in magnitude, local in extent, short term in duration; hence, this impact is insignificant.

## 7.2.1.3.5 Impact due to Accessibility on use of Public Infrastructure

With the implementation of Project People using the Punyamata corridor road will be somehow inaccessible, the internal access road previously used will be closed, the adjoining Muktinath Temple and Bichari Pati and crematorium ground near Punyamata Khola opposite to Project site might get influenced during the construction work. *The* 

envisaged impact is direct in nature, high in magnitude, local in extent, short term in duration; hence, this impact is very significant.

#### 7.2.1.3.6 Impact due to Occupational Health and Safety

Prolonged exposure to smoke, dust and heavy lifting poses several health problems such as respiratory problems, eye diseases, skin related issues, body pain, severe physical impairment, will be seen during the construction phase. Following, accidents due to vehicular impact during construction work and fall from height during the erection of steel truss structures are possible. Fire hazard is also expected in fuel storage sites and stockpiling sites. The envisaged impact is direct in nature, high in magnitude, local in extent, short term in duration; hence, his impact is very significant.

#### 7.2.1.3.7 Impact due to Traffic Congestion

Along with the construction of the NPA, the influx of people from distant and moving in and out of the NPA construction site will be increased. Due to lack of proper parking area and highly movement of vehicles at the entrance of Project site where bridge was proposed. Such situation may cause accidents. The envisaged impact is direct in nature, high in magnitude, site specific in extent, short term in duration; thus, this impact is significant.

## **7.2.2** Operation Phase

## 7.2.2.1 Physical and Chemical Environment

### 7.2.2.1.1 Impact due to Noise Pollution

The main source of the noise during NPA operation will be the from parade activities, firing activities, motor garage, and movement of vehicles. After completion of the NPA, the inflow of police personals and other visitors will comparatively increase in the area. The envisaged impact is direct in nature, moderate in magnitude, local in extent, long term in duration, hence this impact is significant.

#### 7.2.2.1.2 Impact due to Water Pollution

Wastewater contains hazardous chemical and can cause serious infectious diseases. Nearly 350000-liter sewage will be generated from the NPA in daily basis (in full-fledged operation) cause water pollution, and wastewater from the floor cleaning solvents and paints, motor garage, horse stable and dog kennel, laboratory, and laundry are also a major polluter giving rise to contamination with heavy metals. If such wastewater discharged into the Punyamata Khola directly, probability of spread of infectious diseases will be high and deteriorate the aquatic habitat in the lower stream area from the Project site. *The envisaged impact is direct in nature, moderate in magnitude, local in extent, long term in duration; hence this impact is significant.* 

## **7.2.2.1.3** Impact due to Ground Water Extraction

At an average of 435000liter water will be extracted on a daily basis. This could deplete the aquifer for the water source of the bore well. This is different when considered with the installed capacity of rain water harvesting potential of 324,668,160 liters from 338,196.05 sq.m. area for the purpose of recharging ground water at a ratio with double capacity shows that the extraction of water will have no adverse impacts on the surrounding wells and ground water table. The envisaged impact is direct in nature, moderate in magnitude, local in extent, long term in duration; hence this impact is significant.

#### 7.2.2.1.4 Impact due to Solid and E-Waste Generation

NPA is expected to generate 424.35Kg/day (for 3450 individuals including visitors) of which 216.42Kg will be of biodegradable waste in full occupancy. The biodegradable waste will be managed within the NPA premises and used for horticulture and landscaping. Following, administrative related work requires huge quantities of electronic devices like laptops, computers, display screens, gadgets, electrical appliances, and so on will lead to generation of e-waste also. In total, the amount of inorganic waste volume will also be high after the operation of NPA in subsequent years. The envisaged impact is indirect in nature, moderate in magnitude, site specific in extent, long term in duration; hence this impact is significant.

#### 7.2.2.1.5 Impact due to Multi Hazard (Earthquake, and Fire Hazards) Risks

The probability of disasters like earthquakes, urban flooding, fires, lightning, etc. is very high in multi-story buildings. The possibility of losing lives and properties is higher due to a large Project structure in context of Nepal. For this Project, the maximum height of the building is 38m. Thus, disaster mitigation and preparedness hold a high significance. Earthquake and fire safety been the proponent's prime concern for the disaster management. The proponent will design procedures to identify potential emergency conditions and response to the disaster. NPA buildings will be designed as earthquake resistant and maintain emergency safety instruments and alarms in the buildings. The envisaged impact is indirect in nature, low in magnitude, local in extent, long term in duration; hence this impact is significant.

## 7.2.2.2 Biological Environment

## 7.2.2.2.1 Impact due to Spillage of Chemicals Solvents into the nearest Punyamata Khola

Discharging of untreated wastewater into the Punyamata Khola directly leads to spread of infectious diseases will be high and deteriorate the aquatic habitat in the lower stream area from the Project site. For this Project, NPA will adopt MBBR technology to treat wastewater before discharging it to the Punyamata Khola which is acceptable for aquatic life habitat. The envisaged impact is indirect in nature, moderate in magnitude, local in extent, long term in duration; hence this impact is significant.

#### 7.2.2.3 Socio-Economic and Cultural Environment

## 7.2.2.3.1 Impact due to Accessibility on use of Public Infrastructure

After Project undergoes operation, the road inside the Project boundary used by Dalinchowk community will be permanently closed. The local community will have to use alternative public road which is longer and consume more time. Also, with the increment of traffic at the western side (entrance area) the accessibility for vehicular movement for the local will be disturbed. *The envisaged impact is direct in nature, high in magnitude, local in extent, long term in duration; hence this impact is significant.* 

#### 7.2.2.3.2 Issues of Livestock Grazing and Rearing

Majority of people living nearby the Project area are actively engaged in agriculture and livestock rearing. Once they are prohibited in access for cattle grazing inside the forest and utilization of forest resources it will create an adverse impact in their livelihood for which they will have to adopt other alternatives for subsistence. The envisaged impact is indirect in nature, low in magnitude, local in extent, and long term in duration; hence this impact is significant.

#### 7.2.2.3.3 Impact due to Haphazard Market Growth

The consumption of goods and services will rise due to the flow of police personal and other population nearby the Project area. This will stimulate trade and market penetration in the peripheral area of the Project. *The envisaged impact is indirect in nature, low in magnitude, local in extent, and long term in duration; hence this impact is significant.* 

## 7.2.2.3.4 Impact on Land and Population

Impact on land and its impact on population were likely to observe in Project area. Increase in economic activities and improvement in public infrastructure will likely attract entrepreneur. This will increase the flow of population and force for land fragmentation for migrated population nearby Project area. The envisaged impact is indirect in nature, moderate in magnitude, local in extent, long term in duration; hence this impact is significant.

**Table 7.2-1:** Evaluation of Adverse Impact

Issues	Impacts		Environmen	tal Impacts		Total	Significance of
	Impacts	Nature	Magnitude	Extent	Duration	Score	Impacts
<b>Construction Phase</b>							
Physical and Chemical Environme		1	l	T	T	ľ	1
Impact on Topography and Geology (Erosion/Landslide/Embankm ent)	Project site is located in the forest area and barren (previously used as cultivated land before acquiring from NPA) land, but there is a probability of landslide adjacent to the western lower part of Project site along Punyamata Khola due to the excavation and construction work	D	M (20)	SS (10)	ST (05)	35	Insignificant
Impact due to Construction     Waste	Construction waste includes debris, broken brick pieces, left out/non-usable reinforcement bars, sand, stone, waste cement, sand mix and packing materials and spoil generated from excavation. If construction waste does not manage properly can cause problems to the local environment.	D	H (60)	SS (10)	ST (20)	90	Very Significant
3. Impact due to Air Pollution	Activities like site clearance use of heavy	D	H (60)	Lo (20)	ST (05)	85	Very Significant

<b>T</b>	T		Environmer	ntal Impacts		Total	Significance of
Issues	Impacts	Nature	Magnitude	Extent	Duration	Score	Impacts
	vehicles and machinery will significantly contribute to air pollution.						
4. Impact due to Noise Pollution	The most commonly reported impacts of increased noise levels are interference in oral communication and disturbance in sleep.	D	H (60)	SS (10)	ST (05)	75	Significant
5. Impact due to Water Pollution	Waste generated from construction activities will contaminate water source if not managed properly.	D	M (20)	SS (10)	ST (05)	35	Insignificant
6. Impact due to Soil Contamination	Transportation of spoil generated from earth work and the accumulation of solid waste during the Project's construction phase, which consists of debris with pieces of wood, brick, stone, and metal, as well as plastics, broken glass, hazardous lead-based paint residues, paints and solvents, cement, diesel fuel, oil, heavy metals, floor cleaning	D	M (20)	SS (10)	ST (05)	35	Insignificant

Issues	Imports		Environmen	Total	Significance of		
Issues	Impacts	Nature	Magnitude	Extent	Duration	Score	Impacts
	solvents and ceramics are likely to cause soil pollution.						
7. Impact due to Ground Water Extraction	If the withdrawal rate exceeds the recharge rate, there will be a chance of groundwater depletion in the surrounding area.	D	M (20)	Lo (20)	ST (05)	45	Insignificant
8. Impact due to Stockpiling of Construction Material	Construction materials such as soil, gravel, sand, aggregates, etc., or excess material are usually stockpiled within the construction site. This may lead to blowing away of the dust particles. Heavy rain also can wash away the finer particles and pollute surface water.	I	Lo (10)	SS (10)	ST (05)	25	Insignificant
<b>Biological Environment</b>							
Impact due to Loss of     Vegetation and Forest Land	299 tree/poles will need to be clearly felled from 6.7ha forest land during the construction of proposed Project	D	H (60)	SS (10)	ST (05)	75	Significant
2. Impact due to Loss of Habitat	6.7ha of forest area (3.6ha from Devisthan (Kha) Community Forest and 3.1ha from National	D	H (60)	SS (10)	ST (05)	75	Significant

T	T4		Environmer	Total	Significance of		
Issues	Impacts	Nature	Magnitude	Extent	Duration	Score	Impacts
	Forest). Low recorded population of Barking Deer in the Project region will be shifted to adjoining location of Devisthan (Kha) Community Forest area as it is disturbed by the frequent vehicle movement; noise from heavy machines in the vicinity Since the construction nature is of point Project activities there will be negligible impact to Phulchowki Mountain	Nature	Magnitude	Extent	Duration	Score	Impacts
3. Impact due to Forest Fire Hazards  Socio-Economic and Cultural Env	Forest diversity.  Burning forest vegetation, bushes and shrubs, spillage of inflammable solvents leads to fire in the forest area	D	Lo (10)	Lo (20)	ST (05)	35	Insignificant
2010 Zeonomie una Cartarai III	Water supply from Kuwa						
Problem in Use of Spring     Well and Prohibition of     Livestock Grazing	for the locals (15 Households including Gorakhnath Primary School) and cattle grazing along with forest resource collection by	D	M (20)	SS (10)	ST (05)	35	Insignificant

Tannag	Imamo ata		Environmer	tal Impacts		Total	Significance of	
Issues	Impacts	Nature	Magnitude	Extent	Duration	Score	Impacts	
	the users will be impacted							
Issues During Demarcation of Project Boundary	The mobility of people through the Project boundary will be stopped leading people to take a long way to travel/walk to reach the community from the main Banepa-Khopasi Road.	D	H (60)	SS (10)	ST (05)	75	Significant	
3. Child Labor and Discrimination towards Women Labor	Gender pay differentials will be predominant factor while engaging women and prevalence of using child might be expected	Ι	L (10)	SS (10)	ST (05)	25	Insignificant	
Impact due to Conflict     between Workers and Local     People	Deployment biasness and unequal opportunities, influx of labors from outside the Project area, harassment, alcoholism, prostitution and disrespecting local customs, norms, and religion, sharing of resources like drinking water will arise conflicts among the labors and locals.	D	M (20)	Lo (20)	ST (05)	45	Insignificant	
Impact due to Accessibility on use of Public Infrastructure	With the implementation of Project People using the Punyamata corridor	D	H (60)	Lo (20)	ST (05)	85	Very Significant	

Issues	Impacts		Environmen	ntal Impacts		Total	Significance of
Issues	Impacts	Nature	Magnitude	Extent	Duration	Score	Impacts
	road will be somehow inaccessible, the internal access road previously used will be closed, the adjoining Muktinath Temple and Bichari Pati and crematorium ground near Punyamata Khola opposite to Project site might get influenced during the construction work.						
6. Impact due to Occupational Health and Safety	Prolonged exposure to smoke and dust and heavy lifting poses several health problems such as respiratory problems, eye diseases, skin related issues, body pain, severe physical impairment	D	H (60)	Lo (20)	ST (05)	85	Very Significant
7. Impact due to Traffic Congestion	Lack of proper parking area and highly movement of vehicles at the entrance of Project site where bridge was proposed, traffic will be high	D	H (60)	SS (10)	ST (05)	75	Significant
Operation Phase							
Physical and Chemical Environme			1	1			T
1. Impact due to Noise Pollution	Parade activities, firing activities, motor garage,	D	M (20)	Lo (20)	LT (20)	60	Significant

Issues	Impacts		Environmer	ntal Impacts		Total	Significance of
Issues	Impacts	Nature	Magnitude	Extent	Duration	Score	Impacts
	and movement of vehicles are the prominent source of noise						
2. Impact due to Water Pollution	Sewerage and waste water generated from residential building and floor cleaning solvents and paints, motor garage, horse stable and dog kennel, laboratory, and laundry are major source of water pollution	D	M (20)	Lo (20)	LT (20)	60	Significant
3. Impact due to Ground Water Extraction	At an average of 435000liter water will be extracted on a daily basis could deplete the aquifer for the water source of the bore well	D	M (20)	Lo (20)	LT (20)	60	Significant
Impact due to Solid and E- Waste Generation	Waste generated from 3450 police personals and visitors and e-waste from administrative related works will generate huge amount of waste	I	M (20)	SS (10)	LT (20)	50	Significant
5. Impact due to Multi Hazard (Earthquake, and Fire Hazards) Risks	Probability of disasters like earthquakes, fires, lightning, etc. is very high in multi-story buildings in context of Nepal. For this Project,	I	Lo (10)	Lo (20)	LT (20)	50	Significant

Tamas	Impacts	<b>Environmental Impacts</b>				Total	Significance of	
Issues		Nature	Magnitude	Extent	Duration	Score	Impacts	
	the maximum height of the building is 38m							
Biological Environment								
Impact due to Spillage of     Chemicals Solvents into the     nearest Punyamata Khola	Discharging of untreated wastewater into the Punyamata Khola directly leads to spread of infectious diseases will be high and deteriorate the aquatic habitat in the lower stream area from the Project site	Ι	M (20)	Lo (20)	LT (20)	60	Significant	
Socio-Economic and Cultural Envi	ronment	•		•		1		
Impact due to Accessibility of Road	The road inside the Project boundary will be prohibited for use and with the increment of traffic at the western side (entrance area) the accessibility for vehicular movement for the local will be disturbed	D	H (60)	Lo (20)	LT (20)	100	Very Significant	
2. Issues of Livestock Grazing and Rearing	Once nearby community people are prohibited in access for cattle grazing inside the forest and utilization of forest resources it will create an adverse impact in their livelihood for which they	Ι	Lo (10)	Lo (20)	LT (20)	50	Significant	

Lagrana	Turno ata	Environmental Impacts				Total	Significance of
Issues	Impacts	Nature	Magnitude	Extent	Duration	Score	Impacts
	will have to adopt other alternatives for subsistence						
3. Impact due to Haphazard Market Growth	Consumption of goods and services will rise due to the flow of police personal and other population nearby the Project area	I	Lo (10)	Lo (20)	LT (20)	50	Significant
4. Impact on Land and Population	Increase in economic activities and improvement in public infrastructure will likely attract entrepreneur and force for land fragmentation for migrated population	I	M (20)	Lo (20)	LT (20)	60	Significant

## CHAPTER 8: MEASURES ADOPTED TO ENHANCE POSITIVE IMPACT AND MITIGATE ADVERSE IMPACT

An Environmental Management Plan is prepared to enhance beneficial impacts and mitigate adverse impacts during the construction and operation phase of the proposed NPA Project in Kavreplanchowk district as:

## 8.1 Enhancement Measures of Beneficial Impacts

In this section, enhancement measures are proposed. Enhancement measures contribute to positive impact. Their objective is to maximize project benefits. Detail of Matrix for summary of Impact Level Assessment are given in **Table 8.1-1**.

Table 8.1-1: Environmental Management Plan for Enhancement of Beneficial Impacts

				11/1 4 -		Estimated Cost	Responsible Agency	
No.	Impacts	Measures	Monitoring of Impact	Where to Implement	Duration	Estimated Cost (NPR)	Implementation Agency	Supervision Agency
В	Beneficial Impacts							
В-С	Construction Phase					<del>-</del>		
B.C.1	Employment Opportunity	<ul> <li>484 workforce per day or 242 (50%) each skilled and unskilled workforce will get opportunity on daily basis.</li> <li>Locals including Project-affected communities, local deprived, marginalized groups and women will be encouraged to participate in construction works and give first priority for work.</li> </ul>	Inspect & confirm labor related clauses are adequately stated in Contractor's Contract Document	Project Area	Construction Phase	No additional cost associated	Contractor/Sub- Contractor	NPA Project
B.C.2	Increase in Economic Activities	<ul> <li>Include binding clause in Contractor's Contract         Document to give priority for local people with govt.         accepted wage and recruit local labor impartially without favor or gender discrimination     </li> <li>Priority will be given to the products and materials that are locally available</li> </ul>	<ul> <li>Site inspection &amp; labor interview</li> <li>Verify with contractor's payroll</li> </ul>	Project Area	Construction Phase	No additional cost associated	Contractor/Sub- Contractor	NPA Project
B.C.3	Technical Skill Enhancement	<ul> <li>Provide on-the-job training and practical training to local workforce on operation of equipment &amp; construction works.</li> <li>Include binding clause in Contractor's Contract Document for providing on-the-job training to local workforce based upon qualification required</li> </ul>	<ul> <li>Inspect related clause in Contractor's Contract Document</li> <li>Inspect Contractor's Training to labors details</li> <li>Site inspection &amp; labor interview</li> </ul>	Project Area	Construction Phase	No additional cost associated instead additional cost for consulting engineer shall be embedded in BoQ as required	Contractor/Sub- Contractor/ Supervision Engineer	NPA Project
В-О	Operation Phase							
B.O.1	Increase in the Local Economy	• Opportunities to establish offices, shops, and restaurants, which will serve the increased number of people who do business in the NPA, Dalinchowk	• Inspect enhancement / increase in local economic / business activities within influence areas	Project Area	Operation Phase	No additional cost associated	NPA	Panauti Municipality
B.O.3	Increase in Aesthetic and Environmental Value	Establishment of NPA at Panauti, and use of combined civil and bioengineering will increase the aesthetic and environmental value	• Check whether the proposed civil, bioengineering activities, water quality, noise level, waste management practices are in line with design and national standard	Project Area	Operation Phase	No additional cost associated	NPA	MoFE/ Panauti Municipality
B.O.3	Increment of Land value	• Land near the Project area can be used to establish offices, shops, and restaurants, which will serve the increased number of people who do business in the NPA, Dalinchowk	Inspect the trend of establishment of facilities and rate of land nearby	Around Project area and project-affected municipality	Operation Phase	No additional cost associated	NPA	Panauti Municipality
B.O.4	Increase in Market Facilities	• Establishment of public related facilities like communication centers, stationaries, sports related goods and services, health facilities, standard restaurants and	• Inspect the trend of establishment of facilities	Project Area	Operation Phase	No additional cost associated	NPA	Panauti Municipality

			Where	Where to	re to	to	<b>Estimated Cost</b>	Responsible Agency	
No.	Impacts	Measures	Monitoring of Impact	Implement	Duration	(NPR)	Implementation	Supervision	
				Implement		(141 14)	Agency	Agency	
		hotels, groceries and etc will be increase							
B.O.5	Benefits from Community Social Program (CSP) of the Project	Communities will be benefitted from improved security concerns, hazard management support, reliefs, development of community infrastructures and so on.	• Inspect & confirm CSP related clauses are adequately fulfilled as per understandings up to possible	Project Area	Operation Phase	Additional cost will be required as per technical evaluation and shall be included in contract document	NPA	MoHA/Panau ti Municipality	
B.O.6	Enhancement of Skill and Capacity of Nepal Police	With the improved administrative practices focuses on enhancing qualitative instructors and the trainings to bring about improvements on administrative, investigative and overall levels of the police professionals' capacity to tackle the global security challenges	Inspect and review of Project document related to the participated police personal and other civil staffs that have been provided with advance capacity training modules	Project Area	Operation Phase	Additional cost will be required as per technical evaluation and shall be included in contract document	NPA	МоНА	

## 8.2 Mitigation Measures of Adverse Impacts

In this section, mitigation measures are proposed. Mitigation measures imply to minimize possible adverse impacts. Mitigation measures include reduce, avoid or offset the potential adverse environmental consequences of development activities. Their objective is to minimize undesirable impacts. Detail of Matrix for summary of Impact Level Assessment are given in **Table 8.2-1**.

**Table 8.2-1: Environmental Management Plan for Mitigation of Adverse Impacts** 

No.	Impacts	Measures	Where to Implement	Duration	Estimated Cost (NPR)	Responsible	Agency	
						Implementation Agency	Supervision Agency	
A	Adverse Impacts			•				
A-C	<b>Construction Phase</b>							
A-C-P	Physical and Chemical En	vironment						
A-C-P.1	Impact on Topography and Geology (Erosion/Landslide/Emba nkment)	<ul> <li>Installation of slope and stabilizing embankment at Punyamata Khola in the upstream area adjoining to firing range area with appropriate measures.</li> <li>Adoption of bioengineering in the landslide-prone area and plantation of trees and/or maintain greenery in every appropriate open spaces.</li> <li>Labor and machine will be used in order to maintain cut slope angle which will prevent subsequent landslide of fresh cutting hill area.</li> </ul>	Entire Project construction site	Construction Phase	3,500,000	Contractor/Sub- Contractor/ Supervision Engineer	NPA Project	
A-C-P.2	Impact due to Construction Waste	<ul> <li>Preparation of Construction Waste Management Plan (CWMP) by contractor and get approved from NPA.</li> <li>Construction waste generated during the construction phase will be separated and reused as far as possible</li> <li>Spoil generated from the excavation of earth work shall be reused or disposed of to a designated area within the Project boundary.</li> <li>Waste oil of the construction machines is collected and disposed in a leak free container and international best practices.</li> <li>Domestic solid wastes (biodegradable) shall be collected and managed by the contractor within the Project construction boundary in daily basis, packing materials leftover reinforcement bars will be sold to the vendor and rest waste will be disposed to the landfill site in coordination with Panauti Municipality.</li> <li>Spoil generated during excavation for construction of NPA building will be safely stockpiled in proper places and such materials will be used for ground leveling.</li> <li>Develop and implement waste management "Code of Conduct" and enforce strict penalty to violator of "Code of Conduct".</li> </ul>	Site clearance, construction work sites, labor camps, workshops, material storage sites, crusher locations, spoil disposal sites and entrance area	Construction Phase	500,000	Contractor/Sub- Contractor/ Supervision Engineer	NPA Project	

			Where to		<b>Estimated Cost</b>	Responsible Agency		
No.	Impacts	Measures	Implement	Duration	(NPR)	Implementation Agency	Supervision Agency	
A-C-P.2	Impact due to Air Pollution	<ul> <li>Contractor will carry out dust protection measures during site clearance, and building construction, such as periodical (at least twice a day) water spray, covering on construction material, etc. Following, water sprinkling shall be carried out at the entrance point of the Project site in connection part to the Banepa-Khopasi Road.</li> <li>Mask will be provided to the workers deployed in dusty construction sites.</li> <li>Loading and unloading of dusty materials will be handled carefully.</li> <li>Open defecation from workforce will be strictly restricted, and sufficient temporary toilets for workforce will be constructed within a distance of 50-100m.</li> <li>Heavy vehicles and diesel generators will be maintained regularly and in adequate working conditions.</li> <li>The supervision consultant will monitor dust, exhaust gas and complaint from the local people. If the local residents and pedestrians complain about the dust and gas, the supervision consultant and contractors should reconsider the construction technique and method.</li> </ul>	Site clearance, construction work sites, labor camps, workshops, material storage sites, crusher locations, spoil disposal sites and entrance area	Construction Phase	2,500,000	Contractor/Sub- Contractor/ Supervision Engineer	NPA Project	
A-C-P.3	Impact due to Noise Pollution	<ul> <li>Contractor will fit stone crushing equipment with approved dust control devices and operated in accordance with manufacturer's specifications. Contractor will establish crusher plant only at the selected and identified sites. Crusher plant Stone Crushing Plant should be operated only during daytime.</li> <li>Construction machines shall be well maintained and checked every day.</li> <li>Information disclosure includes construction schedule and activities in advance to the surrounding community.</li> <li>The noise level will be monitored weekly during the project construction stage to ensure that the noise level will not exceed government standards.</li> <li>Pressure horns will be strictly prohibited in and around the project area.</li> <li>Less noise emitting Diesel generators will be used.</li> <li>Ear mufflers will be provided to the construction workers and other associated staffs.</li> </ul>	Entire Project construction site	Construction Phase	1,000,000	Contractor/Sub- Contractor/ Supervision Engineer	NPA Project	
A-C-P.4	Impact due to Water Pollution	<ul> <li>Turbid water from unpaved construction area shall be treated in sedimentation pond.</li> <li>Waste oil of construction machines shall be stored and disposed into the designated container.</li> <li>Construction machines shall be maintained not to leak oil in the labor camp site.</li> <li>Provision of adequate sanitation facilities shall be ensured at an appropriate distance from the construction work sites.</li> <li>Wastewater from the construction area shall be treated and discharged to the designated site and facilities so that contamination of ground water shall be avoided.</li> <li>Direct cleaning of vehicles or equipment shall be prohibited nearby the water Kuwa and Punyamata Khola area.</li> <li>Seepage of hazardous liquid will be immediately controlled to prevent groundwater pollution.</li> <li>The mixing of construction materials and paint, grease, etc. will be handled appropriately.</li> <li>Spoil disposal over the edge of the embankment area of Punyamata Khola is strictly prohibited.</li> <li>The concerns body shall made obligation to contractor for solid waste management work being implemented as in the clause of Solid Waste Management Act 2011.</li> </ul>	Entire Project construction site	Construction Phase	No additional cost associated	Contractor/Sub- Contractor/ Supervision Engineer	NPA Project	

		!	Where to		<b>Estimated Cost</b>	Responsible Agency		
No.	Impacts	Measures	Implement	Duration	(NPR)	Implementation Agency	Supervision Agency	
A-C-P.5	Impact due to Soil Contamination	<ul> <li>Polluted soil shall be treated and used as construction material.</li> <li>Construction machines shall be maintained not to leak oil on the construction site.</li> <li>Waste oil of construction machines shall be stored and disposed into the designated container.</li> <li>Seepage of hazardous liquid will be immediately controlled to prevent groundwater pollution.</li> <li>Construction materials will be kept at stockpiling site.</li> <li>Materials like grease, oils, and spoils will be properly handled.</li> <li>Preparation of clear guidelines of handling, collection, storage, management and reuse of top soil.</li> </ul>	Entire Project construction site	Construction Phase	No additional cost associated	Contractor/Sub- Contractor/ Supervision Engineer	NPA Project	
A-C-P.6	Impact due to Ground Water Extraction	<ul> <li>Rainwater harvesting technology will be adopted.</li> <li>Recharge pits will be constructed to recharge the groundwater.</li> <li>Groundwater extraction permit will be taken from the Panauti Municipality.</li> <li>Open barren space will be maintained greenery to increase the infiltration capacity of the soil.</li> </ul>	Entire Project construction site	Construction Phase	No additional cost associated	Contractor/Sub- Contractor/ Supervision Engineer	NPA Project	
A-C-P.7	Impact due to Stockpiling of Construction Material	<ul> <li>Contractor will select the stockpiling sites that are proposed in this report in previous chapter.</li> <li>Located away from cultivable lands and settlements, drinking water (Kuwa), public places, school and health centers and nearby Punyamata Khola.</li> <li>Only allocated sites will be used for the stockpiling of construction materials to avoid unintended loss and quality degradation.</li> <li>Avoid the formation of ditches and pounding at the stockpiling site.</li> </ul>	Entire Project construction site	Construction Phase	No additional cost associated	Contractor/Sub- Contractor/ Supervision Engineer	NPA Project	
A-C-B.	<b>Biological Environment</b>			ı				
A-C-B.1	Impact due to Loss of Vegetation and Forest Land	<ul> <li>Unnecessary clearance and use of forest area will be controlled to conserve natural forest stand. Emphasis will be given to construct buildings in phase wise.</li> <li>Compensatory re-plantation of 2990 trees sapling at the ratio of 1:10 will be done for loss of 299 trees and per hectare use for 6.7ha forest land in ratio of 1600 equivalent to 10,720 trees will be planted and conserved. Re-plantation will be carried out within the barren area of the affected Devisthan (Kha) Community Forest in close coordination with Sub Division Forest Office located at Khopasi and Devisthan (Kha) CF.</li> <li>Felling of other trees with NTFP value situated within the CF shall be avoided as far as applicable.</li> <li>Contractor will provide legal sources of energy in labor camps.</li> </ul>	Forest area within the Project construction site	Construction Phase	3,295,000	Contractor/Sub- Contractor/ Supervision Engineer	NPA Project	
A-C-B.2	Impact due to Loss of Habitat	<ul> <li>The Contractor documents must include provisions to restrict work forces with regard to forest product and other wildlife illegal collection and trade activities.</li> <li>The Project will closely coordinate with Sub Division Forest Office located at Khopasi and CFs to control illegal poaching and trapping by other outside wildlife poachers and traders.</li> <li>Awareness raising activities will be organized.</li> <li>Capacity building training modules on forest management and adopting alternatives to forest resources will be provided to Devisthan (Kha) CF users in coordination with Sub Division Forest Office, Khopasi.</li> <li>The biodiversity and habitats present in Phulchowki do not appear to require any other specific mitigation measures as it is located outside the indirect impact zone.</li> </ul>	Forest area within the Project construction site	Construction Phase	2,500,000	Contractor/Sub- Contractor/ Supervision Engineer	NPA Project	
A-C-B.3	Impact due to Forest Fire Hazards	The storage of highly inflammable fuel and oil shall be done in proper place in maintained environment.	Forest area within the	Construction Phase	2,000,000	Contractor/Sub- Contractor/	NPA Project	

			<b>1171</b> 4 -		Estimated Cost	Responsible Agency	
No.	Impacts	Measures	Where to Implement	Duration	Estimated Cost (NPR)	Implementation Agency	Supervision Agency
		<ul> <li>Illegal entry of construction labors into the adjoining forest area shall be prohibited.</li> <li>Awareness raising activities will be organized in toolbox meeting to labors.</li> <li>Ensure that the static water of 50KL is available for the unintended possible fire hazards within the construction site.</li> </ul>	Project construction site			Supervision Engineer	
A-C-S.	Socio-Economic and Cultu	ral Environment		•			
A-C-S.1	Problem in Use of Spring Well and Prohibition of Livestock Grazing	<ul> <li>A separate water reservoir tank will be built outside the compound of NPA to make access to the use of Kuwa water</li> <li>Income Generation Program will be provided to the user household who were affected after prohibition of Livestock Grazing.</li> </ul>	Dalinchowk Community including Basnet Gaun	Construction Phase	Additional cost will be required as per technical evaluation and shall be included in contract document	Contractor/Sub- Contractor/ Supervision Engineer	NPA Project/Panauti Municipality
A-C-S.2	Issues During Demarcation of Project Boundary	<ul> <li>Clear communication with stakeholders such as adjacent property owners, community representatives, and local authorities will be made as this is critical to ensure that demarcation of the project boundaries is done correctly and without dispute.</li> <li>Proper surveying of the project site shall be completed and is essential to ensure that the boundaries are correctly identified and marked. The use of GPS and other advanced surveying technologies can help ensure accurate demarcation of project boundaries.</li> <li>Compliance with all legal requirements and regulations regarding demarcation of project boundaries will help to prevent disputes and legal challenges.</li> <li>Regular monitoring of the demarcated boundaries throughout the construction process shall help ensure that they are maintained and respected.</li> </ul>	Project area	Construction Phase	No additional cost associated	Contractor/Sub- Contractor/ Supervision Engineer	NPA Project/Panauti Municipality
A-C-S.3	Child Labor and Discrimination towards Women Labor	<ul> <li>Clear and fair hiring policies shall be established to prohibit the hiring of children and ensure equal opportunities for women in the construction phase.</li> <li>Background checks on employees shall be conducted to verify age and ensure that they are legally allowed to work.</li> <li>Training and education shall be provided to workers and management to raise awareness of child labor and gender discrimination issues.</li> <li>Inspections by third-party auditors shall be performed in regular basis to ensure compliance with labor laws and ethical work practices.</li> <li>Working with local governments shall be ensured to enforce labor laws and improve working conditions for construction workers.</li> </ul>	Project area	Construction Phase	1,000,000	Contractor/Sub- Contractor/ Supervision Engineer	NPA Project/Panauti Municipality
A-C-S.4	Impact due to Conflict between Workers and Local People	<ul> <li>Preparation of Grievance Redress Mechanism Plan (GRM) by contractor and get approved from NPA.</li> <li>Relationships with Panauti Municipality shall be done and engage them in the decision-making process shall be helpful gain their support.</li> <li>Clear and fair hiring policies shall be ensured through prioritizing local workers which help to foster a sense of ownership and concerns in the project by the local community.</li> <li>A code of conduct for workers shall be established that outlines acceptable behavior and prohibits any actions that may cause conflict with the local community.</li> <li>A clear conflict resolution mechanism shall be established to address any issues that may arise between workers and the local community.</li> </ul>	Project area	Construction Phase	1,000,000	Contractor/Sub- Contractor/ Supervision Engineer	NPA Project/Panauti Municipality
A-C-S.5	Impact due to Accessibility on use of Public Infrastructure	<ul> <li>Proper coordination with Panauti Municipality shall be done and engage them in the decision-making process for addressing the social issues raised during consultation meetings and public hearing.</li> <li>With the establishment of NPA in Panauti and existing heavy traffic due to normal</li> </ul>	Project nearby areas	Construction Phase	Additional cost will be required as per technical evaluation and shall be included	Contractor/Sub- Contractor/ Supervision Engineer	NPA Project/Panauti Municipality

	Impacts Measures	Where to		Estimated Cost	Responsible Agency		
No.		Measures	Implement	Duration	Estimated Cost (NPR)	Implementation	Supervision
			Implement		` ´	Agency	Agency
A-C-S.6	Impact due to Occupational Health and Safety	transportation and nearby Khopasi quarry site, the traffic congestion ultimately will increase; and hence upgradation of Punyamata Khola Corridor road will be upgraded to feeder road standard as far as possible.  The adjoining Muktinath Temple, Bichari Pati and crematorium ground near Punyamata Khola opposite to Project site shall be rehabilitated.  Formation of User Response Committee (URC) will be established to deal with the community level issues.  Preparation of Occupational Health and Safety Plan (OHSP) by contractor and get approved from NPA.  Working safety measures will be executed by the contractor to workers providing ample numbers but not limited to helmets, boots, rubber gloves, and masks as required.  Life of worker will be ensured by maintaining Life insurance of each worker of the project.  First aid facilities for the workers will be provided at working sites as well as at labor camp sites.  One qualified nurse or first aider will be present at all times.  Routine check-ups of labors will be performed; this will be at least once per week for each labor workers.  Existing local tracks and vehicle tracks will be affected and may need to be either closed temporarily or synchronize with the construction vehicles. For this, advance notice should be circular within the concerned immediate wards of Panauti Municipality.  Installation of safety sign board such as speed limit and specific construction activities area in the Project area.	Entire within the Project construction site	Construction Phase	in contract document  2,000,000	Contractor/Sub-Contractor/Supervision Engineer	NPA Project/Panauti Municipality
A-C-S.7	Impact due to Traffic Congestion	<ul> <li>children</li> <li>Installation of lightning facility in the night time in the construction area</li> <li>Restricting mobilization speed less than 20km/h in the construction site.</li> <li>The provision of diversion, safe and convenient lanes marks and pedestrian crossings shall be installed and done.</li> <li>Intelligent transportation systems such as traffic signal and incident management will help to reduce congestion and improve traffic flow.</li> <li>Awareness raising campaigns for drivers on how to drive more efficiently, such as avoiding idling and accelerating and braking smoothly shall help in minimizing traffic congestion and accidents.</li> </ul>	Project area	Construction Phase	500,000	Contractor/Sub- Contractor/ Supervision Engineer	NPA Project/Panauti Municipality
		<ul> <li>Deploying flag-man at the entrance area at Banepa-Khopasi Road section.</li> <li>Preparation of Traffic Management Plan (TMP) by contractor and get approved from NPA.</li> </ul>					
A-O	Operation Phase						
A-O-P	Physical and Chemical En				T	T	T
A-O-P.1	Impact due to Noise Pollution	<ul> <li>Suggest to organize parade, and firing workout cum training time schedule only in day time.</li> <li>Pressure horns will be strictly prohibited in and around the project area.</li> <li>Less noise emitting Diesel generators will be used.</li> <li>Ear mufflers will be provided to the police personals during at the time of firing practices.</li> </ul>	Project area	Operation Phase	No additional cost associated	NPA	MoHA/Panauti Municipality
A-O-P.2	Impact due to Water Pollution	<ul> <li>MBBR technology will be installed to treat sewerage and other liquid waste.</li> <li>Take all the precautions to prevent entering of run-off into Punyamata Khola or</li> </ul>	Project area	Operation Phase	No additional cost associated	NPA	MoHA/Panauti Municipality

			Where to	1	<b>Estimated Cost</b>	Responsible Agency	
No.	Impacts	Measures	Implement	Duration	(NPR)	Implementation Agency	Supervision Agency
		<ul> <li>nearby agricultural land.</li> <li>Install temporary silt traps or sedimentation basins along the channels leading to the water bodies.</li> <li>Remove all wastes and end products immediately.</li> <li>Monitor discharge of sewage including review of environmental compliance conditions.</li> <li>Monitor composting facility practiced within the NPA premises in daily basis.</li> <li>Visual inspection to ensure that glass, plastic and other physical inserts and fragments are absent in compost and it has no offensive smell.</li> <li>Pouring of untreated wastewater into the Punyamata Khola is strictly prohibited.</li> </ul>				V	
A-O-P.3	Impact due to Ground Water Extraction	<ul> <li>Rainwater harvesting technology will be monitored regularly for its performance.</li> <li>Cleaning of recharge pits will be completed under the supervision of subjective experts for the recharge of rainwater into the ground.</li> <li>Open barren space will be maintained greenery to increase the infiltration capacity of the soil.</li> </ul>	Project area	Operation Phase	No additional cost associated	NPA	MoHA/Panauti Municipality
A-O-P.4	Impact due to Solid and E-Waste Generation	<ul> <li>Proper segregation of solid and e-waste shall be maintained using the minimum 3R principle.</li> <li>Selection of appropriate and efficient vendor for the management of e-waste and other recyclable solid wastes.</li> <li>Regular coordination with Panauti Municipality shall be maintained for the management of final waste that need to be sent to the landfill site.</li> <li>Prohibition of dumping of waste haphazardly even within the NPA premises is strictly prohibited.</li> <li>All the required protective equipment shall be provided the waste management workers in need basis.</li> </ul>	Project area	Operation Phase	Additional cost will be required as per technical evaluation and shall be included in contract document	NPA	МоНА
A-O-P.5	Impact due to Multi Hazard (Earthquake, and Fire Hazards) Risks	<ul> <li>Compliance with national building codes and standards is crucial to ensure that the building can withstand the forces of earthquakes and fires.</li> <li>Use of fire-resistant materials in building construction will be given priority such as fire-resistant gypsum board, fire-resistant paint, and fire-resistant insulation can help reduce the spread of fire and minimize damage.</li> <li>HVAC systems, plumbing, and electrical wiring should be designed to minimize damage during earthquakes and fires.</li> <li>Emergency evacuation systems such as staircases, emergency lighting, and fire alarms should be installed and maintained regularly.</li> <li>Police personals should be trained to respond to earthquakes and fires and understand the unique challenges associated with each hazard.</li> <li>Regular inspections shall be done for the identification of potential hazards and allow for timely repair and maintenance.</li> <li>Preparation of separate site-specific Disaster Risk Management Plan (DRMP) by NPA and get approved from MoHA.</li> </ul>	Project area	Operation Phase	Additional cost will be required as per technical evaluation and shall be included in contract document	NPA	МоНА
A-O-B	<b>Biological Environment</b>	O'THE THE TENED OF		<u> </u>			
A-O-B.1	Impact due to Spillage of Chemicals Solvents into the nearest Punyamata Khola	<ul> <li>Proper handling and storage of chemicals and solvents can help prevent spills. The use of leak-proof containers and bunding can help contain any spills that may occur.</li> <li>Regular maintenance of equipment and storage areas can help prevent leaks and spills.</li> <li>Proper cleanup of the spill is essential to prevent further contamination of the environment. Cleanup methods can include the use of absorbent materials, vacuum trucks, or manual removal.</li> </ul>	Project area	Operation Phase	No additional cost associated	NPA	MoHA/Panauti Municipality

			Where to		Estimated Cost	Responsible	Agency
No.	Impacts	Measures	Implement	Duration	Estimated Cost (NPR)	Implementation Agency	Supervision Agency
		<ul> <li>Quick notification of the spill to appropriate authorities, such as local level and wards shall help ensure that the proper response measures are taken.</li> <li>Monitor wastewater quality treated from MBBR plant. Tests at the minimum include measurement of temperature, pressure, contact time, and other routine tests.</li> <li>Pouring of untreated wastewater into the Punyamata Khola is strictly prohibited.</li> </ul>					
A-O-S	Socio-Economic and Cultu			- <b>L</b>			L
A-O-S.1	Impact due to Accessibility of Road	• For the better alternative to previously used public trail road inside the forest area will be managed through upgrading the other existing road in the east, south and north. Construction of new road around the Project boundary seems to be impossible as there is existing road of few long length already that has good connection to Banepa-Khopasi road section.	Dalinchowk Community	Operation Phase	No additional cost associated	NPA	MoHA/Panauti Municipality
A-O-S.2	Issues of Livestock Grazing and Rearing	<ul> <li>Local people will adopt alternative livelihood options (other than livestock Grazing).</li> <li>Skill enhancement training on improved livestock farming and associated options shall be provided</li> </ul>	Dalinchowk Community	Operation Phase	Additional cost will be required as per technical evaluation	NPA	MoHA/Panauti Municipality
A-O-S.3	Impact due to Haphazard Market Growth	• The Municipality shall lay out land use plan and enforce it and avoid haphazard development in the entire area.	Project area	Operation Phase	No additional cost associated	Panauti Municipality	MoHA/Panauti Municipality
A-O-S.4	Impact on Land and Population	• The Municipality shall lay out land use plan and enforce it and avoid haphazard development in the entire area.	Project area	Operation Phase	No additional cost associated	Panauti Municipality	MoHA/Panauti Municipality

#### 8.3 Summary of Mitigation and Enhancement Costs

**Table 8.3-1** summarizes the environmental mitigation and enhancement cost. The total estimated mitigation and environmental enhancement cost is NPR 19,795,000.

**Table 8.3-1: Cost of Other Environmental Mitigation Measures** 

SN	Particulars	Nos. / Units	Amount (NRs.)
1.	Bio-engineering on embankment of Punyamata Khola	LS	3,500,000
2.	Construction waste management	LS	500,000
3.	Air Pollution Management	LS	2,500,000
4.	Noise Pollution Management	LS	1,000,000
5.	Compensatory re-plantation	LS	3,295,000
6.	Forest loss	LS	2,500,000
7.	Forest fire management	LS	2,000,000
8.	Training on child labor and gender issues	LS	1,000,000
9.	Conflict management	LS	1,000,000
10.	Occupational health and safety management	LS	2,000,000
11.	Traffic congestion (awareness raising)	LS	500,000
Total		_	19,795,000

#### 8.4 Disaster Risk Management Plan (DRMP)

Nepal itself lies in the one of the youngest mountain regions of the world. Geologically, the proposed Project site is located between Main Boundary Thrust (MBT) and Main Central Thrust (MCT). This might result in many natural disasters. The recurrent multiple hazards of natural and human induced disasters, like flood, landslide, thunderbolt, fire, road accidents, and epidemics every year within the country suffers from great loss of human lives and damage to properties. The country is mostly affected by natural hazards, like earthquake, flood, landslide, soil erosion, inundation, lightning, drought, snowstorm, hailstorm, avalanche, heavy rainfall, rainfall deficit, windstorm, cold wave, heat wave and forest fire, due to the adverse geography, fragile geology, climate variability and climate change.

To prevent from any unforeseeable disasters, NPA will fully adopt National Building Code (NBC) of Nepal and International Standards (IS) of best practices. The proper security system, alarm and PAS (Public Announcement System) for emergency announce, the lift and proper emergency exits are needed for emergency preparedness which will be adopted within the building structures. There has been provisional opening for emergency exits system through fires safety staircase in order to avoid and reduce accidental hazard.

To prevent any unforeseeable disasters, the listed actions will be undertaken:

- Competency-based training programs about emergency preparedness will be delivered to all personnel, and that all workers are familiar and deemed to be competent with emergency management procedures.
- Emergency response capabilities, which include all fire, medical, and rescue equipment, will be maintained to an operational standard, reviewed, and documented regularly.
  - The employers will be told to comply with all site safety rules and procedures.
  - Be alert at all times to potential hazards.
  - Participate in the identification and elimination of hazards.

- National Policy for Disaster Risk Reduction 2018<sup>12</sup> will be duly adopted in order to substantially reduce the natural and human induced disaster losses in lives and properties of persons, health, means of livelihood and production, physical and social infrastructures, cultural and environmental assets.
- Also, NPA shall have to prepare separate site-specific DRMP and took approval from MoHA during the early stage of operation phase.

Area that needs to be covered within the DRMP should be a comprehensive and dynamic document that outlines a community's approach to reducing the risk of disasters and minimizing their impact. By investing in prevention, preparedness, and response, communities can become more resilient in the face of natural and human-made disasters. Following are the point to be considered from the Project Construction Contractor side while preparing DRMP as:

- i. Risk Assessment: Conduct a thorough assessment of the types of disasters that could occur in the community, including natural disasters such as earthquakes, urban floods, wildfires, as well as human-made disasters such as air and water pollution. The assessment should also identify the population groups that are most vulnerable to these disasters, such as the elderly, children, and people with disabilities.
- **ii. Prevention and Mitigation:** Develop strategies to prevent or mitigate the impact of disasters. This may include measures such as building codes that require new construction to be designed to withstand earthquakes and other hazards, land-use planning to avoid building in areas prone to floods or landslides, and public education campaigns to promote preparedness and reduce risk-taking behavior.
- **iii. Preparedness:** Develop a comprehensive plan for responding to disasters, including procedures for evacuating people from affected areas, providing emergency shelter, and distributing food, water, and other essential supplies. This plan should also include arrangements for communication with the public and for coordinating with emergency responders, such as Panauti Municipality.
- **iv. Response:** Once a disaster has occurred, the plan should outline the procedures for responding to the emergency. This may include setting up emergency operations centers, activating evacuation plans, and coordinating the distribution of resources and services.
- **v. Recovery:** After the immediate response to a disaster is complete, the plan should include provisions for long-term recovery efforts. This may include providing financial assistance to affected police personals or community people, rebuilding damaged infrastructure within the NPA premises, and addressing the mental health needs of those affected by the disaster.
- **vi. Testing and Updating:** The plan should be regularly tested and updated to ensure that it remains effective and relevant. This may involve conducting drills and exercises to simulate different disaster scenarios, as well as reviewing and revising the plan in light of new information or changes in the community's needs.

<sup>&</sup>lt;sup>12</sup> MoHA, 2018: National Policy for Disaster Risk Reduction 2018. The Government of Nepal, Ministry of Home Affairs.

#### 8.5 Traffic Management Plan (TMP)

One of the most crucial components of the entire environmental management plan under this Project is the traffic management plan. Traffic Management Plan (TMP) shall be prepared by contractor and get approved from NPA during the early stage of construction phase. The main objective of this plan is to address transportation system management issues in a comprehensive manner and to put all requirements for the safe transport operation in NPA. The PMU will oversight the TMP. Prior the implementation of TMP, the stakeholder consultation will be held to obtain their views, ideas and such justifiable ideas will be incorporated in TMP. The stakeholders include Panauti Municipality, local community, district line agencies, NPA itself and nearest police post. The office will seek the regular advice and support from Panauti Municipality. Based on the site conditions and nature of the job to be performed at NPA, two human resources in shift basis will be recruited while implementing Traffic Management Plan.

#### 8.6 Grievance Redresses Mechanism (GRM)

Along with construction and operation of NPA the people may have complain on different activities of the Project. Grievance Redress Mechanism Plan (GRM) by contractor and get approved from NPA during the early stage of construction phase. Procedure of recording complain will be established to allow local people, patient and other relevant institution to appeal any disagreeable practice and activities arising from the Project activities. There is the potentiality for grievance related to NPA' CSP activities, community infrastructure and other community related issues. The NPA will formulate the grievance redress committee under Police Inspector (PI) from Project Management Unit (PMU) to resolve complains. The individuals or other stakeholder can lodge his/her complain to NPA office or complaint box. The PI through its staff verifies the issues and gives their decision within 7 days of the compliant register in the office. If the issue is settled, the process ends. If the issue is not solved to the satisfaction, the concern will be forwarded to Senior Management Committee (SMC) of NPA. They verify the issues and call meeting to solve the problem. The SMC will provide its decision to the concerned issues within 15 days of complain received. If the issue is settled, the process ends. If not settled then process continues according to legal provision of GoN.

#### 8.7 Project Management Unit (PMU)

To keep NPA environmentally pleasant, an PMU will take the responsibility to implement the proposed provisions mentioned in EMP and its monitoring. The major duties and responsibilities of PMU will be implementation of overall Project along with the implementation of environmental management plan, regulatory compliance with all relevant rules and regulations, regular operation and maintenance of pollution control devices, minimization of environmental impacts, implementation of environmental monitoring as per approved schedule, documentation of good environmental practices and applicable environmental laws, coordination with regulatory agencies and external consultants, keeping of log book for public complaints and the action taken, formulation of the waste management plan etc.

NPA is committed to establish PMU in order to ensure the execution of environmental protection measures. PMU is the inbuilt mechanism within the NPA that governs the implementation and monitoring of the EPMs. The PMU will focus on compliance

monitoring, record keeping, and providing technical inputs to the contractors. Apart from having an Environmental Management Plan, it is also necessary to have a permanent organizational set up charged with the task of ensuring its effective implementation of mitigation measures and to conduct environmental monitoring.

#### **CHAPTER 9: ENVIRONMENTAL MONITORING PLAN**

According to the EPR, 2020, environmental monitoring is needed. For the purpose of evaluating the project's physical, biological, socioeconomic, and cultural consequences, the proponent will create a thorough monitoring plan that includes baseline, compliance, and impact monitoring. The proponent is committed to implementing an objective-based monitoring system that will allow experts to observe whether or not the mitigation measures recommended in the EIA are being correctly implemented. For monitoring purposes, baseline, compliance, and impact monitoring will all be carried out. The EIA report will also contain an estimated cost for environmental monitoring. The proponent will conduct self-monitoring every six months during the construction and operation phase and submit the report to the concerned agency. The monitoring plan of the project will be given as per the following matrix:

Environmental monitoring of the impact on the environment during the implementation of any proposal is done to achieve the following objectives:

- Not to be affected beyond the limits as prescribed by law
- To check whether the measures taken to reduce the environmental impact have been implemented or not as mentioned in the EIA Report.
- To alert in time about possible environmental damage
- To find out how close the identified and estimated effects are in reality.

#### 9.1 Baseline Monitoring

The fundamental environmental elements of the construction site and its surroundings will be examined prior to beginning work on the proposed proposal. Because of this, it is possible to know about the changes in the environment in terms of monitoring compared to the initial stage. The baseline monitoring will be conducted as shown in **Table 9.3-1**.

#### 9.2 Compliance Monitoring

The primary goal of compliance monitoring in the EIA process is to supply the necessary data to guarantee that the project complies with the promises made during the study. Compliance monitoring employs a periodic sampling or continuous recording of specific environmental indicators or pollution levels, to ensure project compliance with the recommended environmental standards. The compliance monitoring plan is given in **Table 9.3-2**.

#### 9.3 Impact Monitoring

The indicators of the environmental, social, and economic situations, as well as the public health of the area, will be assessed during the project's development and operation in order to identify any environmental changes caused by the implementation of the proposal. The impact monitoring plan is given in **Table 9.3-3**.

The purpose of monitoring is to compare pre- and post-project conditions in the development site. It also compares the predicted and actual impacts. This is especially important in key impacts like water quality, air quality, soil fertility, and endangered species. Some methodology used for monitoring are; Site monitoring/ Observation, inspection / Record keeping/ Photo observation/ Laboratory Test and discussion and interview and so on.

Table 9.3-1: Baseline Monitoring Plan

S.N.	Parameters	Indicators	Methods	Schedule	Location	Responsible agency
1.	Noise Level	Loudness and intensity of noise	Sound Pressure Level Meter	Before construction	In and around the construction site	NPA
2.	Air Quality	TSP, PM <sub>10</sub> , PM <sub>2.5</sub> , CO, SO <sub>2</sub> , NO <sub>2</sub>	Inspection and measurement of data with high volume sampler	Before construction	In and around the construction sites	NPA
3.	Water Quality	Different physio-chemical parameters (turbidity, temperature, DO, BOD, hardness, etc.)	Lab Test	Before construction	Kuwa within the proposed Project premises and Punyamata Khola	NPA
4.	Socio- Economic Survey	Population, Population density, Socio environment, CF's users survey	Review CBS data, ward level profile, FGD, KII, Interview	Before construction	Construction Site	NPA

**Table 9.3-2: Compliance Monitoring Plan** 

Parameter	Indicators	Methods	Duration	Monitoring Frequency	Responsible Agency	Monitoring Agency
<b>Physical Environme</b>	nt					
Implementation of EIA Recommendation regarding design and Facilities in the NPA	Incorporation of EIA recommendation into the Project document, design of infrastructure	Review of the detail design, specification, and tender documents of the project	Construction and operation phase	Once after the project design and completion of tender documents	PMU/ NPA	MoFE, DoEnv, MoHA, Panauti Municipality
Compliance with Environmental Protection Measures, including Pollution Prevention, Water, Soil Protection, Waste Management	Dust level and noise at the construction site, neighboring households, and laborers; fuel, smell, PM <sub>10</sub> , PM <sub>2.5</sub> , TSP, CO, SO <sub>2</sub> , NO <sub>2</sub>	Observation, review of records, measurement, discussion with workers, monitoring using Noise meter and water quality analysis in laboratory	Construction and operation phase	Tri- Monthly	PMU/ NPA	MoFE, DoEnv, MoHA, Panauti Municipality

Parameter	Indicators	Methods	Duration	Monitoring Frequency	Responsible Agency	Monitoring Agency
Ambient air quality	Foul smell, PM <sub>10</sub> , PM <sub>2.5</sub> , TSP, Carbon Monoxide, Suspended particulate matter	Measurement and review of records	Construction and operation	Tri- Monthly	PMU/ NPA	MoFE, DoEnv, MoHA, Panauti Municipality
Solid waste management	Observation during segregation and transportation	Use of separate color-coded dustbins and pit facility for composting	Construction and operation phase	Weekly	PMU/ NPA	MoFE, DoEnv, MoHA, Panauti Municipality
Wastewater management	Water quality parameter of MBBR effluent	Sampling, lab testing, and comparing with generic standard	Construction and operation phase	Yearly	PMU/ NPA	MoFE, DoEnv, MoHA, Panauti Municipality
Water quality parameter	Water quality parameter	Sampling, lab testing, and comparing with NDWQS	Construction and operation phase	Tri- Monthly	PMU/ NPA	MoFE, DoEnv, MoHA, Panauti Municipality
Noise level	Generator, parade and firing	Direct measurement in dB (A) at different points in different time zones using a Sound level meter	Construction and operation phase	Tri- Monthly	PMU/ NPA	MoFE, DoEnv, MoHA, Panauti Municipality
Awareness training, emergency preparedness	Number of training and lists of participants	Observation, interview with staff and consultation with public for its effectiveness	Operation phase	Twice in a Year (Half Yearly)	PMU/ NPA	MoFE, DoEnv, MoHA, Panauti Municipality
<b>Biological Environn</b>					T	
Compensatory plantation, greenery and landscaping design with parking area	Observation of planted area, open space /area allocated, encroachment, illegal entry	Observation at plantation site and cross validation through FGD, KII and inspection of records	Operation Phase	Half Yearly	PMU/ NPA	MoFE, DoEnv, MoHA, Panauti Municipality
Socio-Economic and	Cultural Environme	nt				
Employees to Locals	Number of locals working	Inspection and interviewing with staff	Construction and Operation phase	Yearly	PMU/ NPA	MoFE, DoEnv, MoHA, DCC, Panauti

Parameter	Indicators	Methods	Duration	Monitoring Frequency	Responsible Agency	Monitoring Agency
						Municipality
Occupational Health and Safety Measures	Use of safety equipment/tools Regular health check-ups	Review of records and interaction with workers/ staff	Construction and Operation phase	Half Yearly	PMU/ NPA	MoFE, DoEnv, MoHA, DCC, Panauti Municipality
Use of Child Labor and Gender Violence	Individuals working Complains related to gender violence and records	Interviewing; inspecting NPA GRM records	Construction and Operation phase	Yearly	PMU/ NPA	MoFE, DoEnv, MoHA, DCC, Panauti Municipality
Formation of User Response Committee	Document record	Review of records and minuting	Operation phase	Yearly	PMU/ NPA	MoFE, DoEnv, MoHA, DCC, Panauti Municipality

**Table 9.3-3: Impact Monitoring Plan** 

Parameter	Indicators	Methods	Monitoring Frequency	Monitoring Agency	Responsible Agency
Physical Environment					
Solid Waste Management	Types and quantity of wastes and their management practices, complaints from the local bodies	Inspection, use of separate color-coded dustbins and observe the practice of composting within the premises	Monthly	MoFE, DoEnv, MoHA, Panauti Municipality	PMU/ NPA
Wastewater	Different physio-chemical parameters (turbidity, temperature, DO, BOD, COD, hardness, etc.)	Sampling and laboratory analysis	Tri-Monthly	MoFE, DoEnv, MoHA, Panauti Municipality	PMU/ NPA
Water use and quality for NPA Use	Underground water level and different physio- chemical parameters (turbidity, temperature, DO,	Sampling and laboratory analysis	Tri-Monthly	MoFE, DoEnv, MoHA, Panauti Municipality	PMU/ NPA

Parameter	Indicators	Methods	Monitoring Frequency	Monitoring Agency	Responsible Agency
	hardness, nitrate, Iron, calcium, etc.)				
Air Quality	TSP, PM <sub>10</sub> , PM <sub>2.5</sub> , CO, SO <sub>2</sub> , NO <sub>2</sub>	Measurement by High volume sampler	Tri-Monthly	MoFE, DoEnv, MoHA, Panauti Municipality	PMU/ NPA
Noise Level	Noise level (dB)	Sound level measurement	Tri-Monthly	MoFE, DoEnv, MoHA, Panauti Municipality	PMU/ NPA
Disaster Risk Management System	Awareness to the staff, Information system to the public, provision of fire extinguisher and stocking of water for firefighting, Open space for rescuing.	Observation, interview with staff and public, checking NPA records for activities performed for DRM	Tri-Monthly	MoFE, DoEnv, MoHA, DCC, Panauti Municipality	PMU/ NPA
Topography and geology	Stability of embankment / retaining wall	Condition of embankment / retaining wall	Yearly	MoFE, DoEnv, MoHA, Panauti Municipality	PMU/ NPA
Biological Environme	ent				
Wastewater Discharge to Punyamata Khola	Provision of waste water treatment facility (MBBR)	Sampling and laboratory analysis	Tri-Monthly	MoFE, DoEnv, MoHA, Panauti Municipality	PMU/ NPA
Greenery Area and Landscaping	Plantation activities, gardening, greenery, landscaping	Interviewing; inspecting NPA records	Tri-Monthly	MoFE, DoEnv, MoHA, Panauti Municipality	PMU/ NPA
Socio-Economic and Cu	ıltural Environment				
Local Employment	Number and types of local employees	Review of records	Yearly	MoFE, DoEnv, MoHA, Panauti Municipality	PMU/ NPA
Occupational Health and Safety Measures	Accidents and records	Review of records	Yearly	MoFE, DoEnv, MoHA, Panauti Municipality	PMU/ NPA
Corporate Social Program	Status of public infrastructures rehabilitated and details of program to be implemented under CSP	Observation, review of records, interviews	Yearly	MoFE, DoEnv, MoHA, DCC, Panauti Municipality	PMU/ NPA

# 9.4 Organization and their Roles and Responsibilities for the Project Implementation

There is a necessity to form a proper organizational set up for the effectively implementation of the formulated environmental management and monitoring plan. The elements of this set up will coordinate and work with each other throughout the project, i.e., during pre-construction, construction, and operation stages. The implementation of formulated environmental mitigation measures comes with a cost, so the budgeting of EMP is necessary. The financial source that will provide this budget is discussed in this section. The suggested elements of organizational structure for implementing EMP during construction will be as follows:

- a) Authorized Environmental Agency: Ministry of Forest and Environment (MoFE)
- b) Responsible Agency: Ministry of Home Affairs (MoHA)
- c) Implementing Agency: National Police Academy (NPA)
- d) Division Forest Office (DFO)
- e) Funding Agency Government of India (GoI)
- f) Local Government: Panauti Municipality
- g) Project Management Unit (PMU) under NPA
- h) Construction Supervision Consultant (CSC)
- i) Project Management Consultant (PMC)
- j) Environmental Consultant (EC)
- k) Project Construction Contractor Construction Company (PCC)

Table 9.4-1: Organizations Involved in Environmental Monitoring

Organization	Roles and Responsibilities	
Authorized Environmental Agency (MoFE)	<ul> <li>Inspect and audit periodical environmental monitoring report</li> <li>Inspect the implementation of mitigation measures on site, if required</li> <li>Request for necessary action and additional surveys and implementation of mitigation measures, if required</li> </ul>	
Ministry of Home Affairs	• Implementation of Environmental Monitoring following approved EMP in the EIA	
National Police Academy  • National Police Academy is led by Additional Inspector General of Police who serves as the Executive Director of the Academy.  • NPA is the sole implementing agency of this Project		
Division Forest Office	<ul> <li>Facilitates to the acquisition of the forest land</li> <li>Seals the cutting trees</li> <li>Demarcates the required land as per the approval from GoN</li> <li>Executes the plantation activities as per the forest regulation 2079</li> <li>Does the O &amp; M activities for five years as per forest regulation 2079</li> <li>Periodically checks and controls the undue activities in the forest area.</li> </ul>	
Funding Agency (GoI)	<ul> <li>Review periodical environmental monitoring report</li> <li>Request for necessary action and additional surveys and implementation of mitigation measures, if required</li> </ul>	
Local Government (Panauti Municipality)	<ul> <li>Monitor construction activities</li> <li>Request for necessary action and additional analysis and implementation of mitigation measures, if required</li> </ul>	

Project Management Unit under NPA	<ul> <li>Initiate the coordination process among the concerned organizations (Elements of Institutional Framework) for EMP implementation.</li> <li>Oversee the implementation of the EMP by PMU and CSC</li> <li>Review and approve monthly Environmental Report from CSC and send the report to MoHA and MoFE</li> <li>Preparation of Monitoring Report and Submission to MoFE</li> </ul>
Construction Supervision Consultant	<ul> <li>CSC works in association with Project Construction Contractor (PCC) &amp; the Environmental Consultant (EC) on a full-time basis at the project site office.</li> <li>PMC mainly looks after managing engineering and construction-related activities.</li> </ul>
Environmental Consultant	<ul> <li>EC inspects implementation of mitigation measures and environmental monitoring conducted by PCC.</li> <li>EC reviews and corrects Environmental Monitoring Report (EMR) submitted by PCC and then submits it to PMU after inspection.</li> </ul>
Project Construction Company	<ul> <li>PCC implements approved EMP (mitigation measures) under the observation of PMC &amp; EC.</li> <li>PCC submits EMR for all conducted mitigation measures on-site to the EC on weekly and/or monthly basis</li> </ul>

**Table 9.4-2: Environmental Monitoring Cost Estimate** 

S.N.	Particulars	Input	Rate in	Total in	Remarks
5.14.	1 at ticulars	(MM)	NRs.	NRs.	Kemarks
A.	Baseline Monitoring				
Hum	an Resource Cost				
a.	Environmentalist	1	140,000	140,000	
b.	Sociologist / Socio-economist	1	140,000	140,000	
c.	Biologist / Ecologist and Forest Expert	0.75	100,000	75,000	
d.	Support Staff (8 no. of Research Assistants)	1	30,000	240,000	
e.	Laboratory Analysis Cost	LS		200,000	
f.	Logistics	LS		200,000	
	Total Baselin	ne Monito	ring Cost (A)	995,000	
<b>B1.</b>	Compliance Monitoring by PMU (Total	al for 3 Y	ears)		
Hum	an Resource Cost			40,620,000	
	PMU Chief	36	160,000	5,760,000	
	Environmentalist	36	140,000	5,040,000	
	Biologist/Forestry	24	130,000	3,120,000	
	Sociologist	36	140,000	5,040,000	
	Public Relation Officer	36	120,000	4,320,000	
	Gender	24	120,000	2,880,000	
	Geologist	24	100,000	2,400,000	
	Civil Engineer	36	125,000	4,500,000	
	Administrative Officer	36	120,000	4,320,000	
	Supporting Staff		90,000	3,240,000	
Environment Monitoring Unit/Office/Lab Cost		2,400,000			
Other Monitoring Cost for Concerned Ministries			2,500,000		
	Total Compliance			45,520,000	
B2. Field Measurement and Lab tests Costs (4 times a year)					
a.	Air quality tests	LS		600,000	
b.	Water quality tests	LS		90,000	
c.	Noise Level tests	LS		24,000	

S.N.	Particulars	Input (MM)	Rate in NRs.	Total in NRs.	Remarks
d.	Ground Water Level Monitoring	LS		48,000	
2	Miscellaneous				
a.	Transportation	36	75,000	2,700,000	
b.	Report Preparation		L.S.	50,000	
	Total Impac	t Monitor	ring Cost (B2)	3,512,000	
C.	Impact Monitoring				
Impa	ect Monitoring (for 1 Years)				
Hum	an Resource Cost				
a.	Environmentalist	10	140,000	1,400,000	
b.	Sociologist / Socio-economist	10	140,000	1,400,000	
c.	Biologist / Ecologist	5	100,000	500,000	
d.	Support Staff (6 no. of Research	6	30,000	180,000	
	Assistants)				
e.	Laboratory Analysis Cost		LS	300,000	
f.	Logistics	- <u>-</u>	LS	500,000	
Total Compliance Monitoring Cost (C)			oring Cost (C)	4,280,000	
	<b>Total Monitoring Cost (A+B1+B2+C)</b>			54,307,000	

#### CHAPTER 10: ENVIRONMENTAL AUDITING

The effectiveness of EIA will be successful only when that causes minimal damage to environment with the implementation of Project. Environmental aspect of any sort of project will be triumphant only when a Project interacts positively with environment with its proper management during the time of implementation. According to EPR, 2020, environmental auditing is a crucial component of EIA. The basic objective of project performance audit reports includes a final assessment of the degree to which the project satisfied the proposed environmental requirements, the effectiveness of mitigation measures and institutional development and whether any unanticipated effects occurred as a result of project activities.

Rule 13(1) of the EPR, 2020, the environmental study report of the proposal should be implemented within three years from the date of approval and two years after its implementation, the Ministry of Forests and Environment (MoFE) should conduct an environmental audit within six months after two years of completion and operation of the project as per Section 12(1) of EPA, 2019. However, line agencies like Ministry of Home Affairs (MoHA), Department of Environment (DoEnv) and other relevant organizations will be consulted during audit.

#### 10.1 Objective of Auditing

The main objective of the auditing is to monitor and assess environmental parameters which are most significant with the implementation of this NPA. Whereas, the specific objectives of auditing are as follows;

- To assess actual environmental impacts
- To evaluate the accuracy of prediction of impacts,
- To assess the effectiveness of environmental impact mitigation and augmentation measures and,
- To evaluate the functioning of monitoring mechanisms

#### 10.2 Scope of Auditing

Assessment will aim to focus upon the examination of actual environmental impacts that have changed from the baseline conditions in terms of physical, biological and socio-economic and cultural environment. Further the auditing will aim to assess the overall performance of the project upon environmental protection and management.

The main objectives of Project performance audit report include a final assessment of the degree to which the project satisfied the proposed environmental requirements, the effectiveness of mitigation measures and institutional development, and whether any unanticipated effects occurred due to project activities. Combined with the baseline information, impacts predicted, and mitigation proposed records of both the construction and operation phase as per requirement are the main documents for the environmental auditing.

#### 10.3 Audit Planning

The audit planning of the proposal will involve the following steps:

- Starts with the formation of the audit team, which gathers secondary data on the Project, including EIA reports and regular front-line monitoring reports.
- The audit team reviewed the literature and national environmental requirements for the proposal
- The audit team inform the proponent on the audit of the proposal and request the required information
- The audit team visits the proposal site, records of environmental monitoring (front line monitoring) and observes the proposal activities and their impacts directly
- The audit team interacts with the local people, proposal managers, and members of the proposal Integrated Environmental Management System
- The audit team returns from field visit prepare an audit report, and presents the report to the concerned agencies, the Department of Environment, and the proponent.

#### **10.4** Types of environmental auditing

The different types of environmental auditing are:

- ➤ Decision Level Audit: It examines the effectiveness of environmental impact assessment as a decision-making tool.
- ➤ Implementation Audit: It examines whether the things agreed in the study have been implemented or not.
- ➤ Work Effectiveness Audit: It examine the effectiveness of the work on implementation and management of the proposal.
- ➤ Project Effect Audit: This audit examines the changes that have taken place in environment due to the implementation of the proposal.
- Assessed (Predicted) Technology Audit: It compares the accuracy and usefulness of forecasting technology against the predicted environmental effect.
- ➤ Environmental Impact Assessment Process Audit: It critically examines the methods and approaches adopted during the environmental impact assessment process.

#### 10.5 Aspects of Environmental Audit

- Audited Party: National Police Academy (NPA) and NPA Project is Audited party for the environmental audit of Proposed NPA Project, Kavreplanchowk.
- > Proponent Party: NPA, MoHA
- ➤ Third Party: A third party will be a consulting firm, auditor designated by proponent for environmental audit.

#### 10.6 Environmental Auditing based on Involvement of Party

- ➤ Internal Auditing
- > External Auditing
- Mandatory Auditing
- ➤ Voluntary Auditing

**Table 10.6-1: Environmental Auditing Matrix** 

Parameter	Indicator	Location	Methods
Physical Environment			
Land-Use Change	Construction of the non-residential building, hospital building, residential buildings, firing range, parade ground, helipad, blocks, generator site etc.	Proposed Project Site	Observation, photographs, and records from the NPA
Solid Waste Management	Collection bin, foul-smelling around the NPA	In and around the Project site	Records, local information, photographs, information from NPA
Wastewater Management	Order and color of wastewater	Collection site, drainage	Local people, photographs, observations
Air and Noise Pollution	Emission of dust and air pollution noise pollution	Motor garage, parade ground, firing range ground, and generator site	Local information, photographs, observations
Parking and Traffic Management	Congestion around the NPA site	Parking site	Photographs, interviews, and records
Emergency Preparedness	Installation of fire hydrants, sprinklers fire extinguishers, and emergency exit	In the NPA and floor areas	Photographs, interviews, and records
Use of Groundwater	Amount of groundwater withdrawal and rain harvesting system	In the NPA site	Photographs, interviews, and records
Earthquake and Disaster	Earthquake resistance building	NPA building	Records from structural and architectural drawing
Biological Environment			
Biodiversity	Plantation, greening, gardening and landscaping	Project area	Interview, Measurement, Observation and Photographs
Socio-Economic and Cultural Env	ironment		
Employment Opportunity	Nos. of local labors employed during project construction	In the NPA	Records, local people, records from the NPA
Skill Development of Police Personal and Civil Servant	Nos. of training conducted and employment in post-project phase	In the NPA	Records, local people, records from the NPA
Occupational Health and Safety	Incident of accident and injuries to the labor and local	In the NPA	Local people, records from the NPA
Awareness Training on Emergency Preparedness	Number of training and list of participants	In the NPA	Records from NPA

**Table 10.6-2: Cost Estimation for Environmental Auditing** 

Specifications	Input (mm)	Rate (per month)	Amount (NRs.)	Remarks
<b>Human Resource Cost</b>				
Environmental Management Expert	6	85,000	510,000	
Forestry Expert	3	75,000	225,000	
Sociologist	6	70,000	420,000	
Geologist	3	70,000	210,000	
Reporting, Logistics, etc.	LS		300,000	
Transport	LS		150,000	
Field Sampling and Lab Tests	LS		150,000	
Sub-Total Costs for Environmental Auditing Works			1,965,000	
<b>Auditing Costs for</b>				
Ministry of Home Affairs	LS		500,000	
Ministry of Forests and Environment	LS		500,000	
Sub-Total Costs for Monitoring Agencies			1,000,000	
<b>Total Estimate</b>			2,965,000	

Source: Study Team, 2023

#### 10.7 Format for Environmental Audit Report

Following audit matrix format will be used for environmental audit of proposed NPA Project. The activities can correlate with environmental impact monitoring aspect mentioned at Chapter 8 and Chapter 9.

Table 10.7-1: Format for Environmental Audit Report for NPA Project

Chapter 1	Executive Summary	
Chapter 2	It includes Audit of Administrative (AA) and Audit of Woks Implementation	
	(AWI). Following will be included in the audit report;	
	i. Interviews carried out in project area,	
	ii. Auditing Party,	
	iii. Audit areas and methods.	
	iv. Details regarding environmental monitoring and environmental statistics.	
Chapter 3	Details of Audit	
Chapter 4	Suggestions and corrective actions to be followed regarding the project	
Appendix	Project related data and description	
Human resource to be included in the audit team		
Technical human	Expert related to the matter and mentioned in <b>Table 10.6-2</b>	
resource involved		
in audit		
Environmental Audit Checklist		

#### **CHAPTER 11: CONCLUSION AND COMMITMENTS**

#### 10.1 Conclusions

The NPA will have beneficial impacts at the local, regional and national levels. The institution is relentlessly indulged on new scientific methods and advanced technological adaptations to ensure new concept of policing. This EIA study identified, predicted, and outlined the beneficial and adverse impacts. The adverse impacts are considered nominal compared to the benefits. Benefit augmentation measures for beneficial impact and mitigation measures for adverse impacts are proposed in this EIA report.

The NPA's operations will advance better administrative procedures with an emphasis on strengthening its training programs and high-quality instructors to advance the administrative, investigative, and general advancement of police professionals. Additionally, it emphasizes components of human resource development with the goal of enhancing its function in the criminal justice system.

The proponent is dedicated to minimizing the effects of the Project on all environmental factors, including the physical, chemical, biological, social, and cultural components. In addition to policing, NPA will offer a variety of advantages such job openings, skill development, and CSP initiatives. In order for the proposal to benefit the community more, the proponent will put the suggested augmentation measures into action. Without adequate monitoring, none of the action can be effective; hence this report also proposes monitoring strategy. Additionally, the proponent has set aside NPR 19,795,000 for environmental enhancement measures, NPR 54,307,000 for monitoring activities and NPR 2,965,000 for environmental auditing or in total NPR 77,067,000 or 0.876% of the total estimated budget for construction of this NPA Project is proposed for EMP implementation. The proponent is committed to implementing the environmental enhancement measures, CSP activities, mitigation measures, and monitoring plans given in this report.

#### 10.2 Commitments

- The findings of EIA study report will be used as a guideline during implementation of project. EMP will be fully followed during construction and operation phase.
- During construction and operation phase of the proposal, it will provide quality service
  with the commitment to adopt the environmental protection measures mentioned in the
  report in compliance with the existing policies and laws and standards related to
  environmental issues.
- Separate environment monitoring personnel under PMU will be deployed (partial or full term) for regular assessment and monitoring.
- Environmental audit will be conducted as per the EPA 2019 and EPR 2020.

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- Detailed Project Report of Construction of National Police Academy at Kavrepalanchowk, Nepal, 2019

#### Websites

Panauti Municipality https://panautimun.gov.np/

National Police Academy <a href="https://npa.nepalpolice.gov.np/">https://npa.nepalpolice.gov.np/</a>

Ministry and Forest and Environment <a href="https://mofe.gov.np/">https://mofe.gov.np/</a>

Ministry of Home Affairs <a href="https://moha.gov.np/en">https://moha.gov.np/en</a>

Nepal Police <a href="https://www.nepalpolice.gov.np/">https://www.nepalpolice.gov.np/</a>

Central Bureau of Statistics <a href="https://cbs.gov.np/district-profile/">https://cbs.gov.np/district-profile/</a>



# APPENDIX 1: APPROVED LETTER OF TOR FROM MINISTRY OF FOREST AND ENVIRONMENT



#### नेपाल सरकार

# वन तथा वातावरण मन्त्रालय

EX: पो.स.स. : ३४८७ विसंदरवार काठमाण्डी

पाज संख्या :-

वलाबी बं. किट हर

प्राप्त पत्र संख्या र मिति :-

श्री गृह मन्त्रालय सिंहदरबार, काठमाण्डौ ।



मितिः २०७९/०८/२७

विषय : राष्ट्रिय प्रहरी प्रशिक्षण प्रतिष्ठानको वातावरणीय प्रभाव मुल्याङ्कन (EIA) को क्षेत्र निर्धारण प्रतिवेदन तथा कार्यसूची स्वीकृत गरिएको वारे ।

तहाँ मन्त्रालयको प.सं.२०७९/०६० च.नं. ११ मिति २०७९/०४/०५ को पत्रसाथ श्री राष्ट्रिय प्रहरी प्रशिक्षण प्रतिष्ठान , महाराजगञ्ज , काठमाण्डौ प्रस्तावक रहेको वागमती प्रदेशको काभ्रेपलाञ्चोक जिल्लाको पनौति नगरपालिका वडा नं ६मा प्रस्तावित राष्ट्रिय प्रहरी प्रशिक्षण प्रतिष्ठान प्रस्तावको वातावरणीय प्रभाव मूल्याङ्कन प्रतिवेदनका लागि तयार पारिएको क्षेत्र निर्धारण प्रतिवेदन (SD) तथा कार्यसूची (TOR) उपर कारवाही हुँदा प्रस्तावकवाट प्राप्त परिमार्जित क्षेत्र निर्धारण प्रतिवेदन तथा कार्यसूची तपसिलका शार्तसिहत वातावरण संरक्षण ऐन, २०७६ को दफा ५ उपदफा (१) बमोजिम तथा वातावरण संरक्षण नियमावली, २०७७ को नियम ४ उपनियम (७)वमोजिम क्षेत्र निर्धारण प्रतिवेदन र सोही नियमावलीको नियम ५ को उपनियम (५)वमोजिम कार्यसूची नेपाल सरकार ,वन तथा वातावरण मन्त्रालय (सम्माननीय प्रधानमन्त्री तथा वन तथा वातावरण मन्त्रीस्तर) को मिति २०७९/०८/१३ को निर्णयानुसार स्वीकृत गरिएको व्यहोरा अनुरोध छ ।

## शर्तहरुः

- वातावरणीय प्रभाव मूल्याङ्कन (EIA) अध्ययनका क्रममा कुनै नयाँ/यप वातावरणीय सवाल पहिचान हुनगएमा तिनीहरुलाई समेत वातावरणीय प्रभाव मूल्याङ्कन (EIA) प्रतिवेदनमा सम्बोधन गर्नु पर्नेछ
- २. वातावरणीय प्रभाव मूल्याङ्गन (EIA) अध्ययनका ऋममा गरिने सार्वजनिक सुनुवाईमा उपस्थित सरोकारवाला ब्यक्ति/संस्थाको उपस्थिती र हस्ताक्षर सहितको बैठक पुस्तिका तयार गरी वातावरणीय प्रभाव मूल्याङ्गन (EIA) प्रतिवेदनसाथ संलग्न गर्नु पर्नेछ ।



### नेपाल सरका

सिर्हदरवार, काठनाणडी

ाएका राख्या -वलानी न

३. वातावरणीय प्रभाव मूल्याङ्गन (EIA) अध्ययन तथा प्रतिवेदन तयारीका क्रममा सम्वन्धित स्थानीय तहबाट लिइने सिफारिस सार्वजनिक सुनुवाई पश्चातको मितिको हुनु पर्ने तथा वातावरण संरक्षण प्राप्त पत्र संस्था र विश्विनियमावली, २०७७ को नियम ७ अनुसूचि - १४ को ढाँचा बमोजिम हुनुपर्नेछ ।

- ४. प्रस्तावित आयोजना संचालनको चरणमा पर्ने प्रभाव जस्तै Muck Disposal, Disaster risk management को सन्दर्भमा विस्तृत रूपमा उल्लेख गरी सोको लागि निराकरण/न्यूनिकरणका उपाय वातावरणीय प्रभाव मूल्याङ्गन (EIA) प्रतिवेदनमा उल्लेख गर्नु पर्नेछ।
- ५. प्रस्तावित आयोजना संचालनको चरणमा पर्ने सामाजिक सांस्कृतिक प्रभावहरुलाई न्युनिकरण गर्न अपनाईने उपायहरु वातावरणीय प्रभाव मूल्याङ्गन (EIA) प्रतिवेदनमा समावेश गर्नुपर्ने छ ।
- ६. प्रस्तावकले वातावरणीय प्रभाव मूल्याङ्कन प्रतिवेदन वातावरण संरक्षण ऐन, २०७६ तथा वातावरण संरक्षण नियमावली, २०७७ मा भएका व्यवस्थाहरूको पूर्णपालना गरी पेश गर्नुपर्नेछ ।
- ७. वातावरणीय प्रभाव मूल्याङ्कन प्रतिवेदन तयारीको क्रममा प्रस्तावकले वातावरण संरक्षण नियमावली, २०७७ को नियम ७ को उपनियम २ र ३ को प्रावधान बमोजिम सार्वजनिक सूचना प्रकाशन गर्नपर्नेछ ।
- वन नियमावली २०७९ को नियम ८७ वमोजिम डिभिजन वन कार्यालय र वन व्यस्थापन गर्ने निकाय वा समूहको परामर्श तथा सहभागितामा न्युनतम वन क्षेत्र मात्र प्रयोग गर्ने र न्यूनतम रुख विरुवा मात्र हटाउनु पर्ने विकल्पको अध्ययन गरी प्रतिवेदनमा समावेश गर्नुपर्नेछ ।
  - ९. वातावरणीय प्रभाव मूल्याङ्गन प्रतिवेदन तयारीको ऋममा प्रस्तावकले वन ऐन २०७६ तथा वन नियमावली, २०७९ तथा प्रचलित कानूनको पूर्णरूपमा पालना गर्नुपर्नेछ।

खिलानाथ दाहाल सहायक वन अधिकृत

वोधार्थ श्री र्प्प्रष्ट्रिय प्रहरी प्रशिक्षण प्रतिष्ठान , *महाराजगञ्ज , काठमाण्डौं* ।

# APPENDIX 2: APPROVED TOR FROM MINISTRY OF FOREST AND ENVIRONMENT



Environmental Impact Assessment Report

# CONSTRUCTION OF NATIONAL POLICE ACADEMY AT KAVREPALANCHOWK, NEPAL

Panauti Municipality-6, Kavrepalanchowk, Bagmati Province

## Submitted To

Government of Nepal Ministry of Forest and Environment Singhadurbar, Kathmandu, Nepal

## Submitted Through

Government of Nepal Ministry of Home Affairs Singhadurbar, Kathmandu, Nepal

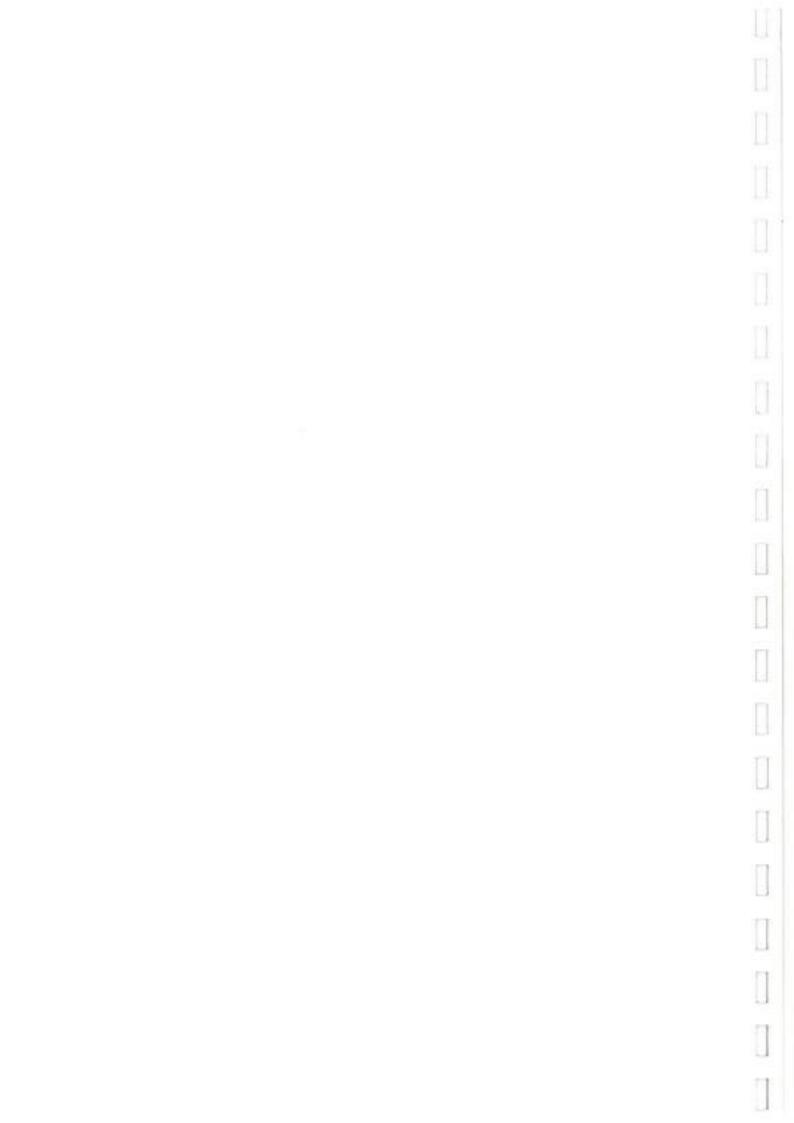
STATE OF THE PERSON OF THE PER

## Proponent

National Police Academy Maharajgunj, Kathmandu, Nepal महाराज्य महाराज्य कार्यकारी निर्देशक यहकुल बहादुर व्यापा प्रहरी अतिरिक्त महानिरीसक

SEPTEMBER, 2022





# TABLE OF CONTENTS

TABLE	OF CONTENTS	i
LIST O	F TABLES	iv
LIST O	F FIGURES	v
	F APPENDICES	
ACRON	NYMS AND ABBREVIATIONS	vii
CHAPT	ER 1: BACKGROUND	1
1.1	Name and Address of the Proponent and Organization Preparing the	Report
1.2	Project Brief	
	Introduction to Proponent	
	Objectives of the Terms of Reference	
1.5	Objectives of the Environmental Impact Assessment.	3
1.6	Legal Provisions.	3
1.7	Scope of Study	4
CHAPT	ER 2: DESCRIPTION OF THE PROJECT	5
2.1	Introduction of the Project	5
	Relevance of Project	
2.3	Project Location and Accessibility	6
2.4	Nature of the Project	8
2.5	Salient Features of the Project Components	8
2.6	Project Components	11
2.7	Project Related Key Activities	16
	1Pre-Construction Phase	
	2Construction Phase:	
	3Operation and Maintenance Phase:	
2.8	Construction Period	16
2.9	Types and Area of Land	16
2.10	Requirements for the Proposed Project	17
2.10		
2.10	.2 Construction Material Source and Quantity	17
2.10	3.3 Construction Schedule	18
2.10		
2.10	0.5 Major Construction Equipment	19
2.10		
CHAPT	ER 3: METHODOLOGY FOR EIA STUDY	26
3.1	Preparatory Works for EIA Study	26
3.1.	생기 본 사람들이 가는 이 이 경험에 살아왔다면 하게 되었다면 하는데	
3.2	Preparation of Checklist/Matrix and Questionnaires	26
3.3	Field Study and Collection of Baseline Data	
3.3.		
3.3.		
3.3		
Ana	lysis	29
3.3.	4 Tracking Environmental Issues from the Field	30





3.3.5 Conduction of Consultation, Interactions Meeting and Public l	Hearing 30
3.4 Preparation of EIA Report	31
3.4.1 Compilation of Baseline Information, Impact Identification, Pr	rediction
and Evaluation	51
3.4.2 Preparation of Environment Management Plan (EMP)	
3.4.3 Prescription of Mitigation and Enhancement Measures, Monit	
Auditing	
3.4.4 Alternative Analysis	
CHAPTER 4: REVIEW OF POLICY, LEGISLATION, GUIDELINES	32
4.1 Constitution of Nepal	32
4.2 Plan, Policies and Strategies	32
4.3 Acts	32
4.4 Rules/Regulations	33
4.5 Guidelines and Directives	33
4.6 National Standards	33
4.7 International Conventions, Agreements and Treaties	33
4.8 Bylaws Related with Panauti Municipality	34
CHAPTER 5: TIME, BUDGET AND HUMAN RESOURCE	35
5.1 Time Frame for Preparation of EIA Report	35
5.2 Estimated Budget for EIA Study	
5.3 Team of Experts for the EIA Study	
CHAPTER 6: PRIORITIZATION OF IMPACTS	37
6.1 Issues Identified by Stakeholders	37
6.2 Issues Identified by the Study Team	38
6.2.1 Beneficial Impacts	
6.2.2 Adverse Impacts	
CHAPTER 7: ANALYSIS	
7.1 Methods and Tools Used for Impact Identification and Evaluation	40
7.2 Impact Identified, Evaluated and Prioritized for EIA Study	
CHAPTER 8: ALTERNATIVES	43
8.1 Alternative Design	43
8.2 Project Site	
8.3 Technology, Procedure of Operation, Time Schedule, Raw Materia	le 43
8.4 Environment Management System	
8.5 Other Matters or Do Nothing Alternatives	43
CHAPTER 9: IMPACTS	
9.1 Preventive Mitigation Measures	45
9.2 Corrective Mitigation Measures	
9.3 Compensatory Mitigation Measures	
CHAPTER 10: ENVIRONMENTAL MANAGEMENT PLAN	46
10.1 Environmental Management Plan	46
10.2 Objectives of EMP CHAPTER 11: MONITORING PLAN	40
11.1 Monitoring Plan	48
11.2 Types of Monitoring	48
11.2 Types of Monitoring	49





9.1 Monitoring Plan	49
CHAPTER 13: OTHER DELIVERABLE	50
APPENDICES	51





## LIST OF TABLES

Table 1.6-1: Provisions Regarding Legal Justification	
Table 2.5-1: Salient Features of the Project	
Table 2.5-2: Description of Project Components	
Table 2.9-1: Land Types and Area in Project Footprint Area	
Table 2.10-1: Weightage of Construction Material Quantity	
Table 2.10-2: Construction Schedule of the Project	
Table 2.10-3: Municipality and Wards included in the Project Affected Area	
Table 3.3-1: Summary of Physical-Chemical Environment and Methods Adopted f	
Data	
Table 3.3-2: Categorization of Trees/Poles/Saplings	
Table 3.3-3: Summary of Biological Environment and Methods Adopted for Collection	cting Data 29
Table 3.3-4: Summary of Socio-Economic Environment and Methods Adopted for	
Data	29
Table 5.1-1: Schedule for Preparation of ElA Report	35
Table 5.3-1: Study Team Proposed for the Preparation of EIA Report	35
Table 6.1-1: Issues Identified by the Stakeholders	37
Table 7.1-1: Impact Ranking Matrix as per EPR 2077	
Table 7.1-2: Table for Impact Identification and Prioritization	40
Table 7.2-1: Issues Prioritized for EIA Study	
Table 10.2-1: Key Plans and Strategies of EMP	46
Table 10.2-2: Matrix Used for Environmental Management Plan	
Table 11.2-1: Matrix Used for Environmental Monitoring Plan	
Table 9.1-1: Matrix of Environmental Auditing for NPA	
Table 9.1-2: Cost Estimation for Environmental Auditing for NPA	





# LIST OF FIGURES

Figure 2.3-1: Layout and Location Map of Project.	
Figure 2.3-2: Bird-Eye View of Project	
Figure 2.3-3: Accessibility to the Proposed Site	8
Figure 2.10-1: Site Layout Plan	18
Figure 2.10-2: Waste Minimization Pyramid	20
Figure 2.10-3: Typical Process Flow Diagram of MBBR Technology	22
Figure 2.10-4: Classification of Project Area	25





#### LIST OF APPENDICES

APPENDIX 1: MEMORANDUM OF UNDERSTANDING BETWEEN GON AND GOI

APPENDIX 2: CABINET DECISION FOR NPA CONSTRUCTION

APPENDIX 3: DOCUMENTS RELATED WITH FOREST AREA USE FOR NPA

APPENDIX 4: LAND OWNER CERTIFICATE OF THE PROPOSED PROJECT

APPENDIX 5: LOCATION MAPS AND SITE PLAN OF PROJECT

APPENDIX 6: QUESTIONNAIRE

APPENDIX 7: PHYSICAL AND BILOGICAL ENVIRONMENT CHECKLIST

APPENDIX 8: FIELD PHOTOGRAPHS

APPENDIX 9: DECLARATION FROM PROPONENT

APPENDIX 10: DECLARATION FROM STUDY TEAM EXPERTS
APPENDIX 11: UPDATED CURRICULUM VITAE OF EXPERTS

APPENDIX 12: COMMENT MATRIX





#### ACRONYMS AND ABBREVIATIONS

amsl Average Mean Sea Level

BS Bikram Sambat

CBD Convention on Biological Diversity

CBS Central Bureau of Statistics

CITES Convention on International Trade in Endangered Species

CPTC Central Police Training Centre

cum Cubic Meter

DAO District Administrative Office

dB Decibel

DCC District Coordination Committee

DFO Division Forest Office

DG Diesel Generator

DHM Department of Hydrology and Meteorology

DIA Direct Impact Area

DMG Department of Mines and Geology

DoS Department of Survey
DPO District Police Office
DPR Detailed Project Report
DRM Disaster Risk Management

EIA Environmental Impact Assessment

EPA Environment Protection Act

EPR Environment Protection Regulations

g Gram

GoI Government of India GoN Government of Nepal

GRM Grievance Redress Mechanism

Ha Hectare

HDPE High-Density Polyethylene

IBA Important Bird Area
IIA Indirect Impact Area
IS International Standards

IUCN International Union for Conservation of Nature and Natural Resources

Kg Kilogram

Kg/cm<sup>2</sup> Kilogram per Square Centimeter

kld Kilo Liter per Day

Km Kilometer kPa Kilopascal kV Kilo Volt

kVA Kilo Volt Ampere LPG Liquid Petroleum Gas

m Meter

MBBR \_\_Moving Bed Biofilm Reactor



MBT Main Boundary Thrust MCT Main Central Thrust ML Local Magnitude

mm Millimeter

MoFE Ministry of Forest and Environment

MoHA Ministry of Home Affairs

MoU Memorandum of Understanding

NBC National Building Code NEA Nepal Electricity Authority

NID National Investigation Department

NP Nepal Police

NPA National Police Academy

NRs. Nepali Rupees

PAS Public Announcement System

PFA Project Footprint Area
RM Rural Municipality
SD Scoping Document
sq.m Square Meter

STP Sewage Treatment Plant ToR Terms of Reference

UNFCC United Nations Framework Convention on Climate Change

VA Volt Ampere

VIP Very Important Person WMP Waste Management Plan

ZoI Zone of Influence







#### CHAPTER 1: BACKGROUND

# 1.1 Name and Address of the Proponent and Organization Preparing the Report

The name of the Project is "Construction of National Police Academy at Kavrepalanchowk, Nepal. National Police Academy (NPA), Government of Nepal as the proponent of this project has prepared and is responsible for the Environmental Impact Assessment (EIA) study. NPA entrusted Research Enclave Pvt. Ltd. for EIA study of this Project. On behalf of Proponent, Research Enclave Pvt. Ltd. has prepared this Terms of Reference (ToR) for EIA study. The details address of Proponent and the organization preparing the report is presented below:

The detail of proponent:

Name: National Police Academy Address: Maharajgunj, Kathmandu

Phone: 01-4420517

Email: npa\_kayreProject@nepalpolice.gov.np Website: https://npa.nepalpolice.gov.np

The detail of organization preparing this report:

Research Enclave Pvt. Ltd.

Kathmandu Metropolitan City-31, Hanuman Marg

Shankhamul, Kathmandu

Phone: 01-5242918 / 9851097036 Email: researchenclave@gmail.com

# 1.2 Project Brief

The National Police Academy (NPA) holds the distinction of being the apex Police training institution in Nepal. It was established as the Central Police Training Center (CPTC) in 1956 AD with the responsibility of imparting training to Police Constables. The CPTC was eventually upgraded as the National Police Academy in 1993 AD. It is an important institution dedicated for the human resource development of Nepal Police within the country.

National Police Academy is solely responsible for conducting basic and advanced training programs for the police officers. The institution is relentlessly indulged on new scientific methods and advanced technological adaptations to ensure new concept of policing. The introduction of improved administrative practices focuses on enhancing qualitative instructors and its training to bring about improvements on administrative, investigative and overall improvement on the police professionals. Moreover, it focuses on human resource development aspects with an objective to improve its role in criminal justice system.

With the increasing global security concerns, creating peace and harmony within the country, NPA seeks modern and well-equipped infrastructure to strengthen Nepal Police.



In this context, the Government of Nepal (GoN) also seek enhancement of capacity of Nepal Police. During the visit of Hon'ble Prime Minister of India, the Government of Nepal (GoN) and the Government of India (GoI) had signed a Memorandum of Understanding (MoU) dated 25 November 2014 (9 Mangsir 2071) to enhance the capacity of Nepal Police. For this, GoI intends to provide technical and financial support to upgrade National Police Academy. Hence, GoN has identified a suitable place at Panauti of Kavrepalanchowk district; Nepal for construction of highly equipped and well managed National Police Academy.

In order to construct NPA at identified place, it is the prime responsibility of GoN to sort out all the administrative procedure and get environmental clearance along with fulfillment of all legal requirements as per the legal bindings of GoN (Article 6.1.4 of MoU made in between GoN and Gol, refer APPENDIX I).

The name of the Project is "Construction of National Police Academy at Kavrepalanchowk District, Bagmati Province, Nepal". Environmental assessment for this Project is mandatory provision to be completed as per Environment Protection Regulation (EPR), 2077 of GoN before the implementation of the Project. The Project is fully funded by the Government of India with an estimated budget of NRs. 8791.38 Million.

# 1.3 Introduction to Proponent

For this Project, National Police Academy, Maharajgunj, Nepal is the proponent of the Proposal and is responsible for conducting EIA study of this Project.

# 1.4 Objectives of the Terms of Reference

Rule 5 (1) of Environmental Protection Act, 2076 has made it mandatory to prepare Terms of Reference (ToR) and shall be submitted to the concerned Ministry for approval. For this regulatory requirement, Proponent with the help of consultant has prepared this ToR under the provision stated in Rule-5 of Environmental Protection Regulation, 2077 and in format given in Schedule 8 of EPR 2077.

This ToR provides the necessary technical outline, methodology and study format for EIA study. The main objectives of this ToR are:

- to list out the environment and social issues to be carried out for the study;
- to systematize the study methodology;
- to recommend appropriate reporting guideline for the preparation of EIA Report.

Beside these, the specific objectives of the ToR are:

- to identify all the aspect of impact areas on different component of the environment due to Project execution;
- to identify the issues/impacts related to physical & chemical, biological, socioeconomic and cultural, environment to be evaluated/analyzed while conducting EIA study:

to propose the appropriate methodologies for EIA study;



 to make clear on the triggering policies that will be necessary for Project implementation phase;

# 1.5 Objectives of the Environmental Impact Assessment

The EIA study will provide decision makers with sufficient information to justify, on environmental grounds, the basis for guiding subsequent actions, which will ensure that the project is carried out taking into account the environmental issues identified. The core objectives of the EIA are to:

- identify and evaluate the various components of the existing physical, chemical, biological, socio-economic and cultural environment in documentation and decision-making processes;
- · review legislation associated with the Project and applied to Projects;
- evaluate the various alternatives to Project area and determine the best alternatives with a definitive form, a socially acceptable and economically viable one;
- assess the magnitude, extent and duration of the impacts associated with Project and to help in decision making process;
- formulate environmental management plan through preventing or minimizing the impacts level and support in achieving sustainable development of environment, assurance of socio-economic development;
- determine the indicators for the monitoring and supervision of the Project activities during construction and operation phase, too.

# 1.6 Legal Provisions

As per the Rule 3 and 5 of the Environment Protection Act, 2076, and provision in Rules 3 and 4 of the Environment Protection Regulations, 2077; it has made mandatory to conduct Environmental Impact Assessment and scoping study for the proposals listed within the Schedule 3. The Project is fully funded (foreign investment) by GoI, for which the report is prepared in English language as per Rule 7 (8) of EPR 2077. The summarized EIA report will be prepared in Nepali language as per Rule 7 (9) of EPR 2077.

Table 1.6-1: Provisions Regarding Legal Justification

S.N.	Legal Provisions	Binding Provisions for the Project
Provi	sion under Forest Clearance	
1.	The proposal under Schedule 3 (Ka-Forest Area-5) of EPR 2077 has provisioned that "the use of forest area, forest conservation area, conservation area, buffer zone area, and forest within the environment conservation area, for more than 5 ha for all the proposals except electricity transmission line construction purposes.	The Project is not related to electricity transmission line construction. This Project requires 6.7ha of forest area.
Provi	sion under Built-up Area	W
2.	The proposal under Schedule 3 (Ja-Housing, Building and Settlement Development and Urban Development Areas-2) of EPR 2077 has provisioned that "if construction of building with Built Up Area/ Flor Area for residential, business, and/or both types with more than 10,000sq.m" requires EIA as mandatory.	For this Project, the total built-up area is 109215 sq.m





S.N.	Legal Provisions	Binding Provisions for the Project	
3.	The proposal under Schedule 3 (Ja-Housing, Building and Settlement Development and Urban Development Areas-6) of EPR 2077 has provisioned that "if the daily use of underground water of 20,000Litre shall be required for the construction and operation of building" requires EIA as mandatory.	For this Project, the total daily 36530 liters of water will be required during construction and 635,000 liters of water will be required during operation stage.	
Prep:	aration, Submission and Approval of Scoping and Tol-	t:	
1.	Section 5 (1) of the EPA, 2076 and Section 4 & 5 of the EPR, 2077, regarding the proposals for EIA study made mandatory for the provision of Scoping study and preparation of Terms of Reference along with approval for EIA study	As mentioned in above statements that the EIA study has to be done mandatorily for this proposal, the Scoping report has been prepared.	

The use of 6.7ha forest area has been proposed for NPA Project. Firstly, the decision on the allocation of proposed Project site is decided by Cabinet Meeting held on 2075/05/21 (6 September, 2018) and secondly the recommendation of concerned forest management authorities for the use by NPA (APPENDIX 2 and APPENDIX 3) has been received.

# 1.7 Scope of Study

The scope of the study will be limited within site clearance, excavation of all types of soils and rocks for foundation and other Project related infrastructure: muck disposal; construction camps and storage depots; construction of buildings of NPA, internal approach road within the boundary, box culverts at Punyamata river at (27°35'34.45"N latitude and 85°31'4.51"E Longitude). The Project will also include construction of outdoor infrastructure and facilities like helipad, firing range ground, swimming pool, outdoor sports complex, obstacle outdoor training ground, parade ground, and inner access road for mobility.



# CHAPTER 2: DESCRIPTION OF THE PROJECT

# Introduction of the Project

NPA is led by Additional Inspector General of Police who serves as the Executive Director of the Academy. The Academy has strength of 670 personnel who serve in diverse aspects of training management such as instruction, administration, logistics management, support services and other responsibilities. Senior Police Officers from around the country participate in various training courses organized in the Academy. Training courses for Junior Police Officers and other ranks are also organized in the Academy.

Following are the briefs of basic programs and activities NPA is doing so far:

- I. Training Programs for the Police Personnel: As the apex training institution of Nepal Police, the NPA organizes training courses for police personnel from across the country. Most of the training programs conducted by the NPA are for senior police officers who are currently working or will serve at the operational and strategic leadership positions. It serves as the only training institution with the responsibility to train and develop Police Inspectors by conducting Foundation Training Course. It also conducts in-service training programs for police officers on four major areas: crime investigation, administration and management, security, and operations. Thousands of police officers working in different regions and under diverse and challenging circumstances are the principal beneficiaries of these specialized training programs conducted by the Academy.
- 2. Training Programs for Civil Servants and Other Security Agencies: As the premier training institution of Nepal Police, NPA also offers training programs to civil servants and other security agencies. The major training programs include Strategic Management, Operational Command and Leadership Development, and Investigation Officer Basic Training for officers of National Investigation Department (NID). Similarly, the NPA conducts security phase of the Chief District Officer Course and Assistant Chief District Officer Course in its premises. The NPA also provides resource persons to various training courses organized in other training institutions such as Nepal Administrative Staff College, National Judicial Academy and Training Academies of Nepal Army and Armed Police Force. In recent years, it has extended its expertise to training courses such as Basic Administration Training for newly recruited gazette officers, Basic Judicial Training Course for judicial officers and so on.

Development of Sports Activities: Apart from training responsibility, NPA also plays a leading role in the development of sports activities of Nepal Police. The Sports wing of the NPA is actively involved in identifying, selecting and training best talents from within and outside the organization. Through discipline, hard-work and quality sports culture maintained at the Academy, Nepal Police has made immense contribution to the development of Nepali sports arena across diverse sporting events including football, volleyball, martial arts (Taekwondo, Karate, Judo), athletics and so on. Police athletes have been winning medals both at national and international levels for long.

Objectives of the Project:





At present, the main objective of the Project is to upgrade and modernize the existing training programs in a modern and well-equipped infrastructures and environment for the sake of institutional strengthening. This will help NPA to expand its various specialized training courses among the Police personnel within the country. The main objectives of NPA are:

- to conduct foundation training courses targeting the senior police officers and technical police officers;
- to develop qualified police instructors necessary for the police training environment and provide consultancy services;
- to conduct specialized training courses for senior police officers in the sphere of crime investigation, operations, security, management and administration, police outreach, etc.;
- to set and maintain training benchmark for police training institutions across the country;
- to forge substantive relationships with academia including universities, other training and research institutions;
- to assist Police Headquarters in the formulation of human resource development policies including training policies; and
- to conduct research activities in matters pertaining to policing and security.

# 2.2 Relevance of Project

Following the changing global security aspects, GoN and GoI deal jointly for greater cooperation and coordination to pursue the shared security interests. GoI has been providing continuous support to GoN in skill development, capacity building and institutional development of law enforcement agencies in Nepal. The establishment of a new, modern and well-equipped National Police Academy at Panauti, Kavrepalanchowk for strengthening and assisting the Nepal Police is also a step in this direction.

The relocation of National Police Academy in Panauti, GoN Cabinet Meeting on 2075/05/21 (6 September, 2018) "Regarding the arrangements of the office and housing for Honorable President and the Honorable Vice President" proposal from Hon'ble Prime Minister on 2075/05/21, has made decision point 4 (1) to "Transfer the entire land (114-3-0-0 Ropani) of the National Police Academy located in Maharajgunj to the name of the President's Office by developing more infrastructure in the President's office premises, 4 (3) stating "To arrange the relocation of the National Police Academy to Panauti in its own land" (refer to APPENDIX 2 for detailed decisions). The space concerned is also a next key significance step for Construction of NPA at Panauti, Kavrepalanchowk and 4 (6) about its urgency and priority.

# 2.3 Project Location and Accessibility

The Project site is located in Panauti Municipality, Ward No. 6 of Kavrepalanchowk District in Bagmati Province, Nepal. The geographical location of the Project site is 27°35'39.36"N in West, 27°35'35.98"N in North, 27°35'27.53"N in South and 27°35'19.85"N in East by latitudes and 85°31'12.35"E in West, 85°31'37.84"E in North, 85°31'1.34"E in South and 85°31'13.83"E in East by longitudes respectively.



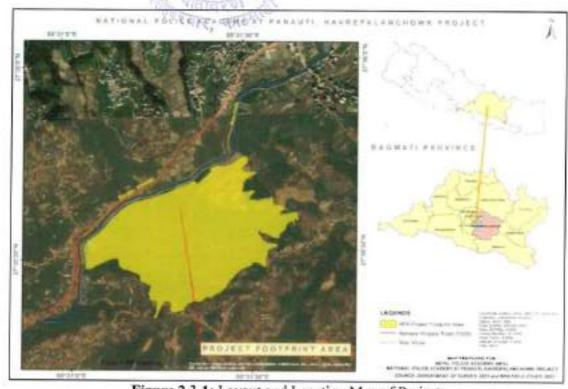


Figure 2.3-1: Layout and Location Map of Project Source: Digital Data from Department of Survey, 2021 and Detailed Project Report of Construction of National Police Academy at Kavrepalanchowk, Nepal, 2019

The Project site is connected with all-weather road from Kathmandu, the Capital City of the country. The nearest airport to Project site is the Tribhuvan International Airport (TIA) which is approximately 27Km to North West direction. The Project site is approximately 28.8Km south east of capital Kathmandu having roadway connectivity with Madan Bhandari Road, Araniko Highway, Banepa-Khopasi Road upto Dalinchowk near Panauti Bazar. Hence, there will be no issues related to accessibility to the proposed Project site.



Figure 2.3-2: Bird-Eye View of Project



Source: Google Earth Pro. 2022



Figure 2.3-3: Accessibility to the Proposed Site

Source: https://maps.google.com/ on 6/05/2022

#### Connectivity from India

Tribhuvan International Airport (TIA) has international air connectivity, and the project site is well linked by the roadway as mentioned above in this chapter.

# 2.4 Nature of the Project

The proposed Project aims to construct modern and well-equipped infrastructure in Panauti, Kavrepalanchowk within a built up area of 109215sq.m out of the total area of 41.86ha (4, 18,603.17sq.m). In total, 58 buildings will be constructed to fulfill the requirement of NPA.

The Project will be constructed based on Zonal Model where Residential Buildings, Academic Buildings, Administrative Buildings, Security Buildings, Sports (Indoor and Outdoor) Areas and so on are designed to be constructed in clustered form. Of the total area (41.86ha/418603.15 sq.m), the plinth area of the buildings is estimated to be 31914 sq.m out of the 109215 sq.m built-up area. This means about 7.62% will be occupied by structures and rest of the area (92.38%) will be left as open space.

#### 2.5 Salient Features of the Project Components

The salient features of Project is presented in the following table as:

Table 2.5-1: Salient Features of the Project

S.N.	Component Description	Features
ı.	Proponent	National Police Academy, Maharajgunj, Kathmandu
2.	Project Name	Construction of National Police Academy at Kavrepalanchowk, Nepal
3.	Location of Project Site	



S.N.	Comp	onent Description	4016	Features	
	Province		Bagmati		
	District		Kavrepala		
	Local Level		Panauti N	funicipality	
	Ward No.		6		
205	C	al I continu	Latitude:	27°35'33.46"N	
4.	Geographic	al Location		e: 85°31'6.05"E	
5.	Physiograp	hic Region	Mid-Hill 1574 ams	Region at an elevation range of 1442 to	
6.	Nearest Hy	drological Network	Punyama	ta Khola at Western part	
		roach Road and Bridge	772		
	Main Road Internal Acc		Araniko Highway (H03): 23.7Km from Singhadurbar, Kathmandu to Banepa Banepa-Khopasi Road (F029): 5.1Km from Banepa to Project Area Total Distance: 28.8Km		
201	Punyamata l	Chola Bridge			
7.	, , , , , , , , , , , , , , , , , , , ,	Туре	Box Culv	vert	
		Length of Bridge	14.3m		
		Breadth of Bridge		-	
	Footpath Width		1.0m		
		Kerb Height 0			
		Railing Height			
	Carriage Width		7.5m		
	Project Are	à			
	Total Area		822-13-1-0 Ropani = 418,599.61 sq.m = 41.86ha		
8.	Plinth Area		31914 sq.m		
	Built Up Area of NPA Project		109,215 sq.m		
-			92.38%		
	Manager and the contract of the			oad up to each Buildings	
				cy Ladder	
			The second property of the second sec	m System (NBC)	
				ting System with 200,000 liters static	
9.	Emergency	Preparedness	50 THE STATE OF TH	rage fire tanks	
2.54	Common British	TO THE MEDICAL PROPERTY.	ALIENSEY CONTROL OF	on Arrangement	
			Open Spa		
				n Path (Differently Able People Friendly	
				cy Lighting in the Corridors of Buildings Facility with Specialized Medical Teams	
10.	Water Requ	irement	iviculcal i	asinty with optomized wiedical Teams	
4.454	Source Source	iii ciliciit		Municipal Supply and Deep Boring	
	Construction	Phase		40000 kl (36530 liters per day)	
	Construction	Quantity		635,000 liters per day	
		Underground Water Tar	nk (Total)	635,000 liters	
	Operation	Static Fire Water Tanks		200,000 liters	
	Phase	Overhead Tanks		202,000 liters	
		Drinking Water Treatme	ent (RO)	20,000 liters	
11.	Energy Supply		east (seco.)	anjore men	
	Source		National	Grid Connection supply from NEA	
		bstation	2*1500k	***	
		Electrical Substation Standby Supply		A Diesel Generator Sets	
12.	Solar Water Heating Considering 20lt/person 387000 liters per d		The state of the s		
I de s	Waste Gene	The state of the s	Constant	A CONTRACTOR SALVANO MICIO PER ORG	
13.	Solid Waste				





S.N.	Component Description	Features
	Construction Phase Operation Phase	Total estimated generation: 59.5Kg per day Biodegradable Composition (51%): 30.4Kg per day Total estimated generation: 424.35Kg per day Biodegradable Composition (51%): 216.42Kg per day
	Sewerage Treatment Facility Construction Phase	80% of 24200 liter (484 labors*50liters water/day) 19360 liter sewerage per day for 484 labors will be managed in soak pit
	Operation Phase	80% of 440000 liter 350,000 liter sewerage per day will be treated from STP (MBBR Technology) for 3450 persons
14.	Major Species found within and Peripheral Area of Project Site	Flora: Pinus roxburghii, Schima wallichli, Alnus nepalensis, Myrica esculenta, Pyrus pashia Fauna: Prionailtarus bengalensis, Sus scrofa, Canis aureus, Muntiacus vaginalis Aves: Alexandrinus krameri, Passer domesticus Corvus splendens, Acridotheres tristis
15.	Expected Occupancy (3450 Persons in Total in operation phase)	3225 Persons (Residential Quarters and Trainee Barracks) 125 Persons (Guests/Staffs/Visitors)
16.	Estimated Budget of Project	NRs. 8791.38 Million
17.	Estimated Project Construction Period	3 years

Source: Detailed Project Report of Construction of National Police Academy at Kavrepalanchowk, Nepal, 2019

Table 2.5-2: Description of Project Components

S.N.	Component Descriptions	Nos	Plinth Area (sq.m)	Total Built-up Area (sq.m)	Floor
A	Non Residential Buildings (Office/School/College)				
1	Administration Block	1	1550	4556	G+2
2	Tutorial Block	1	3190	7700	G+3
3	Library + Mock up area	1	1389	2725	G+1
4	Cafeteria	2	568	1136	G
5	Auditorium 1 (572 Capacity)	1	1160	1562	G+1
6	Auditorium 2 (352 Capacity)	1	970	970	G
7	Conference Hall 1 (240 Capacity)	1	556	-556	G
8	Conference Hall 2 (480 Capacity)	1	1041	1041	G
9	Indoor Sports Complex/Other Facilities	1	2550	2550	G
10	Miscellaneous (Shopping Complex)/ Bank/ ATM/ Post Office	1	443	443	G
11	Indoor Firing Block (50m)	1	200	200	G
12	Swimming Pool, Gymnasium and Health Club	1	1267	1267	G
В	Non Residential Buildings (Hospital)				
1	Medical Facility	1	905	2449	G+1
C	Non Residential Buildings (Guard Room/Reception)				



S.N.	Component Descriptions	Nos	Plinth Area (sq.m)	Total Built-up Area (sq.m)	Floo
1	Guard Room/ Control Room/ Reception	1	127.5	255	G
D	Non Residential Buildings (SERI/ICE Block & Stores)				
1	Support Service Block	1	443	443	G
2	Store Block	1	585	585	G
3	Weapon Store	1	685	1225	G+1
4	Ammunition Store	1	41	41	G
5	Pump Room & Water storage tanks	1	200	300	B+0
6	Electric Substation	1	600	600	G
7	Motor Garage	1	745	745	G
8	Parade Ground/ 200m Athletic Track/ Viewer's Gallery	1	625	625	G
E	Non Residential Buildings (Kennel & Stable)				
1	Dog Kennel	1	342	342	G
2	Horse Stable	1	860	860	G
F	Residential Buildings				
1	Senior Officer's Residence- Executive Director (Type VI)		165	281	G+
2	Senior Officer's Residence - Director (Type V)	1	182.5	730	G+3
3	Senior Officer's Residence - Joint Director & Superintendent (Type IV)	2	288	2304	G+3
4	Inspector's/ JCO's/ HC Quarters - 4 Blocks (Type III)	4	628	20096	G+7
5	Constable's/Follower's Quarters - 5 blocks (Type II)	5	578	23120	G+7
6	Junior Officer's Guest House	1	542	1084	G
7	Senior Officer's Guest House	1	784	1568	G+1
8	Non Ranked Officers Guest House	1	542	542	G
G	Residential Buildings (Barracks/Hospitals)				
1	Trainee Officer's Barracks with Dining	1	1782	5355	G+3
2	Trainee JCO's Barracks with Dining	2	1782	10710	G+3
3	Basic Trainee Barracks with Dining	1	1284	3504	G+3
4	Trainee Other Rank's Barracks with Dining	1	1284	3504	G+3
5	Female Barracks with Dining	1	1030	3241	G+3
	Total		31914	109215	

Source: Detailed Project Report of Construction of National Police Academy at Kavrepalanchowk, Nepal, 2019

# 2.6 Project Components

The establishment of a new, modern and well-equipped police academy at Panauti, Kavrepalanchowk for strengthening and assisting the Nepal Police, NPA has proposed the following facilities within its scope:



**11 |** Page

- 1. Administration Block
- 2. Tutorial Block
- 3. Library + Mock up area
- 4. Cafeteria
- Support Service Block
- 6. Dog Kennel
- Horse Stable
- 8. Auditorium 1 (572 Capacity)
- 9. Auditorium 2 (352 Capacity)
- 10. Conference Hall 1 (240 Capacity)
- 11. Conference Hall 2 (480 Capacity)
- 12. Indoor Sports Complex/Other Facilities
- 13. Store Block
- 14. Weapon Store
- 15. Medical Facility
- 16. Trainee Officer's Barracks with Dining
- 17. Trainee JCO's Barracks with Dining
- 18. Trainee Other Rank's Barracks with Dining
- 19. Basic Trainee Barracks with Dining
- 20. Female Barracks with Dining
- 21. Miscellaneous (Shopping Complex)/ Bank/ ATM/ Post Office
- 22. Parade Ground/ 200m Athletic Track/ Viewer's Gallery
- 23, 200m Fire Range
- 24. Motor Garage
- 25. Guard Room/ Control Room/ Reception
- 26. Indoor Firing Block (50m)
- 27. Swimming Pool, Gymnasium and Health Club
- 28. Senior Officer's Guest House
- 29. Junior Officer's Guest House
- 30. Non Ranked Officers Guest House
- 31. Senior Officer's Residence- Executive Director (Type VI)
- 32. Senior Officer's Residence Director (Type V)
- 33. Senior Officer's Residence Joint Director & Superintendent (Type IV)
- 34. Inspector's/ JCO's/ HC Quarters 4 Blocks (Type III)
- 35. Constable's/Follower's Quarters 5 blocks (Type II)
- 36. Obstacle/ Outdoor Training Ground
- 37. Outdoor Sports complex
- 38. Pump Room & Water storage tanks
- Sewage Treatment Plant (STP)
- 40. Electric Substation
- Visitors Parking
- 42. Play Ground for Staff and Family
- 43. Helipad
- 44. Additional Ground for Training
- 45. Ammunition Store

Other Facilities (Quarter Guard, Parade Ground, P.T. Ground, Firing Range, Horse Riding Training Ground and so on).





The above listed Individual Building Components and Layouts1 have been described as:

# 1. Residential Buildings

a. Trainee Officer's Barracks (1 Block) & Trainee JCO's Barracks (2 blocks) with Dining: The buildings have been designed as G+3 structures accommodating 96 rooms per block (24 rooms on each floor) with attached toilets and balcony. Trainee Officer's rooms have been planned for single accommodation per room and Trainee JCO's rooms have been planned for double occupancy per room. These Barracks also accommodate recreation room, library and offices. Barracks have a separate vegetarian and non-vegetarian Dining Hall (for 75 persons each) with a separate kitchen, preparation area, store, and staff room.

b. Trainee Other Rank's Barracks (1 Block) & Basic Trainee Barracks (1 Block) with Dining: The building has been designed as a G+3 structure accommodating 8 dormitories with total 184 beds. It has two dormitories on each floor with each dormitory housing 23 beds. These Barracks have two common toilets on each floor. They have a separate vegetarian and non-vegetarian Dining Hall (for 75 persons) with

a separate kitchen, preparation area, and store and staff room.

c. Female Barracks with dining (1 Block): The building has been designed as a G+3 structure accommodating 56 rooms (14 rooms on each floor) on double accommodation basis with attached toilets and balcony. Barrack has canteen (for 75

persons) with kitchen, preparation area, store and dining area.

d. Senior Officer's Residence: Executive Director - Type VI (1 Block): The building has been designed as a duplex residence. The ground floor accommodates a drawing room, dining area, kitchen, two bedrooms (one with attached toilet), common bath, common toilet, study, internal staircase, sit-out and garage. The First floor accommodates two bedrooms (one with attached toilet), common bath, common toilet and servant's room. The building also has an external staircase for servant's room access.

e. Senior Officer's Residence: Director - Type V (1 Block): The building has been designed as a G+3 structure accommodating 3BHK apartments on each floor. Each apartment accommodates living room, dining, kitchen, three bedrooms (one with attached toilet), common bath & toilet, box room, two balconies and servant's room

(attached with a separate kitchen and toilet).

- f. Senior Officer's Residence: Joint Director & Superintendent Type IV (2 Blocks): The building has been designed as a G+3 structure having 2 nos. three bedroom apartments on each floor. Each apartment accommodates drawing room, dining, kitchen, three bedrooms (two with attached toilet), common toilet, two balconies, utility and servant's room (with attached toilet). The building has a staircase for vertical circulation. Senior Officer Residence- Joint Director & Superintendent has two such blocks.
- g. Inspector's/ JCO's/ HC Quarter Type III (4 Blocks) and Constable's/ Follower's quarter Type II (5 Blocks): The buildings have been designed as G+7 structures accommodating 6 nos. two bedroom apartments on each floor having a total of 48 apartments per block. Each apartment has a living room, kitchen, two bedrooms (one with attached toilet), common toilet, balcony and utility. The building has two staircases and 2 passenger lifts and I Goods lift in each block.

 Senior Officer's Guest House: The building has been designed as a G+1 structure accommodating 8 VIP Suites (4 on each floor); each suite has 1 bedroom, toilet,

Detailed Project Report for NPA Panauti Project, 2019





kitchen, lounge and a balcony. The upper floor also has 3 Guest rooms with attached dresser and toilet. The Building also accommodates a common lounge (for 32 people), care taker room and a store. The Guest House has a Dining room (for 40 people) with kitchen, wash area, pantry and toilets (male and female).

i. Junior Officer's Guest House: The building has been designed as a double storey structure accommodating 5 bedrooms with attached toilet and balcony on ground floor. The first floor has 8 bedrooms with attached toilet and balcony. It also has a lounge, care taker room and store/s. The Guest House has a Dining room with kitchen, wash area, pantry and bar.

j. Non- Ranked Officer's Guest House: The building has been designed as a single storey structure accommodating 5 bedrooms with attached toilets and balconies. It also has a lounge, care taker room and store/s. The Guest House has a Dining room with kitchen,

wash area, pantry and bar.

# 2. Non- Residential Buildings

- a. Administration Block: The building has been designed as a G+2 structure having all office areas equipped with conference rooms, reception, waiting areas, pantries & stores. The second floor accommodates six large offices for Joint Directors with a separate meeting room, waiting area, pantry, PA room and toilets.
- b. Tutorial Block: The building has been designed as a G+3 structure housing 10 classrooms, simulation rooms, jungle warfare activity area, cybercrime lab and other required training facilities and common areas.
- c. Library + Mock up area : The building has been designed as a G+1 structure accommodating library halls, classrooms, toilets, reception, staircases, halls, etc.
- d. Cafeteria: This is a single-storey structure accommodating Main dining area, VIP dining areas, separate kitchens for vegetarian and non-vegetarian, offices, stores, wash areas, pantries, toilets, etc.
- e. Dog Kennel: This is a single storey building accommodating 20 kennels for dogs. The building has galvalume roofing with steel truss and openings protected with welded wire mesh.
- f. Horse Stable: The building is a single storey structure accommodating 20 Horse stables. The building is divided into 2 blocks i.e. Block A & Block B. Block A houses the stables, food mixing room, tack room and the feed room whereas Block B has the office area, workshop, veterinary offices, stores, toilets etc.
- g. Auditorium 1 (572 Capacity): The building is designed as G+1 structure with a 462 seating capacity on ground floor and 110 seating capacity on the first floor. It also has a large stage, separate green rooms with attached toilets.
- Auditorium 2 (352 Capacity): This is a single storey double height structure with a seating capacity of 352 nos. It also has separate green rooms with attached toilets.
- Conference Hall 1 (240 Capacity): This is a standalone single storey building with seating capacity of 240 nos.
- Conference Hall 2 (480 Capacity): This is a standalone single storey building with seating capacity of 480 nos.
- k. Indoor Sports Complex/Other Facilities: The building is a large span single storey structure with high ceiling accommodating indoor sports courts like basketball court, volleyball court, badminton courts, table tennis court and squash court. All the courts have been provided with viewing galleries. The building also accommodates separate toilets, changing rooms for male and female, dispensary, stores & offices.





1. Store Block: This building is a single storey structure accommodating shops, offices and store rooms of different types.

m. Weapon Store: The building is a G+1 structure accommodating weapon store rooms,

armor shop, guard rooms, offices and a workshop.

n. Medical Facility: The building is designed as G+1 structure having 4 bedded & 8 bedded wards with attached common toilets. The building also has several healthcare & treatment rooms, labs, cafeteria, dispensary etc.

o. Miscellaneous (Shopping Complex)/ Bank/ ATM/ Post Office: The building has shops, bank, post office, photo gallery, toilets catering to the daily needs of the

residents.

p. Parade Ground/ 200m Athletic Track/ Viewer's Gallery: It is a single storey structure accommodating Spectators gallery area above with toilets below it. The parade ground also having a 200m Athletic track located in the center.

q. Motor Garage: The building houses different sized garages, air check point, stores,

petrol booth, office, toilets, etc.

r. Guard Room/ Control Room/ Reception : This building houses a reception, waiting area, visitor's toilet and a 6 bedded guard room with attached common toilet.

s. Indoor Firing Block (50m): The building has an enclosed 50m firing range with 10

firing stations, viewing gallery and a lobby.

t. Swimming Pool, Gymnasium, and Health Club: This single storey building has a swimming pool of 50 x 25m size with changing rooms (depth varying from 1.05m to 5m), Gymnasium, Yoga room and a Spa with Jacuzzi, sauna, steam bath, etc.

u. Ammunition Store: This building consists of two ammunition rooms surrounded by

earthen embankment on three sides.

#### 3. Service Blocks

a. Support Service Block: The building is designed as a single storey complex accommodating different maintenance sections like plumbing, salon, laundry, communication, clinging, etc.

b. Pump Room and Water Storage Tanks: The underground water tanks have been proposed for a total capacity of 635,000 liters of which 200,000 liters has been provisioned as a static fire water tank with an underground pump room. An overhead tank of 202,000 liters capacity has also been proposed for the campus.

c. Electric Substation: This single Storey structure shall house the HT panels,

Transformers, LT panels and Diesel Generators.

#### 4. Open Areas

a. 200m Firing Range: The 200m firing range has two firing points located at a distance of 100m each. The range is located at the periphery of the campus away from all residential and non-residential areas.

b. Obstacle/ Outdoor Training ground: It has different kinds of obstacles like tarzan hand walk, step up, ranger crawl, tiger leap, spider web, parallel rope bridge, etc.

### 5. Horticulture & Landscaping:

The academy shall have plantation and landscaping with locally available evergreen tree's, shrubs and flowering plants. This has been proposed to provide a pleasing ambience and make the Academy environment friendly. All plantation of the garden area i.e. shrubs,





hedges, potted plants, flowers beds, creepers etc. and other features shall be done in harmony with the local aesthetics of Nepal.

Before undergoing into the construction phase, Proponent shall have to submit application with Project design and take approval on the design from Panauti Municipality.

# 2.7 Project Related Key Activities

There are basically three phases proposed for this Project namely as Preconstruction, Construction and Operation and Maintenance Phases. All the Project activities are categorized on the basis of these phases.

#### 2.7.1 Pre-Construction Phase

Pre-engineering study, study on geological and geo-technical research, site survey, seismic study, environmental study, etc. will be carried during this phase. Other activities related to this phase will be as follows:

- · Demarcation and Fencing of Project site boundary.
- Preparation and Approval of EIA study
- · Contract opening and award.
- Identification of supplies of water
- · All legal clearance from concerned authority.

#### 2.7.2 Construction Phase:

The construction phase consists of the main works of Project implementation. The major components which are listed in Chapter 2.6 will be constructed at this stage.

## 2.7.3 Operation and Maintenance Phase:

At this stage, the Project will be operated to fulfill the objective of NPA as mentioned in Chapter 2.1. Moreover, regular cleaning and maintenance of drainage, water and waste water treatment plant, boundary walls, internal maintenance, etc. will be carried out in this phase.

#### 2.8 Construction Period

The estimated construction period of this Project is 3 years. Monsoon and other unforeseen obstacles are considered as the challenges of Project construction implementation which may delay the anticipated time period.

# 2.9 Types and Area of Land

For the proposed Project of NPA, a total of 41.86 hectares (ha) land is allocated, out of which 10.92ha land will be built up area used for Project related infrastructure and 30.94ha land will be left for open. The detail category of the land is tabulated below:





Table 2.9-1: Land Types and Area in Project Footprint Area

S.N.	Land Ownership	Area of Land (ha)
1,	Forest Area	6.7
	Devithan (Kha) Community Forest	3.6
	National Forest	3.1
2.	NPA Owned Land	35.16
	Total	41.86

Source: Documents of NPA Project

Almost all the building structures will be constructed within the area of land owned by NPA. The outdoor facilities like parade ground, firing range, horse riding will be constructed with minimal loss of tree species from the forests. The detail of components, occupying area and trees to be cleared from the forest area during the Project construction will be included in EIA report. GoN and Devithan (Kha) CF has agreed for the use of forest land plot from NPA in 2052/04/17 and 2076/05/03 (APPENDIX 3).

# 2.10 Requirements for the Proposed Project

#### 2.10.1 Human Resources

The detailed estimates of human resources for this Project are not available in DPR, however based on the construction of building Project of similar nature, about 530000 (484 workforce per day) workforce or 242 (50%) each skilled and unskilled workforce will be required on a daily basis during the time of 3 years construction period. The possibility of deficit of local workforce might exist on a daily basis as it uses huge mass of labor force during construction phase. On such, contractor might recruit workforce from the outer range also.

# 2.10.2 Construction Material Source and Quantity

The detailed estimates of component wise material quantities are not available in DPR, however, the construction material have been described on the basis of weightage value presented in the following table as:

Table 2.10-1: Weightage of Construction Material Quantity

S.N.	Description	Unit	Weightage
1	Brick (Ash Fly)	1000no	8.00
2	Cement (OPC)	Quintal	14.50
3	TMT Steel	Quintal	19.50
4	Aggregates (20mm)	cum	6.50
5	Sand (Coarse Sand)	cum	3,00
6	Flooring Items	sq.m	5.00
7	Paints	liter	3.00
8	Doors/Window/Frame (uPVC-Al-Steel)	sq.m	7.00
9	Pipes met	meter	2.50
10	Lamps and Fans	each	4.50
11	Electrical Machinery	each	2.50
12	Wires and Cables	100metre	4.00
13	Labor (Skilled-50% & Unskilled-50%)	each	20.00
	Total	100.00	

Source: Detailed Project Report for NPA Project, 2019





The required construction material during the construction phase will be procured from the nearest legal markets: Sanga and Banepa. The supply of construction material for these depots will be from environmentally approved sites located at Melamchi, Bhakunde Besi and Panauti (Roshi Khola Quarry Sites). The construction material will be stockpiled within the Project site boundary only. Also, the supply chain and management of construction materials will be maintained on such a way that the material will not be procured at once and or over stored.

#### 2.10.3 Construction Schedule

The overall time period for the construction work is for 3 years (DPR of NPA Project, 2019).

ARCHTECTURAL CIVIL A DURATION (IN MONTHS)

DESCRIPTION | 2 3 4 5 6 7 8 7 10 11 12 13 14 15 14 17 18 19 20 21 22 20 34 25 24 27 28 27 30 37 37 38 38 38 11 INITIAL PLANNING

2 PHASE 1

3 PHASE 2

4 PHASE 3

Table 2.10-2: Construction Schedule of the Project



Figure 2.10-1: Site Layout Plan

Source: Detailed Project Report of Construction of National Police Adademy at Kasrepalanchasek, Nepal.





# 2.10.4 Energy Types and Quantity

Management of energy source is one of the main components for this Project to be accomplished. The electricity supplied by the Nepal Electricity Authority (NEA will be the main source of energy for lighting. During the time of construction, 2\*1500kVA electrical substation shall be placed in the project site by the NEA through national grid connection. At the time of power load shedding, low noise generation Diesel Generator (DG) of capacity 2\*750kVA will be used. Apart from electricity, LPG will be supplied for the preparation of food for workforce and staffs. Meanwhile, the petroleum products like petrol, diesel, kerosene, LPG, bitumen will be procured from Nepal Oil Corporation. The total types and quantity of source of energy will be incorporated in EIA study report.

# 2.10.5 Major Construction Equipment

Most of the major construction equipment used for the construction of building is available locally within the country. The reliability of such equipment in local market, however, is unknown, and the possibility of importing will also be considered during the basic construction phase. Heavy machinery and equipment like excavators, bull dozers, giant breaker, dump truck, truck crane, loaders, tippers, tractors, water tankers, vibrators, rollers, concrete mixers and workers will be used for the proposed Project construction work.

# 2.10.6 Project Associated/Ancillary Facilities

# 1. Waste Generation and Management Options

The NPA is expected to generate 59.5Kg/day (484\*123.62 g/capita/day<sup>2</sup> =59.5Kg/day) in total and/or 30.4Kg organic biodegradable waste on a daily basis generated during the construction phase and will be managed within the Project boundary. During operation phase, NPA estimates to generate 424.35Kg/day (for 3450 individuals) of which 216.42Kg will be biodegradable waste in full occupancy. In both phases, biodegradable waste shall be managed within the NPA premises and used for horticulture and landscaping.

In general, the waste will be of two categories as:

- 1. Organic Waste (bio-degradable)
- 2. Inorganic Waste (non-biodegradable)

The waste generated during construction within the Project area are cement bags, iron bars, and other leftover construction materials, and waste generated in the labor camp. Biodegradable wastes generated from labor camp may give foul smell, and attract rodents. It will cause adverse impact, if not properly managed. The generated waste in the form as organic and inorganic wastes will be of both hazardous and non-hazardous types.

<sup>410</sup>B, 2013: Solid Waste Management, and Composition Practices of Municipalities in 2012 in Annals



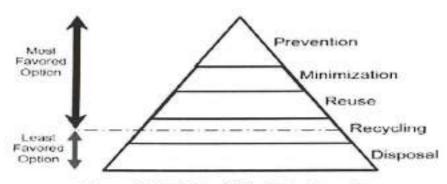


Figure 2.10-2: Waste Minimization Pyramid

The basic Solid Waste Management Regulation 2070 and its principles will be duly applied for waste management as:

- Source segregation of organic and inorganic wastes in different storage areas or facilities in the designated location.
- The biodegradable waste generated from the campsite shall be managed through constructing a ground pit, and covered by the sufficient thick layer of soil on daily basis.
- Reusable waste like debris, broken brick pieces, sand, stone, waste cement, and sand mix will be used as refills for ground leveling.
- The packing materials used for casing components should be recyclable, and nonhazardous.
- The construction contractor shall ensure proper management of ground drainage from camps as a preventive measure against breeding places of mosquitoes, and other pests.
- Recyclable wastes like left out/non-usable reinforcement bars and packing materials shall be sent or sold to scrap vendors.
- Chemical waste generated from garages shall be collected in leakage proof, corrosion free, specially designed container and sealed carefully.
- Effective coordination shall be done with local level government for proper waste management during construction period.

To deal with various wastes, separate and detailed WMP (solid and liquid) will be discussed in EIA study report.

# 2. Water Storage and Supply System

The detailed estimates of water requirement during the construction period are not available in DPR, however the supply of water will be fulfilled from municipal water supply and water tankers from legally operating local authorities in the initial phase of construction. From the preliminary estimation, 40000kl (36530 liters per day) water will be required during construction phase. Of the total per day requirement, 24200liter water will be required for labor (maintaining hygiene and preparing food at 50liter/day) and 12330liter will be used for construction work. To overcome deficit after supply from municipal system, installation and operation of deep boring will also undergo at early phase of construction. For this, approval for deep boring installation shall be taken from



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Panauti Municipality as per provision stated in Water Resource Use Regulations 2076 BS of Panauti Municipality at early stage of construction phase.

In case for operation phase, the underground water tanks having a total capacity of 635,000 liters of which 200,000 liters will be provisioned as a static fire water tank with an underground pump room. An overhead tank of 202,000 liters capacity has also been proposed for the campus.

The volume wise information of the water to be used during construction and operation phase will be addressed in EIA report.

# 3. Waste Water Management

National Police Academy will develop the waste water treatment plant to treat waste water. For waste water treatment, NPA will install the Moving Bed Biofilm Reactor (MBBR) waste treatment technology. During construction and operation phase, the generation of liquid waste is estimated as:

Sewerage generation during Construction Phase:

80% of 24200 liter (484 labors\*50liters water/day) 19360 liter sewerage per day for 484 labors will be managed in soak pit

Sewerage Treatment Plant Facility during Operation Phase: 80% of 440000 liter flow

350000 liter sewerage per day will be treated from STP for 3450 persons.<sup>3</sup>

Moving Bed Biofilm Reactor (MBBR): Moving bed biofilm reactor (MBBR) is a type of wastewater treatment process. The MBBR system consists of an aeration tank (similar to an activated sludge tank) with special plastic carriers that provide a surface where a biofilm can grow. The carriers are made of a material with a density close to the density of water (1 g/cm³). An example is high-density polyethylene (HDPE) which has a density close to 0.95 g/cm³]<sup>4</sup>. The carriers will be mixed in the tank by the aeration system and thus will have good contact between the substrate in the influent wastewater and the biomass on the carriers.

<sup>3</sup> Basis for calculation of STP is referenced from DPR of NPA Project, 2019.

\* https://en.wikipedia.org/wiki/Moving\_bed\_biofilm\_reactor, Retrieved on 09/03/2022



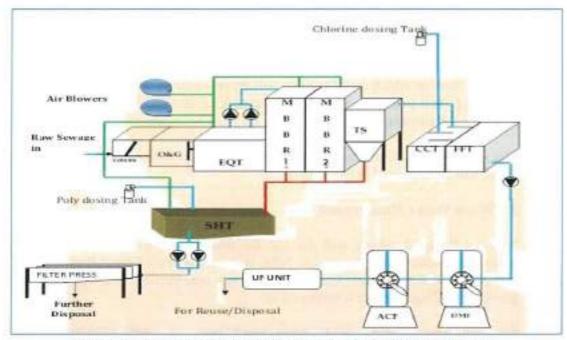


Figure 2.10-3: Typical Process Flow Diagram of MBBR Technology

MBBR systems don't need a recycling of the sludge, which is the case with activated sludge systems. Some other advantages compared to activated sludge systems are:

- Higher effective Sludge Retention Time (SRT) which is favorable for nitrification
- Responds to load fluctuations without operator intervention
- Lower sludge production
- Less area required
- Resilient to toxic shock
- Process performance independent of secondary clarifier (due to the fact that there is no sludge return line)

Thus, the liquid waste generated in NPA is collected, screened and transported to treatment. After the sludge gets treated at MBBR system, it goes to recharge pit.

#### 4. Rain Water Harvesting and Recharge Pit

The proponent will install rain water harvesting system in the NPA from a total area of 338,196.05 sq.m. Rain water collection system will be established within NPA by the proponent to recharge the ground water table through separate recharge pit.

The volume of water harvested per year, and its use will be addressed in EIA report.

#### 5. Multi Disaster Risk Management

Nepal lies in one of the youngest mountain ranges of the world. Geologically, the proposed Project site is located between Main Boundary Thrust (MBT) and Main Central Thrust (MCT). This might have consequences with major natural disasters. The recurrent multiple hazards of natural and human induced disasters like flood, landslide, thunderbolt, fire, road accidents, and epidemics every year within the country suffers from great loss of





human lives and damage to properties. The country is mostly affected by natural hazards like earthquake, flood, landslide, soil erosion, inundation, lightning, drought, snowstorm, hailstorm, avalanche, deluge, drought, windstorm, cold wave, heat wave and forest fire due to the adverse geography, fragile geology, climate variability and climate change.

To prevent from any unforeseeable disasters, NPA will fully adopt National Building Code (NBC) of Nepal and International Standards (IS) best practices. The proper security system, alarm and PAS (Public Announcement System) for emergency announcement, the lift and proper emergency exits are needed for emergency preparedness which will be adopted within the building structures. There has been provisional opening for emergency exits system through fires safety staircase in order to avoid and reduce accidental hazard.

To prevent any unforeseeable disasters, the listed actions will be taken:

- Competency-based training programs about emergency preparedness, the response will be delivered to all personnel, and that all workers shall be familiar and competent with emergency management procedures.
- Emergency response capabilities which include all fire, medical, and rescue equipment will be maintained to an operational standard, reviewed, and documented regularly.
  - Employers shall be urged:
  - to comply with all site safety rules and procedures.
  - to alert at all times to potential hazards.
  - to participate in the identification and elimination of hazards.
- National Policy for Disaster Risk Reduction 2018<sup>5</sup> will be duly adopted in order to substantially reduce the natural and human induced disaster losses in lives and properties of persons, health, means of livelihood and production, physical and social infrastructures, cultural and environmental assets.

The detail plan on multi hazard risk and management options will be incorporated in EIA report.

#### 6. Stockpiling in Campsite Area

Construction materials like cement, aggregates, sand, steel bar, stone/boulder, pipes, generator, acid, transformer, lubricants and heavy machinery and equipment like excavators, bulldozers, loaders, tippers, trucks, tractors, screen plants, water tankers, vibrators, rollers, concrete mixers will be located at the optimal ease locations with respect to be approachable.

#### 7. Spoil or Muck Generation and Disposal

After the Project starts, it will go through both excavation and filling of spoils. From a preliminary estimation in DPR, nearly 67,180.5cum spoil will be generated from the foundation work. For this, the spoil will be used in filling at outdoor play ground, parking



areas, backfilling of retaining walls, levelling of ground near entrance area of NPA and internal access road construction work. Similarly, the construction waste like steel bar pieces, broken bricks, and construction materials will be managed around the construction site and/or sold to nearest community or will be used in other purposes.

#### 8. Project Area Delineation

For the study of EIA, the possible areas where the impacts can be expected are delineated as Direct Impact Area (DIA) and Indirect Impact Area (IIA). The description of the delineated areas, along the alignment is described as follows:

Direct Impact Area: The Direct Impact Area (DIA) refers to the permanent and temporary land use for the Project construction activities. The DIA is also considered the Project Footprint Area (PFA) where the Project related infrastructure lies.

Indirect Impact Area: Immediate adjacent area of 500m beyond the PFA is considered as the Indirect Impact Area (IIA).

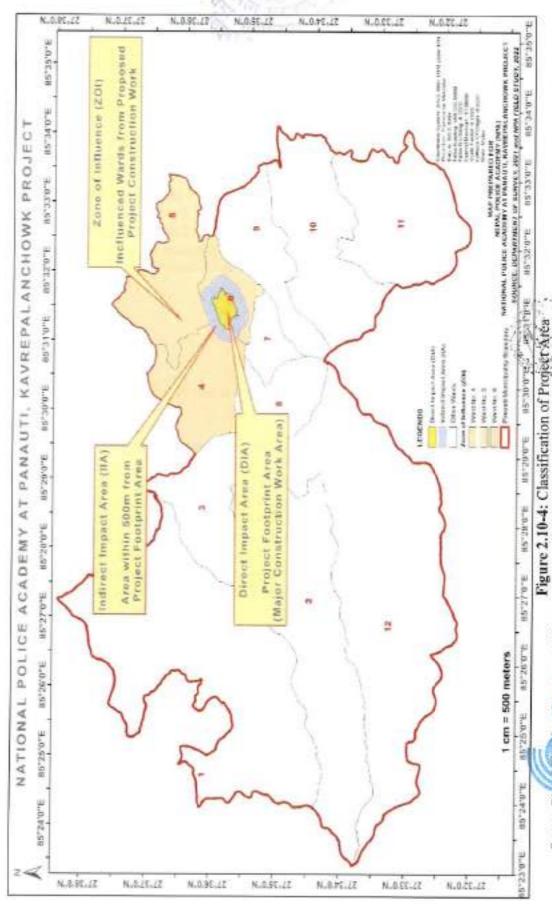
Zone of Influence: The proposed Project is planned in ward No. 6 of Panauti Municipality. The adjoining ward to ward No. 6 of Panauti Municipality are ward No. 4 & 5. Hence, all these wards (4, 5 & 6) are considered as Zone of Influence (ZoI).

Table 2.10-3: Municipality and Wards included in the Project Affected Area

	District / Municipality	Affected Ward/ Municipality
DIA	Vermodenskood	Project Footprint Area (Project Boundary)
IA	Kavrepalanchowk,	500m beyond DIA area
IIA ZoI	Panauti Municipality	Panauti Municipality- 4, 5 & 6







Data Front Department of Sturrey, 2021 and Detailed Project Report of Constitution of National Police Academy at Korrepalanchowk, Napol, 2019

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25 Page

#### CHAPTER 3: METHODOLOGY FOR EIA STUDY

This Chapter describes the methods that will be adopted for EIA study based on methods provisioned in EPA-2076, and EPR-2077. The principal steps that will be undertaken in the EIA study are described under following headings:

- · Literature review of relevant documents and map interpretation,
- Public Consultation process (public notice affixation, public notice publication, formal meetings, public hearing and so on)
- Site inspection and field study to collect detail primary information on physical, biological, socio-economic, cultural and historical aspects,
- · Validation of secondary information with published data from GoN,
- Compilation of data, identification and prioritization of potential issues, EMP, and other Chapters as per Schedule 12 of EPR 2077, requirements that need to be included in EIA study report.
- · Preparation of final EIA Report.

# 3.1 Preparatory Works for EIA Study

#### 3.1.1 Desk Study

All the relevant materials associated with Project will be collected and reviewed as:

- DPR of NPA Project.
- · Memorandum of Understanding (MoU) document between GoN and GoI,
- GoN cabinet decisions on NPA.
- Land use and ownership certificates,
- Census Statistics of Nepal Published by Central Bureau of Statistics, 2011 for Kavrepalanchowk District and Panauti Municipality's Profiles,
- Review of Relevant Government's Policies, Laws, Guidelines and Manuals as listed in Chapter 4.
- Publications from Ministry of Forest and Environment (MoFE), Ministry of Home Affairs (MoHA), Nepal Police (NP) and National Police Academy official webportal, Department of Hydrology and Meteorology (DHM), Department of Mines and Geology (DMG), Department of Survey (DoS), and
- Similar previous environmental study reports.

#### 3.2 Preparation of Checklist/Matrix and Questionnaires

The field checklist related to physical, biological, socio-economic and cultural environment will be prepared as per the norms mentioned in Schedule 12 of EPR 2077.

#### 3.3 Field Study and Collection of Baseline Data

The field study will be conducted to generate information on physical and biological resources and social and cultural status. Information on major flora and fauna species will be collected though walk-through survey, secondary published sources from GoN. The information related to socio-economic aspects of the proposed Project site and peripheral area of Project will be collected through adopting questionnaires. Key Informant Interview (KII), Focus Group Discussion (FGD).

26 | ₽age

# 3.3.1 Physical Environment Data Collection and Analysis

Field observation and walk-through survey will be adopted to collect information. The physical factors have direct impact on the construction and operation of the project to the project site. The required data from physical aspects include; topographical data, climatic data, meteorological data (temperature and precipitation), geological, land use pattern, water, air and noise quality, solid waste management, chemical spills, landslides/erosion, muck/spoil disposal, work camp and labor camp and other information concerning physical resources of the project area will be collected.

Table 3.3-1: Summary of Physical-Chemical Environment and Methods Adopted for Collecting
Data

Indicators	Information/Data Collection Methods
Physical Environt	neat
Temperature and Rainfall	Analysis of Data from Department of Hydrology and Meteorology (DHM)
Characteristics of River/Khola	Data analysis from secondary data (if available), field study and observation, using checklist with the indication of characteristics of rivers/Khola
Air Quality	Air quality measurement at the two different point using low volume sampler for 24 hours within the Project site; analysis of PM 25 and PM10 will be done.
Water Quality	Observation of the water sources (river/streams) within the Project area and water samples analysis with scientific norms and standards in GoN  Analysis of water sources from  Punyamata Khola (at Entrance Location): pH, TSS, DO, COD, BOD, Nitrate-N, Ammonia-N, PO <sub>4</sub> -P  Spout (Spring Well): Temperature, pH at 24°C, Electrical Conductivity,
Sound Quality	Turbidity, Total Hardness as CaCO <sub>3</sub> , Total Alkalinity as CaCO <sub>5</sub> , Chloride, Ammonia, E.coli. Total Coliform  Both the samples will be collected and analyzed in laboratory  Noise quality measurement at the two different point for 24 hours within the
Geological Study	Project site  Analysis of soil types, rock types, geological structure formation, etc. using secondary source and field visit
Slope Stability	Measurement of length, width, depth and status of landslides within the Projec site.
Public Property	Field study and observation, use of checklists, listing of public property, use of GPS with the noting of coordinates etc.
Ancillary Facilities of Projects	Information in brief on different sites such as labor camp, stockpiling sites and muck/spoil management sites
Land Use	Categorization of land use data for public land, private land, forest area, agricultural land, river uplift area, barren land etc.  Measurement of area of land within the Direct Impact-Area
Solid Waste	Consultation with public and concerned municipality for practice of waste
Management	management
Bitumen and	Probable impacts on adjoining forest area and emission from during-



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Indicators	Information/Data Collection Methods	
Chemicals	construction and operation phase	
	Emission will be calculated as per IPCC standard	

# 3.3.2 Biological Environment Data Collection and Analysis

<u>Vegetation:</u> During the biological survey, transect survey, sampling of vegetation and census survey will be completed from DIA. Transect and sampling of vegetation using 10 circular quadrate of radius 12.5m will be laid to know the species diversity of forests. Inventory of the likely loss of trees in forest due to construction activities will be made through measuring diameter of tree' Diameter at Breast Height (DBH) at 1.3m height, height of individual tree and Global Positioning System (GPS) coordinates of each tree species will be recorded and tabulated.

Based on the tree inventory, the total numbers of trees to be cleared from the entire required forest area are calculated.

Table 3.3-2: Categorization of Trees/Poles/Saplings

Categories of Plants	Criteria of Measurement	Reference	
Trees	>30 cm		
Poles	10-30 cm	Forest Regulation, 2079 [Related with Rule 19 (2) a	
Sapling	<10 cm and height <1.35 m	Rule 131 (Ka) & (Gha) and Schedule-9]	

With this, the basal area and volume of stem will be calculated. The analysis of forest data will be done and incorporated in the EIA Report as obtained from the formula mentioned in Schedule-9 of Forest Regulation, 2079 BS as:

#### Stem Volume

<u>Wildlife:</u> Wildlife survey will be studied to know the forest area, wildlife habitat, grazing area and wildlife corridor. For this, transect survey, direct observation, and consultation with local people will be completed through the use of checklist. Thus, the data obtained will be analyzed using the GoN, IUCN and CITES norms and criteria for prioritizing wildlife conservation status later in the EIA Report.





Table 3.3-3: Summary of Biological Environment and Methods Adopted for Collecting Data

Indicators	Information/Data Collection Methods			
Biological Environment	The state of the s			
Forest types and Management Perspectives	Use of checklists, field study and observation, listing of forest types, public consultation, use of GPS with the noting of coordinates, Use of Geographic Information System (GIS) etc.			
Vegetation	Details of vegetation within the Project site, measurement of volume that can be destructed with the use of scientific methods and tools, protected species (Government of Nepal, IUCN and CITIES Protected) will be clearly mentioned			
Wildlife (Aquatic animal, Mammals, Amphibians, Reptiles, Birds)	Transect survey, literatures review from the data of secondary sources like DoF, DFO, National Biodiversity Strategy, CBS/Environmental Statistics of Nepal, Consultation with the local people, Direct observation use of prevalent scientific methods and tools, etc.  Protected species (Government of Nepal, IUCN and CITES Protected) will be clearly mentioned			

# 3.3.3 Socio-Economic and Cultural Environment Data Collection and Analysis

Of the total area, 6.7ha of forest area owned by GoN and 1.43ha built-up area, 0.15ha stream area and rest land of 33.58ha is owned by NPA. There are no any private households and public infrastructures within the proposed Project boundary or DIA. Information on socio-economic and cultural features of the nearby Project area (ward no. 6) like population, ethnicity, occupation status, education level, settlement pattern, religion, cultural and religious sites, sources of energy and energy consumption, social infrastructures, market centers, etc. will be taken reference from the particularly published data from CBS 2011 (CBS 2021 data is unavailable) for Panauti Municipality will be generated and described. During the field visit baseline information of households from the IIA will be collected using FGD tool. At the same time, KII will also be used to gather information on the historical, cultural and socio-economic context of peripheral and Panauti Municipality aspects. Additionally, the raised issues during scoping study will also be studied during EIA study phase.

Table 3.3-4: Summary of Socio-Economic Environment and Methods Adopted for Collecting
Data

Indicators	Information/Data Collection Methods			
Socio-Economic-	Cultural Environment			
Population and Households (HHs) details of SPA	Use of secondary source of information from the published source from CBS/NPC, 2011 and Panauti Municipality Profiles  None of the HHs lies within the CPA.  Information regarding Socio-Economic-Cultural Environment			
Traditional, Cultural, Historical, and ancient sites, Direct observation, Public consultation, F Group Discussion (FGD), Key Informant Interview (KII) etc.  Listing of coordinate of Traditional, Cultural, Historical, and ancien				
Public issues	Stakeholder Consultation: People or institution concerned with Project activities Focus Group Discussion: Users Committee, Women's Group Key Informant Interview: Ward Chairman of Ward No. 6 Group Discussion: All Stakeholders  Noting all Public issues, Minutes of meeting organized, collection of Deed			





Indicators	Information/Data Collection Methods	
	of enquiry and Recommendation letters	

# 3.3.4 Tracking Environmental Issues from the Field

All potential Project impacts on physical, biological, socio-economic and cultural resources will be integrated and assessed using best practice of Multilateral Development Banks/Governments, as well as compliance with national requirements. The Geographic Information System (GIS) and SW Maps will be used for the field assessment. The analysis and presentation of data in the maps will be prioritized and incorporated in the EIA report.

# 3.3.5 Conduction of Consultation, Interactions Meeting and Public Hearing

During the field study, study team will contact the local community to solicit their concerns and opinions on physical, biological, socio-economic, cultural and historical aspects. The public inputs will be documented in EIA Report.

- Interaction Meetings: Various levels of different formal and informal stakeholder consultation meetings will be conducted in the Project area.
- 2. Focus Group Discussion: A Focus Group Discussion will be carried out to understand the existing socio-economic and cultural situation and perception of people towards the Project. During discussion, people's understanding of the Project's suitability, short-term, long-term impacts and benefits will be discussed and issues will be noted in minutes and photographs.
- 3. Public Hearing: Rule 6 of EPR 2020 has mandatory provisions for conducting public hearing sessions in one or more locations based on geography and accessibility. This is a point Project and lies within ward no. 6 of Panauti Municipality for which only one Public Hearing will be sufficient to address the context. While, Rule 7 of EPR 2020 has provision of receiving issues by 7 days in written form from the concerned stakeholders associated with the Project. Rule 8 of EPR 2020 has provision to collect recommendation letters in the format in Schedule-14 of EPR 2077 from the concerned local level and/or respective offices.

The public notice including objectives of public hearing venue and time requesting their active participation during the Public Hearing will be published in national newspaper as per Schedule 9 of EPR 2077. To share this information among wide range of community, jingle will be played in local Radio/F.M. before a week from the day of hearing scheduled. In the meantime, the notice of hearing will be sent to the local level and other stakeholders through invitation letter. Hard copies of summary of Project features and activities in Nepali language will be shared at the time of hearing. EIA study team will be present at the time of event and will facilitate the issues raised from the stakeholders. The proof of event will also be recorded in video, audio and photographs. The views/consent, concerns, recommendations/suggestions, and demands of the participants will be documented in the form of minutes and incorporated in the EIA Report.





## 3.4 Preparation of EIA Report

# 3.4.1 Compilation of Baseline Information, Impact Identification, Prediction and Evaluation

Based on the primary and secondary information, the baseline information related to the issues as indicated will be compiled and presented in EIA study report. After field visit, the data, and feedback will be put together to identify the associated impacts, their magnitude, extent and duration which shall be further ranked based on matrix in Table 8.2 in Schedule-12 of EPR 2077. Based on impact ranking, their respective mitigation measures will be proposed.

# 3.4.2 Preparation of Environment Management Plan (EMP)

The basic objectives of EMP are to: clearly spell out the environmental concerns of the Project; and prescribe a systematic environmental management system to be followed to attain the environmental improvements in and around the Project vicinity.

Environment Management Plan (EMP) will be prepared to ensure and evaluate the effectiveness of each of the mitigation and enhancement measures adopted to minimize the environmental impacts on making acceptable environmental conditions within the region of influence. The associated costs for adopting mitigation measures and enhancement measures will be estimated and addressed in EIA Report.

# 3.4.3 Prescription of Mitigation and Enhancement Measures, Monitoring and Auditing

The mitigation and enhancement measures will be proposed in order to enhance the beneficial impacts and avoid or mitigate the adverse impacts considering the identified impacts, their nature, extent and complexity, identified during the EIA exercise. While recommending the mitigation option, a realistic approach will be applied such that the measures could be employed in the local context. Environmental Monitoring Plan (EMoP) will be formulated to assess the effectiveness and implementation status of mitigation and benefit augmentation measures. Auditing plan will be also designed and addressed procedural activities within the EIA Report as per Chapter 10 of Scheule-12 of EPR, 2077.

## 3.4.4 Alternative Analysis

A Chapter on the possible alternatives to the Project's design and components will be identified and discussed in EIA Report.





# CHAPTER 4: REVIEW OF POLICY, LEGISLATION, GUIDELINES

This EIA report will be prepared in accordance with GoN requirements. During the preparation of EIA report the following policies, laws and guidelines and appropriate information will be reviewed. The listed policies, legislation guidelines will be reviewed in while conducting EIA study and report preparation phase as:

# 4.1 Constitution of Nepal

# 4.2 Plan, Policies and Strategies

- 1. National Adaptation Plan (NAP) 2078-2107 BS
- 2. Forest Area Strategy (2073-2082 BS)
- Fifth Plan (Fiscal Year 2076/77-2080/81) BS
- 4. National Climate Change Policy, 2076 BS
- 5. National Environment Policy, 2076 BS
- 6. National Forest Policy, 2076 BS
- 7. Land Use Policy, 2075 BS
- 8. National Urban Development Strategy, 2074 BS
- 9. National Employment Policy, 2071 BS for Construction Sector
- Public Infrastructure Construction and Operation Policy 2057 BS

#### 4.3 Acts

- Environment Protection Act, 2076 BS
- 2. Forest Act, 2076 BS
- Land Use Act, 2076 BS
- 4. Building Act, 2075 BS
- The Foreign Investment and Technology Transfer Act, 2075 BS
- Public Health Services Act, 2075 BS
- 7. Children's Act, 2075 BS
- 8. Right to Employment Act, 2075 BS
- The National Civil (Code) Act, 2074 BS
- 10. Human Rights of Persons with Disabilities Act, 2074 BS
- 11. Civil Rights Act, 2074 BS
- 12. Labor Act, 2074 BS
- 13. Disaster Risk Reduction and Management Act, 2074 BS
- 14. Local Government Operation Act, 2074 BS
- The International Trade in Endangered Species of Wild Fauna and Flora Act, 2073
   BS
- Sexual Harassment at Workplace Prevention Act, 2071 BS
- 17. Solid Waste Management Act, 2068 BS
- 18. Plant Protection Act, 2064 BS
- 19. Child Labor (Prohibition) Act, 2056 BS
- 20. Water Resources Act, 2049 BS
- 21. Soil and Watershed Conservation Act, 2039 BS
- National Parks and Wildlife Conservation Act, 2029 BS
- 23. Aquatic Protection Act, 2017 BS
- Police Act, 2012 BS (Amendment in 2066 BS)







# 4.4 Rules/Regulations

- Forest Regulation, 2079 BS
- 2. Environmental Protection Regulation, 2077 BS
- Disaster Risk Reduction and Management Regulation, 2076 BS
- National Natural Resources and Finance Commission Regulation, 2076 BS
- Endangered Wildlife and Flora International Trade Control Regulation, 2076 BS
- 6. Labor Regulation, 2075 BS
- National Social Security Regulation, 2075 BS
- 8. Police Regulation, 2071 BS (Eighth Amendment)
- 9. Solid Waste Management Regulation, 2070 BS
- 10. Building Regulation, 2066 BS
- 11. Child Labor (Prohibition and Restriction) Regulation, 2062 BS
- Ozone Depletion Consumption (Control) Regulation, 2057 BS
- 13. Mining and Minerals Regulation, 2056 BS
- 14. Land and Watershed Protection Regulation, 2042 BS
- 15. Land Rules, 2021 BS
- 16. Aquatic (Thek) Rules, 2019 BS
- 17. The Nepal Civil (Code) Procedure, 2076 BS

#### 4.5 Guidelines and Directives

- 1. Wildlife Friendly Infrastructure Construction Guideline 2078 BS
- Procedure with Criteria for Using National Forest Area for National Priority Project, 2076 BS
- 3. NTFP Inventory Guidelines, 2068 BS
- 4. Forest Fire Management Strategy 2067 BS
- 5. EIA Guidelines for the Forestry Sector, 2052 BS

#### 4.6 National Standards

- Nepal National Building Code 2077 BS
- 2. National Standards for Sound Quality, 2069 BS
- National Transport Emission Standards, 2069 BS
- 4. Emission Criteria for Diesel Generators, 2069 BS
- Nepal Water Quality Guidelines for the Protection of Aquatic Ecosystem, 2065 BS
- National Standards on Air Quality, 2062 BS
- Nepal Vehicle Pollution Standards, 2062 BS
- National Drinking Water Quality Standards, 2062 BS

## 4.7 International Conventions, Agreements and Treaties

- The Stockholm Convention on the Continuously Increasing Permanent Pollutants, 2001
- Kyoto Protocol to the United Nations Framework Convention on Climate Change, 1997
- 3. United Nations Framework Convention on Climate Change, 1994
- 4. Convention on Biological Diversity, (CBD) 1992
- Basel Convention, 1989
- Convention on International Trade in Endangered Species (CITES), 1975



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# 7. ILO Convention, 1969

# 4.8 Bylaws Related with Panauti Municipality

- 1. Building Construction 2077 BS
- Act made in relation for Forest Management within the Panauti Municipality Area, 2077 BS
- 3. Disaster Risk Management Act, 2077 BS
- 4. Forest Management Act, 2077 BS
- 5. Land Development Guideline of Panauti Municipality 2076 BS
- 6. Water Resource Use Regulations, 2076 BS
- 7. Road Standard of Panauti Municipality, 2074 BS

Note: The policies and legislation review will be made further during EIA study. Also, if additional policies considered being important will be incorporated in the final EIA report.



# CHAPTER 5: TIME, BUDGET AND HUMAN RESOURCE

# 5.1 Time Frame for Preparation of EIA Report

Table 5.1-1: Schedule for Preparation of EIA Report

CNI A sabulation		Timeframe in Months								
SN	Activities	1	2	3	4	5	6	7	8	9
1.	Baseline information collection and pre- draft EIA report preparation after approval of SD & ToR		3							
2.	Notice pasting requesting issues letter by 7 days from the date of notice pasting and collection of notice affixation letter		To Dicker							
3.	Publication of notice in national newspaper stating to deliver issues (if any) to the Proponent by 7 days from the date of published notice and publish notice in Proponent website as well		STATE OF THE PARTY							
4.	Conduction of Public Hearing Program		1	11/2						
5.	Collection of recommendation letter from stakeholders as per Schedule 14 format							-		
6.	Preparation of EIA Report					1				1
7.	Submission of EIA Report to MoHA from NPA									
8.	Preparation of draft report incorporating comments from MoHA and submit to MoFE									
9.	Incorporation of comment from MoFE and submit again to MoFE									
10.	Publication of 7 day notice in national newspaper and in website from MoFE									
11.	Preparation of final EIA Report incorporating all the comment received and submitted it to MoFE again for approval process									
12.	Approval of EIA Report				17.7				11/10	

# 5.2 Estimated Budget for EIA Study

In order to complete Environmental Impact Assessment (EIA), the estimated budget will be of NRs. 10,73,000.00 including all the taxes and VAT.

# 5.3 Team of Experts for the EIA Study

Table 5.3-1: Study Team Proposed for the Preparation of EIA Report

S.N.	Expert Team	Lead As	Qualification
1.	Sudeep Ghimire	Team Leader/ Environmental Expert	M.Sc. in Environmental Science





S.N.	Expert Team	Lead As	Qualification	
2.	Bhuvan Keshar Sharma	Biodiversity Expert	Ph.D. in Conservation Biology	
3.	Badri Prasad Dhungana	Civil Engineer	M.Sc. Construction Management	
4.	Minesh Kumar Ghimire	Sociologist	M.A. in Sociology	
5.	Shristi Sharma	Environmentalist	M.Sc. in Environmental Science	
6.	Samir Thapa	Ass. Environmentalist	M.Sc. in Environmental Science	





# CHAPTER 6: PRIORITIZATION OF IMPACTS

## 6.1 Issues Identified by Stakeholders

Following are the issues raised by the stakeholders during the consultation at different period:

Table 6.1-1: Issues Identified by the Stakeholders

S.N.	Table 6.1-1: Issues Identified by the Sta Issues Raised by Stakeholders	Identification and Evaluation of Issues by Study Team
A.	Panauti Municipality (2079/02/30) M; 4 F: 1	Team: 3 Total: 8
	Addressing the availability of water from the spout within the Project boundary for Basnet Gaun     Relocation of bridge point     Availability of access road of GoN standard within the municipality.     Employment opportunity to local people based on qualification and skills.     Assurance of full support from local stakeholders during Subproject Implementation phase.	Comment addressed in Section 7.2     Positive response toward Project implementation
B.	Panauti Municipality (2079/03/15) M: 6 F:	
	1. Preservation and availability of drinking water spout within the Project boundary which is being used by people in Basnet Gaun 2. Assurance of access road throughout the Project boundary 3. Upgradation and expansion of Punyamata Corridor Road as per Feeder Road Standard 4. Proper coordination with Panauti Municipality for locating bridge and construction 5. Scientific management of solid waste and waste water generated from Project. 6. Preservation and rehabilitation of Bichari Pati and Muktinath Mandir in North-West side of Project 7. Preservation of cremation ground at North-West direction of Project site at the side Punyamata Khola. 8. Assurance of Stakeholders through support during the implementation of Project activities	Comment addressed in Section 7.2     Comment addressed in Section 7.2     Comment addressed in Section 7.2     Coordination with local level will be done before finalization of bridge survey     Comment addressed in Section 7.2     Commitment from the stakeholders towards Project, do not require during EIA study to be incorporated





#### 6.2 Issues Identified by the Study Team

The issues identified from the team of expert are as follows:

#### 6.2.1 Beneficial Impacts

#### A. Construction Phase

#### Physical Environment

1. Stabilization of unstable areas adjoining to Project boundary

#### Biological Environment

 Study on biological environment will help to know the diversity within forest will support in municipality profile updates.

#### Socio-Economic and Cultural Environment

- 1. Employment opportunity to the local people
- 2. Transfer of skill and knowledge development through training and orientation
- 3. Increase in economic activities due to supply of goods and services

#### B. Operation Phase

#### Physical Environment

1. Increase in aesthetic and environmental value

#### Socio-Economic and Cultural Environment

- 1. Development and promotion local trade and enterprise business development
- 2. Increase in economic valuation of land
- Increase in public related facilities
- Benefits from Community Social Responsibility (CSR) of the Project
- 5. Enhancement of skill and capacity of Nepal Police.

#### 6.2.2 Adverse Impacts

#### 6.2.2.1 Construction Phase

#### A. Physical Environment

- Change in land use
- Sewage generated from labor camps
- Generation of waste
- 4. Air and noise pollution
- 5. Disturbance in flow storm water
- Muck disposal
- Erosion and landslides
- 8. Traffic Management





9. Impact due to transportation of construction materials

#### B. Chemical Environment

- 1. Soil pollution from the use of chemicals
- 2. Spillage of floor cleaning solvents
- 3. Spillage of paints and solvents
- 4. Degradation of Punyamata Khola due to spoil and construction waste

#### C. Biological Environment

- 1. Loss of trees
- 2. Loss of habitat
- 3. Loss of NTFPs forest products
- 4. Illegal use of forest resources
- 5. Issues related to forest fire hazards

## D. Socio-Economic and Cultural Environment

- 1. Issues related to social use of spring well located inside Project boundary
- 2. Issues due to prohibition of livestock grazing
- 3. Issues during demarcation of Project boundary
- Social disputes from workers and community people
- 5. Occupational health and safety related issues
- 6. Issues related to child labor and gender

#### 6.2.2.2 Operation Phase

#### A. Physical Environment

- 1. Noise pollution
- 2. Water and sewerage related issues
- 3. Solid Waste Management Issues
- 4. Fire, accidental hazard
- 5. Issues of E-waste and management

#### B. Chemical Environment

- Spillage of chemical from motor garage and paints.
- 2. Issues due to floor cleaning liquid and solvents

#### C. Biological Environment

Spillage of cleaning chemicals solvents into the nearest Punyamata Khola

#### D. Socio-Economic and Cultural Environment

- 1. Issues of using road from Dalinchowk area community
- Issues due to prohibition of livestock grazing
- 3. Issues related to movement of staff with disability





#### CHAPTER 7: ANALYSIS

#### 7.1 Methods and Tools Used for Impact Identification and Evaluation

The issues identified in Chapter 6 will be ranked in a matrix as per the provision in Table 8.2 in Schedule-12 of EPR 2077. The issues will be determined using the following table and only the issues of medium and high importance have been prioritized by removing the issues of low importance.

Table 7.1-1: Impact Ranking Matrix as per EPR 2077

Magnitude	Score	Extent	Score	Duration	Score	Significance	Score
High	60	Regional	60	Long Term (>20 yrs)	20	Insignificant Impact	<50
Moderate	20	Local	20	Medium Term (3- 20 yrs)	10	Significant Impact	50-75
Low	10	Site Specific	10	Short Term (<3 yrs)	05	Very Significant Impact	>75

According to this rule, the total scores of impacts of over 75 is considered Very Significant; impacts having 50 to 75 are considered Significant; and impacts having total scores of less than 50 are considered Insignificant for this Project.

Table 7.1-2: Table for Impact Identification and Prioritization

Issues	Impacts		Impact	Rating		Total Rank	Significance of Impact
		Nature	Magnitude	Extent	Duration		78.70
	Impac	ts	Helioteck-co-co-co-in	27.11.770-751			
Constr	uction Phase						
	ion Phase						

7.2 Impact Identified, Evaluated and Prioritized for EIA Study

Table 7.2-1: Issues Prioritized for EIA Study Environmental S.N. Beneficial Impacts Adverse Impacts Aspects A. Physical and Chemical Environment 1. Change in land use 2. Sewage generated from labor camps 3. Generation of waste 4. Air and noise pollution Stabilization of unstable 5. Construction Disturbance in flow of storm water areas adjoining to Project 6. Phase Muck disposal boundary Erosion and landslides 8. Traffic Management Impact due to transportation of 9. construction materials:





S.N.	Environmental Aspects	Beneficial Impacts	Adverse Impacts
10.			Soil pollution from use of chemicals
11.			Spillage of floor cleaning solvents
12.			Spillage of paints and solvents
13.			Degradation of Punyamata Khola due to
14.			spoil and construction waste
1.			Noise pollution
2.	1		Water and sewerage related issues
3.			Solid waste management issues
4.	1	S N NN N	Fire, and accidental hazard
5.	Operation	Increase in aesthetic and	Issues of E-waste and management
6.	Phase	environmental value	Spillage of chemical from motor garage and paints.
7.			Issues due to floor cleaning liquid and
D	Distantes Design		solvents
B.	Biological Envir	onment T	I
1.			Loss of trees
2.		Study on biological	Loss of habitat
3.	100 TO 100 T	environment will help to	Loss of NTFPs forest products
4.	Construction	know the diversity within	Illegal use of forest resources
5.	Phase	forest will support in	Issues related to forest fire hazards
6.		municipality profile	Impact on the animal movement
7.		updates	Degradation of Punyamata Khola due to
0			spoil and construction waste
8. 9.	Operation Phase		Spillage of cleaning chemicals solvents into the nearest Punyamata Khola
C.	The second secon	and Cultural Environment	
1.		Employment opportunity	Issues related to social use of spring well located inside Project boundary
2.		to the local people	Issues due to prohibition of livestock grazing
3.	Construction Phase	Transfer of skill and knowledge development through training and orientation	Issues during demarcation of Project boundary
4.		Increase in economic activities due to supply of goods and services	Social disputes from workers and community people
5.			Assurance of availability of drinking water used by Basnet community
6.			Approach road necessary in Northern side and upgradation of corridor at the side of Project parallel to Punyamata Khola
7.			Preservation of Crematory Ground, Bicha pati and Muktinath Mandir along Punyamata Khola
8.			Occupational health and safety related issues
9.			Issues related to child labor and gender
1,	Operation Phase	Development and promotion local trade and enterprise business	Issues of using road from Dalinchowk are community





s.n.	Environmental Aspects	Beneficial Impacts	Adverse Impacts
		development	
2.		Increase in economic valuation of land	Issues due to prohibition of livestock grazing
3.		Increase in public related	Issues related to movement of staff with disability
4.		facilities	
5.		Benefits from Community Social Responsibility (CSR) of the Project	
6,		Enhancement of skill and capacity of Nepal Police	





#### CHAPTER 8: ALTERNATIVES

Alternatives are analyzed on the basis of pros and cons which provide a comprehensive discussion with explanation and argumentation for choice of options taking into account the respective environment, socio-economy and cost consideration. The potential impact on the environmental and social setting shall be discussed for each alternative as detailed in this chapter ahead keeping the main criteria of: Deign, Project site, Technology, Procedure of Operation, Time Schedule, Raw Materials as per mitigation measures based on avoidance, minimization, restoration and offset.

#### 8.1 Alternative Design

Alternative to design as per geographical, topographic, and other environmental aspects (like minimal tree cutting) study will be incorporated.

#### 8.2 Project Site

GoN has decided to construct NPA in Panauti, for which no alternatives will be studied.

### 8.3 Technology, Procedure of Operation, Time Schedule, Raw Materials

Alternative Technology: Assess the proposal implementation technology (mechanized, labor intensive, labor based); process of proposal implementation (contractors, local labor groups etc.) will be assessed. Analysis on the possible tools and time frame will be assessed. The use of resources, waste generation and scientific management of waste will also be assessed.

<u>Time Schedule</u>: The implementation schedule for this Project is estimated to be 3 years. Season, shift of working hours and festival time will be considered for the preparation of the working schedule.

Raw Materials to be used: Assessment of alternative resources required for the proposed works will be assessed including cement, steel, gabion, boulders, gravel, earth, sand.

#### 8.4 Environment Management System

Environment management system is applicable in all stages i.e. design, construction, operation, supervision and monitoring of indicators. The indicators are identified and set during the preparation of Environment Management Plan (EMP), which are audited for all physical, biological, Socioeconomic and cultural environments as of Environmental Audit Plan (EAP). All activities shall mandatorily fulfill environment mitigation measures as per environment mitigation guidelines in all stages of project implementations and post completion of works.

#### 8.5 Other Matters or Do Nothing Alternatives

Do nothing alternatives of the project involve no construction of NPA. This scenario causes social injustice to local people as the socio-economic development of entire area



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gets affected. NPA is not only important for strengthening of police but equally good for upliftment of socio-economic condition, through development of local business.





#### CHAPTER 9: IMPACTS

Measures to mitigate the impacts of physical, biological, social, economic and cultural environment will be presented separately for the pre-construction phase, construction phase and operation phase. According to the proposal, it will be focused to reduce adverse environmental impacts and increase beneficial impacts. The cost of environmental impact mitigation and augmentation will be estimated and included in the report. The following measures will be taken to eliminate the negative effects.

#### 9.1 Preventive Mitigation Measures

This approach will include the best measures to be taken to prevent possible adverse impacts.

#### 9.2 Corrective Mitigation Measures

Under this method, if the potential impacts observed on the environmental aspects, actions will be proposed to reduce it to an acceptable level through appropriate mitigation measures within the EIA Report.

#### 9.3 Compensatory Mitigation Measures

In this case, the affected party will be advised to compensate if the preventive and corrective measures fail to reduce or minimize the impact.





#### CHAPTER 10: ENVIRONMENTAL MANAGEMENT PLAN

#### 10.1 Environmental Management Plan

Environmental Management Plan (EMP) is an important part of the EIA report. The main objective of is to identify, forecast and evaluate the environmental impacts from the proposed plan and to formulate mitigation strategies to minimize the possible adverse effects during the implementation and operation phase. The role and responsibilities of the various stakeholders at different stages are clearly defined in the EMP and ensures that the impact does not exceed the defined limits.

#### 10.2 Objectives of EMP

The main objective of the EMP is to identify measures to reduce the negative impacts on the environment from project implementation and to increase the positive effects. During the study of EIA the following actions will be taken:

- · Eliminate project effects,
- List of practices and procedures required for monitoring and report preparation,
- · Identify types, indicators, methods and locations,
- Identification of responsible representatives.
- · Corrective action and report preparation,
- · Identification of non-compliance incidents,
- · Identification of responsible persons required for project implementation,
- · Complaints and records will be made if the rules are not followed,
- · Reasons for non-compliance,
- Necessary steps and responsible bodies to ensure compliance with the rules,
- Use and adherence to related laws.

The cost of all these plans will be analyzed. Proposed inspection work and mitigation measures will be followed by establishing well defined organizational structure. Aspects of physical, biological, social, economic and cultural environment will be addressed and included in the environmental management plan. The management plan will include the following items as mentioned in the table below:

Table 10.2-1: Key Plans and Strategies of EMP

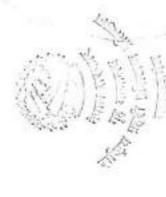
Physical Environment	Biological Environment	Socio-Economic and Cultura Environment	
<ul> <li>Landslide and Erosion Management Plan</li> <li>Muck Disposal Plan</li> <li>Air, Noise and Water Pollution Management Plan</li> <li>Disaster Management Plan</li> <li>Solid and Liquid Waste Management Plan</li> </ul>	Ground     Clearance/Tree     Cutting (Vegetation)     and Management Plan     Coordination Plan     Plantation Plan	Request and Approval Plan     Socio-Economic     Development Plan     Occupational, Health and     Safety Plan     Grievance Redress     Mechanism     Emergency Preparedness     Plan	





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S	SN Activities	Enhancement or Mitigation Measures	What to Do	Where to Do	How to Do	When to Do	Responsibility	Mitigation HR, Cost (NRs) and Time	Monitoring and Evaluation
Pre	Construction	Pre-Construction Phase (Physical, Chemical, Biological, Socio-Economic and Cultural Environment	mical, Biological, S	socio-Econo	omic and C	ultural Envir	onment)		
Con	struction Pl	Construction Phase (Physical, Chemical, Biological, Socio-Economic and Cultural Environment)	d, Biological, Socio	-Economic	and Cultur	al Environm	ent)		
Ope	ration Phas	Operation Phase (Physical, Chemical, Biological,	3iological, Socio-Ec	conomic an	d Cultural I	Socio-Economic and Cultural Environment			





#### CHAPTER 11: MONITORING PLAN

#### 11.1 Monitoring Plan

The EIA report will mention the monitoring schedule, method and monitoring bodies (as mentioned in the Environment Protection Act 2076 and Environment Protection Rules 2077 (First Amendment 2078)) as a matrix. The cost of monitoring varies according to each activity will be incorporated in the EIA Report.

#### 11.2 Types of Monitoring

Environmental monitoring will be basically sub-categorized as:

- A. Baseline Monitoring: Under this monitoring, before starting the construction work of the proposed proposal, it is necessary to survey the construction site and the surrounding basic environmental aspects. This makes it easier to monitor and find changes in the environment than the initial stage.
- B. Impact Monitoring: In order to identify the environmental changes caused by the implementation of the proposal under this monitoring, the indicators of environmental, social and economic condition including public health of the area have to be evaluated during the construction and operation of the project.
- C. Compliance Monitoring: In order to ensure that the prescribed standards of environmental protection have been complied with under this monitoring, special indicators of environmental quality or pollution status shall be monitored periodically or continuously.

Indicators of Environmental Monitoring: During the Project implementation, the aspect of baseline information and identified beneficial and adverse impacts and associated mitigation measures have to be followed through adopting effective monitoring of activities using suitable indicators. The following matrix will be used to present the details of the monitoring as:

Table 11.2-1: Matrix Used for Environmental Monitoring Plan

SN	Environmental Impacts	Monitoring Indicators	Monitoring Methods	Institution Responsible for Monitoring	Monitoring Cost (NRs.)	Time
	Construction Phaironment)	ase (Physical, (	Chemical, Biol	ogical, Socio-F	conomic and C	Cultural
	struction Phase ( ironment)	Physical, Chen	l nical, Biologic	al, Socio-Econo	omic and Cultu	ral





#### CHAPTER 12: ENVIRONMENTAL AUDIT

#### 9.1 Monitoring Plan

The effectiveness of EIA will be successful only when that it causes minimal damage to environment with the implementation of project. Environmental aspect of any sort of project will be triumphant only when a project interacts positively with environment with its proper management during the time of implementation. Hence, Environmental Auditing shall be carried out to examine and assess performances of the project related to environment and its conservation and protection. Audit shall be undertaken after the project has been operational for two years duration. Whereas, audit shall be carried out by MoFE together with proponent team and Project environment team (will be defined in EIA study Report).

The main objective of the auditing is to monitor and assess environmental parameters which are most significant with the implementation of project. Whereas, the specific objectives of auditing are as follows;

- To assess actual environmental impacts
- · To evaluate the accuracy of prediction of impacts,
- To assess the effectiveness of environmental impact mitigation and augmentation measures and,
- · To evaluate the functioning of monitoring mechanisms

The following matrix will be used for environmental audit as:

Table 9.1-1: Matrix of Environmental Auditing for NPA

SN	Parameters	Location	Methods	Indicators
A.	Physical-Chemical As	pect		
B.	Biological Aspect			
C.	Socio-Economic and C	Cultural Aspect	4	

Table 9.1-2: Cost Estimation for Environmental Auditing for NPA

Specifications	Input (mm)	Rate (per month)	Amount (NRs.)	Remarks
		¥2		





#### **CHAPTER 13: OTHER DELIVERABLE**

Format of EIA and Deliverable: The Proponent shall prepare and submit the EIA report in the format prescribed in the Schedule 12 of the EPR, 2020. The Proponent will make sure that all issues mentioned in this ToR and Schedule 12 of the EPR, 2020 are necessarily included.







# APPENDICES





#### APPENDIX 1: MEMORANDUM OF UNDERSTANDING BETWEEN GON AND GOI

Memorandum of Understanding

Between

THE GOVERNMENT OF THE REPUBLIC OF INDIA

ind

THE GOVERNMENT OF NEPAL

Regarding the Establishment of the

NATIONAL POLICE ACADEMY AT PANAUTI, KAVREPALANCHOWK

The convergment of the Republic of India Incremation referred to as "Col", and the Government at Nepal incremation referred to as "CoN", herematics gouth inferred to as the "Parties".

bearing in mind the close and foreidly relations between the two countries and their peoples.

recalling the need for the exhibishment of a new, modern and well repupped National Police Academy at Panauri, Kavrepalanchowk for strengthening and assisting the Nepal Police;

Have reached the following understanding:

#### Article.I

- 1.1 Gol will provide a grant assurtance of Indian Currency Rs. 5,494.61 million. (Five thousand four bundred ninety four point sixty one million Indian Rupers). [Approximately Nepalese Currency Rs. 8,791.36 million Nepalese Rupers) to GoN for the construction of National Police Academy (NPA) (heremaker referred to at the "Propers").
- 1.2 The Grant assistance received through Gol for the construction of NPA will be channeled through the Revision and Treasury System of Stock\*
- GoN will secure about 25.45 herees of land at Fanant, approximately 32 KMs south case of the capital Kathmanda on its own one.
- 1.4 The project cost will be based on, and as specified in, the Detailed Project Report (hereinafter referred to as "DPR").
- The Ministry of Home Affairs Co.N will be the Executing Agency and Nepal Police J.
  will be the implementing agency of this project on behalf of GoN.

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- 2.1 GoN will appears the new the Got appears a Consultant Indian. Nepalese of Joint Vennity Indian Nepalese firms: for the improvement of the Project, who wall be responsible for the preparation of Detailed Project Report the constructor referred to as "DPR", and supervision of construction work 11e. For and work under the Project coordinator at Project Coordinatory Unit (hereinafter referred to Project accordinatory at Project Coordinatory).
- 2.2 GoN will appoint a Contraction (Indian/Nepalese or Jourt Venture Indian/Nepalese firms) for the construction of the project in constitution with Golf.
- 2.5 GoN will create a PCU for the smooth implementation of project activities under the Nepal Police Academy will be the ex-officio project coordinator who will be responsible for implementation of the project and will are to necessary lighter amount between the Consultant/Contractor and CooN other authorities by freglets by the authorities posterior and example to ensure successful and timely complement of the Project PCU will be responsible for overall implementation of the project activities, and report periodically to the Joint Project Mountaining Committee (PMC)

Amcie III

- 3.1 A DPR will be prepared by the Consultant. The approval of Goldand Goldand
- 3.2 The Project will be completed in a phase were manner over a period of four years. It is enviraged that
  - 3.2.1 The first phase will comprise construction of water treatment plant, internal road, office complex, accommodation block, messes, classrooms, semanar hall/ synchrate rooms, MT room, quarter guard, prinde ground, PT ground, transport section, deep tube well with overhead rank and supply system of water, drainage and sewerage, electrification, etc.
  - 3.2.2 The second phase will comprise construction of, shooping complex, sports complex, firing range, auditonium and horse training ground.
  - 3.2.3 The third phase will comprise construction of summing pool, landscaping, packing areas, communication tower, helipad, boundary wall, and remaining works.
  - 3.24 The details will be finalized on the basis of the DPR

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#### Article IV

- 4.1 God will arrange and make available all finances required for the successful traplementation of the Project according to the following fund flow arrangement.
- 4.2 God will release 25 (twenty five) percent of the total project core to GoOs at the beginning of the Nepalese Fiscal Year (16th July 2015 to 15th July 2016). The retriaining tendered cost will be paid by GoI to GoN on the basis of physical progress in three equal initialments each amounting to 25 (Twenty Project) of the approved tendered cost or sanctineed cost of the project.
- 4.3 Jount Project Memoring Committee (IPMC) will release the fund on the basis of the physical progress achieved.
- 4.4 GoN will open an impress account in the name of PCU at Nepal Rabita Bank in INR and God will provide its grants amount in this account.
- 4.5 The Impress account will be operated journly by the Project Coordinates and any PCU officials as authorised by MoF on the recommendation of MoFIA.
- 4.6 The actual expenditures incurred and provided through GoN treatury will be reimbursed from the imprest account and further replinished by GoI on the imprest account.
- 4.7 All expenditures on procurement of project activities will be in accordance with the existing Public Procurement Act and Public Procurement Rules of Nepal for Indian/Nepalese/Joint Venture of Indian Nepalese contractors.
- 4.8 The internal audit of the project will be conducted as per GoN system.
- 4.9 The immual external audit of the project will be conducted by the office of the Auditor General (OAG/N) of Nepal.
- 4.10 A copy of the audited Annual Financial report, as otherwise specified by PCU or as per GoN annual reporting format, will be shared with Gol through PCU.

#### Arucle V.

5.1 GoN will make available to the Convoltant and the Contractor(s), the land required for the project, free of cost and the transmitted and begin increasing to N will be responsible for providing bulk electricity and water supply for the project. However, the cost of the electricity and water supply and other office costs, except office premises and salary of GoN staffs, will be home by the project fund.

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5.2 GotN will be responsible for the resolution of identificative or legal encumbrances, if any, in the execution of the Project and for position of a conpensation, if any, and settlement of claims or disputes arising in connects of thereof.

#### Article VI

- 6.1 GoN will provide the following facilities as the Consultant and the Contractority
  - 6.1.1 Space for appropriate office/ residential accommodations for the personnel deployed by the Consultant at or near the street of the Project execution. GoN will also facilitate acquisition of suitable space by the Contractoris) at or treat the sate(s) of the Project execution for appropriate office/residential accommodations for their personnel and for their labour camps/construction suits.
  - 6.1.2 Necessary security to the personnel deployed by the Consultant and fine. Contractor(i) and their teams and at related Project sites to makin smooth implementation of the Project.
  - 6.1.3 Valulation of the Indian Driving Locuses of expannate drivers employed within Nepal by the Consultant and the Contractor(s) for the Project, and facilitation of the movement of the personnel deployed by the Consultant and the Contactor(s) and their teams in Nepal, in secondance with the rules and regulations of GoN.
  - 6.1.4 All administrative, environmental, legal, rechnical and other clearances, as necessary for the implementation of the Project, most expeditiously, without delay and without any financial implication for GoI, if a request for such clearance is made by the Consultant and the contractor(s).
  - 6.1.5 All reference documents related to GoN requirements will be made available to the Consultant and the Contractor(s) through the Project Coordinator.

#### Aracle VII

7.1 The reconstructs of administrative, technical, and other personnel for the implementation of the Project will be confined to the nationals of either country. GoN will assue identity earls to such personnel and also arrange for their security during the implementation of the Project.

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#### Astrole VIII

- 8.1 In order to combat post review of the project activities to meaner the implementation of the project, and to ensure the another operation of project there will be formed a Joint Project Monitoring Committee (IPMC) as follows:
  - a) Secretary, Mouser, of Home Affairs, GoN (Charperson)
  - b) Joint Sourcury, Ministry of External Affairs (MEA), Gold
  - c) Joint Secretary, Manistry of Home Affairs, GoN
  - d. Representative of Financi Division, MEA, Gol-
  - e) Representative of Ministry of Home Affairs, Gol-
    - Head of Wag (Economic Cooperation Wing), Embassi of India. Kathmanda
  - g) First Secretors (Security) Embassis of India, Kathananda
  - h) Representative of Ministry of Fogeign Affairs (GoN)
  - i) Representative of Ministry of Finance, GoN
  - i) Representative of Nepal Police
- Joint Secretary, Ministry of Home Affairs, GoN will be the Member Secretary of the IPMC.
- 8.3 The Project Coordinator appointed by GoN will be invited as special inviter to all meetings of the JPMC and will be responsible to report progress of the project activities.
- 6.4 The JPMC may, should there be any specific requirement, co-opt any other person related with the Project for the purpose of consultation, and will report the progress of the Project to the two Governments periodically.
- 8.5 Meetings of the JPMC will be convened during the implementation of the Project, normally doce every an months, or with each periodicity as decimal recessary by in Member Secretary.
- 86 The Consultant will fully appuse the JPMC at each moving about the progress in implementation of the Project.

#### Article FX

- 9.1 No funds provided by Go1 will be used directly for us payment
- 9.2 GoN will provide a counterpart fund to make payment to the counterpart and consultants for the payment of VAT against these instance.

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4 In the case of Indian Consultant/Contractories, GoN will not fevr any taxet of duties of any lend of machinery, equipments and Vehicle parable to the contract offices when n is exported to India upon completion of the project. For this purpose, contractors and consultants will salient by of such machinery, equipments and Vehicle to be imported to NPA. NPA will facilitate to obtain approval processistem Molt through MoHA. However, if reachinery, equipments and Vehicle not exported to India and sold in Nepal, then all taxes or donce as applicable, will be paid by the contract of consultant or the buyer.

9.5 The income tax levied on the Indian contractor/contralitants will be regulated at perthe provisions of the Agreement for the Avaidance of Double Taxanon and the Prevention of Fiscal Evasion with Respect to Taxos on Income concluded between GoN and GoJ.

9.6 GoN will provide dure-free import facilities to Indian nationals engaged by the consultant or the contractor(s) for the project implementation. However, with regard to the import of vehicles for the personal use, such a vehicle should be exponed from Nepal within a period of three months after relinquishment of charge by the beneficiary concerned. If such a vehicle is disposed off in Nepal, taxes and dates will be payable by the beneficiary as per the prevailing laws of Nepal.

#### Anade X

10.1 The personnel of Gol and the Indian personnel deployed by the Consultant and the contractor(s) working on the project in Nepal will, at all times, respect the laws of Nepal. However, no son, proceedings, except in the case of gross negligence of wilful miscondact, will be maintaced against any such person for anything done or purported to be done in good faith, in the course of discharging their official distribution the successful and expeditious implementation of the project.

#### Article XI

11.1 After the completion of the Project and with the approval of the JPMC, the Consultant/Contractor will hand over the building and all other assets created under the Project to GoN, which will be responsible for the entire runnignment of NPA. The JPMC will cease to exist after handing over of the completed Project to GoN.

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#### Armele 241

- To the extent possible the custom example vehicles, equipments on, utilized for stanning purposes will be usuaferred to the NPA by the N
- 12.7 Both Parties will undertake a detailed versu assessment for the amount tonoccoming of the NPA. Cod wall depute personnel for importing training etc., at its cost, to the extent possible, if it is no requested by Gobi
- 12.3 The NPA unil have a technical advisor, to which (iii) will depute an officer at its cost, for a murually agreed tenute(s)
- GoS will provide adequate number of qualified officers and staff to manage the 124 NPA GoN will further provide regular operational and hadgetary support for the smooth functioning of the NPA.

#### Amde XIII

Any difference regarding the interpretation and implementation or application of any 13.1 provision of this Memorandum of Understanding will be resolved through mutual consultations or regonations between the Parties and will be recorded through the Where of each ange.

14.1 This Memorandian of Understanding will enter into force from the date of the signing and will remain in force until the completion and handing over of the Project to GoN.

#### ARROR XX

- 15.1 This Memorarshum of Understanding may be extended, amended or modified at any time by mutual written consent of the Parties through exchange of Notes.
- In WITNESS WHEREOF the undersigned being dub authorized thereto by their respective Governments, have agreed this Memorandum of Understanding

Supred at Kathersondo on this 25" day of November 2014 at the two originals in English Language

On behalf of the Government of the Republic of India

6

On behalf of the Government of Nepal

(Such Lata Kumat) Secretary (Booler Management)

Duran

Manguer of Home Affairs Government of India

(Surnan Prasad Sharma) Finance Secretary

Ministry of Finance Government of Nepal





#### APPENDIX 2: CABINET DECISION FOR NPA CONSTRUCTION

ध्ये प्रचित्. पद्मानामक्षे समा प्रतिकारीपद्ती कार्यसम् ।

सन्माननीय सहपति तथा सम्माननीय उपस्कृपतिका नामांसय अटा आश्रीत व्यवस्था विषयणे प्रधानमञ्जी तथा सन्भित्रीरमञ्जी वार्यासयको त. ५/३९/००३६/८/२१-१% ज्ञात स.५ मे. १ ५/३९/००३६/८/२१-१% ज्ञात स.५ मे. १ ५/००४८ मिति २०७६/८/२२१ को मन्त्रियरिषद्वी विषयमा पेत्री हुँद्यानुष्यमा नेपास सरकार, अभिनारिषद्वी वेशायभौतिक विर्णय प्रकार प्रथमित्रीय कार्यास्थान हुँद्वा नेपास सरकार । अर्थासम्भाविक विर्णय प्रकार प्रधानमञ्जूष्य गरिकोन्द्र ।

## नेपाल सरकारको लिएक -

'आस् आ.व. को शामि सम्बन्धित सम्बन्धयः/निकास लाई सिन्धिनित बर्नेटको सिन्धी भीतिकासाट खर्च स्थानस्थानन समें र गपुत्र भरमा, सन्धे सम्बन्धिकाट निकास साथ वर्षे गरी जन प्रस्तापन लेखिएकमेलिक गर्ने ।





(स्टेकडरान रेग्मी) मुलपस्थिय १८७४/४/२५



प्रशतक पेरा गर्न सम्माननीय प्रधानमञ्जीवाद सर्वकृति प्राप्त मितिः २०७४/०४/२५

#### १. भिषयको संवित्त व्यहीराः

प्रधानमञ्जी तथा मन्त्रियरिषद्को कार्यासयका मधिक औ क्रियार वहादुर क्रिकारिको संयोजकात्रमा -राष्ट्रपतिको कार्यासय, गृह मन्त्रसारय र महरी विकास मन्त्रीसयका सविवहर सदस्य तथा महरी विकास तथा भवन निर्माण विभागका महानिर्देशक सदस्य सचिव रहेको अध्यक्त टोमीले देश गरेको संलग्न सम्मानगीय राष्ट्रपति तथा सम्माननीय उपराष्ट्रपतिको कार्यासय तथा आजन व्यवस्था सम्बन्धी अध्यक्त प्रतिवेदन, २००४ वस कार्यासम्मा पेरा हुए मार्को ।

- २. प्राप्त परामार्ग तथा बन्य प्रारंगिक करा
- प्रशास पेश पर्नु पर्नाको कारण र प्रधानसन्धी तथा मन्त्रिनरिषद्को कार्यातक्को सिकारिसः

सम्भावनीय राष्ट्रपतिश्वको कार्यात्मको लागि पहिस्रहर्भेद्वेग भएको तथा सम्भावनीय उपराष्ट्रपतिश्वको कार्यात्मय र विश्वको स्वार्य प्रमावनीय प्रमावनीय स्वार्यको स्वार्यक्ष र विश्वको स्वार्यक सम्भावनीय स्वार्यक्ष समितिको अधिकार समितिकार समितिको अधिकार समितिकार समितिकार

#### ४. निर्णय ब्रमुपर्ने व्यक्तेशः

सम्माननीय सङ्ग्रीते तथा सम्माननीय उपराष्ट्रपतिको कार्यालय तथा आश्रम स्थानस्थालो सम्भागामा देशस सम्मानिक गर्ने

्रा ग्रहणीको कार्यालय परिसरमा यप पुर्वापूर कियान गरी मुक्किम संग्यन पनाउन सहाध्यत्रविभिन्न गृहित प्रहरी प्रशिक्षण प्रतिष्ठान (सालीम केन्द्र) की **मूँश कारण १९९४**-इन **०-० रोजनी) रा**हपति कार्यालयको नाममा हेन्सिन्तरम गर्ने ।

(२) उपर्युक्त बर्गोजिसको किलारेत बरमामा राष्ट्रपति कार्यात्मयको सामि शक्स्यक पर पूर्वाभरत् सहरी विकास सन्दालयाने निर्माण गर्ने । मसुद्दी,त्यानि आवस्यक पर्ने बजेट पर्य मन्त्रसासमस्त्रे, उपसम्बद्ध गराउने ।









- (२) सी ठाउँमा रहेको राष्ट्रिय पहरी प्रशिक्षण प्रतिष्ठानकाई प्रतिष्ठानके नाममा प्रतीतील रहेको जलगम साने व्यवस्था मने ।
- 💶 । मेरी ठाउँमा रहेको नेपाल उहरीको केनाइन शाखालाई अन्य कुनै जपपुक्त राउँमा गर्ने ।
  - (६) राष्ट्रिय प्रश्रेसी प्रशिक्षण प्रतिष्ठानको योजना अनुसार निर्माण हुन समय शास्त्रे धएकोले प्यवस्थापनका लागि वास्त्रथक एकम वर्ष मान्यालयक्षे गृह सम्जनस्थापुँ उपलब्ध समाप्तके।
- भारति नेपाल सरकार, मनिवर्धरिषद्को निर्मात भएको मितिले अस् महिनाभित्र राष्ट्रिय प्रशिक्षण अविद्यालको अस्याधी व्यवसमापन गरी को प्रतिकानकाई प्रशितीमा सार्वसको व्यवस्था गर्ने ।
- (७) लेगबीरस्थित समाज करणाम परिषेद् रहेंकी सुरमुणं कर्णांतम शक्त र प्रम्या उत्तरपुरिको कार्यालयको माममा उत्तरन्तरण गर्ने र त्यस्मा सरमानरीय उपरापुर्वतिस्मृतो कार्यालय र निकारनी स्वतर्थ तर्नेका सामि। आधारमक प्रति रक्तम अर्थ मरकतायको माली किळाल भन्त्रात्यसाई उपलब्ध गराउने ।
- (五) समात करूमण परिषद्को कार्यालय संशासनका लागि अध्यक्ष आपने भवन अपूरा समाज करूमण परिषद्को कार्यालयलाई रचलमा सार्थे, जसती करूनी बनन नगरका उत्पाद कुनै सरकारी कार्यालयको स्थल उपलब्ध हुनसङ्ग्री श्रीरमा सहसी किलान बन्नालय र महिला, अनुसारिक ल्या प्रयेष्ट मार्गरिक संश्वालयको नुपालने अवन्या साले स्थलपा हिला, र एयसो सरकारी भवन उपलब्ध हुन सस्क्रेमी माराको भवनमा बार्यालय साने स्थवश्या जिलावने । यससे अवन माराक निर्देशकार्यालय सम्बाह्मण मार्ग वर्गे भएमा वर्ध मान्यालयको अवालावने रक्षम निकासा दिने ।

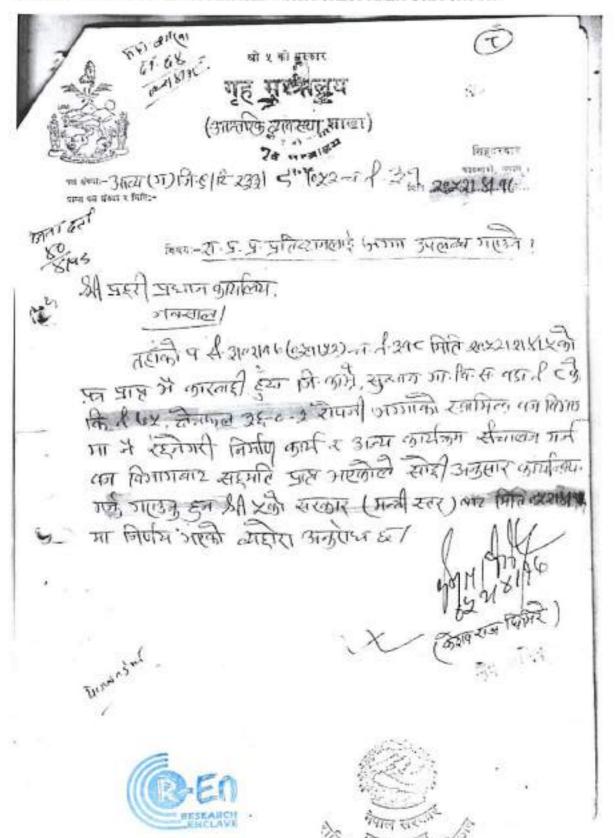
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विविधान पार्चेत्। संचित्र





#### APPENDIX 3: DOCUMENTS RELATED WITH FOREST AREA USE FOR NPA



# श्री देवीस्थान (ख) सामुद्वायिक वन उपभोक्ता समुह





PHR 2068-104102

विषय:-सहमाते राज्यान्हामा /

न्दी रादिस्य प्रहरी प्रक्रीहाण प्रतिष्ठलः; आश्रिक प्रकारण कामण अहाराकाकः।

उपरोक्त विद्यामा सांहा बार्यालायो पत्र २०६६।०४।०० व्यहेरा भ्रकात अर्ड यस देविस्थाम रेथ सममुद्राधिन व्यवप्रात्री सांत्रीते की जिले अव्यक्ष १०४।०० हो वैद्य व्यट यस सम्द्रेले प्रयोज जॉट आरखी साविष्ठसुन्धाम ६'स्व' वि-मे १०४ हो स्वा ६ सेन्नाफल ६०-१५-०-२ जिलेन प्रतिक्रम लाई प्रयोज जर्न समुदाय वाट सहमान प्रयान जर्म मिर्जाय अल्बो व्यक्षेराजा साहित समुग्रीहर जारिन्छ ।

> नारामत् साखेर संदेशका देखेरमात्रक सक्तमात्रक







प्रसं, ००६ ००० चर्नः १९५

# पनौती नगुरुपालिका

Panauti Municipality **६ ज. वर्डा कार्यालय** 6 No. Ward Office रिक्ट्यून कार्युकार्थ

कासेपलाञ्चाक Kavrepalanchok ३ नं. प्रदेश नेपाल । 3 No. Province, Nepal

मिति : ...२६०६ ०५ ०६-...

विश्व सहस्रों। एवं दिएको सम्बन्धमा ।

क्षे राष्ट्रिय प्रारी प्रीप्रभण प्रीराण्यान आर्थिक प्रशासन शासा महाराजनेज, साठमाडी।

प्रस्तुत विषयमा शहा राष्ट्रिय प्रश्नी प्रशिक्षण प्रतिपान महाराज्ञशाणको प स 006 000 सिति २००६ ०४ २१ को प्रश्नुसार स्पष्टीमा अवगत भई गाविस मृत्यान ०(स्व) को कि न ११६ सून्यान १ को कि स १२६ १३१ ४११ को को फ ६०-१३-०-२ २४-१३-३-० २१-०-१-० २-१४-३-२ का जग्मा तालिस प्रयोजनका स्वामि गुरूपोजना भिन्न समेटी भोगोधकारका लगि सान भएकाले कि द ११६ को देखकान १२३ न्यस्त्रीयक यनको लग्द ६ जीवन उपभोक्ता समितिको मिनि २००६ ०४ ०३ मा बलेको देखकान ग्राम भोग गर्न सहमात दिले निर्माय भई उपनोक्ता अग्मा आयश्यक अवश्याना पूर्वधार तमीण र प्रयोग गर्न सहम्ती प्रदान गर्न मिनि २००६ ०४ ०० मा वडा समिति बाट समेत निर्मय भएको व्यहीस अनुरोध गरिन्छ ।

बोधार्थ - प्रज्ञानि सी प्रदेश क्मार थाण उललेखिन पर्य निर्व जान ।

Strain State Oles IX IE

Ward Office Phone:







# पनीता नगरपालिका

Panauti Municipality राजर कार्यपालिकाको कार्यालय Office of the Municipal Executive

So &



श्री राष्ट्रिय प्रहरी प्रशिक्षण प्रतिष्ठान आर्थिक प्रशासन शास्ता, महाराजनञ्जा, काठमाण्डी ।

विषय । सहमती पत्र सम्बन्धमा ।

प्रस्तुत विषयमा तहाँ प्रविष्ठानको य.सं. ००६/७० च.नः १८१ मिति ००६।०४।२३ प्राप्त प्राञ्जनुसार प्रनिष्ठानको माम यमोजिम नगर कार्यपाजिकाको मिति ०७६।०४।२१ को निर्णयानुसार सो सम्बन्धण मध्यो देशाय यमोजिको निर्णय आवश्यक जानकारीको लागि अनुरोध नरिन्छ ।

'राष्ट्रिय प्रक्षरी प्रशिक्षण प्रतिष्ठान काठमाण्डीको च.न. १११ मिति ०७६।०५।२३ को प्राप्त प्रप्रानुराः प्रतिष्ठानको माग आवश्यकतान्य आधारमा यस नगरपालिका क्षेत्रभित्रका निम्न किला जन्महरू प्रतिष्ठानको सर्वसाधारणलाई थम सङ्ग्र हुने गरी माँग चलन गर्ने पाउने गरी सहमती प्रवान गरि दिन संघीय नामिला तथा सामान्य प्रशासन मन्त्रालय मार्थत यन तथा बातावरण मन्त्रालयमा अनुरोध गर्ने'।

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Phone: 011-440138, 011-440135 Website: www.panautimun.gov.np Fax No.: 011-440137 65 1000 Email: info@panautithion.gov.np





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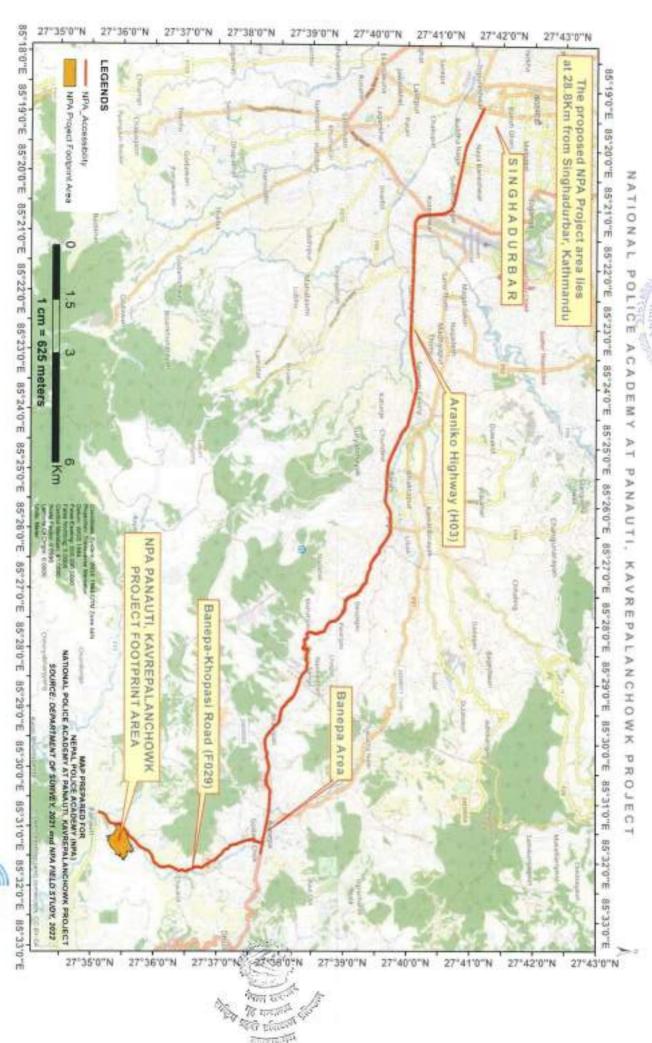
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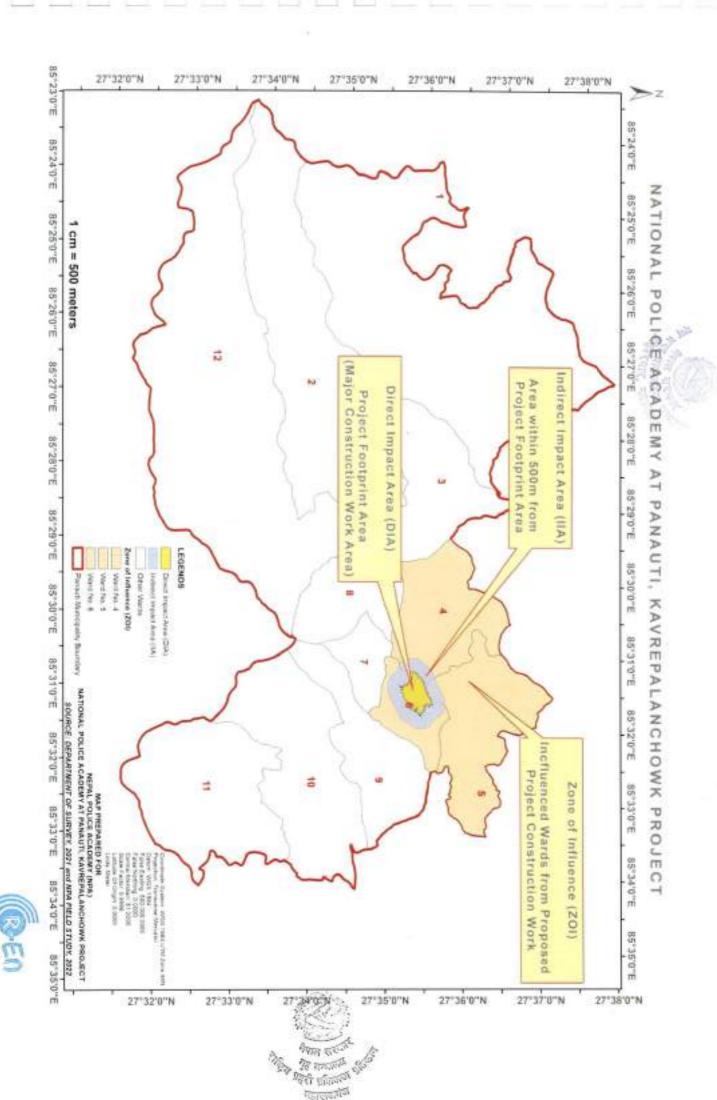


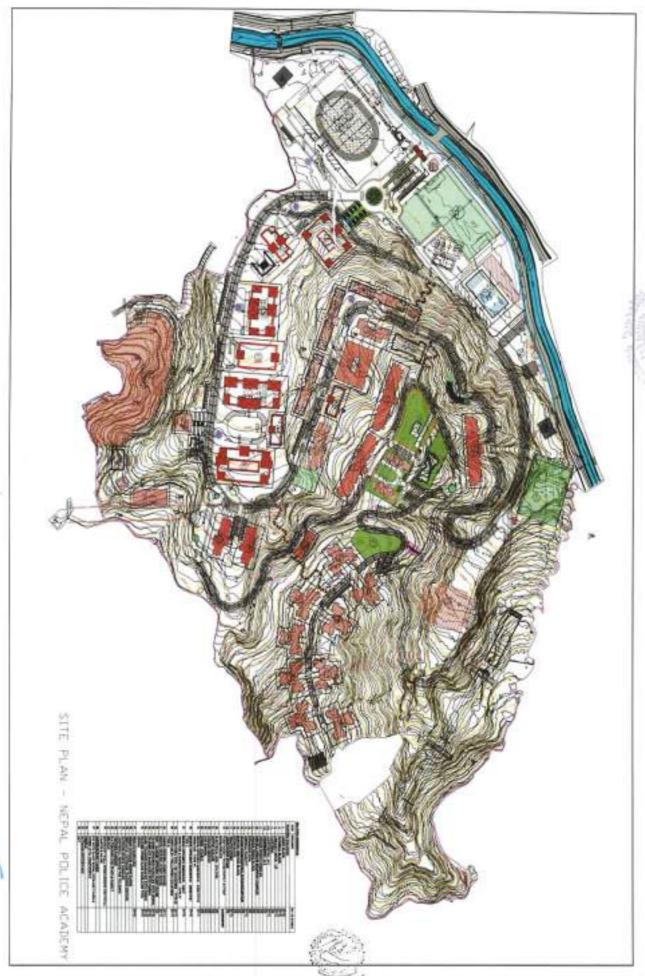




व्यागायां होर्घ











# APPENDIX 6: QUESTIONNAIRE





## सामाजिक आर्थिक अध्ययन (समूह केन्द्रित छलफल प्रश्लावली)

	सामान्य जान	कारी				
छल	नफल गरिएको मिति	C		आयोजनाको	सम:	
वित	een:			गा.पा./न.पा.		. यहा नं
गाउँ	1/टोल:			ů.		
		ग समेटिएको अश ाम सहित लेख्ने)		इसको प्रकार (स	हर-बजार, अर्थ घना व	रित वा छरिएको कस्तो
	वस्तीको नाम	वस्तीक		म्मा प्यथुरी	मुख्य मुख्य कातवाति	मुख्य मुख्य धर्म
						-
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	स्थानीय भा	ш	बोल्ने समुद	ाय	अनुमानित घरधुरी	कैफियत
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_						
į	यस ठाउँका म	ानिसहरु मुख्य रु	मा कुन कुन पेशामा	निर्भर छन् ।		
H	पेशा	निर्भर प्रतिकात	आयोजना निर्माणले प्रभाव पार्ण कि		गाउँ (सकतानक/नकारात्मक)	कैफियत
	4811	निभर आतश्रा	प्रभाव पाछ रक पार्देन	कस्ता प्रभाव प	ताष्ठ (सकरात्मक/नकारगानक)	काषत्वत
		107				
9			स्तो कस्तो खालको ह			
	बसाईसराई सरेर जा स्थानइट	न मुख्य	ब्रह्मुरी	स्थानः स्थानः	मेर आउने मुख्य १ठ	पत्रधुरी
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		11/10	PESHADEH	1 42 S	भाग सर्वार्य है शन्तार्य है शांताराज होत्रिक	
			ENCLAVE	797	Margray ,	

िहाराय, गोंबी

## ६. यस बस्ति बाट निम्न सुविधाइरुको पहुँच कस्तो छ ।

मुक्तिया को अवस्था	स्थान	दुरी (कि.मि.)
माध्यामिक स्कुत		
क्रोब/क्याम्यस		
स्वास्य चौकी		
प्राथमिक स्वास्य केन्द्र		
आयुर्वेदिक केन्द्र		
अस्पताल		
पुस्य समार		
स्थानीय वजार		
चैत्र√वितौय संस्था		
सदक		The state of the s
बडा कार्यतय		
पालिका कार्येलम		
जिल्ला सदरमुकान		

### यस स्थानमा रहेका शैक्षिक संस्थाहरुको विवरण दिनुहोस ।

शैक्षिक संस्थाको नाम	स्थान	पवाई हुने तह/कक्षा	स्वामित्व (नित्रि, सार्ववनिक/सरकारी)	किवित्यत

### ८. यस ठाउको साक्षरताको अवस्था कस्तो छ?

जनसंख्या	निरक्षर	साक्षर	
-अंक या प्रतिशत		1.65790655	
पुरुष			
महिला			

### ९. यस स्थानमा रहेका स्वास्थ्य संस्थाको विवरण दिनुहोस।

स्वास्थ्य संस्थाको नाम	स्थान	उपलब्ध स्वास्थ्य मुविधा	स्वामित्व (निवि, सरकारी)	केफियत

<ul> <li>यस ठाउँका मानिसहरुमा देखा पर्ने मुख्य मुख्य</li> </ul>	
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धामीझाँक्री)		***************************************	
यस ठाउँका मानिसहरुको ख	वानेपानीको मुख्य मुख्य श्रो		
ओता	58	ख्यनेपानीको लागि प्रयोग गर्ने परघुरी संख्या	प्रतिशव
पाईष/पात			
कुवा			
मुखन तथा हुंगे थारा			
नदि/खोला/खोश्सा			
२. वस ठाउँका मानिसहर	क्को शौचालय प्रयोग सम्बर्ग	न्य विवरण दिनुहोस ।	
चपीको प्रव	ых	प्रयोग की चरधुरी संख्या	प्रतिज्ञत
चाल्डे			
प्याम भएको साल्डे			
आधुरिक			
चर्पी नभएकरे			
३. यस ठाउँका मानिसहर	घरबाट निस्कने फोहरमैला	। सामान्यतया कसरि व्यवस्थापन	ार्ने गर्दछन ?
	घरबाट निस्कने फोहरमैला मातायात पूर्वाधारको विवरष सडकको त्यबई		ार्ने गर्दछन ? सडकको अनस्या
४. चस ठाउँमा उपलब्ध व	गतायात पूर्वाधारको विवरण	म दिनुहोस ।	
<ol> <li>वस ठाउँमा उपलब्ध र सडकको नाम</li> <li>विद्युतमा पहुँच भएका विद्युतमा पहुँच भएका प विद्युतमा पहुँच नमञ्जा प</li> </ol>	गतायात पूर्वाधारको विवरण	य दिनुहोस्स । तापान्तित वस्तीहरू	
<ol> <li>वस ठाउँमा उपलब्ध र सडकको नाम</li> <li>विद्युतमा पहुँच भएका विद्युतमा पहुँच भएका प विद्युतमा पहुँच नमञ्जा प</li> </ol>	मातायात पूर्वाधारको विवरण सडकको लम्बाई यस्थुरीहरुको विवरण दिनुर (पुरी संख्या/प्रविशत: सुविधा कस्तो रहेको छ ?	म दिनुहोस । लापालित नार्ताहरू	सडकको अनस्था
<ol> <li>यस ठाउँमा उपलब्ध व गडकको गांप</li> <li>विधुतमा पहुँच भएका विभुतमा पहुँच भएका प विभुतमा पहुँच नमहका प विश्वतमा पहुँच नमहका प</li> <li>यस स्थानमा सिचाई स्</li> </ol>	मातायात पूर्वाधारको विवरण सडकको लम्बाई यस्थुरीहरुको विवरण दिनुर (पुरी संख्या/प्रविशत: सुविधा कस्तो रहेको छ ?	म दिनुहोस । लापानित नार्ताहरू होस ?	सडकको अनस्था

म्<u>रायाच्यां</u>च

		omer			8	उद्योग संख्या		
चनारको नाम	अवस्थित स्था	पशस	लज संख्या	पसल संख्या	ener	मझौला	तूला	केकिय
९. यस स्थानमा	हुने मुख्य मुख्य कृषि उ	पादनहरु के के	हुन् ?					
याली	मुख	र मुख्य बालीको न	ाम			470	यत	
अन्त बाती								
तस्कार्व वाली								
मच्दे भासी								
<ul> <li>यस स्थानमा ।</li> <li>उल्लेख गर्नुहो</li> <li>ऐतिप्रांतिक सांस्कृतिक</li> </ul>	धरोहर, धार्मिक स्थल		र, धार्मिक स्थ √धार्मिक महत्व		हृतिक म ।योजनाने प्रभार	गर्न सक्ने		भएमा केवत
<ul> <li>यस स्थानमा ।</li> <li>उल्लेख गर्नुहो</li> <li>ऐतिप्रासिक सांस्कृतिक तथा सांस्कृतिक पहलक</li> </ul>	स । धरोहर, धार्मिक स्थल ो खुला स्थानको नाम	सांस्कृतिक	⊌'धार्मिक महत्व		ायोजनाते १	गर्न सक्ने		0.00
<ol> <li>यस स्थानमा । उल्लेख गर्नुहो ऐतिहासिक सास्कृतिक तथा सांस्कृतिक महत्वक</li> <li>यस ठाउँको प्र</li> </ol>	स । प्रतेहर, धार्मिक स्थल	सांस्कृतिक	र्थधार्मिक महत्व के हुन ?		ायोजनाते १	गर्न सक्ने		फेस्टन
उल्लेख गर्नुहो ऐतिहासिक सास्कृतिक तथा सांस्कृतिक महत्त्वक १. यस ठाउँको प्र	स । धरोहर, धार्मिक स्थल ो खुला स्थानको नाम मुख चाडवाड र मेला र	सांस्कृतिक	र्थधार्मिक महत्व के हुन ?	a	ायोजनाते १	गर्न सक्ने	Get 1	फेस्टन
यस स्थानमा ः     उल्लेख गर्नुहो  ऐतिहासिक सास्कृतिक तथा सांस्कृतिक पहलक  १. थस ठाउँको प्र प्रमुख चाङ	स । धरोहर, धार्मिक स्थल ो खुला स्थानको नाम मुख चाडवाड र मेला र	सांस्कृतिक	र्थधार्मिक महत्व के हुन ? मनाउ	ने समुशय	प्योजनाले १ प्रभार	गर्न सक्ने	Get 1	फेरल





२३. यहाहरुको विचारमा आयोजना कार्यान्वयन हुँदै गर्दा के कस्ता नकारात्मक असरहरु देखा प	पर्नेछन्	?
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निर्माण घरणमा	वियाण सम्पन्न भइसकेपडी

<b>98.</b>	आयोजना प्रति स्थानीयहरु को धारणा तथा सहमतिको बारेमा बताईदिनुहोस् ।
****	
२५.	अन्य केहि सुझाव तथा टिप्पणी छन् भने उल्लेख गर्नुहोस्।
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## सामाजिक आर्थिक अध्ययन

## समूह केन्द्रित छलफलमा सहभागी हुनेहरुको सुची

क्र.स.	नाम	ठेगाना	पेशा	हस्ताक्षर
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## APPENDIX 7: PHYSICAL AND BILOGICAL ENVIRONMENT CHECKLIST





## National Police Academy, Panauti, Kavrepalanchowk Project PHYSICAL AND BILOGICAL ENVIRONMENT CHECKLIST

Proponent	Field Visit Date:
Name of Project	
Province	
District	Study Team Members:
Municipality/Rural Municipality, Wards	

A. Landslides and slope Instability nearby Project Area

S.	Location		Landslide		Landslide	Morphology	Date of
N		Length (m)	Width (m)	Area (m²)	Type (1. a fall 2. a topple 3. a slide 4. a spread 5. a flow	(Consider- slope, aspect & upside location)	Event
-							

#Photographs in SW Map

B. Drainage System nearby Project Area

SN	Location	Drai	nage Sy	stem	Water logging Issues (If Yes)						
		Poor	Fair	Good	Natural	Man made	Extent/Area	Duration			
			-								
							200100				

#Photographs in SW Map

C. Rivers

SN	Location	Name River/Stream	Flooding width Left-Right (m)	Morphology
-				

#Photographs in SW Map





D. Road Type and Condition

#NH-National Highway, FR-Feeder Road, DR-District Road, VR-Village Road

S	Road Type					Classification of Roads				Road Condition		
	Asphalt/Bitum en	Concret e	Grav el	Earthe n	N H	F R	D R	V R	Poo r	Fai r	Goo d	

#Photographs in SW Map

### E. Landuse Pattern

Type of Land	Area within DIA ( m²)
Forest (Government Land)	
Agricultural land (Private Land)	
Built up area	_
Water Bodies	
Barren Land (Private/Public)	
Sub total	

F. Air Quality and Noise Level

S N	Location/ Location	Air Qu	**************************************	top Airing-1000 PM tector	Noise Level -UNI-T UT 353 Min Sound Meter			
		PM2.5	PM10	Source of Pollution	dBA	Source of Pollution		
-								

#Make measurements and capture photographs

### G. Solid and Liquid Wastes and Management Practices in Settlement Area

SN	Location	Type of wastes	Quantity of wastes	Source of wastes	Management Practices
_					
				3/	

#Photographs in SW Map





### A. Checklist for Forest and Plant Diversity

Location from:	Locatio n to:	UM/RM:	Ward No.:
Elevation Lower:	Elevatio n High:	Forest category	Name of Forests
Slope:	Aspect:	Forest classification	User Community Group (established date/members M/F)

## B. Checklist for the Ethno-botanical studies of the project area (site and surroundings)

SN	Local Name	Botanical Name	1	1	Jse c	ateg	Orie	S		Remarks
			М	F	T	E	0	R	Fi	

M = Medicinal, F = Fodder, T = Timber, E = Economical, R = religious, Fi = Fiber yielding

### C. Enumeration of the Tree

C\*- Cutting, B\*- Bushing

SN	Location	Local	DBH	Height	C*/B*	C*/B*	C*/B*	C*/B*	Class	GPS Co	oordinate	
		name	(cm)	(m)			Longitude	Latitude				
-												

Note: Girth 10-30 cm Pole size, more than 30 cm girth size a tree.

### D. Checklist for Argo-diversity Status in the Project Area

Local name	Local Varieties	Remarks
Cereal Crops		
1	2014	
2		
3	1 7 m 2 m 2 m	
		The state of the s





Pulses			
Vegetables			
Cash crops			
Spices			
Fruits			
Fodder plants			1
			-
Settlement Area:to			n from
If yes, how often?  Name of species (wild animals		1	A Commence
	Frequency	Season	200
and birds)	500000000000000000000000000000000000000	Joneson	Place/forest
and birds)		Scason	Place/forest
requency: f- frequently, O- occ		Season	Place/forest
requency: f- frequently, O- occ		Season	Place/forest
requency: f- frequently, O- occ	asional, r-rare		
Frequency: f- frequently, O- occ 1. Herpetofauna Name of species	asional, r-rare		
requency: f- frequently, O- occ  1. Herpetofauna  Name of species  2. Fish Diversity	asional, r-rare		
Frequency: f- frequently, O- occ  1. Herpetofauna  Name of species  2. Fish Diversity	asional, r-rare Frequency	Season	Place/forest
Frequency: f- frequently, O- occ  1. Herpetofauna  Name of species  2. Fish Diversity  Name of species  3. Ethnozoology  Are local people/local healers us ourpose? Yes/No, If yes,	asional, r-rare  Frequency  Frequency  ing any wild animal	Season Season and birds for traditio	Place/forest  River/Stream  nal medicine/religious
Trequency: f- frequently, O- occurrence  1. Herpetofauna Name of species  2. Fish Diversity Name of species  3. Ethnozoology are local people/local healers us urpose? Yes/No, If yes,	asional, r-rare Frequency Frequency	Season	Place/forest  River/Stream
Frequency: f- frequently, O- occ  1. Herpetofauna Name of species  2. Fish Diversity Name of species  3. Ethnozoology Are local people/local healers us purpose? Yes/No, If yes,	asional, r-rare  Frequency  Frequency  ing any wild animal	Season Season and birds for traditio	Place/forest  River/Stream  nal medicine/religious
Name of species  2. Fish Diversity  Name of species	asional, r-rare  Frequency  Frequency  ing any wild animal	Season Season and birds for traditio	Place/forest  River/Stream  nal medicine/religious



## **APPENDIX 8: FIELD PHOTOGRAPHS**







Image 1: Field Visit from NPA and Study Team at Project Site

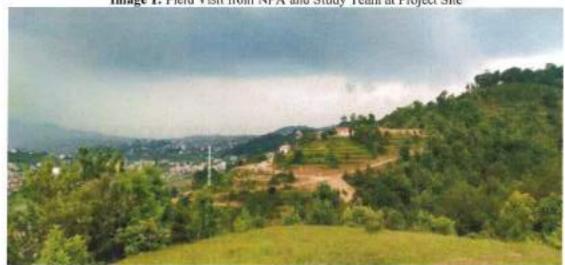


Image 2: Northern View of Project Site



Image 3: Stakeholders during Consultation Meeting at Panauti Municipality Office





## APPENDIX 9: DECLARATION FROM PROPONENT





## DECLARATION FROM THE PROPONENT

### Title of the Report:

Terms of Reference (ToR) for Environmental Impact Assessment of "National Police Academy at Panauti, Kavrepalanchowk Project"

### Name / Address of the Project Proponent:

National Police Academy Maharajgunj, Kathmandu

Phone: 01-4420517

Email: npa\_kavreproject@nepalpolice.gov.np Website: https://npa.nepalpolice.gov.np-

### I declare the following:

- a. I have provided accurate and relevant information to the Environmental Impact Assessment Team,
- I have allowed the Environmental Impact Assessment Team to study the agenda professionally and independently;
- I have read and understood the contents of the agenda report;
- d. I agree to implement all the measures to increase / decrease the impact proposed in this report;
- e. The Ministry of Forest and Environment said that the measures proposed in this report if not seems sufficient, I agree that additional impact mitigation measures can also be implemented.

Note: The declaration of (d) and (e) shall apply only to the case of Environmental Impact Assessment report.

### ON BEHAFLF OF PROPONENT

Name: Ranjan Kumar Dahal

Designation: Deputy Superintendent of Police











# APPENDIX 10: DECLARATION FROM STUDY TEAM EXPERTS







### DECLARATION FROM THE EXPERT

It is true that the following study team members were involved in the entire phase of Terms of Reference (ToR) for Environmental Impact Assessment of "Construction of National Police Academy at Kavrepalanchowk, Nepal".

### We declare the following:

- We have conducted this study professionally using acceptable and standard methodologies;
- The study findings are correct to the best of my knowledge; and have not been altered in any manner; and
- We will be responsible to resolve information gap if found to be false in the report and concerns expressed through feedback (if seems relevant) will be accepted thankfully.

s.n.	Expert Team	Lead As	Qualification	Experiences in Environmental Assessment Studies	Signature
1.	Sudeep Ghimire	Team Leader/ Environmental Expert	M.Sc. in Environmental Science	More than 13 EA Studies	flining
2.	Bhuvan Keshar Sharma	Biodiversity Expert	Ph.D. in Conservation Biology	More than 5 EA Studies	Bland
3,	Badri Prasad Dhungana	Civil Engineer	M.Sc. Construction Management	More than 9 EA Studies	delines
4.	Minesh Kumar Ghimire	Sociologist	M.A. in Sociology	More than 15 EA Studies	O'shar
5.	Shristi Sharma	Environmentalist	M.Sc. in Environmental Science	More than 4 EA Studies	J. Fritz
6.	Samir Thapa	Ass. Environmentalist	M.Sc. in Environmental Science	More than 12 EA Studies	25

#### CONSULTANT

Research Enclave Pvt. Ltd. Kathmandu Metropolitan City-31, Hanuman Marg, Shankhamul, Kathmandu

Phone: 01-5242918 / 9851097036

Email:

researchenclave@gmail.com



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# APPENDIX 11: UPDATED CURRICULUM VITAE OF EXPERTS







1. Position Title	Environmental Expert			
2. Name of Firm	Research Enclave Pvt. Ltd.			
3. Name of Expert	Sudeep Ghimire			
4. Date of Birth	13 <sup>th</sup> March 1988			
5. Country of Citizenship/Residence	Nepal			
6. Address	Nagarjun-I, Raniban			
7. Sex	Male			

#### 8. Education:

- M.Sc. in Environmental Science from College of Applied Sciences-Nepal (CAS-Nepal), Tribhuvan University, Nepal, 2009-11.
- B.Sc. Environmental Science from Tri-Chandra Campus, Tribhuvan University, Nepal, 2009.
- 10+2 in Science from CHISCOL, HSEB Board, Nepal, 2006.

### 9. Relevant Trainings:

- Advanced Training on ArcGIS 10.8 (Impact Mapping, Spatial Analysis using Raster Algebra, Watershed Modelling and Reservoir Analysis and Image Data Management and Image Classification) by Engineering Helpline Pvt. Ltd.; 14 Days, Aug/Sept 2020.
- Certification Training on Auditor/Lead Auditor Training on ISO 9001: 2015 and ISO 19011-2018
   International Standards; accreditation from UKAS-UK in July 2019; URS Nepal P. Limited,
   Regional Office, Kathmandu, Nepal.
- Training Workshop on Advanced Excel in March 2019, Think Professionals, Kathmandu, Nepal.
- Training on Project Cycle and Result Management in 2016; South Asian School of Rural Reconstruction (SARR), Kathmandu, Nepal.
- Training on Remote Sensing (ERDAS Imagine 9.1) in August 2013; Environmental Graduate in Himalayas (EGH), Lalitpur, Nepal.
- Training on 'Climate Change and REDD Plus' in 2012 by GoN, WWF, Friends of Nature (FON).
- Training on 'Research Methodology and Data Management using SPSS' in 2012 by Environmental Graduates in Himalayas.

### 1. Employment Record Relevant to Environmental Assessment:

Period	Employing Organization and Title/Position	Country	Activities Performed Relevant to the Assignme	
2021-22 (Intermitt ent)	Employer: GEOCOM International Pvt. Ltd. Funding Agency: Nepal Government, Planning and	Nepal	EIA of Surkhet Birendranagar Na. Pa. 14 Gadhi Barahatal Karyapalika Kalyangadh Chapre Dobata Rekcha Dhanras Benighat Road (Chainage: 0+000 to 102.133), Surkhet Project, Karnali Province, Nepal (102.133Km)	







Period	Employing Organization and Title/Position	Country	Activities Performed Relevant to the Assignment:
	Monitoring Unit, Department of Road, Lalitpur Position Held: Environmental Expert		<ul> <li>Input in feasibility study, site visits, screening and preparation of ToR and SD; Preparation of REA Checklist to meet requirements of GoN Policy, Rules, Regulations and Directives; Conduction of Public Hearing, Preparation of EMP in line with project and livelihood restoration activities, and Preparation of EIA as per EPA 2076 and EPR 2077.</li> </ul>
25 April 2021 to till date (Intermitt ent)	Employer: NEA Engineering Company Limited Funding Agency: Asian Infrastructure Investment Bank (AIIB) and European Investment Bank (EIB) Position Held: Environmentalist	Nepal	<ul> <li>Support Environmental and Social Studies of Distribution System Upgrade and Expansion Project (DSUEP) for finalizing Inception Report each for Asian Infrastructure and Investment Bank (AIIB) and European Investment Bank (EIB)'s) and 18 Screening report for AIIB and 13 EIB requirement.</li> <li>Prepared 12 site specific ESMP for DSUEP as per the requirement of AIIB, EIB, NEA ESMF, and GoN Policy.</li> <li>Support NEAEC Team for producing 20 ToR for Brief Environmental Study (BES) for DSUEP Project.</li> <li>Support NEAEC Team for producing Initial Environmental Examination (IEE) report for Haitar-Shitalpati (Arun Corridor) 400kV Double Circuit Transmission Line Project, Sankhuwasabha.</li> <li>Support NEAEC Team for producing Environmental Impact Assessment (EIA) report for Phukot Karnali Hydro Electric Project 480 MW, Kalikot.</li> </ul>
January 2021 to April 2021	Employer: National Reconstruction Authority/ Central Level Project Implementation Unit (Grant Management and Local Infrastructure) Funding Agency: The World Bank Position Held: Environmental Specialist	Nepal	<ul> <li>Coordination and consultation with local levels, DCC, DFO, DSCWMO, DAO for the efficient implementation of reconstruction of housing units under World Bank Reimbursement Process.</li> <li>Orient and train the NRA engineers in safeguard program in each local levels, reporting and other aspects in coordination with SDS and DLPIU Chief.</li> <li>Undertaken feasibility study, site visits, Screening and preparation of ESMPs; RESA Checklist to meet requirements of WB and NRA's Safeguards Policy Statement (NRA 2020) giving priority to vulnerable and PAF.</li> <li>Prepared 9 ESMP under the compliance framework ESMF, 2020 for NRA and WB under Environmental</li> </ul>





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Period	Employing Organization and Title/Position	Country	Activities Performed Relevant to the Assignment:
			<ul> <li>Enviro-Socio-Technical assistance to the team during DFS of the sub-projects related to slope instabilities/water supply in Tanahun district.</li> <li>Participated in central level field missions related to reconstruction.</li> <li>Awareness and sharing of environmental concerns as per specific environmental sensitivities in the project areas in coordination with the project components and designs. This is a National Priority Project.</li> <li>Grievance Redressing Mechanism (GRM) was well established from submission of application from people to compliance study in the field.</li> <li>Based on compliance framework (ESMF)-World Bank, prepared detailed ESMP reports, actions plans, monitoring plans for proper safeguard program execution.</li> <li>Maintained all the documents and databases related to E&amp;S information that is foremost during liaison with CLPIU and WB.</li> <li>Support DLPIU during documentation of beneficiary with issues related to resettlement, landless and appellate beneficiary processing.</li> </ul>
July 2020 to Decembe r 2020	Employer: National Reconstruction Authority/ Central Level Project Implementation Unit (Grant Management and Local Infrastructure) Funding Agency: The World Bank Position Held: Environmental Specialist	Nepal	<ul> <li>Coordination and consultation with local levels, DCC, DFO, DSCWMO, DAO for the efficient implementation of reconstruction of housing units under World Bank Reimbursement Policy.</li> <li>Prepared detailed implementation plan, in-depth compliance study framework and monitoring framework for Tanahun Safeguard Program.</li> <li>Orient and train the NRA engineers in safeguard program in each local levels, reporting and other aspects in coordination with SDS and DLPIU Chief.</li> <li>Undertaken feasibility study, site visits, Screening and preparation of ESMPs; REA Checklist to meet requirements of WB and NRA's Safeguards Policy Statement (NRA 2020) giving priority to vulnerable and PAF.</li> <li>Enviro-Socio-Technical assistance to the team</li> </ul>





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Period	Employing Organization and Title/Position Country		Activities Performed Relevant to the Assignment:	
			and donor agencies/development partners; Support in preparation/review of concept papers/proposals and reports for OXFAM GB in Nepal, Water Aid Nepal, UN-Habitat/government organizations.	
March 2010 to May 2014	Employer: CARD CONSULT (P) LTD  Position Held: Environmental Officer Country: Nepal	Nepal	Assist team Member for detail engineering survey, design, cost estimate, and preparation of detailed project report of Jiri-Salleri-Dhingri (Tibet Border) Road-30 Km; survey, design and IEE of Jajarkot to Ramnakot -5 Km and Sanighat-Phukot-Syuna-Shipkhana- 18 Km, Kalikot district of RAP-3 Project; socio-economic studies of People's Hydro-power (PHP) — Baglung district and other IEE technical reports from March 2010 to May 2014 for CARD CONSULT (P) LTD, Kathmandu.	

### **Expert Contact Information:**

Email: bcg.sudeep@gmail.com; info.ghimires@gmail.com Mobile No: 9851172804

#### Certification:

I, the undersigned, certify to the best of my knowledge and belief that

- This CV correctly describes my qualifications and experience.
- ii. I am not a current employee of the GoN.
- iii. In the absence of medical incapacity, I will undertake this assignment for the duration and in terms of the inputs specified for me in provided team mobilization takes place within the validity of this proposal.
- iv. I was not part of the team who wrote the terms of reference for this consulting services assignment.
- v. I am not currently debarred by a multilateral development bank (In case of DP funded project) I certify that I have been informed by the firm that it is including my CV for the Preparation of EIA of NPA Panauti Kavre Project, I confirm that I will be available to carry out the assignment for which my CV has been submitted in accordance with the implementation arrangements and schedule set out in the proposal.

I understand that any willful misstatement described herein may lead to my disqualification or dismissal.

(Signature of Expert)

Date: 7/5/2022

Day/Month/Year)





Position Title:	Biodiversity Expert
Name of Firm	Research Enclave Pvt. Ltd.
Name of Expert	Bhuvan Keshar Sharma
Date of Birth:	3 <sup>rd</sup> January 1966
Country o Citizenship/Residence	f Nepal
Address	Bardbhanjyang-3, Kathmandu
Sex	Male

### 8 Education:

- 2013 Ph.D. in Conservation Biology from Mizoram University, India
- 1999, Masters in Natural Resource Management and Sustainable Agriculture from Agricultural University of Norway

### 9 Other Trainings:

- 2001, Financial Management Training; Nepal Administrative Staff College
- 1999, Training on Arc View GIS Software application; Agricultural University of Norway
- 1977, Training on Camris GIS Software application; Agricultural University of Norway
- 1997 Application of Ethno-botany to Conservation and Community Development

### 2. Employment Record Relevant to the Assignments:

Period	Employing organization and your title/position. Contact information for references	Country	Summary of activities performed relevant to the Assignment
	Ministry of Drinking water and Regional Monitoring and Supervision Office	Nepal	An EIA in Bhelchhauda (Gaihragau - Kadamadaun-Silagadhi) Drinking Water Project
-	District Development Committee, Dhunche, Rasuwa Ministry of Federal Affairs and Local Development	Nepal	EIA in Wangdel-Boldogaun- Khamjing-Bridhim Agricultural Road 2017
	Bisal Construction Pvt Ltd Solukhumbhu	Nepal	Initial Environmental Examination (IEE) in National Park View Lodge Hotel Lobuche, SNP
2017	Makalu Barun National Park	Nepal	Initial Environmental Examination Report on the Management Plan
2017	Koshi Tappu Wildlife Reserve	Nepal	Initial Environmental Examination Report on the Management Plan





Period	Employing organization and your title/position. Contact information for references		Summary of activities performed relevant to the Assignment	
April 2010 To: December 2013	Covernment of News		Review the existing habitat classifications for biodiversity of Nepal; review the known Non-timber Forest Products (NTFPs) make a proposal of the NTFPs to be	
	Assessment (FRA) Nepal Regional Biodiversity Mapping Expert		incorporated in the standard national FRA and to make a proposal for further development concerning the remaining NTFPs; assist in designing of surveys in regard to biodiversity, NTFPs and Tree Outside Forest (TOF), assist in data collection system and in integration of different datasets;	
	For references: Office Address: Forest Research and Training Centre P.O. Box:3339, Babarmahal, Kathmandu, Nepal.Tel: +977-14220482, Dr. Deepak Kharel, Director General Ph. No.: 9841499987 E-mail: deepak_kharal@yahoo.com	Nepal	participate in development of integrated forest information system in Department of Forest Research and Survey (DFRS) in regard to biodiversity, NTFPs and TOF; work in close co-operation with elated organization; guide software development companies related to this issue; implement data delivery system; and prepare reports and documents	
anuary 2004 to	Pokhara University, Nepal Engineering College, Centre for Postgraduate Studies Visiting Faculty	Nepal	Take lectures about Fundamentals of Natural Resource Management and Resource Economics, EIA, researches	
late	For references: Name: Dr. Jhamak B Karki Designation: Coordinator Tel no: 9841364888 Email: jbkarki@gmail.com		about the ecosystem management and benefit gained from its management.	
March 015 to	Tribhuvan University, Central Department of	Nepal	Take lectures about Environment and Natural Resource Management.	





Period	Employing organization and your title/position. Contact information for references		Summary of activities performed relevant to the Assignment	
date	Botany, Biodiversity and Environment Management Section Visiting Faculty			
	For references: Central Department of Botany Tribhuvan University, Kritipur, Kathmandu, Nepal Post Box: 26429 Phone: 977-1-4331322, 4333515 Fax: 977-1-333722 Email: info@cdbtu.org.np Website: www.cdbtu.edu.np			
July 2004 To: October 2006	Himalayan Heritage Senior Program Officer	Nepal	Overall management of the office proposal & report writing, performed assessment based on the deliverable schedule of program/project	
	For references: Name: Mr. Top B Khatri Designation: Coordinator			
June-2002 to Dec 2003	King Mahendra Trust for Nature Conservation Senior Conservation Officer / Project chief in Biodiversity Conservation Center	Nepal	Overall management responsibility of the UNDP/GEF/UNF funded Tiger Rhino Conservation Project, whice aims to conserve core protected area be implementing Integrated Conservation and Development programs in the	
	For references: National Trust for Nature Conservation P.O. Box: 3712, Khumaltar, Lalitpur, Nepal Mr. Bikhyat Sherchan Information Officer Tel: +977-1-5526571, 5526573, info@ntnc.org.np, bsherchan@ntnc.org.np		landscape – including different ecosystems of physiographic regions like inner Terai, Churiya and Mahabharat and providing livelihood options for local people; coordinated and developed collaboration with stakeholders; developed new programs and projects including different ecotourism products in CF; wrote communication materials forofficial newsletter; developed and	





Period	Employing organization and your title/position.  Contact information for references	Country	Summary of activities performed relevant to the Assignment
to March 2001			the field project; reviewed management and conservation priorities set by different protected areas of Nepal (both incorporated terrestrial and aquatic ecosystems); overall management responsibilities of Chitwan Habitat Restoration Project which restored degraded forest ecosystems of buffer zone by initiating local guardianship applying income generation activities (like ecotourism in CF) from the conserved forest and conduct research on flagship mammalian species and birds in forest and wetland ecosystems; assisted to establish ecotourism product at Siraichuli blending biodiversity landscape and local culture; established and promoted communitymanaged ecotourism in CF at two placesoutside the of Chitwan National Park; assisted to establish community managed ecotourism in CFs of Bardiya National Park, conduct ecological (mainly on forest ecosystem) and socio-economic researches in Chitwan National Park and buffer zone; assisted to conduct intensive ecological & socio-economic assessments (>25000 HH with >1500000 people) with rigorous biodiversity surveys in terrestrial ecosystems and forest disturbance surveys in Chitwan to find out the impact from ecotourism; developed partnership with different line organizations to implement Integrated Conservation and Development Programs; assist to develop new ecotourism packages inside and around protected areas (n = 5), world heritage site (n = 1) and Ramsar Site (n = 1); assessed





Period	Employing organization and your title/position. Contact information for references	Country	Summary of activities performed relevant to the Assignment	
			and promoted ecotourism products in and around protected areas; conduct detailed ecological research in whole Bardiya National Park included terrestrial and aquatic ecosystems; assisted to develop training packages and disseminated trainings for the personnel working in Nepalese Protected Areas (n = 7); prepared reports and documents.	
February 1993 To: July 1994	King Mahendra Trust for Nature Conservation, Annapurna Conservation Area (ACA) Project Vegetation Ecologist		Conduct research on terrestrial ecosystems of ACA; overall responsibilities to conduct research on terrestrial ecosystems by visiting entire area (7026 km²) of ACA (transboundary protected area with China) and prepare reports; prepare forest types and ecosystem type maps and identify species diversity hot spots areas inside of ACA; provide recommendation for ecotourism potentials in species rich areas; provide trainings on ICDPs including ecology & research methodology.	
	For references: National Trust for Nature Conservation P.O. Box: 3712, Khumaltar, Lalitpur, Nepal Mr. Bikhyat Sherchan Information Officer Tel: +977-1-5526571, 5526573, info@ntnc.org.np, bsherchan@ntnc.org.np http://www.ntnc.org.np	Nepal		

### 10.Membership in Professional Associations

- Founder member NORAGRIC Alumni Association Nepal (NAAN)
- Executive member (2004-2005) NORAGRIC Alumni Association Nepal
- Ex General Secretary (2008 to 2010) Forum for Natural Resource Managers (FONAREM)
- Member (2004 current) FONAREM
- Life Member Bird Conservation Nepal (BCN)
- Member Nepal NTFP Network (NNN)
- Founder member Ethno-botanical Society of Nepal (EBN)

### 11.Publications

 Sharma, B. K. 2014. Bioresources of Nepal. Subidhya Sharma, Kathmandu, Nepal. Pp. 819. (Book included complete flora, mammals and birds of Nepal-including their local name, distribution and use



value)

- Sharma, B. K. 1992. Some Common Forest Trees of Bard Bhanjyang VDC CHANDRAGIRI Vol.1 [1]: 32-33.
- Sharma, B. K. and Gurung, P. 1993. Rhododendrons of Annapurna Area SAMRAKCHAYAN Vol.1
   [1].
- Sharma B. K. 2002 Ecotourism in Community Forest an example from Baghmara Community Forest of lowland Nepal. A paper presented in South Asia Regional Conference on Eco-tourism, Sikkim, India.
- Tamrakar A. and Sharma B. K. 2002 User's participation and perception towards community forest management - a case study from Baghmara Buffer Zone Community Forest, Chitwan. Banko Jankari.
- Sharma, B. K., Chalise, M. K. and Solanki, G. S. (2011). Large wildlife population in Baghmara Buffer Zone Community Forest, Nepal. ECOPRIENT, 18: 55 - 62.
- Sharma, B. K. and Chalise, M. K. (2012). Assessment of Resources in Baghmara Community Forest of Central Lowland Nepal. *Journal of Natural History Museum*, Nepal. 26, 163-176.
- Sharma, B. K., Chalise, M. K. and Solanki, G. S. (2012). Vegetation types and wildlife occurrence in Baghmara Buffer Zone Community Forest, Nepal. International Multidisciplinary Research Journal, 2(2):52-65.
- Sharma, B. K., Chalise, M. K. and Solanki, G. S. (2012). Cost and benefit analysis of community forest after two decades of its conservation from local Community. ECOPRIENT, 19: 63 – 69.
- Sharma B. K. (2012). Non-timber Forest Products (NTFPs). FRA bulletin, 2(1):7-9.
- Sharma B. K. (2012). Plants used for beverage preparation in Terai. FRA bulletin, 2(2):6-7
- Sharma, B. K., Chalise, M. K. and Solanki, G. S. (2013). Wildlife and their behavior in Baghmara Buffer Zone Community Forest, Nepal. In D. R. Khanna, G. S. Solanki and S. K. Pathak (Ed.) Environment, biodiversity and Traditional System (pp. 19-30), Biotech Books, India.
- Sharma, B. K., Solanki, G. S. and Chalise, M. K. (2013). Wild ungulate population in Baghmara Buffer Zone Community Forest, Nepal. Journal of Natural History Museum Nepal. Vol 27: 66-71.
- 14. Sharma, B. K., Solanki, G. S. and Chalise, M. K. (2013). Prey Structure of Carnivores in Baghmara Buffer Zone Community Forest at Central Lowland Nepal. Proceedings of National conference on Challenges in Biodiversity and resource Management, University of Kalyani, West Bengal, India. 166-178.
- Yadhav B. R., Dutta I. C., Chalise M. K., Williams C. and Sharma B. K. (2013) Habitat utilization by Asiatic Wild Elephant (*Elephus maximus*) in Parsa Wildlife Reserve. ECOPRIENT, 20: 41 – 52.
- Sharma, B. K., Solanki, G. S. and Chalise, M. K. (2014) Carbon sequestration in a community managed forest of Chitwan National Park's Buffer Zone, at central lowland Nepal. *Biojournal*, 9 (1): 46-54.
- Sharma, B. K. and Kandel R. C. (2014) Status of potential Non-timber forest products for wise use and conservation in Langtang National Park's buffer zone. *Journal of Natural History Museum*, 28:102-117.
- Solanki G. S., Chalise M. K., and Sharma B. K. (2015) Colonization of large wildlife in rehabilitated forests of lowland in Chitwan National Park's Buffer Zone, Nepal. Zoological Survey of India, (Communicated).
- Shrestha, L. J., Devkota, M. and Sharma, B. K. (2015) Phyto-sociological assessment of Sacred Groves in Kathmandu Valley, Nepal. International Journal of Plant & Soil Science 4(5): 437-444. DOI: 10.9734/IJPSS/2015/13350
- Shrestha, L. J., Devkota, M. and Sharma, B. K. (2016) Biodiversity conservation initiatives in Sacred Grove of Kathmandu, Nepal. Paper presented in 7<sup>th</sup> National Conference of NAST, 29-31 March 2016.
- Shrestha, L. J., Devkota, M. and Sharma, B. K. (2016) Tree regeneration in Sacred Groves of Kathmandu valley, Nepal, ECOPRINT, accepted.
- 22. Shrestha, L. J., Devkota, M. and Sharma, B. K. (2016) Are Sacred Groves of Kathmandu Valley





Efficient in Sequestering Carbon? Journal of Botany, http://dx.doi.org/10.1155/2016/7695154

### 11.Language skills

Language	Reading	Speaking	Writing
Nepali	Proficient	Proficient	Proficient
English	Proficient	Proficient	Independent
Hindi	Proficient	Independent	Independent

Expert Contact Information:

Email: bhuvan.keshar.sharma@gmail.com;

Mobile No: 9843681331

### Certification:

I, the undersigned, certify to the best of my knowledge and belief that

- vi. This CV correctly describes my qualifications and experience.
- vii. I am not a current employee of the GoN.
- viii. In the absence of medical incapacity, I will undertake this assignment for the duration and in terms of the inputs specified for me in provided team mobilization takes place within the validity of this proposal.
- I was not part of the team who wrote the terms of reference for this consulting services assignment.
- X. I am not currently debarred by a multilateral development bank (In case of DP funded project) I certify that I have been informed by the firm that it is including my CV for the Preparation of EIA of NPA Panauti Kavre Project. I confirm that I will be available to carry out the assignment for which my CV has been submitted in accordance with the implementation arrangements and schedule set out in the proposal.

I understand that any willful misstatement described herein may lead to my disqualification or dismissal.

(Signature of Expert) Date: 7/4/2022

Day/Month/Year)





#### Curriculum Vitae

Position Title and No.	Civil Engineer	
Name of Firm	Research Enclave Pvt. Ltd.	
Name of the Expert	Mr. Badri Prasad Dhungana	
Date of Birth	Oct 17th, 2081	
Citizenship	Nepali	

Personal Contact Details

9849399314.

Email: bdhungana056@mail.com Bharapa-9, Simkharka, Panchthar

- ✓ MSC Construction Management (86.23%)-2019
- ✓ BE Civil Engineering (89.14%)-2012 AD

√ BA Sociology/Population

√ Diploma in Civil Engineering-2004 AD

✓ SLC-2002 AD

Membership of Professional Associations Nepal Engineering Council, Reg. No.: - 8752 Civil "A"

### Other Trainings

- Auto CAD 2D/3D, Land Development, Microsoft Office Package.
- Design and Estimate of Infrastructure Works. (7 Days Training organized by SAPPROS Nepal)
- Orientation on Safe & Effective Development from 13 March to 15 March 2007 organized by DFID /CSP Panchthar.
- "Technical Supervisor Training on Water Supply & sanitation Scheme Design & Supervision "held at Biratnagar from 20 Nov to 29 Nov 2007 organized by Fund board (RWSSFDB) Katmandu.
- Community Based Disaster Risk Reduction (CBDRR) Training 7 days. Organized by NRCS Lalitpur.
- Basic First Aid Training 3 Days organized by NRCS Bhaktapur.
- Total Station Handling and computation training organized by NEEDS Lalitpur.
- Successful completed ten days survey camping including Building, Irrigation, Highway and Water supply and Sanitation works organized by cosmos college Lalitpur.
- Earthquake technical ToT (5 days) organized by Nepal Red Cross Society. (retrofitting new construction)
- Debris management training. By UNDP Nepal.
- Basic and advanced security training according to UN security system.
- WATSAN App software.
- DFID CSP water supply design software.
- Earthquake Technical TOT(5days) organized by NRCS HQ facilitation by DUDBC
- 5 days PASSA TOT (Participatory Approach for Safer Shelter Awareness) organized by Shelter Cluster and IFRC.
- Participation in "All under One Roof" training organized by CBM at Hotel Grand Tahachal on 25<sup>th</sup> and 26<sup>th</sup> Nov 2015.

Training of trainers Course On "Build Back Safer Shelter Awarness " held on 25th -30th December ,2015 Organized by IOM and RedR India.



The second of th

# 2 days MTOT inspection organized by CLPIU, GON.

#### Name of Involved Projects

1.Preparation of Initial Environmental Examination (IEE) for Sustainable Collection of Sand and Gravel from Manahari River

Employers:

2077/78

Client:

Raksirang Rural Municipality, Chainpur, Makawanpur

Position Title:

Civil Engineer

2. Conducting Initial Environmental Examination (IEE) of APF-Bajura Building

Employers:

2077/78

Client:

Armed Police Force-Bajura

Position Title:

Civil Engineer

3. Conducting Initial Environmental Examination (IEE) of Area Police Station at Chhaimale, Dakshinkali, Kathmandu

Employers:

2076/77

Client:

Metropolitan Police Range, Teku, Kathmandu

Position Title:

Civil Engineer

4. Conducting Initial Environmental Examination (IEE) of Bagmati Provincial Traffic Office Building at Ramnagar, Chitawan

Employers:

2076/77

Client:

District Police Office, Bharatpur, Chitawan

Position Title:

Civil Engineer

5. Conducting Initial Environmental Examination (IEE) of River Extracts from the Confluence of Tamakoshi and Gopi River-Tamakoshi Rural Municipality, Dolakha

Employers:

2075/76

Client:

Tamakoshi Rural Municipality, Jafe, Dolakha

Position Title:

Civil Engineer

6.Preparation of TOR for the Study of Initial Environmental Examination (IEE) to Extract River Materials from Paha Khola, Ramche Khola, Falankhu Khola, Dhobi Khola and Trishuli River of Kalikasthan Rural Municipality, Rasuwa

Employers:

2075/76

Client:

Kalika Rural Municipality, Kalikasthan, Rasuwa

Position Title:

Civil Engineer

7. Conducting Initial Environmental Examination (IEE) of River Extracts of Arun and its Associates River of Shadananda Municipality, Bhojpur

Employers:

2075/76

Client:

Shadananda Municipality, Shadananda, Bhojpur

Position Title:

Civil Engineer

8. Conducting a Study on Initial Environmental Examination (IEE) of Sand Collection Mining in Gorkha

Employers:

2073/74

Client:

Gorkha Resources Management Pvt. Ltd. Gorkha

Position Title:

Civil Engineer

9. Conducting a Study on Initial Environmental Examination (IEE) of Sand Collection Mining in Gorkha



Employers:

2073/74

Client:

SBA-Suryachandra JV, Kathmandu

Position Title:

Civil Engineer

10.Study on Environmental Impact Assessment (EIA) of Timure Khaidi Agricultural Road-

Timure, Rasuwa

Employers:

2072/73

Client:

District Development Committee, Dhunche, Rasuwa

Position Title:

Civil Engineer

# Work Undertaken That Best Illustrates Capability to Handle the Tasks Assigned

# Work Experiences

1) Year:

20th Mar 2018 to till date

Employer:

NEA Engineering Company Limited

Location: Position held:

Kathmandu Civil Engineer

Activities Performed:

Design of Hydropower components.

Contract document preparation (FIDIC and PPMO).

# 2)Name of assignment or project: Earthquake Response Operation

Year:

1st Sep 2016 to till date

Employer:

Nepal Red Cross Society National Headquarter

Location:

Kathmandu

Client:

Nepal Red crosses Society

Position held:

Engineer

# Activities Performed:

- Tender Document preparation, evaluation and award of tender and manage the tendering process for all infrastructures.
- Contract management of all infrastructure works (Blood bank, School, Health post, construction),
- Planning, survey, design, quantity and cost estimate, implementation, supervision and evaluation of DC building.
- Focal person of Health post (23 no HP), steel structure (EOC, blood bank), construction / Renovation work.
- Contract document preparation, publish and evaluation.
- Prepared evacuation plan of public structure.
- Ensuring the quality of construction works.
- Conduct the mason training and facilitate the training about national building codes.
- Counseling for the new house owner about earthquake resistance building, retrofitting and its construction methodology.
- Successful mobilization of field staves.
- Conduct earthquake technical ToT for Technical Persons from different organization.
- Prepare models and training tools for different training.





# Languages

	Speaking	Reading	Writing
Nepali	Excellent	Excellent	Excellent
English	Excellent	Excellent	Excellent
Hindi	Good	Fair	Fair
Doteli	Good	Good	Good

# 3) Year: 3rd June 2015 to 31 Aug 2012

Employer:

10M, Chautara Sub office

Location:

Chautara Sindupalchowk

Position Title:

Shelter Engineer

Activities Performed:

- Ensure timely and adequate implementation of the IOM Shelter Program activities in line with the Shelter Program's Strategy, Standard Operating Procedures, targets and deadlines: namely the identification of beneficiaries, Shelter Materials distribution, the Disaster Risk Reduction (DRR) safer shelter training, the Rubble Removal, and the construction of the Transitional Shelters (as applicable);
- Ensure close coordination with District Development Committee (DDC) and Village Development Committee (VDCs) in all phases of the programme implementation;
- Provide support in all engineering aspects of project activities including technical assessment, design and drawings, BoQ calculation, tendering, contracting, monitoring, financial follow up and reporting;
- Take the lead in identifying new shelter and infrastructure projects, assessing their feasibility, and launching the activities;
- Review project plans and proposals, and then develop project objectives. Identify project responsibilities by determining the phases and elements of the project. Calculate time frames and sequences the stages of the project;
- Ensure that the integration of cross-cutting issues is considered in the programme implementation.
- Ensure and monitor that the quality of construction materials are in compliance to Program specifications and shelter cluster recommendations.
- Provide regular and detailed reports, including progress reports, stocks and logistics requirements;
- Ensure donor visibility in all of the activities of the Shelter Program.
- Closely work with procurement and logistics assistants to ensure that required construction materials are procured and delivered to the respective sites in a timely manner.
- Coordinate shelter projects and participate in meetings as necessary.
- Conduct Build Back Safer training at community level and monitoring and evaluation of training done by the Trainer.

# 4) Name of assignment or project:

Upper Tamakoshi Hydroelectric Project (456MW), Construction Cost: NRs. 400 million

Year: I st June 2013 to 30 May 2015 (Including overall civil works in Tunnel, Headworks, Penstocks and Power House)

Employer: JV Norconsult AS Lahmeyer International Gmbh

Location: Lamabagar, Dolakha.



Client: Upper Tamakoshi Hydroelectric Company Position held: Civil Engineer

Activities Performed:

Ensuring the quality of construction works.

Release the work to the contractor.

Supervision of Preparation of Diversion Dam work makes measurement.

 Conduct the test of related work. (Pullout test, rebound test, Water pressure test, Core drilling test, etc)

Inspection of the drainage and erosion protection work (canals, Ditches and drain, Gabions, Concrete lining, Rip-Rap work)

Checking the piezometer reading at Diversion dam.

Second stage concrete work at different mechanical components (Steel lining, Tunnion axis, trash rack, mechanical gates etc)

Joint inspection of rebar work of different component (Diversion dam, Intake, Spillway, stilling basin, settling basin, power intake Culvert, retaining wall, HRT Culvert as per drawing and released the work to the contractors.

Supervision of different class of concrete (A-C15/20, B-C20, C1-C25, C2-C30, D-C35, E-C70, E1 C50/57) and its profile.

C35, E-C70, E1-C50/57) and its quality control.

Complete Supervision of Steel truss motor able bridge at Lamabagar according to drawing and design. (43.20m long, width 5.250m).

# 5)Name of assignment or project: Earthquoke Preparedness for Safer Communities (EPS) Program

Year:

20 May 2012 to 30 May, 2013

Employer:

Nepal Red Cross Society Lalitpur, Chapter.

Location:

Lalitpur

Client:

Nepal Red crosses Society

Position held:

Technical Supervisor

#### Activities Performed:

- Planning, survey, design, quantity and cost estimate, implementation, supervision and evaluation of DC building construction work.
- Prepared evacuation plan of public structure.

Identify the open space.

Ensuring the quality of construction works.

- Conduct the mason training and facilitate the training, (new and refresher training, conduct 51 trainings).
- Facilitate the training of CDMC, Peer ToT, CBDRR, JYRC peer training, WASH, Shelter management training etc.

Awareness rising to the school children about earthquake.

Awareness rising to the local people by mobile camping.

Counseling for the new house owner about earthquake resistance building retrofitting and its construction methodology.

Successful mobilization of field staves.

Design of WASH project and other civil work and implement it.

- Survey, Design, and implementation of the Water supply and Shelter Scheme implemented by NRCS Lalitpur.
- Conduct earthquake technical ToT for Technical Persons from different organization.

Prepare models and training tools for different training.

Construction of school building / renovation.

# 6) Name of assignment or project: Rural Water Supply & Sanitation Project (3 big project)





Year:

1st August 2007 to 1st April, 2012

Employer:

Nepal Red Crosses Society Panchthar Chapter

Location:

Phidim 1, Panchthar

Client:

Nepal Red crosses Society Panchthar Chapter

Position held:

Technical Supervisor (Part time basis)

#### Activities Performed:

Planning, survey, design, quantity and cost estimate, implementation, supervision and evaluation of Water supply project.

Responsible for pre-feasibility study, detailed survey, design, estimate and implementation of all Water Supply and sanitation project.

# 7) Name of assignment or project: DFID/ Community Support program (CSP)

Year:

1st March, 2006 to 30 Dec, 2008

Employer:

DFID/Community Support Program.

Location:

Phidim 1, Panchthar.

Client:

DFID/Community

Position held:

Consultant Junior Engineer.

#### Activities Performed:

- Feasibility study, Survey, technical designing & cost estimation of community-based infrastructure (School building construction /renovation, construction / renovation water supply, Sub health post building Irrigation canal etc).
- Identify the all community-based infrastructures.
- Ensuring the quality of construction works.
- Give pre-& post construction training for all infrastructure work to community-based project. (Mason training).
- Village maintenance training for local Plumber.
- Facilitation and monitoring of Long-term Mason training (1.5 month) supported by DFID/CSP Regional Office.
- Community awareness about safe building technique.
- Successful mobilization of field staves.
- Preparation and collection of field level progress report to district office.
- Establishment of good relationship with NGO, INGO and GOs.
- Technical and material support for micro hydro at Memeng VDC and Chilingden and Phaktep VDC.
- Final evaluation and public audit of the project.
- Implement the project by Gender balance (Committee formation, community meeting, project implementation, and decision-making process)
- Help the government office for ODF.
- Facilitate trainings on WASH including low cost house hold latrine, school and health post repair works.
- Working with local construction materials and any other local resources.
- Supervise and quality control of all infrastructure according to its design and drawing.

#### 8)Name of assignment or project: Protecting Livelihood in Crisis (PLIC)

Year:

1st Aug, 2005 to 30th, Feb 2006

Employer:

SAPPROS Nepal

Location:

Shahilek, Baitadi

Client:

SAPPROS Nepal

Position held:

Civil Overseer

Activities Performed:



Planning, implementation, monitoring, evaluation and follow up of all infrastructures works (water supply, surface irrigation, water harvest tank, wooden/ RCC bridge, mule trail/ foot trail, river training works, School building renovation and construction land reclamation and orchard layout etc.)

- Planning, survey, design, quantity and cost estimate, implementation, supervision and evaluation of rural road.
- Identify the all community-based infrastructures.
- Responsible for pre-feasibility study, detailed survey, design, estimate and implementation of all infrastructure works.

# 9) Name of assignment or project: Narayansthan Building Project

Year:

17th Nov, 2003 to 16th July, 2005

Employer:

S.O.I.Group (Cosmic Air /Cosmic Yingyang /Jomsom Hotel, Hyundai Car

Showroom Complex Lazimpat)

Location:

Kathmandu

Client:

S.O.I.Group

Position held:

Civil Overseer

#### Activities Performed:

- Supervision of building work and labor scheduling.
- Billing of running and competition project.
- Preparation of project completion report.
- Check all works done by consultant and contractor.
- Check all running bill and completion report.
- Rebar scheduling.
- Concrete placing checking and quality control.

#### 10)Name of assignment or project: Kathmandu Residency Housing Project

Year:

4th Nov, 2002 to 22<sup>rd</sup> Sep, 2003

Employer:

M.B. SAFAL - R.M. Builders (J/V)

Location:

Kathmandu

Client:

M.B. SAFAL – R.M. Builders (J/V)

Position held:

Civil Overseer

#### Activities Performed:

- Supervision of building work and labor scheduling.
- Billing of running and competition project.
- Preparation of project completion report.
- Preparation bar schedule.

#### Other Part Time Work:

 Worked as a Civil Engineer as a Focal person of Health post construction work at different district of Nepal Red cross Society National Headquarter Kalimati Kathmandu. (For contract management and quality control as well as mobilization of field technical staff).

#### References:

1) Umesh Prasad Dhakal

Executive Director

Nepal Red Cross Society National Headquarter Kathmandu.

Mob no: 9851056369



 Er. Chet Raj Joshi NEA board member Mob no: 9851112801

Er. Bimal Gurung
 Deputy Manager
 Upper Tamakoshi Hydropower Dolakha
 Mob No. 9851223869

#### Certification:

I, the undersigned, certify to the best of my knowledge and belief that

- This CV correctly describes my qualifications and experience.
- ii. I am not a current employee of the GoN.
- In the absence of medical incapacity, I will undertake this assignment for the duration and in terms of the inputs specified for me in provided team mobilization takes place within the validity of this proposal.
- I was not part of the team who wrote the terms of reference for this consulting services assignment.
- v. I am not currently debarred by a multilateral development bank (In case of DP funded project) I certify that I have been informed by the firm that it is including my CV for the Preparation of EIA of NPA Panauti Kavre Project. I confirm that I will be available to carry out the assignment for which my CV has been submitted in accordance with the implementation arrangements and schedule set out in the proposal.

I understand that any willful misstatement described herein may lead to my disqualification or dismissal.

(Signature of Expert)

Date: \_\_\_\_

7/4/2022 Day/Month/Year)





Position Title and No.	Sociologist	
Name of Firm	Research Enclave Pvt. Ltd.	
Name of Expert:	Minesh Kumar Ghimire	
Date of Birth:	30/08/1972	
Citizenship	Nepalese	

Email: - minesh.ghimire@pmc.tu.edu.np, mailto:ghimire.minesh@gmail.comghimire.minesh@gmail.com

Cell No:- 985117719 Res. 01 4990512

Kathmandu Metropolitan City -32

Minesh Kumar Ghimire is a Socio-Economist with over 18 years of experience in the fields of Development, Environment, Biodiversity conservation, Natural resource Management, Data Analysis. And worked as Socio-economic expert in teams to prepare plans and also worked as a member of teams to conduct evaluation of projects.

# A. Education

Master of Arts, Sociology 2057 B.S. Patan Multiple Campus, Lalitpur,

Tribhuvan University, Kathmandu, Nepal

- Bachelor of Arts 2053 B.S.
   Tribhuvan University, Kathmandu, Nepal
- Intermediate of Arts 2048 B.S Ramsagar Ramswrup Multiple Campus, Janakpur.

Tribhuvan University, Nepal

School Leaving Certificate 2045 B.S Chandrawati Ma.Vi. Belghari, HMG Board

# B. Area of Interest

Development, Environment; Natural Resource Management, Tourism.

# C. Current Position

Researcher / Consultant / Teaching Faculty

## D. Journal

Ghimire, M.K (2020 ) An Overview of Tourism diversity in Nepal. Journal of





# Multidisciplinary 45-54, https://doi.org/10.3126/pragya.v6i1.34391

- Ghimire, M.K. (2006), Utilization of Forest Product in Royal Bardia National Park & buffer Zone Area. Discourse, Journal of Sociology& Anthropology, Vol. 6&7: 143-146
- Ghimire, M. k. (2002), Population Survey of Primate Langtang National Park & Buffer Zone Area. Submitted to workshop "Conservation Assessment and Management Plan for South Asian Primate, Zoo Outreach organization 5-9 March 2002, Combatore, South India.
- Chalise, M.K., Karki J.B. and <u>Ghimire</u>, <u>M.k.</u> (2005) Status in Nepal: Non-human primate, HMG Department of National Park and Wildlife Reserve, Babarmahal, Kathmandu, Nepal. Bulletin, special Issue 10<sup>TH</sup> wildlife week 2062, P 19-25.
- Chalise, M.K, Karki J.B. and <u>Ghimire</u>, <u>M</u>, (2001) Survey of Assamese Monkey of Langtang National Park. American Society of Primatologists, APS Bulletin Vol. 25 P 4-5.
- Chalise, M.K. and Ghimire, M.K. (1998). Non-human Primate Census in Different parts of Nepal. National History Society of Nepal, NAHSON, Bulletin, Vol. 8 (1-4): 11-15

# E. Work Experience

# **Technical Reports**

SWC (2020) Team Leader, Final Evaluation Report, SAMA Nepal

Land purchase Procedure evalution Project in Bhaktapur District,

Submitted to: Social Welfare Council, Hariharbhawan, Pulchok, Lalitpur,

Telephone No.: 01-5555448 Email: swcevaluation@swc.org.np, website: www.swc.org.np, Nepal

EDRC (2020) Team Member, Red Panda Conservation Action Plan

Red Panda (Ailurus fulgens) Conservation Action Plan for Bagmati Province of Nepal (2020-2024)

Submitted To: Ministry of Industry, Tourism, Forests and Environment, Bagmati Provinc, Hetauda, Makwanpur, Nepal, (RFP No.: MoITFE-005 -QCBS)

EDRC (2020) Team Member Nature-Based Tourism Plan

Nature-Based Tourism Plan Shuklaphanta National Park, Work Plan – 2020 Submitted To: Shuklaphanta National Park, Majhagau, Kanchanpur

SWC (2019) Team Leader, Final Evaluation Report NCDC, Nepal,

Integrated Afforestation and Reforestation & Diminishing Pressure on the Forest and Improvement of Living Conditions in Sankosh, Dhading District, 2017-2019 Submitted to: Social Welfare Council, Hariharbhawan, Pulchok, Lalitpur, Telephone No.: 01-5555448 Email: swccvaluation@swc.org.np, website: www.swc.org.np, Nepal

EDRC (2019) Team Leader,

An Assessment and Status of Soil Conservation in Shadananda Municipality of Bhojpur District. 2019



Submitted to: Office of Shadananda Municipality, Bhojpur District, Provience No.: -1

# EDRC (2019) Team Leader

Climate change Environmental Adaptation plan of Tamakoshi Rural Municipality of Dolakha District. 2019

Submitted to: Tamakoshi Rural Municipality of Dolakha District, Provience No.: -3

# EDRC (2019) Team Leader

Study and Support on Safari operation in Bishajari Taal, Sauraha, Madi and Thori., Nepal

Submitted to: Tourism Development Project, Ministry of Industry, Turism, Forest and Environment province no -3 Hetauda, Makawanpur.

# SWC (2019) Team Leader, Final Evaluation Report.

Kam for Sustainable Development Nepal Children Home Tathali, PADMA NEPAL, RODEC Nepal, STEP by STEP 2014-2018

Submitted to: Social Welfare Council, Hariharbhawan, Pulchok, Lalitpur, and Telephone No.: 01-5555448 Email: swcevaluation@swc.org.np, website: www.swc.org.np, Nepal

# EDRC (2018) Team Leader (Socio-Economist)

A preparation of Municipal Profile report of Bhimad Municipality, Thanahu, Gandaki, Province Nepal

Submitted to: Bhimad Municipality Office, Thanahu, Province Gandaki, Nepal

# CODEFUND (2018) Team Member (Socio-Economist)

Rural Municipal Profile (Comprehensive/Integrated Rural Development Plan) of Tapli Rural Municipality

Submitted to: Tapli Rural Municipal Executive Udayapur, Province No -1, Nepal.

# EDRC (2017) Team Member (Socio-Economist)

The preparation of Management Plan for Khaptad National Park and its Buffer Zone Area (2017-2021) Khaptad National Park, Khaptad, Bajura.

#### EDRC (2016) Co-coordinator

Capacity Building Training for Conservation Area Management Council Member and Community Forest User Groups of Api Nampa Conservation Area Vanue: Gokuleshwar and Khalanga, Darchhula.(December 2016)

## BRCN (2015). Coordinator and report:

Workshop on "Initiating Community Participation on Conservation of Royal Bengal Tiger (Panthera tigris tigris) in the Buffer Zone of Chitwan National Park-June 2015", Submitted to: Ocean Park Conservation Foundation (OPCF), HongKong.

EDRC (2015) Status of Himalayan Black Bear in Sagarmatha Natonal Park, Submitted to: Department of National Park and Wildlife Reserve, Babarmahal, Kathmandu, Nepal.





EDRC (2015) Team Member

Status of Himalayan Black Bear in Dhorpatan Hunting Reserve. Submitted to: Department of National Park and Wildlife Reserve, Babarmahal, Kathmandu, Nepal.

EDRC (2015) Team Member

Blue Sheep (Pseudois nayaur) and Himalayan Thar (Hemitragus jemlahicus) count in 2073 B.S Report submitted to the Dhorpatan Hunting researve, Dhorpatan, Baglung

BRCN, 2014. Team Member (Socio-Economist)

Impact Study of Buffer Zone Management Program in Nepal, Submitted to: Department of National Park and Wildlife Reserve, Babarmahal, Kathmandu, Nepal.

BRCN, 2014. Team Member (Socio-Economist)

Status of Wildlife Crime Control in Nepal. Submitted to: Department of National Park and Wildlife Reserve, Babarmahal, Kathmandu, Nepal.

BRCN, 2013. Team Member (Socio-Economist)

Impact of Buffer Zone Management Program in Chitwan National Park.

Report submitted to Department of National Park and Wildlife Reserve,

Babarmahal, Kathmandu, Nepal.

Initial Environmental Examination (IEE)

Initial Environmental Examination Report on the Hari Om Crecar Udhog Dudhauli, Sindhuli 2021

Initial Environmental Examination Report on the Kamala Tribeni Baluwa Udhog. Dudhauli, Sindhuli: 2021

Initial Environmental Examination of Sand, gravel, stone collection in Piluwa, Maya and Yabara River :Madi Municipality, Sankhuwasabha, 2021

Initial Environmental Examination Réport on the Beats Washing Udhog 2021, Kamalamai-1, Sindhuli

Initial Environmental Examination of Alka Shangu Charap Road: 2021, March, Chayanath Rara Municipality Mugu.

Initial Environmental Examination (IEE) Sunkoshi and associates river for sand, stone, bolder collection of Tapli Rural Municipality, Tapli Rural Municipal Office, Udayapur

Initial Environmental Examination Report on the Management Plan (2017-2021) Makalu Barun National Park and its Buffer Zone, Proponent: Makalu Barun National Park Seduwa, Sankhuwasabha.

Initial Environmental Examination (IEE) of Bird Stone Curser Udhog, Proponent: Bird Stone Curser Udhog Pvt. Ltd. Bidur Municipality

Initial Environmental Examination (IEE) of Chori Nadi Bridge Project (Baliya-Kharaula -Pratappur Road) to Government of Nepal,

Initial Environmental Examination (IEE) of Aryabhanjang Rampur Road,

Initial Environmental Examination (IEE) of National Park View Lodge Lobuche, SNP

Initial Environmental Examination (IEE) The preparation of Management Plan for Khaptad National Park and its Buffer Zone Area (2017-2021) Khaptad National Park, Khaptad, Bajura.

Initial Environmental Examination (IEE) Report on the Management Plan (2017-2021) Koshi Tappu Wildlife Reserve and its Buffer Zone report submit to Government of Nepal,

Initial Environmental Examination (IEE) Report on the Management Plan of Khaptad National Park and its Buffer Zone Area (2017-2021) Khaptad National Park, Khaptad, Bajura.





#### Environmental Impact Assessment (EIA)

Environmental Impact Assessment (EIA) in Wangdel Bridhim Agricultural Road, submitted to: District Development Committee, Dhunche, Rasuwa. Ongoing

Environmental Impact Assessment (EIA) in Timbure Kaidi Agricultural Road, submitted to: District Development Committee, Dhunche, Rasuwa.

Environmental Impact Assessment in Gaihragau -kadamadaun-Silagadhi Drinking Water Project, submitted to: Regional Monitoring and Supervision Office Rajpur Doti.

Environmental Impact Assessment study of Upper Naisem Khola Hydropower Project (43 MW).

At Sindhupalanchock Districts of Nepal Approved, 2015

# Other Experience

- Program Coordinator Bear Research and conservation Nepal (BRCN) Kathmandu Nepal.
- Program Officer Intrigued Rural Development Samaj (IRDS) Bardibas, Mahottari. Nepal.
- Research Officer- Nepal Biodiversity Research Society (NEBORS), Lalitpur Nov 2000 to 2009
- Research Assistant Natural History Society of Nepal (NASHON) July 1997 - Aug 1999
- Office Assistant Research Training Center for Protected Area. (RTCPA) UNDP/ GEF/ DNPWC (Sept 1999- Sept 2000) Royal Bardia National Park, Bardya.
- Research Assistant Management Environment Technical Consult of Nepal. (METCON (Sept-Oct 2000).

# G. Seminars /Conference/Training

- Conservation Assessment and Management Plan for South Asia Primates (5-9 March 2002), Koimbature, India
- The role of social science in conflict management and peace building in Nepal (December 6-8, 2004), Sociological/Anthropological Society of Nepal (SASON)
- Teaching Gender Studies course in Sociology/Anthropology at Tribhuvan University (November 17-19, 2005) Oxfam International Kathmandu, Nepal
- Taking Stock of Teaching, Research and Practice (July 21-23, 2006), Center Department of Sociology/Anthropology, T.U. Kathmandu, Nepal
- The Social Science in a Multi-cultural world (December 11-13, 2006), Sociological/Anthropological Society of Nepal (SASON), Kathmandu, Nepal.
- Computer: Windows Application (Fundamental of Computer MS-Word, Excel and Power Point, Email & Internet)

#### H. Membership of Professional Associations:

- Member Sociological Society of Nepal (SAN)
- Member Sociological/Anthropological Society of Nepal (SASON)

#### Certification:

- I, the undersigned, certify to the best of my knowledge and belief that
  - (i) This CV correctly describes my qualifications and experience
  - (ii) I am not a current employee of the GoN



- (iii) I was not part of the team who wrote the terms of reference for this consulting services assignment
- (iv) I am not currently debarred by a multilateral development bank (In case of DP funded project]
- (v) I certify that I have been informed by the firm that it is including my CV in the Proposal for the Conduction EIA of National Police Academy Panauti Kurvre Project. I confirm that I will be available to carry out the assignment for which my CV has been submitted in accordance with the implementation arrangements and schedule set out in the Proposal.
- (vi) I declare that Corruption Case is not filed against me.

I understand that any willful misstatement described herein may lead to my disqualification or dismissal, if engaged.

Signature of expert]

Date: 04/07/2022

Day/Month/Year





SHRISTI SHARMA
Gatthaghar-03, Bhaktapur
00977- 9841708983 (Mobile No.),
e47.shristi@gmail.com,
srsti.sharma@outlook.com

#### CAREER SUMMARY

Seeking a challenging and rewarding opportunity with an organization of repute which recognizes my true potential and effectively utilizes my excellent analytical and technical skill

#### PROFILE

- Self-motivated, hardworking and goal-oriented with a high degree of flexibility, creativity, resourcefulness, commitment and optimism with leadership quality.
- Comprehensive multifunctional experience pertaining to project implementation and monitoring, institutional development, capacity building, Teaching, preparation of work plans etc.
- Time management, Good Communication, verbal as well as written

#### EDUCATION

2014 – 2018 A.D Master of Science in Environmental Science [MSc Env. Science] Tribuwan University, College of Applied Science, Kathmandu, Nepal Courses: Ecology and Environmental science, Environmental Earth science, Environmental Pollution and Monitoring, Environmental Conservation and Management, Environmental Impacts and Management Techniques, Environment and Energy, Mountain Environment, Environmental economic, Law and Policy, Environmental Modelling and Research Methodology, Integrated Water Resources Management, Climate Change, Remote Sensing and Geographical Information System.

#### Case Study:

- Water Quality Assessment of Siddhapokhari, Supervised by Sunil Babu Khatry, (Partial fulfillment in Tribhuvan University, 2015)
- A Case Study on Solid waste management practice in Madhyapur Thimi Municipality, Supervised by Sunil Babu Khatry, (Partial fulfillment in Tribhuvan University, 2015)

#### Term paper:

- A Term paper on Ground water quality assessment, (Partial fulfillment in Tribhuvan University, 2017)
- Term Paper on Solid waste management of Kathmandu Metropolitan City, (Partial fulfillment in Tribhuvan University, 2017)

#### Dissertation:

- Climate change impacts and adaptation practices in Tulsipur Sub-Metropolitan City, Dang
- 2010-2013 A.D Bachelor of Science in Environment Science [BSc Env. Science] Tribuwan University, Golden Gate Int'l College, Kathmandu, Nepal Courses: Environmental Pollution and Control, Resources Conservation and Management, Biostatistics.



Employment Record Relevant

Period	Employing organization and title/position	Country	Activities Performed Relevant to the Assignment:
January 2019 - Dated	Employer: NEA Engineering Company Limited Position Held: Associate Environmentalist	Nepal	A) IEE Study (Completed) of  • Mewa-Change 132kV TLP  • Gried Tied Solar Project (3.09MW)  B) Environmental Impact Assessment (ongoing) of  • Betan Karnali HEP(439 MW)  • Kimathanka Arun HEP (450MW)  • Jagadulla HEP (106MW)  • Phukot HEP (480MW)  C) IEE Study (ongoing) of  • Chandrapur-Suakdevchwok 132kV TLP  • Haitar (Arun Koridor)-Sitalpati 400kV TLP
March 2020- January 2021	Employer: Research Enclave Private Limited Position Held: Environmentalist	Nepal	-IEE of Building of APF a dependent company, Bajura
March 2020- January 2021	Employer: Solution for Sustainable Development Nepal Position Held: Environmentalist	Nepal	IEE study for  Building of APF a dependent company, Kailali Building of APF a dependent company, Doti
September 2014-May 2015	Employer: Children for Green New Nepal Position Held: Environment Campaigner	Nepal	Played pivotal role to educate students about environmental issues, to raise awareness amongst students and community etc.     Involved in Flower project at Patan Durbar Square     Actively involved in various activities like street dramas, school presentations, trash collection events, tree plantations, Exhibitions and many more

#### TRAINING/ PARTICIPATION

- Successfully completed the training on Environmental impact assessment (EIA), College of Applied Science, 15<sup>th</sup> August to 30<sup>th</sup> August, 2014, 15 days
- Successfully completed the training on Chemical Management, College of Applied Science, from 1<sup>st</sup> August to 7<sup>th</sup> August 2016,7 days
- Successfully completed the training on Geographic information system (GIS), College of Applied Science, from 9th March to 23th March 2017, 15 days
- Participated in volunteering program to educate the students of Helambu, HELP, from 28<sup>th</sup> July to 12<sup>th</sup> August 2014, 15 days
- Participated in Being a World Class Manager module, JD group, 20<sup>th</sup> September 2013 to 21<sup>st</sup> September 2013, 2 days
- Participated in Corporate Training in Interview and communication specialist, JD group, 15<sup>th</sup> September to 19<sup>th</sup> September, 5 days
- Ideating Intellectual property and inventing module, JD Group, from 11<sup>th</sup> September 2013 to 14<sup>th</sup> September 2013, 4 days
- EDI training in personal development, from 2<sup>rd</sup> March to 17<sup>th</sup> March 2011,15 days
- Successfully Completed the Professional Arc GIS 9.3 training from August 18<sup>th</sup> to September 8<sup>th</sup>, 20 days



Volunteered in Miles for million smiles 5 km run on 19/04/2014.

#### IT SKILL

 Fundamentals & Operating System, Remote sensing, Arc GIS 10.6.1, Paintbrush, Microsoft Package, Adobe PageMaker 7.0, SPSS.

#### PERSONAL DETAILS

Date of Birth

24th Mar 1993

Gender

Female

Nationality

Nepali

Languages known:

Speaking	Reading	Writing
Excellent	Excellent	Excellent
Excellent	Excellent	Excellent
Good	Good	Good
	Excellent Excellent	Excellent Excellent Excellent Excellent

#### REFERENCE

 Mr. Nawaraj Chapagain, Division Chief, Environment, Health, Safety and Social (EHSS) Division, NEA Engineering Company

Contact: 9851128445,

E-mail: nrchapagain@msn.com

 Mr. Saroj Ghimire, Sr.Environmentalist, Environment, Health, Safety and Social (EHSS) Division, NEA Engineering Company

Contact: 9851047867

E-mail: ghi.saroj@gmail.com

#### Certification:

I, the undersigned, certify to the best of my knowledge and belief that

- (i) This CV correctly describes my qualifications and experience
- I was not part of the team who wrote the terms of reference for this consulting services assignment
- (iii) I am not currently debarred by a multilateral development bank (In case of DP funded project]
- (iv) I certify that I have been informed by the firm that it is including my CV in the Proposal for the Conduction ELA of National Police Academy Panauti Karvre Project. I confirm that I will be available to carry out the assignment for which my CV has been submitted in accordance with the implementation arrangements and schedule set out in the Proposal.
- (v) I declare that Corruption Case is not filed against me.

I understand that any willful misstatement described herein may lead to my disqualification or dismissal, if engaged.

[Signature of expert]



Date

Date: 04/07/2022

Day/Month/Year



Position Title and No.	Ass. Environmentalist
Name of Firm	Research Enclave Pvt. Ltd.
Name of the Expert	Mr. Samir Thapa
Date of Birth	Dec 26th, 1995
Citizenship	Nepali

Personal Contact Details

9843004999,

Email: samirthapa012@gmail.com

Tripurasundari-3, Tallo Pokhara, Dhading

- ✓ MSc Environmental Science -2020 AD
- ✓ BSc Environmental Science -2017 AD
- √ 10+2 Science 2013 AD
- ✓ SLC-2011 AD

Membership of Professional Associations

None

# Languages

	Speaking	Reading	Writing
Nepali	Excellent	Excellent	Excellent
English	Excellent	Excellent	Excellent
Hindi	Good	Fair	Fair

# Work Undertaken That Best Illustrates Capability to Handle the Tasks Assigned

#### Work Experiences

1) Year:

6th Oct 2020 to tiff date

Employer:

Elysian Consulting Services Pvt. Ltd.

Location:

Kathmandu

Position held:

· Managing Director

Activities Performed:

Manage all internal and external affairs.

# 2) Name of project: Nagdhunga Tunnel Construction Project

Year:

1st Feb 2020 to 9th Feb 2022

Employer:

GEOCE Consultants Pvt. Ltd.

Location:

Kathmandu

Client:

Department of Roads

Position held:

Environmental Inspector

Activities Performed.

Monitor environmental aspects of the project,

Conduct weekly monitoring and advise the contractor on issues,



Prepare quarterly report for the donor agency.

### Name of Involved Projects

1) IEE of Construction of Building of Armed Police Force, Nepal Security Base Santapur, Rautahat

Year:

2022

Employer:

Solution for Sustainable Development Pvt. Ltd.

Client:

Armed Police Force, Nepal Security Base Santapur, Rautahat

Location:

Chandrapur Municipality, Rautahat, Madhesh Province Team Member (Assistant Environmentalist/GIS Analyst)

Position Title: T Activities Performed:

Conduct field visit and data collection,

Conduct public hearing in the project affected site.

Prepare final IEE report.

2) IEE of Construction of Building of Armed Police Force, Nepal Gulma, Narayan Municipality,

Ward no. 8 Dailekh, Karnali Province

Year:

2022

Employer:

Research Enclave Pvt. Ltd.

Client:

Armed Police Force, Nepal Gulma, Narayan Municipality

Location:

Narayan Municipality, Dailekh, Karnali Province

Position Title:

Team Member (Assistant Environmentalist/GIS Analyst)

Activities Performed:

Conduct field visit and data collection.

Conduct public hearing in the project affected site,

Prepare final IEE report.

3) IEE of Eye Hospital-Pawannagar-Purandhara Road (29.890 km)

Year:

2022

Employer:

Canvas Engineering Consultancy Pvt. Ltd.

Client:

Road Division, Dang

Location:

Dang, Lumbini Province

Position Title:

Team Member (Assistant Environmentalist)

Activities Performed:

Conduct field visit and data collection.

Conduct public hearing in the project affected site.

4) IEE of Ramghat-Thantikadh-Sinhasain-Pipalkot-Kalikot Road (15.00 km)

Year:

2022

Client:

Infrastructure Development Office, Dailekh

Location:

Aathbis Rural Municipality, Dailekh, Karnali Province

Position Title:

Team Member (Assistant Environmentalist)

Activities Performed:

Conduct public hearing in the project affected site,

Presentation of final IEE report to the Ministry.

5) IEE of Mathillo Dhungeshwor-Dullu-Beuli-Kalikot Road (15.00 km)

Year:

2022

Client:

Infrastructure Development Office, Dailekh

Location:

Dullu Municipality, Dailekh, Karnali Province





Position Title: Team Member (Assistant Environmentalist)

Activities Performed:

Conduct public hearing in the project affected site,

Presentation of final IEE report to the Ministry.

#### 6) IEE of Dailekh Sadarmukam-Naumule-Jajrkot Road (15.00 km)

Year:

Client: Infrastructure Development Office, Dailekh

Location: Narayan Municipality, Dailekh, Karnali Province

Position Title: Team Member (Assistant Environmentalist)

#### Activities Performed:

Conduct public hearing in the project affected site,

Presentation of final IEE report to the Ministry.

# 7) IEE of Santada-Mehelotoli-Patihalna-Jajarkot Road (Sahid Mayaram Marga) (15.00 km)

Year:

2022

2022

Client:

Infrastructure Development Office, Dailekh

Location:

Dailekh, Karnali Province

Position Title:

Team Member (Assistant Environmentalist)

#### Activities Performed:

Conduct public hearing in the project affected site,

Presentation of final IEE report to the Ministry.

#### 8) IEE of Sangetada-Bindrasaini Chamunda Road (15.00 km)

Year:

2022

Client:

Infrastructure Development Office, Dailekh

Location:

Chamunda Bindrasaini Municipality, Dailekh, Karnali Province

Position Title:

Team Member (Assistant Environmentalist)

#### Activities Performed:

Conduct public hearing in the project affected site,

Presentation of final IEE report to the Ministry.

#### 9) IEE of Guranse-Paatikalna-Dudapokhara-Tallo Dungeshwor Road (15.00 km)

Year:

2022

Client:

Infrastructure Development Office, Dailekh

Location:

Dailekh, Karnali Province

Position Title:

Team Member (Assistant Environmentalist)

#### Activities Performed:

Conduct public hearing in the project affected site,

Presentation of final IEE report to the Ministry.

#### 10) IEE of Mathillo Dhungeshowr-Dadaparajul-Harneta Road (15.00 km)

Year:

2022

Client:

Infrastructure Development Office, Dailekh

Location:

Dailekh, Karnali Province

Position Title:

Team Member (Assistant Environmentalist)

#### Activities Performed:

Conduct public hearing in the project affected site,

Presentation of final IEE report to the Ministry.





11) IEE of Kopchi-Katti-Bestada-Ruma-Chauratha-Deuli Road (15.00 km)

Year:

2022

Client:

Infrastructure Development Office, Dailekh

Location:

Dailekh, Karnali Province

Position Title:

Team Member (Assistant Environmentalist)

#### Activities Performed:

- Conduct public hearing in the project affected site,
- Presentation of final IEE report to the Ministry.

### 12) IEE of Narayan Municipality Ring Road (15.00 km)

Year:

2022

Client:

Infrastructure Development Office, Dailekh

Location:

Narayan Municipality, Dailekh, Karnali Province

Position Title:

Team Member (Assistant Environmentalist)

#### Activities Performed:

- Conduct public hearing in the project affected site,
- Presentation of final IEE report to the Ministry.

# 13) IEE of Kaal Bhairab-Gauri-Haadewat-Lujae-Chiudi-Gamaidi-Kaal Bhairab Road (15.00 km)

Year:

2022

Client:

Infrastructure Development Office, Dailekh

Location:

Dailekh, Karnali Province

Position Title:

Team Member (Assistant Environmentalist)

#### Activities Performed:

- Conduct public hearing in the project affected site,
- Presentation of final IEE report to the Ministry.

# 14) Half-Yearly Self-Monitoring of Asphalt Batch Mix Plant of Sailung Construction Company Pvt. Ltd.

Lta.

Year:

2021

Client:

Sailung Construction Company Pvt. Ltd.

Location:

Kathmandu, Bagmati Province

Position Title:

Team Leader

#### Activities Performed:

- Conduct field visit and data collection.
- Preparation of final monitoring report.

## 15) IEE of Sustainable Extraction of Quarry Materials from Different Rivers in Dharan Sub-Metropolitan City

Year:

2021

Employer:

JV-Home Plans Consultancy Pvt. Ltd. and Great Himalaya Research and

Consult Pvt. Ltd.

Client:

Dharan Sub-Metropolitan City Kathmandu, Bagmati Province

Location: Position Title:

Team Member (Environmental Assistant)

#### Activities Performed:

- Prepare TOR report.
- Conduct field visit and data collection,
- Conduct public hearing in the project affected site.
- Prepare final IEE report and presentation to the client.





16) IEE of Extraction, Collection and Selling of Quarry Materials of Daraudi and Marsyangdi River in Gorkha Municipality

Year:

2020

Employer:

Man and Laxmi Engineering Consultant

Client: Location: Gorkha Rural Municipality Gorkha Rural Municipality

Position Title:

Team Leader

#### Activities Performed:

Prepare TOR report,

Conduct field visit and data collection,

Conduct public hearing in the project affected site,

Prepare final IEE report and presentation to the client.

# 17) IEE of Extraction, Collection and Selling of Quary Materials of Badighat River in Gulmidarbar Rural Municipality

Year:

2018

Employer:

Kaustubh Developers Pvt. Ltd. Gulmidarbar Rural Municipality

Client: Location:

Badighat, Gulmidarbar Rural Municipality

Position Title:

Team Leader

#### Activities Performed:

- Prepare TOR report,
- Conduct field visit and data collection,
- Conduct public hearing in the project affected site,
- Prepare final IEE report and presentation to the client.

#### References:

#### 1) Chhatra Mani Sharma

Head of the Department

Central Department of Environmental Science, Tribhuvan University, Nepal

Mob no: 9849041997

#### 2) Er. Arjun Mahotara

CEO

Kaustubh Developers Pvt. Ltd.

Mob no: 9851038641

#### 3) Subarna Bahadur Joshi

Managing Director

GEOCE Consultants Pvt. Ltd.

Mob No. 9851032141

#### Certification:

I, the undersigned, certify to the best of my knowledge and belief that

- This CV correctly describes my qualifications and experience.
- I am not a current employee of the GoN.
- In the absence of medical incapacity, I will undertake this assignment for the duration and in terms of the inputs specified for me in provided team mobilization takes place within the validity of this proposal.





 I was not part of the team who wrote the terms of reference for this consulting services assignment.

v. I am not currently debarred by a multilateral development bank (In case of DP funded project) I certify that I have been informed by the firm that it is including my CV for the Preparation of EIA of NPA Panauti Kavre Project. I confirm that I will be available to carry out the assignment for which my CV has been submitted in accordance with the implementation arrangements and schedule set out in the proposal.

I understand that any willful misstatement described herein may lead to my disqualification or dismissal.

(Signature of Expert) Date: 04/9/2022

Day/Month/Year)





# APPENDIX 12 : COMMENT MATRIX





S.N./ Section	Comments from Review Committee (MoFE)	Response from	Remarks
	समग्र राय-सुझावहरू	C.10	
~	प्रस्ताय सम्बन्धमा क्षेत्राधिकार प्रतिवेदनको परिचय खण्डमा प्रकाश पर्नुपर्ने	Comment incorporated in Section 1.1	
2	प्रस्तुत प्रस्तावको लागि प्रस्तावित स्थानमा पहिचान गरेको बन क्षेत्रको जग्गाको क्षेत्रफल एकिन गरी व्यवस्थापन पद्दति उल्लेख गरिनु पर्ने	Comment incorporated in Section 2.9	
m	प्रस्तुत प्रस्ताय निर्माण गर्न आवश्यक पर्ने निर्माण सामाग्रीको विवरण, परिणाम, स्रोत, दुवानी, भण्डार र प्रयोगसँग सम्बन्धित वातावारणीय सवास पहिचान गरी उल्लेख गरिनुपर्ने	Comment incorporated in Section 3.2	
>	आयोजना/प्रस्तावको layout/design/DPR बारे उल्लेख गरिनुपर्ने	Comment incorporated in Section 2.6	
2	आयोजनाको नक्सा/Design अयस्था के छ? प्रस्ट पार्नुपर्ने।	The layout and design of Project is completed and attached in ANNEX-10	
ω .	आयोजना सम्बन्धमा नेपाल र भारत सरकार बिचको सम्झौता, पुलिस एकडेमी सँग सम्बन्धित कानुनी, नीतिगत दस्तावेज, प्रस्तावको Master Plan/DPR अध्ययन गरि प्रतिवेदनमा उल्लेख गरिनुपर्नै।	Comment incorporated in Chapter 2 and Chapter 4	
9	आयोजना स्थल पुरने पहुँच मार्गका बारे प्रतिवेदनमा स्पष्ट खुलाउनुपर्ने	Comment incorporated in Section 2.4	
>	एकेडेमीको फुल जग्गा मध्ये कति क्षेत्रफल कुन प्रयोजनमा प्रयोग गरिन्छ? कति क्षेत्रफल खुल्ला रहन्छ? प्रष्ट्याऽनु पर्ने	Comment incorporated in Section 2.9	
٠	यस आयोजना ले के के भौतिक संरचना निर्माण गर्छ कति कति क्षेत्रफल प्रयोग हुन्छ? पष्ट पार्नुपर्ने। पुल निर्माण आयोजना के अंग हो? कति मिटर लज्याइको पुल बनाउने हो?	Comment incorporated in Section 2.3	
0	यस बैठकमा समिति सदस्यहरूले दिएका लिखित राय मुझाब यस माईनुटको अभिन्न अंग रहने छ	Duly fulfilled and incorporated all the comments	
11	आयोजनाको कति वटा भवन, कति उचाईका रहन्छन्?	Comment incorporated in Section 2.3	



NPA on 2076/05/03, for which no user related issues will be arised. The detailed will be studyed bhase
Comment incorporated in Section 7.2.2.1
Comment incorporated in Acronyms and Abbreviations
As ward level information is not information is not available in profile, alfuff] न.पा. वडा नं. ६ का सामाजिक संस्कृतिक विवरण उल्लेख available in profile, Panauti Municipality information is presented in Section 6.3
Comment incorporated in Section 2.9
आयोजनाको संक्षिप्त विवरणमा प्रस्तावको लगानी/सङ्योग उल्लेख गर्दा उपयुक्त हुने in Section 1.1 and 2.3
पतियेदन तयार गर्ने विन्नहरूको CV र Team Declaration Original Signature   Comment incorporated सहत संग्लग्न गर्नुपर्ने
Cronological Order मा र AD वा BS मा बनाउन् Comment incorporated in Chapter 4
1 1 19



1000	नियम ७ अनुसार (वा.सं.नि. ०७७) नेपालीमा संक्षिप्त प्रतिवेदन तयार गर्नुपर्ते।	EIA Summary report in Nepall language will be prepared in final study report
	मानव सोतको विवरण उल्लेख गर्नुपर्ने।	Comment incorporated in Section 3.1
	Energy Types and quantity मा Fire wood will be supplied for cooking लेखिएको छ। यसको source पनि खुलाउनु पर्ने।	Due to irrelevancy, fire wood isues is omitted from report
	Chemical waste मा grease and lubricant सँगै paints, pitch गर्न प्रयोग हुने asphalt पनि थप गर्नुपर्ने।	Comment incorporated In Section 7.2.2.1
	Costruction materials source and quantity section मा aggregates, sand, stone/boulder market बाट किल्ने लेखिएको तर issues identify गर्दा crusher plant बाट पर्ने प्रभाव राखु भएको छ। Crusher को लागी चाहिले raw material को source पनि clearly mention गर्नुपर्ने।	Issues of crusher is omitted from the report as all the materials will be procurred from legal local markets
		Comment incorporated in Section 7.2.2.1
	आयोजना वरपर पानीको सोत छ/छैन र त्यसबाट त्यहाँका स्थानीयलाई पर्ने प्रभाव समावेश गर्नुपर्ने	Comment incorporated in Section 7.2.2.1
	सामुदायिक चनमा आश्रित समुदायमा पर्ने प्रभाय समावेश गर्नुपर्ने।	already decided for the use of forest area from NPA on 2076/05/03, for
	भूमिगत पानीको सतहमा पर्ने असर र पानीको सतह मापन गर्नुपर्न	Comment incorporated in Section 7.2.2.1
	E-Waste को प्रभाव समावेश गर्नुपर्नी	Comment Incorporated in Section 7.2.2.2
1	Air quality र noise level को data 24 krs की ह्नुपर्ठ	oumment incorporated in Souther 2.2.4





वन क्षेत्र क्षित पर्ने शर प्रयोग कारण, आधार अध्ययन गरी प्रतिवेदनमा समावेश गर्न See Section 1.7 and APPENDIX-2 & 3 किट्ययन गर्दा डिमिजन यन कार्यालय सँग समन्यय गरी अध्ययन गर्दा डिमिजन यन कार्यालय सँग समन्यय गरी अध्ययन गर्दा डिमिजन यन कार्यालय सँग समन्यय गरी अध्ययन गर्दा विकास सम्वाय है। अध्ययन गर्दा वार्यालय स्वाय कार्य प्रविकास सम्वय है। अध्ययन गर्दा मार्थिको आधिकार कसरि सुनुचित पटन पटन प्रविकास समावेश गर्दा पत्री अध्य किर्याको प्राकृतिक श्रीत आधिको अभिकार कसरि सुनुचित । अध्य कार्य पत्री कार्यालय वार्य कार्य प्रविकास समावेश गर्दा पत्री वार्य कार्य प्रविकास समावेश कार्य अध्ययन गर्दा अध्य समावेश कार्य अध्यय समावेश कार्य कार कार्य कार		यन क्षेत्र अन्दा वाहिरको क्षेत्रमा NPA बनाठन अध्ययन गर्नु पर्न	construction of building will be completed within the land owned by NPA i.e. outside of forest area	
अध्ययन गर्दा डिभिजन यन कार्यालय सँग समन्त्रय गरी अध्ययन गर्न पूर्न पर्ने पर्ने सामुद्रायिक यनका उपभोक्ताको प्राकृतिक श्रोत माथिको अधिकार कसारे सुनुश्वित गर्न सिकेल्डर सो अध्ययन गर्ने पर्ने ।  समुद्रायिक यनका उपभोक्ताको प्राकृतिक श्रोत माथिको अधिकार कसारे सुनुश्वित गर्ने सिकेल्डर सो अध्ययन गर्ने पर्ने ।  प्रान्तिवेदनमा समावेश गर्नु पर्ने ।  प्रान्तिवेदनमा समावेश गर्नु पर्ने ।  प्रान्ति प्रान्ति ।  प्रान्ति पर्ने साम् प्रान्ति वन सो भवन यनावेने समस्य प्रान्ति जन्माको स्थानित्व र प्रान्ति प्रान्ति अभ्या सामिको भयन यनावेने समस्य ।  प्रान्ति यन सोम प्राप्ति हिमेमा वन ऐन २०५६ र यन नियमावती २०५९ बमोजिम सट्टाअनी स्थान ।  सट्टाअनी स्थलपको जग्गा उपलब्ध गराईन्छभिनि प्रतिवेदनमा उल्लेख गर्नुपर्ने ।  वानुनको पुनरायकोवन्त गर्दा Chronological उर्पेक्त सा मिलाई कानुनको सम्बद्ध थारा, दका, र नियमको खस प्रावधान उल्लेख गर्ने ।	٠		See Section 1.7 and APPENDIX-2 & 3	
सामुदायिक वनका उपभोकाको प्राकृतिक श्रोत माथिको अधिकार कसारे सुनुष्यित गर्न सिकेल्डरे सो अध्ययन गर्नु पर्ने। कटान गर्नुपर्ने रूख विरुवाको लागत वन नियमावली २०७९ अनुसार संकलन गरी प्रतिवेदनमा समायेश गर्नु पर्ने। प्रतिवेदनमा समायेश गर्नु पर्ने। रामगर प्रतिवेदनमा स्थायेग हुनेमा वन स्था वातावरण मन्त्रास्य प्रकार प्रतिवेदनमा खुलाउने। भवन बनाउने क्षेत्रफल र खुल्ला क्षेत्रफल के कि हो? स्ट्राभनो। राष्ट्रिय वन क्षेत्र प्रयोग हुनेमा वन रेन २०७६ र वन नियमावली २०७९ बमोजिम सट्टाभनो स्वरूपको जण्गा उपलब्ध गराईन्छमेनि प्रतिवेदनमा उल्लेख गर्नुपर्ने। बालुनको पुनरायलोकन गर्दा Chronological order मा मिलाई कानुनको सम्बद्ध धारा, दक्ता, र नियमको खस प्रायथान उल्लेख गर्नी	m		feedback kindly noted and will be addressed during EIA study phase	
कटान गर्नुपर्न रख विरुवाको लागत वन नियमावली २०७९ अनुसार संकलन गरी प्रतिवेदनमा समावेश गर्नु पर्ने। रामजी दलाई (उप-सिचेब) वन तथा वातावरण मन्त्रास्य एकाएगवा नेपाल स्वयनमाप्र पालामा जन्मा पात जन्मा पाएन हान साजित्व र प्रकार प्रतिवेदनमा खुलाउने। भेयन बनाउने क्षेत्रफल र खुल्ला क्षेत्रफल के कित हो? समाये। राष्ट्रिय यन क्षेत्र प्रयोग हुनेमा वन ऐन २०७६ र वन नियमावली २०७९ बमोजिम सट्टामनी स्वरुपको जग्गा उपलब्ध गराईन्डअनि प्रतिवेदनमा उल्लेख गर्नुपर्ने। बानुनको पुनरावलोकन गर्दा Chronological order मा मिलाई कानुनको सम्बद्ध धारा, दफा, र नियमको खस प्रावधान उल्लेख गर्ने।	>0	सामुदायिक यनका उपभोक्ताको प्राकृतिक श्रोत माथिको, अधिकार कसरि सुनुष्यित गर्ने सकिन्छ? सो अध्ययन गर्नु पर्ने।	Devisthan (Kha) CF has already decided for the use of forest area from NPA on 2076/05/03, for which no user related issues will be arised	
रामजी दहाई (उप-सिचेंब) वन तथा वातावरण महनालय Nanonar Ponce मध्यवनार पा लाग जन्मा पात जन्मा पाहन का मा जन्मणत ८.१८हे. राष्ट्रिय वन क्षेत्र भन्दा अरु जन्मा चाहिने, नचाहिने जन्मको स्यामित्व र प्रकार प्रतिवेदनमा खुलाउने। भयन बनाउने क्षेत्रफल र खुल्ला क्षेत्रफल के कित हो? स्टाम्पे राष्ट्रिय वन क्षेत्र प्रयोग हुनेमा वन ऐन २०७६ र वन नियमावली २०७९ बमोजिम सट्टामनो स्परपको जन्मा उपलब्ध गराईन्छमेनि प्रतिवेदनमा उल्लेख गर्नुपर्ने। बानुनको पुनरायलोकन गर्दा Chronological order मा मिलाई कानुनको सम्बद्ध धारा, दफा, र नियमको खस प्रावधान उल्लेख गर्ने।	5	कटान गर्नुपर्ने रुख विरुवाको लागत यन नियमावली २०७९ अनुसार संकलन गरी प्रतिवेदनमा समावेश गर्नु पर्ने	Feedback kindly noted and will be incorporated in EIA study report	
राष्ट्रिय वन क्षेत्र प्रयोग हुनेमा वन ऐन २०५६ र वन नियमावली २०७९ बमोजिम सट्टोअनी स्वरुपको जग्गा उपलब्ध गराईन्छभेनि प्रतिवेदनमा उल्लेख गर्नुपर्ने  कानुनको पुनरावलोक्न गर्दा Chronological order सा मिलाई कानुनको सम्बद्ध धारा, दफा, र नियमको खस प्रावधान उल्लेख गर्जे	a-	रामजी दलाई (उप-सचिव) वन तथा वातावरण मन्त्रासय Nationar Funce मध्यवनाए या लागा जन्मा पात जन्मा पाल्न हा है जन्मणत ८.२८हे. राष्ट्रिय वन क्षेत्र भन्दा अरु जन्मा चाहिने, नचाहिने जन्मको स्वामित्व र प्रकार प्रतिवेदनमा खुलाउने। भवन बनाउने क्षेत्रफल र खुल्ला क्षेत्रफल के किति हो?	Comment incorporated in Section 2.3 & 2.9	
कानुनको पुनरायकोवान गर्दा Chronological order सा मिलाई कानुनको सम्बद्ध धारा, दफा, र नियमको खस प्राबधान उल्लेख गर्जे।	8	राष्ट्रिय वन क्षेत्र प्रयोग हुनेमा वन ऐन २०७६ र वन नियमावली २०७९ बमोजिम सट्टाअनी स्यरूपको जग्गा उपलब्ध गराईन्छभेनि प्रतिवेदनमा उल्लेख गर्नुपर्ने।	Comment incorporated in Section 4.4	
	m		Arranged in Chronological order in Chapter 4	



Constitution of Nepal मात्र हो, २०७२ होईन।	Comment incorporated in Section 4.1
कानुनको उल्लेखित केहि AD मा भएको केहि BS मा भएकोले एकीकृत व्यवस्था राखेँ	All the date has been arranged according to BS
Land use policy 2075 हो। Double उल्लेख पनि अएको छ।	Comment incorporated in Section 4.2
ट्यक्तिको जग्गा अधिग्रहण गर्न होईन भने जग्गा प्राप्ति ऐन, २०३४ पुनरायलोकन गर्नु नपर्ने।	As there is no task related with the acquisition of private land, the Land Acquisition Act 2034 is omitted

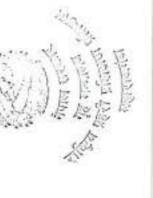




Additional policies on Building Act, 2075; The National Civil (Code) Act, 2074; Water Resource Act, 2045; National Park and Wildlife Conservation Act, 2029, Aquatic Protection Act, 2017; Forest Regulation, 2079; The National Civil (Code) Procedure, 2076; Police Act, 2012; Police Regulation, 2071; Building Regulation, 2086 are reviewed and incorporated in Chapter 4	प्रना, ागर्टा, भाजुया उत्प्रवत्त् र विक्री वितरण सम्बन्धि	Miletie Sololo ie
Comment incorporated in Chapter 4	Comment incorporated in Chapter 4	in Continuent incorporated
थप पुनरावलोकन गर्नु पर्ने कानुत भूमि सम्बन्धि ऐन, २०७५ मुनुकी देवयानी संहिता, २०७४ मुनुकी देवयानी कार्यविष्टि, २०७४ यानी तथा खनिज पदार्थ ऐन, २०४२ राष्ट्रिय निकुन्ज तथा दन्यजन्तु संरक्षण ऐन, २०२९ जलचर संरक्षण ऐन, २०१७ अपन संहिता	अन्य वन्यजन्तु मैत्री पूर्वाधार निर्माण निर्देशिका, २०७८ हुँगा, गिट्टी, बालुवा उत्खनन् र विक्री वितरण सम्बन्धि मापदण्ड, २०७७	नक्सा पास सम्बन्धिय न.पा. बाट हुने भनि प्रतिवेदनमा उल्लेख गर्ने।
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	उत्तेख गर्ने	in Section 3.6.2	
æ	वैदेशिक लगानी/ वैदेशिक सहायताको लागी उचोग विभागबाट अनुमति लिनु पर्ने।	This Project is fully funded (Not Loan) from Gol for which approval shall not be required from Department of Industry	
	Rajan Rishi Kandel (Socio-Economic Expert)		The state of the s
Abbreviation and Acronyms (P-V)	There is missing so many short forms in abbreviations and acronyms in submitted report	Comment incorporated in 'Acronyms and Abbreviations'	
Add 1.8 (P-3)	Project Area Delineation Sub-chapter	Comment incorporated in Section 1.9	
Sub Chapter 1.6 and 2.3 table 1.6.1 and 2.3.1 (P-2&5)	Write up water volume in liter	Comment incorporated in both documents	
Table 2.3.1 (P-5)	Table 2.3.1 (P-5) Check total area of Governemnt managed forest land in (m)2	All the forest area is made consistent as hectare (ha)	,
Figure (all)	Submit color map in SD and ToR	Comment incorporated in both documents	
Sub-chapter 6.3 Table 6.3.1 (P- 40)	Please add to word no 6 socioeconomic data with panauti Municipality Add given column towards indigenous, khas Aarya and Dalit caste in Project Area in ethnnic group composition of Project area as per Constitutional Provision and presented data should be numerical order	Comment incorporated in Section 6.3	





		127				
The cabinet has made decision on 2075/05/21 (6 September 2018) for the reloaction in decision no. 4 (1) and (3) Refer in Relevancy and APPENDIX 2 for this	Comment Incorporated	Comment incorporated in both documents	Comment incorporated in APPENDIX-10		Comment incorporated in Section 2.9	Comment incorporated in the Section 6.2 and the conservation map is revised with Phulchoki Mountain Forest Area
The provision of cabinet meeting minute of land acquisition and National Priority Project Letter Document (Documents attach in annexes)	Section 2.10.8(7) Change into project Area Delineation for Classification of Project Area (P-14) Sub Chapter	Add issues on livestock and local grazing land both in SD and ToR	Declaration Form Add to column for EIA experiences as per EPR of Experts	Comments and Suggestion: Biological Environment	As the Project will construct building structures in 8.28 ha of forest land areas, 2.9 types and area of required land should be categorized as per land use types (P-10)	Methods: Biological Environment:- The proposed method used during field study should use checklist/matrix. Findings of the proposed method necessary include in the existing environmental condition. Cover all biological domain studied during SD preparation.
ToR/Sub chapter 1.2	Section 2.10.6(7) (P-14)	Table 5.1.1 (P- 27)	Declaration Form		·	22







निर्माण घरणमा उत्खनन् र निर्माण कार्यको साथै कामदारबाट उत्पादन हुने तथा   Comm संघालन घरणमा सबै प्रयोगकर्ताहरूले उत्पादन गर्ने कृहिने र नकुहिने ठोस फोहोर र  in Sec फोहोर पानीको परिणाम तथा त्यसको विसर्जन प्रणाली,	अमिगत पानी प्रयोग हुने भए कति परिणाम उपलब्ध हुने, तत्सम्बन्धि स्वीकृति र पुनर्भारण गर्ने विधि र परिणाम 3.6.4	वर्षात्को पानी सङ्कलन गर्ने योजना भए त्यसको क्षमता र प्रयोजन In Sec	निर्माण तथा संचालन दुवै चरणमा बहुप्रकोपको सुरक्षा प्रणाली र योजना Comm in Sec	There is no issues of अध्यक्ष्य पनि परिच्छेद २.७.१ मा सुचिकृत भएकोले लिजि वा मुठी land acquisition for जग्गा समेत पर्ने भए क्षतिपूर्ति सम्बन्धि विवरण which omitted the is related to acquisition	Upgradation of road will be suff पहुँच मार्ग लयाँ निर्माण शर्ज पर्ने पर्ने वा स्तरोत्नति गरे पुग्ने हो, त्यसको प्रयोग अरु Project area. भेत्रलाई पनि जोइने गरी हुने अए ट्राफिक व्यवस्थापतको विषय पनि उल्लेख हुनु पर्ने Issues of traffic management is incorporated in: 7.2.2.1	Since t househ सङ्कलन गर्ने कार्य क्षेत्रमा पर्ने घरपुरीहरूबाट आधारमूत सूचक तथा जानकारी househ सङ्कलन गर्ने कार्य क्षेत्र थप गर्नुपर्ने
Comment incorporated in Section 3.6.1 and 3.6.3	Comment incorporated in Section 3.6.2 and 3.6.4	Comment incorporated in Section 3.6.4	Comment incorporated in Section 3.6.5	There is no issues of land acquisition for which omitted the issues related to acquisition	Upgradation of existing road will be sufficient in the western part of Project area. Issues of traffic management is incorporated in Section 7.2.2.1	Since there is no any households within DIA, household information will be collected using





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on 7.2.2			
in Section			
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भवन ऐन, सम्बन्धित Information on technical aspect is incorporated in Chapter 2 and Policies in Chapter 4	रुपमा समुहिकृत गर्ने। Comment incorporated in Section 7.2.2
सन्दर्भ सामग्रीको सन्निक्षामा नगर विकास ऐन, भवन ऐन, सम्बन्धित नियमावलीहरू र भवन मापदण्ड तथा भवन संहिताहरू समेत थप्नुपर्ने र असान्दर्भिक दस्तायेनहरूको समिक्षा हटाउने	सम्भावित प्रभावहरूलाई एकमुष्ठ नम्रङ् विषयगत रूपमा समुहिकृत गर्ने
9	,





# नेपाल सरकार



# वन तथा वातावरण मन्त्रालय

(वातावरण तथा जैविक विविधता महाशाखा)

EX: पो॰ ब॰ जं॰ ३९८७ सिंहदरबार, काठमाडौ

मिति : २०७९/०५/०५

पत्र संख्या :२०७९/०८० चलानी नं निध्ये प्राप्त पत्र संख्या र मिति :

> श्री राष्ट्रिय प्रहरी प्रशिक्षण प्रतिष्ठान, महाराजगन्ज काठमाण्डौ ।

> > विषय : परिमार्जित वातावरणीय प्रभाव मूल्याङ्गनको क्षेत्र निर्धारण प्रतिवेदन एवं कार्यसूची पेश गर्ने सम्बन्धमा ।

प्रस्तुत विषयमा तहाँ प्रस्तावक रहेको वागमित प्रदेशको काभ्रेपलान्चोक जिल्ला पनौति नगरपालिका वडा नं ६ मा निर्माण हुन लागेको राष्ट्रिय प्रहरी प्रशिक्षण प्रतिष्ठान आयोजनाको वातावरणीय प्रभाव मूल्याङ्गन प्रतिवेदनको क्षेत्र निर्धारण प्रतिवेदन एवं कार्यसूची सम्बन्धमा राय सुझाव प्रदान गर्नुहुन भनी मिति २०७९/०५/०१ को पत्रानुसार राय सुझाव समितिको मिति २०७९/०५/०५ मा बसेको बैठकवाट प्राप्त राय सुझावहरू यसैसाथ संलग्नछन।संलग्न सुझावहरूमा उल्लिखित बुदाँहरू अनुसार सो प्रतिवेदनमा परिमार्जन गर्न आवश्यक देखिएकोले EIAप्रतिवेदन सुझाव समितिबाट प्राप्तराय सुझावहरू समावेश गरी समावेश गरिएको परिमार्जन तालिका र प्रतिवेदनमा परिमार्जन गरिएको विषयवस्तु स्पष्ट देखिनेगरी हाईलाईट सहित प्रतिवेदन पेश गर्न हुन निर्देशानुसार अनुरोध छ।

( खिलानाथ दाहाल ) सहायक वन अधिकृत





आज मिति २०७९/०१/०१ गते आइतबार विहान द:००वजे प्रस्तावक श्री राष्ट्रिय प्रहरी प्रशिक्षण प्रतिष्ठान , महाराजगन्ज काठमाण्डौद्वारा वागमती प्रदेशको काभ्रेपलान्चोक जिल्ला पनौति नगरपालिका वडा नं ६ मा निर्माण हुन लागेको राष्ट्रिय प्रहरी प्रशिक्षण प्रतिष्ठान आयोजनाको को वातावरणीय भाव मुल्यांकन (EIA)को क्षेत्र निर्धारण प्रतिवेदन तथा कार्य सुचीमा सुझावका लागि छलफल गर्न बन तथा वातावरण मन्त्रालयको सभाकक्षमा वातावरण तथा जैविक विविधता महाशास्त्राका प्रमुख सहराचिव श्री मेघनाथ काफ्ले ज्यूको अध्यक्षतामा बसेको वातावरणीय प्रभाव मूल्यांकन प्रतिवेदन सुझाव समितिको बैठकवाट प्राप्त राय सुझाव देहाय बमोजिम छन ।

9. प्रदलाव सम्बन्धमा झेत्रतिबरिण प्रतिवेद्रतको परिचय रवषमा प्रकाश्च पार्युचर्र।

- वै. प्रस्तुत प्रस्तावको लागि प्रसावित स्थातमा सहिरात गर्देको वेत्र बोशको जान्याको होश्याल हिन्द्र गर्दे व्यवस्थापत्र पहुती उट्टोक गरितु पर्दे।
- 3. प्रस्तुत प्रदूता कारी कारी गर्भ आव करा क पर्य तिकारी राजा की की विवास कारी स्थान कारी की कार्य कारी कारी स्थान कारी कारी अवास की स्थान कारी अवास कारी अव
- ४. आर्योजमा / प्रतादको Layout / Design DPR वारे उन्होंस
- 2. आर्थी जाना वो नक्सा / Dengn उपबाला है हे ? प्रा पाईकरें।
- इ. आर्थों जाना सम्बन्धमा नीपाल र भारत एरका विकासी रंजीता, पुलिस एकाई भी संग सम्बन्धित काबरी, नीतिगत दार्लिंग, प्रालाम कांत्र DPR किल्पाका गरि प्रारम्भिता उटलीरेन सारिश्वमें।
- 6 अराधीं अता रूपल पुन्ने पहुँच प्रार्जना बाँद प्रतिवेदता रपण विलाभुक
- ए एकेडे मी बो खुल अञ्चार सहिते कारि भेगामल कुर प्रयोगमण प्रयोग गारेन्द्र ? कार्र भेगामल खुनला रहन्द्र ? प्रयोगमण
- 8. यस अगर्योजना के किया कर कराना निर्माण कर करेंद्र

भी अपने प्रयोग इन्द ? पूर्व पार्युपर्ने । पुना निर्माण आयौजना हु अने हो ? कात मिर् लम्बाहरी पुल बराओं ही ? 90. यस वैढळमा स्मीकारे सम्बन्ध हत्ती नेदएका किरियर राय पुका यस Minutes (माइल्प्टकी) अरोधन अंग रही ड। 94. आधोजनानाका क्रीत्वरा अवत, क्रीते उचाइका बहाइन ? 43. पर्नीती नाग्यानिकाको Bylaw अवद्याद र राविय भवन लेहिन SIZUIL HORAL Design Egux १४. 3-11 सी कारा के काला कार कार कार कार मा पार्टी अरवर्ष ही? स्ति के ही? बाता व्लीय सवाल है.25न? १४. छीस तथा तरल फोहर अञ्बद्धि सवाल (रामाधीन एवेत) चाहिचान शिवितुपर्ने। 98. उताची जाताकी पहुँच ऋग्ति अञ्चरिक विवर्ष र वातावर्ति र्वाल पहिचान गरियुक्ती। १६. आर्थोजानाको प्राथम प्राचित्र क्षेत्र र अप्राथम प्रभाद क्षेत्र मि हमें हो ? प्रमुख द्वाल ने हैं हुन ? १८. क्रिकींग च्या र सम्यालम चालामा स्वाललाई हुराड्य पर् 98. galient feature IT Fras arriacojas daso 1230x 20. मीविष्ठ बाताव एको अस्पापत्र विकि है हो ? प्रत पार्द्रपत्र । 29. प्रतिर्वेद्रतमा उल्लेपिका निवद्ग ८०८,०७७ की फर्नेरमा इनुपर्ने । वर्व, वर भार प्रधीम मार्ची पर प्रमाव/ स्वाल है.2 ड्रा? 22. वनकी खीत माधिकी पहुँचामा भार्योजनाते है असर वहुँ? 28 पुन्धप्रति स्वोलाका अधिक विवर्ण व हैंम? स्वाल १९९९. 24. केटी Abbrenivalin दूर अपने ले ख़िकार एक्ट्रेंग वर्ते। 29. chapter 6, पत्रीली ज.पा. वडा केट्रेंग यामाजिक माएकोत. विवर्ण डक्लेस्त जावियते

# National Police Academy Project Karre (S.D. & TOR)

कि वस क्षेत्र भन्दा खाहिरके खेवका NPA बनाउन फिट्यम गुर्न

@ वन होंग्र किमें पर्ने ४५ १ वर्ष कारत कारत , काबाद कार्य म

ज्राती प्रतिबद्दा स्मावका गर्दी पर्दे।

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करात उत्ते पर्मे अख विकार कार कार क्या नियम्बली 2005 क्रिक्ट खेंडकार मही सरिवदेनका क्यावेश उर्जा प्रमे

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National police Academy, panauti EZA Report 8.28 hectors Kilazur augnar zwist gail उपस्तिमीन (उए र) National policy Academy is onthe stone wa वेत हैया भी भन्तात かいい かんとうない からからまるい まるをい するかのから かなく かえかかいい Sully variet of sully a related a host alyper shows along your ロハロス あかかして てんしい からかい そん さん ない ないいろ थारिया वर्षेत्र प्रयोग डरीमा वर होए, 2063 में वर त्रियावकी, 2663 वर्षो The second master of the go of The second successions a source of the 3111 TUCHONSA M. sundi y relamis , sial charmological order HT Trais sund that the hour a - Aunat done Macher 300 251 & tenstitulining Nepal his Eig 2072 BS EIZOI amenta and of AD ME WAY SEB a. Ly xeer z xm. lu de Umoour z grazzonerer) 25, 2066 ut coast g. \* 3 mys 95 5003. LIN WAS THE I. gul wrazut " delle n1443 or market would the क. मन्दि देशान-संस्तिर, 2068 k. 11 h sulland .. Bold 3. 411 A- 1411 NOTON USIN RT, 2082 בי אושיחו ושלבים אחי שיח שים ביל ביל שביל I. HAZK 20201 By 2096

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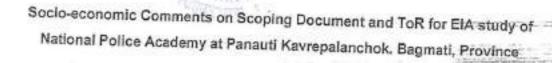
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### Review Committee Meeting (MoFE) 2079-05-05

Project Proponent: National Police Academy

S.No	Chapter/Section Page No.	Comments		
TEN HALL	(Comments on SD)			
- 1	Abbreviations and acronyms (page v)	There is missing so many short forms in abbreviations and acronyms in submitted report.		
2	Add 1.8 page-3	Project Area Delineation sub chapter		
3	Sub Chapter 1.6, and 2.3 table 1.6.1 and 2.3.1 , page 2 and 5			
4	Table 2.3.1 , page 5	Check total area of Government managed forest land-in-(m)2		
5	Figure(all)	Submit color map in SD and ToR		
6	Sub chapter 6.3 Table 6.3.1 page,40	Please add to word no 6 socioeconomic data with Panauti Municipality  And give column towards indigenous, Khas Aarya and Dalit caste in project area in ethnic group composition of project area as per.		
7	ToR/ sub chapter 1.2	Constitutional provision and presented data should be numerical order.  The provision of cabinet meeting minute of land acquisition and  National priority project letter documents. ( documents attach in annexes)		
8	Section 2.10.6(7), page 14	Change into Project area delineation for classification of project area sub chapter		
9	Table 5.1.1, page,27	Please recheck the time frame table and fill in the gave		
10	Sub chapter ,6.2.2.1 , page 29	Add issues on livestock and local grazing land both in SD and ToR		
11	Declaration Form	Add to Colum for EIA experience as per EPR of experts		

CHEST VACOR



- Rajan Rishi Kadel Socio-economic expert

### राष्ट्रिय प्रहरी प्रतिष्ठानको वातावरणीय प्रभाव मूल्याङ्गको क्षेत्र निर्धारण र कार्यसूची

ओम्धरानन्द राजोपाध्याय

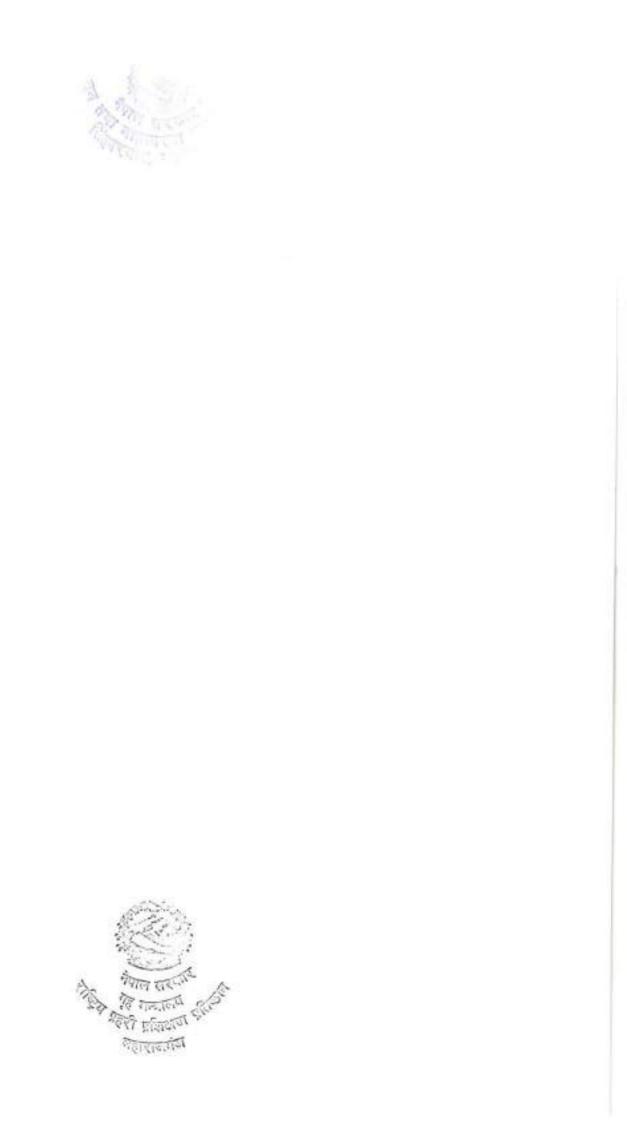
#### राय स्भाव

- १ भारत सरकारको सहयोगमा डिजाइन तथा निर्माण विधिको प्रयोग गरी निर्माण गरिने भएपछि योजनासम्बन्धी विस्तृत विवरण र यथार्थ परिमाणहरूको जानकारी उपलब्ध नहुँदै बातावरणीय अध्ययन प्रतिवेदन तथार गरी स्वीकृत गर्न सकिने नसकिने विषयमा सैद्धान्तिक स्पष्टता आवश्यकः।
- निर्माण हुने ५८ वटा प्रत्येक भवनको लागि र संमग्रमा भवनले चर्चिने क्षेत्रफल, निर्मित क्षेत्रफल, उचाइ, जग्गाको साँघबाट छोड्नुपर्ने दूरी सम्बन्धी विवरणहरू पनौती नगरपालिकाको भवन मामदण्ड बमोजिम तालिकाबद्ध गरी प्रस्तुत हुनुपर्ने ।
- योजनासम्बद्ध निम्न विवरणहरुबारे अध्ययन प्रतिवेदनमा विस्तृत विवरण समावेश गर्नुपर्ने :
  - क) पानीको आवश्यकता निर्माण र सञ्चालन चरणमा कति हुनै र कुन स्रोतबाट कति परिमाण उपलब्ध हुनै,
  - विर्माण वरणमा उत्खनन र निर्माण कार्यको साथै कामदारबाट उत्पादन हुने तथा सञ्चालन चरणमा सबै प्रयोगकर्ताहरुले उत्पादन गर्ने कुहिने र नकुहिने ठोस फोहर र फोहर पानीको परिमाण तथा त्यसको विसर्जन प्रणाली
  - ग) भूमिगत पानी प्रयोग हुने भए कित परिमाण उपलब्ध हुने, तत्सम्बन्धी स्वीकृति र पुनर्भरण
     गर्ने विधि र परिमाण
  - घ। वर्षात्को पानी सङ्गलन गर्ने योजना भए त्यसको क्षमता र प्रयोजन
- ह) निर्माण तथा सञ्चालन दुवै चरणमा बहुप्रकोपबाट सुरक्षा प्रणाली र योजना
- ४. जग्गा अधिग्रहणको विषय पनि परिच्छेद २.७.९ मा सूचीकृत भएकोले निजी वा गुठी जग्गा समेत पर्ने भए क्षतिपूर्तिसम्बन्धी विवरण
- पहुँच मार्ग तयाँ निर्माण गर्नु पर्ने वा स्तरोत्निति गरे पुग्ने हो, त्यसको प्रयोग अरु क्षेत्रलाई पनि जोड्ने गरी हुने भए ट्राफिक व्यवस्थापनको विषय पनि उल्लेख हुनुपर्ने
- ६. योजनाको प्रत्यक्ष प्रभाव क्षेत्रमा पर्ने घरधुरीहरुबाट आधारभूत सूचक तथा जानकारी सङ्गलन गर्ने कार्य क्षेत्र थप गर्नुपर्ने ।
- अ. सन्दर्भ सामग्रीको समीक्षामा नगर विकास ऐन, भवन ऐन, सम्बन्धित नियमावलीहरु र भवन मापवण्ड तथा भवन संहिताहरु समेत थप्नुपर्ने र असान्दर्भिक दस्तावेजहरुको समीक्षा हट्युचने ।

सम्भावित प्रभावहरुलाई एकमुष्ठ नमई विषयगत रुपमा समूहीकृत गर्ने ।

धन्यवाद





# APPENDIX 3: MEMORANDUM OF UNDERSTANDING BETWEEN GON AND GOI

#### Memorandum of Understanding

#### Between

#### THE GOVERNMENT OF THE REPUBLIC OF INDIA

#### and

#### THE GOVERNMENT OF NEPAL

#### Regarding the Establishment of the

### NATIONAL POLICE ACADEMY AT PANAUTI, KAVREPALANCHOWK

The Government of the Republic of India (hereinafter referred to as "GoI") and the Government of Nepal (hereinafter referred to as "GoN"), hereinafter jointly referred to as the "Parties":

bearing in mind the close and friendly relations between the two countries and their peoples;

recalling the need for the establishment of a new, modern and well-equipped National Police Academy at Panauti, Kavrepalanchowk for strengthening and assisting the Nepal Police;

Have reached the following understanding:

#### Article I

- 1.1 Gol will provide a grant assistance of Indian Currency Rs. 5,494.61 million (Five thousand four hundred ninety four point sixty one million Indian Rupees) (Approximately Nepalese Currency Rs. 8,791.38 million Nepalese Rupees) to GoN for the construction of National Police Academy (NPA) (hereinafter referred to as the "Project").
- 1.2 The Grant assistance received through GoI for the construction of NPA will be channelled through the Redbook and Treasury System of GoN?
- 1.3 GoN will secure about 25.45 hectors of land at Panauti, approximately 32 KMs south east of the capital Kathmandu on its own cost.
- 1.4 The project cost will be based on, and as specified in, the Detailed Project Report (hereinafter referred to as "DPR").
- 1.5 The Ministry of Home Affairs, GoN will be the Executing Agency and Nepal Police will be the implementing agency of this project on behalf of GoN.

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#### Article II

- 2.1 GoN will, in consultation with Ciot, appoint a Consultant (Indian/Nepalese or Joint Venture Indian/Nepalese firms) for the supervision of the Project, who will be responsible for the preparation of Detailed Project Report (hereinafter referred to as "DPR"), and supervision of construction work. He/She will work under the Project coordinator at Project Coordinating Unit (hereinafter referred as PCU).
- 2.2 GoN will appoint a Contractor (Indian/Nepalese or Joint Venture Indian/Nepalese firms) for the construction of the project in consultation with Gol.
- 2.3 GoN will create a PCU for the smooth implementation of project activities under the Nepal Police and appoint a Project Coordinator, Executive Director of the National Police Academy will be the ex-officio project coordinator who will be responsible for implementation of the project and will act as necessary liaison official between the Consultant/Contractor and GoN/other authorities to facilitate provision of necessary facilities by the authorities concern and various exemption to ensure successful and timely completion of the Project. PCU will be responsible for overall implementation of the project activities, and report periodically to the Joint Project Monitoring Committee (PMC).

#### Article III

- 3.1 A DPR will be prepared by the Consultant. The approval of Gol and GoN to the DPR will be obtained prior to implementation of the Project.
- 3.2 The Project will be completed in a phase wise manner over a period of four years. It is envisaged that:
  - 3.2.1 The first phase will comprise construction of water treatment plant, internal road, office complex, accommodation block, messes, classrooms, seminar hall/ syndicate rooms, MT room, quarter guard, parade ground, PT ground, transport section, deep tube well with overhead tank and supply system of water, drainage and sewerage, electrification, etc.
  - 3.2.2 The second phase will comprise construction of, shopping complex, sports complex, firing range, auditorium and horse training ground.
  - 3.2.3 The third phase will comprise construction of swimming pool, landscaping, parking areas, communication tower, helipad, boundary wall, and remaining works.
  - 3.2.4 The details will be finalized on the basis of the DPR.

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#### Article IV

- 4.1 GoI will arrange and make available all finances required for the successful implementation of the Project according to the following fund flow arrangement:
- 4.2 GoI will release 25 (twenty five) percent of the total project cost to GoN at the beginning of the Nepalese Fiscal Year (16th July 2015 to 15th July 2016). The remaining tendered cost will be paid by GoI to GoN on the basis of physical progress in three equal instalments each amounting to 25 (Twenty Five) Percent of the approved tendered cost or sanctioned cost of the project.
- 4.3 Joint Project Mourtoring Committee (IPMC) will release the fund on the basis of the physical progress achieved.
- 4.4 GoN will open an imprest account in the name of PCU at Nepal Rastra Bank in INR and GoI will provide its grants amount in this account.
- 4.5 The Imprest account will be operated jointly by the Project Coordinator and any PCU officials as authorised by MoF on the recommendation of MoHA.
- 4.6 The actual expenditures incurred and provided through GoN treasury will be reimbursed from the imprest account and further replenished by GoI on the imprest account.
- 4.7 All expenditures on procurement of project activities will be in accordance with the existing Public Procurement Act and Public Procurement Rules of Nepal for Indian/Nepalese/Joint Venture of Indian Nepalese contractors.
- 4.8 The internal audit of the project will be conducted as per GoN system.
- 4.9 The annual external audit of the project will be conducted by the office of the Auditor General (OAG/N) of Nepal.
- 4.10 A copy of the audited Annual Financial report, as otherwise specified by PCU or as per GoN annual reporting format, will be shared with GoI through PCU.

#### Article V

5.1 GoN will make available to the Consultant and the Contractor(s), the land required for the project, free of cost and face termall physical and legal encumbrances. GoN will be responsible for providing bulk electricity and water supply for the project. However, the cost of the electricity and water supply and other office costs, except office premises and salary of GoN staffs, will be borne by the project fund.

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5.2 GoN will be responsible for the resolution of administrative or legal encumbrances, if any, in the execution of the Project and for payment of compensation, if any, and settlement of claims or disputes arising in connection thereof.

#### Article VI

- 6.1 GoN will provide the following facilities to the Consultant and the Contractor(s):-
  - 6.1.1 Space for appropriate office/ residential accommodations for the personnel deployed by the Consultant at or near the site(s) of the Project execution. GoN will also facilitate acquisition of suitable space by the Contractor(s) at or near the site(s) of the Project execution for appropriate office/residential accommodations for their personnel and for their labour camps/construction yards.
  - 6.1.2 Necessary security to the personnel deployed by the Consultant and the Contractor(s) and their teams and at related Project sites to enable smooth implementation of the Project.
  - 6.1.3 Validation of the Indian Driving Licenses of expatriate drivers employed within Nepal by the Consultant and the Contractor(s) for the Project, and facilitation of the movement of the personnel deployed by the Consultant and the Contactor(s) and their teams in Nepal, in accordance with the rules and regulations of GoN.
  - 6.1.4 All administrative, environmental, legal, technical and other clearances, as necessary for the implementation of the Project, most expeditiously, without delay and without any financial implication for GoI, if a request for such clearance is made by the Consultant and the contractor(s).
  - 6.1.5 All reference documents related to GoN requirements will be made available to the Consultant and the Contractor(s) through the Project Coordinator.

#### Article VII

7.1 The recruitment of administrative, technical, and other personnel for the implementation of the Project will be confined to the nationals of either country. GoN will issue identity cards to such personnel and also arrange for their security during the implementation of the Project.

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#### Article VIII

- 8.1 In order to conduct joint review of the project activities, to monitor the implementation of the project, and to ensure the smooth operation of project, there will be formed a Joint Project Monitoring Committee (JPMC) as follows:-:
  - a) Secretary, Ministry of Home Affairs, GoN (Chairperson)
  - b) Joint Secretary, Ministry of External Affairs (MEA), Gol
  - c) Joint Secretary, Ministry of Home Affairs, GoN
  - d) Representative of Finance Division, MEA, Gol.
  - e) Representative of Ministry of Home Affairs, Gol.
  - f) Head of Wing (Economic Cooperation Wing), Embassy of India, Kathmandu.
  - g) First Secretary (Security) Embassy of India, Kathmandu
  - h) Representative of Ministry of Foreign Affairs (GoN)
  - Representative of Ministry of Finance, GoN
  - i) Representative of Nepal Police
- 8.2 Joint Secretary, Ministry of Home Affairs, GoN will be the Member-Secretary of the IPMC.
- 8.3 The Project Coordinator appointed by GoN will be invited as special invitee to all meetings of the JPMC and will be responsible to report progress of the project activities.
- 8.4 The JPMC may, should there be any specific requirement, co-opt any other person related with the Project for the purpose of consultation, and will report the progress of the Project to the two Governments periodically.
- 8.5 Meetings of the JPMC will be convened during the implementation of the Project, normally once every six months, or with such periodicity as deemed necessary by its Member-Secretary.
- 8.6 The Consultant will fully apprise the JPMC at each meeting about the progress in implementation of the Project.

#### Article IX

- 9.1 No funds provided by GoI will be used directly for tax payment.
- 9.2 GoN will provide a counterpart fund to make payment to the contractors and consultants for the payment of VAT against their invoice.

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- 9.3 GoN will provide exemption of Customs Duty and other fees except VAT payable to the customs office by the contractors and consultants to import construction materials, machinery and equipment on the basis of approved master list. For this purpose, contractors and consultants will submit list of materials to be imported to the NPA. NPA will facilitate the approval process from MoF through MoHA.
- 9.4 In the case of Indian Consultant/Contractor(s), GoN will not levy any taxes or duties of any kind of machinery, equipments and Vehicle payable to the customs offices when it is exported to India upon completion of the project. For this purpose, contractors and consultants will submit list of such machinery, equipments and Vehicle to be imported to NPA. NPA will facilitate to obtain approval process from MoF through MoHA. However, if machinery, equipments and Vehicle not exported to India and sold in Nepal, then all taxes or duties as applicable will be paid by the contractor/consultant or the buyer.
- 9.5 The income tax levied on the Indian contractor/consultants will be regulated as per the provisions of the Agreement for the Avoidance of Double Taxation and the Prevention of Fiscal Evasion with Respect to Taxes on Income concluded between GoN and GoI.
- 9.6 GoN will provide duty-free import facilities to Indian nationals engaged by the consultant or the contractor(s) for the project implementation. However, with regard to the import of vehicles for the personal use, such a vehicle should be exported from Nepal within a period of three months after relinquishment of charge by the beneficiary concerned. If such a vehicle is disposed off in Nepal, taxes and duties will be payable by the beneficiary as per the prevailing laws of Nepal.

#### Article X

10.1 The personnel of GoI and the Indian personnel deployed by the Consultant and the contractor(s) working on the project in Nepal will, at all times, respect the laws of Nepal. However, no suit, proceedings, except in the case of gross negligence or wilful misconduct, will be instituted against any such person for anything done or purported to be done in good faith, in the course of discharging their official duties for the successful and expeditious implementation of the project.

#### Article XI

11.1 After the completion of the Project and with the approval of the JPMC, the Consultant/Contractor will hand over the building and all other assets created under the Project to GoN, which will be responsible for the entire management of NPA. The JPMC will cease to exist after handing over of the completed Project to GoN.

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#### Article XII

- 12.1 To the extent possible, the existing available vehicles, equipments etc. utilized for training purposes will be transferred to the NPA by GoN.
- 12.2 Both Parties will undertake a detailed needs assessment for the smooth functioning of the NPA. GoI will depute personnel for imparting training etc., at its cost, to the extent possible, if it is so requested by GoN.
- 12.3 The NPA will have a technical adviser, to which GoI will depute an officer at its cost, for a mutually agreed tenure(s).
- 12.4 GoN will provide adequate number of qualified officers and staff to manage the NPA. GoN will further provide regular operational and budgetary support for the smooth functioning of the NPA.

#### Article XIII

13.1 Any difference regarding the interpretation and implementation or application of any provision of this Memorandum of Understanding will be resolved through mutual consultations or negotiations between the Parties and will be recorded through the letter of exchange.

#### Article XIV

14.1 This Memorandum of Understanding will enter into force from the date of its signing and will remain in force until the completion and handing over of the Project to GoN.

#### Article XV

- 15.1 This Memorandum of Understanding may be extended, amended or modified at any time by mutual written consent of the Parties through exchange of Notes.
- 15.2 In WITNESS WHEREOF the undersigned being duly authorized thereto by their respective Governments, have signed this Memorandum of Understanding.

Signed at Kathmandu on this 25th day of November 2014 in the two originals in English Language.

On behalf of the Government of the Republic of India On behalf of the Government of Nepal

(Sneh Lata Kumar) Secretary (Border Management) Ministry of Home Affairs

Government of India

Finance Secretary Ministry of Finance Government of Nepal

(Suman Prasad Sharma)

# **APPENDIX 4:** CABINET DECISION FOR NPA CONSTRUCTION

श्री सचिव, प्रधानमन्त्री तथा मन्त्रिपरिषद्को कार्यालय ।

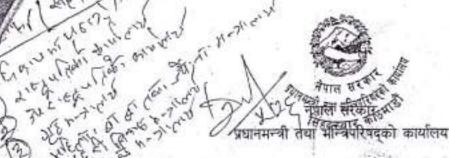
सम्माननीय राष्ट्रपति तथा सम्माननीय उपराष्ट्रपतिको कार्यालय तथा आवास व्यवस्था विषयको प्रधानमन्त्री तथा मन्त्रिपरिषद्को कार्यालयको नं. १/३९-०७४/४/२१ को प्रस्ताव मं.प.चै.सं. ३९/०७४ मिति २०७४/४/२१ को मन्त्रिपरिषद्को बैठकमा प्रेश हुँदाक्त्यसमा नेपाल सरकार, मन्त्रिपरिषद्के देहायबमोजिम निर्णय गरेकाले सोबमोजिम कार्यान्वयन हुन नेपाल सरकार (कार्यसम्पादन) नियमावली, २०६४ को नियम २९ बमोजिम अनुरोध गरेकोछ –

### नेपाल सरकारको निर्णय --

"चालु आ.व. को लागि सम्बन्धित मन्त्रालय/निकाय लाई विनियोजित बजेटको मिल्दो शीर्षकवाट खर्च व्यवस्थापन गर्ने र नपुग भएमा अर्थ मन्त्रालयबाट निकासा माग गर्ने गरी अरू प्रस्तावमा लेखिएवमोजिम गर्ने ।"

(लोकदर्शन रेग्मी)

मुख्यसचित्र २०७४/४/२१



विषयः सम्माननीय राष्ट्रपति तथा सम्माननीय उपराष्ट्रपतिको कार्यालय त्तया आवास व्यवस्था सम्बन्धमा। प्रस्ताव पेश गर्न सम्माननीय प्रधानमन्त्रीबाट स्वीकृति प्राप्तः मितिः २०७५/०५/२१

#### १. विषयको संक्षिप्त व्यहोराः

प्रधानमन्त्री तथा मन्त्रिपरिषद्को कार्यालयका सचित्र और केदार बहादुर अधिकारीको संयोजकत्वमा राष्ट्रपतिको कार्यालय, गृह मन्त्रालय र सहरी विकास मन्त्रालयका सचिवहरु सदस्य तथा सहरी विकास तथा भवन निर्माण विभागका महानिर्देशक सदस्य सचित्र रहेको अध्ययन टोलीले पेश गरेको संलग्न सम्माननीय राष्ट्रपति तथा सम्माननीय उपराष्ट्रपतिको कार्यालय तथा आवास व्यवस्था सम्बन्धी अध्ययन प्रतिवेदन, २०७५ यस कार्यालयमा पेश हुन आएको ।

- २. प्राप्त परामर्श तथा अन्य प्रासंगिक कुराः
- प्रस्ताव पेश गर्नु पर्नाको कारण र प्रधानमन्त्री तथा मन्त्रिपरिषद्को कार्यालयको सिफारिसः

सम्माननीय राष्ट्रपतिज्यूको कार्यालयको लागि परिसर तेषुँग भएको तथा सम्माननीय उपराष्ट्रपतिज्यूको कार्यालय र निवासको स्थायी व्यवस्थापन हुन नुसकेकोमा माथि प्रकरण १ मा उल्लिखित समितिको प्रतिवेदन समेतका आधारमा सम्माननीय राष्ट्रपति तथा सम्माननीय उपराष्ट्रपतिको कार्यालय तथा आवास व्यवस्था लगायतका विषयमा नेपाल सरकार सिन्नपरिपद्मा प्रस्ताव पेश गर्न सम्माननीय प्रधानमन्त्रीज्यूबाट २०७५।०५।२१ मा स्वीकृति प्राप्त भएकोले नेपाल सरकार (कार्यसम्पादन) नियमावली, २०६४ को अनुसूची १ को विषयसंख्या प्रधानमन्त्रीजम यो प्रस्ताव पेश गरिएको छ ।

#### ४. निर्णय हुनुपर्ने व्यहोराः

सम्माननीय राष्ट्रपति तथा सम्माननीय उपराष्ट्रपतिको कार्यालय तथा आबास व्यवस्थाको सम्बन्धमा देहाय बमोजिम गर्ने:-

राष्ट्रपतिको कार्यालय परिसरमा थप पुत्रीधार विकास गरी सुविधा सम्पन्न बनाउन महाराजगंजस्थित राष्ट्रिय प्रहरी प्रशिक्षण प्रतिष्ठान (तालीम केन्द्र) को पूरै जनगा (११४-३-१०-० रोपनी) राष्ट्रपति कार्यालयको नाममा हस्तान्तरण गर्ने ।

(२) उपर्युक्त बमोजिमको विस्तारित जन्मामा राष्ट्रपति कार्यालयको लागि आवश्यक येप पूर्वाधार सहरी विकास मन्त्रालयले निर्माण गर्ने । यसके लागि आवश्यक पर्ने बजेट अर्थ मन्त्रालयले उपलब्ध गराउने ।

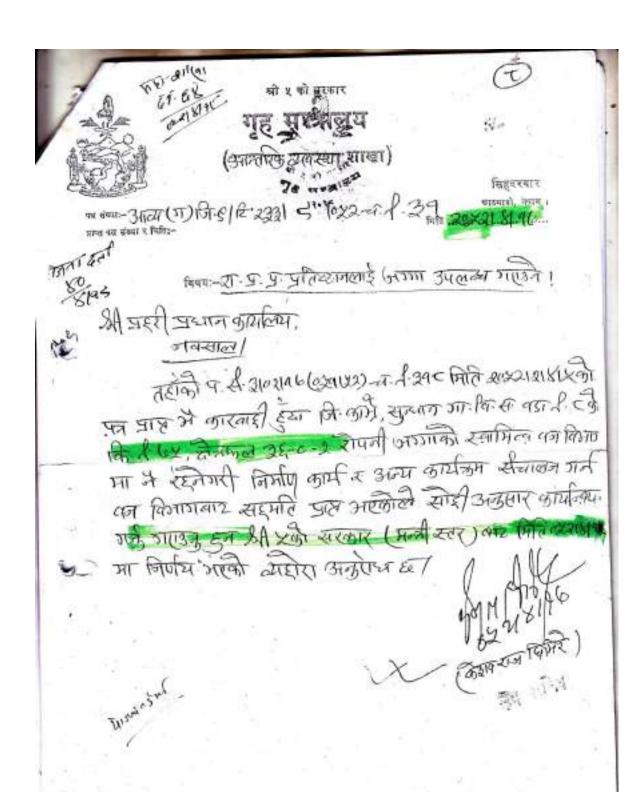


- (३) सो ठाउँमा रहेको राष्ट्रिय प्रहरी प्रशिक्षण प्रतिष्ठानलाई प्रतिष्ठानकै नाममा पनौतीमा रहेको जग्गामा सार्ने व्यवस्था गर्ने ।
- (४) सीही ठाउँमा रहेको नेपाल प्रहरीको केनाइन शाखालाई अन्य कुनै उपयुक्त ठाउँमा साने।
  - (५) राष्ट्रिय प्रहरी प्रशिक्षण प्रविष्ठानको योजना अनुसार निर्माण हुन समय लाग्ने भएकोले व्यवस्थापनका लागि आवश्यक रकम अर्थ मन्त्रालयले गृह मन्त्रालयलाई उपलब्ध गराउने।
- भिद्या नेपाल सरकार, मन्त्रिपरिषद्को निर्णय भएको मितिले १८ महिनाभित्र राष्ट्रिय प्रहरी प्रशिक्षण प्रतिष्ठानको अस्थायी व्यवस्थापन गरी सो प्रतिष्ठानलाई पनौतीमा सारिसक्ने व्यवस्था गर्ने ।
  - (७) लैनचौरस्थित समाज कल्याण परिषद् रहेको सम्पूर्ण कार्यालय भवन र जग्गा उपराष्ट्रपतिको कार्यालयको नाममा हस्तान्तरण गर्ने र त्यसमा सम्माननीय उपराष्ट्रपतिज्यूको कार्यालय र निवासको व्यवस्था गर्नका लागि आवश्यक पूर्वे रकम अर्थ मन्त्रालयसे शहरी विकास मन्त्रालयलाई उपलब्ध गराउने ।
  - (म) समाज कल्याण परिषद्को कार्यालय संवालनका लागि अन्यत्र आफ्नै भवन भएमा समाज कल्याण परिषद्को कार्यालयलाई व्यसमा सार्गे, त्यस्तो आफ्नै भवन नभएमा अन्यत्र कुनै सरकारी कार्यालयको भवन उपलब्ध हुनसक्ते भएमा सहरी विकास मन्त्रालय र महिला, वालवालिका तथा ज्येष्ठ नागरिक मन्त्रालयले त्यस्तो भवनमा सार्ने व्यवस्था मिलाउने र त्यस्तो सरकारी भवन उपलब्ध हुन नसकेमा भाडाको भवनमा कार्यालय सार्ने व्यवस्था मिलाउने । यसरी भवन भाडामा लिई कार्यालय संवालन गर्नु पर्ने भएमा अर्थ मन्त्रालयले भाडाको रकम निकासा दिने ।

मितिः २०७५/०५/२१

(रेशिमराज पाण्डे) सचिव

# **APPENDIX 5:** DOCUMENTS RELATED WITH FOREST AREA USE FOR NPA



# श्री देवीस्थान (ख) सामुद्धारिक वन उपभोक्ता समुह





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विषय:-सहमाते सम्बन्धामा /

न्दिराबिट्ट्य प्रहरी प्रावीवण प्रलिष्ठल ; आर्थिक प्रवासन कारण अहाराकान ।

उपरोक्त विद्यामा ताहा कार्यालायको पत्न २०६६।०४।२० व्यह्मेरा भ्रावात अई यस देविस्थाम रेथ सामुद्यायेक वम्उपने सामिते की मिति २०६६।०४।०३ की व्यक्त ष्ण्य यस समुद्धी प्रक्षेत्र। त्रीद आएको साविक सुन्धाम ६'२व' कि-मे १९६ की व्यव ६ क्रिमफल ६०-१३-०-२ ध्रामिन प्रतिक्षत वर्षि प्रयोग गर्मे. समुदाय व्याट सहमाति प्रकान त्रमें मिर्णय भरको व्यह्मेराजा समित आर्मेश्री त्राविक्ट ।

> नारामण कारजेर अध्यक्त देखेरणात के व⊕ दे जिली



प.सं.: ००६:०७० च.मं. : ४९५

### पनौती नगुरपालिका

Panauti Municipality हि **जं. वहा कार्यालय** 6 No. Werd Office

कार्धपलाञ्चोक Kavrepalanchok ३ नं. प्रदेश नेपाल । 3 No. Province, Nepal

भिति : ...२००६/०४/०६-

विषय । सहमती पत्र दिएको सम्बन्धमा ।

औ राष्ट्रिय प्रहरी प्रतिक्षण प्रतिष्टान, आर्थिक प्रशासन सारण महाराजगंज, काठमाडी।

प्रस्तुत विषयमा ताहाँ साँद्धिय प्रहरी प्रशिक्षण प्रतिष्ठान महाराजगंजको प. सं. 006/000 मिति २०७६ ०४ २१ को प्रमानुसार व्यहारा अक्रमत वर्ष साधिक सुन्धान ७(स्व) को कि. नं. ११६ सुन्धान र को कि. नं. १२२ १३१ ११८ को को फ 90-१३-०-२, २४-१३-३-०, २८-०-१-०, २-१४-३-२ का जग्मा तालिम प्रयोजनका लागि मुख्योजना भित्र समेटी भोगप्रिकारका लागि मान भएकाले कि. नं. ११६ को देविक्थान (स्व) सामुद्धियक यनको अण्ड ६ जमिन उपभोक्ता समितिको मिति २०७६ ०४ ०३ मा बसेको केठक बाट जन्मा भीन गर्न सहस्रति दिने निर्माय भवं उन्नतेखन जम्मा आवश्यक अवश्यामा पूर्वीधार निर्माण र प्रयोग गर्न सहस्रती प्रदान गर्ने भिति २०७६ ०४ ०४ मा वहा समिति बाट समेत निर्मय भएको व्यक्तेश अनुरोध गरिन्छ ।

बोधार्थ - प्र. म. मि. श्री प्रदिप कुमार चापा उल्लेखिन पत्र मिर्ह जान ।

Special OLES IX IES

Ward Office Phone:

Fax No.: 011-440137



### पनौती नगरपालिका

#### Panauti Municipality नगर कार्यपालिकाको कार्यालय Office of the Municipal Executive

20 g



भी सन्दिय प्रहरी प्रशिक्षण प्रतिष्टान आर्थिक प्रशासन सस्या, महाराजनञ्ज, काठमण्डी ।

विषय । सहमती पत्र सम्बन्धमा ।

प्रस्तुत विषयमा तहाँ प्रतिष्ठानको य.सं. ०७६/७७ च.सं. १८१ मिति ०७६।०६।२३ प्राप्त प्रापानुसार प्रतिष्ठानको साम बमोजिम सगर कार्यपालिकाको मिति ०७६।०५।२३ को निर्णपानुसार सो सम्बन्धगः भएको बेहाल बमोजिको निर्णय आवश्यक जानकारीको लागि अनुरोध गरिन्छ ।

'राष्ट्रिय प्रहरी प्रक्रिक्षण प्रतिष्ठान, काठमाण्डीको च.न. १११ मिनि ०/0६/१०५/३२ को प्राप्त पत्रानुताः प्रतिष्ठानको नाम आयहस्यकताका आधारमा यत्त नगरपानिका क्षेत्रीमत्रका विस्न किता उपमाहरू प्रतिष्ठानको सर्वनाधारणलाई यप सहज हुने गरी भीग चलन गर्न पडने गरी सहमती प्रवान गरि दिन संघीय मिनल तथा तामान्य प्रशासन मन्त्रालय मार्फन बन तथा वातावरण मन्त्रालयस्य अनुरोध वर्ते' ।

लि.न.	<b>टे</b> माना	DEM	क्षेण	केरिकयत
	वाविक सुन्धान ७ (स)	tta	00-13-0-2	
2	साविक सुन्यान ट	193	28-43-3-0	
3	साविक॰सुन्यान ट	fat	22-00-1-0	
٧	सायिक सुन्धान र	MEL	05-48-3-5	1 .
				100

जम्मा १२६-१०-०-०

Phone 011-440138, 011-440136 Website: www.panautimun.gov.np Fax No.: 011-440137

# **APPENDIX 6:** CADASTRAL MAP OF PROJECT SITE

नेपात सरकार

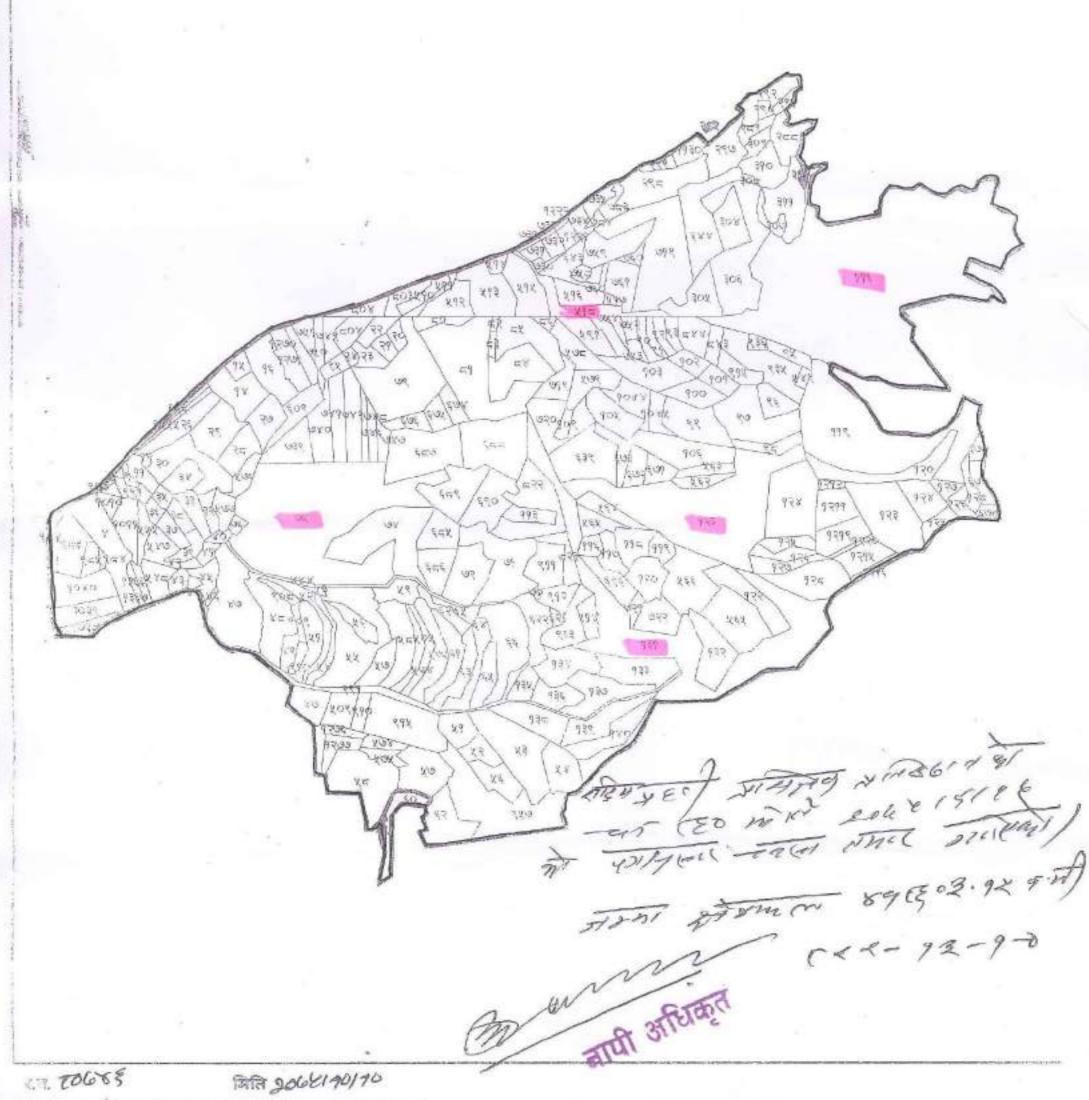
कृषि,शुन्नि व्यवस्था तथा सहकारी मन्त्राजय नापी विभाग

नापी कार्यालय काभ्रेपलानचौक गा.बि.स./न.पा. र्नु-अली

जिल्ला-काञ्चेपलान्चोक् 1- 966- 928

नक्सा प्रिन्टको सट्टामा उपलब्ध गराएको

वडा नं,-६/५,६८१ माननाप- १:५५००



নিরি 2062190/10

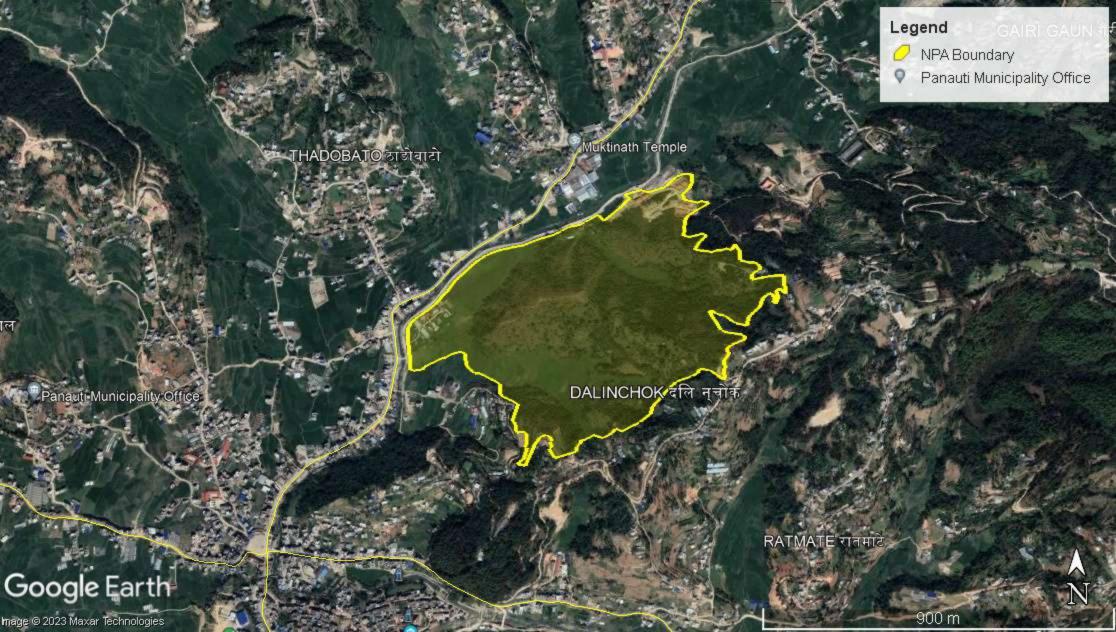
अरुपा र जिनेन तहाँकाटनै एकिन नर्नहुन समेत अनुरोध छ।

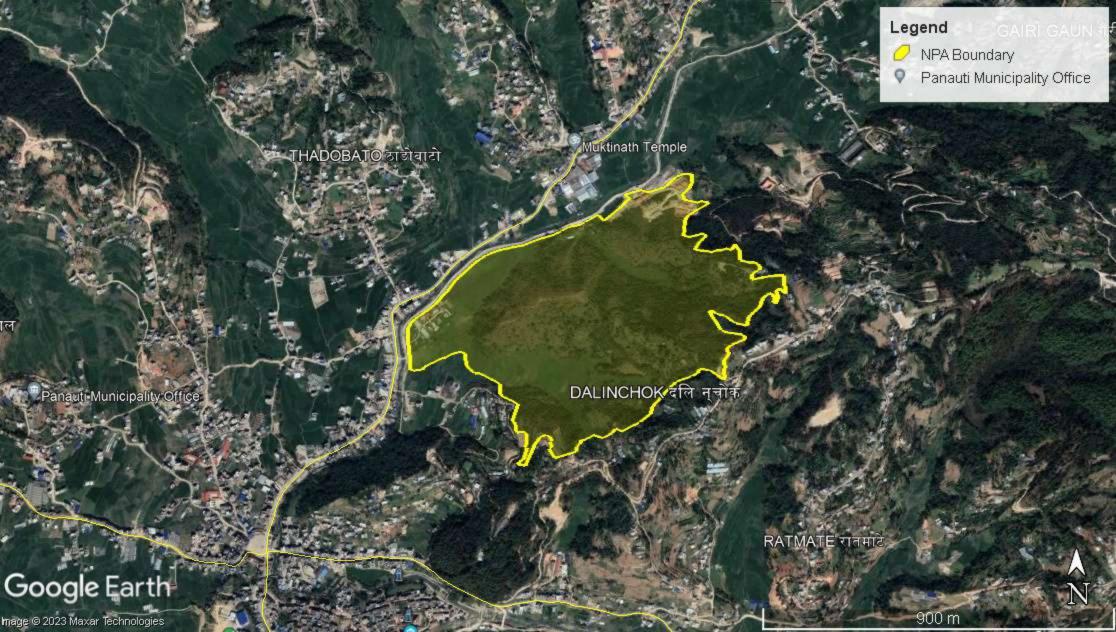
पुरालक हो जनका जिले अक्साबाट डिजिटाईज गरिएको हुदाँ बुटी अंटीएमा प्रभाजको आधारमा सुधार गर्न सकिने छ।

तयार गर्ने

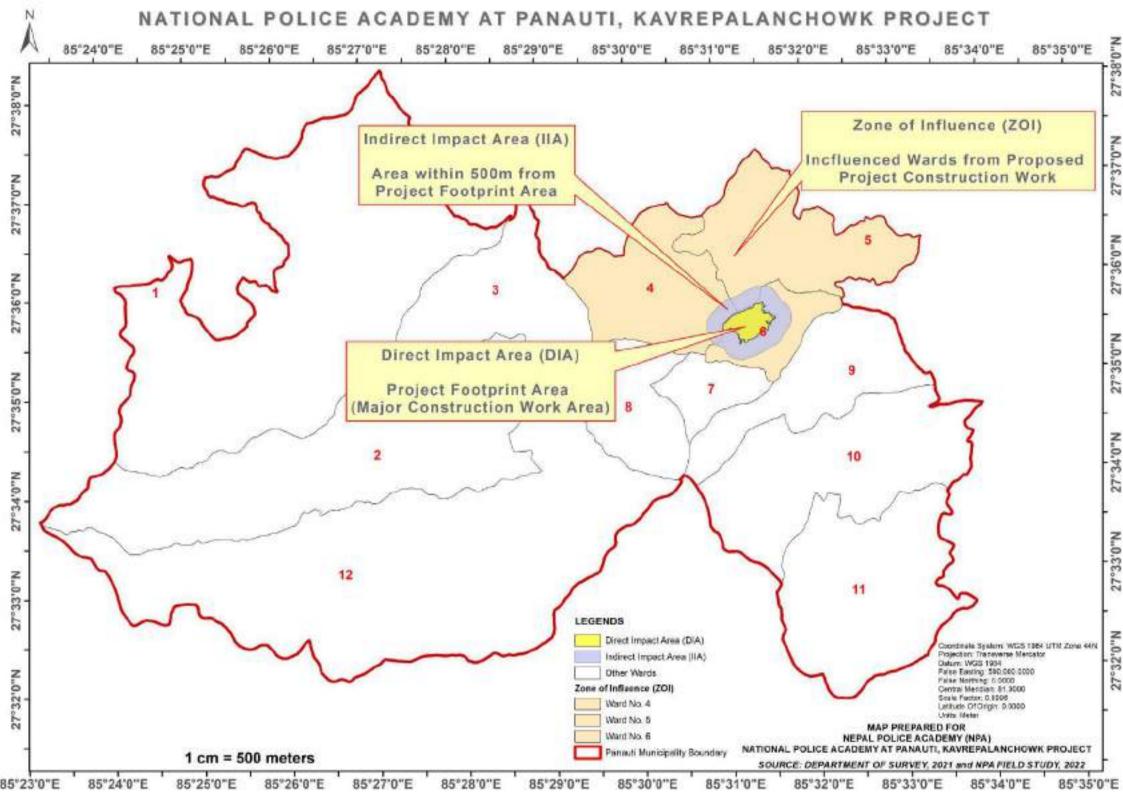
प्रमाणित गर्ने

# **APPENDIX 7:** GOOGLE MAP OF PROJECT SITE

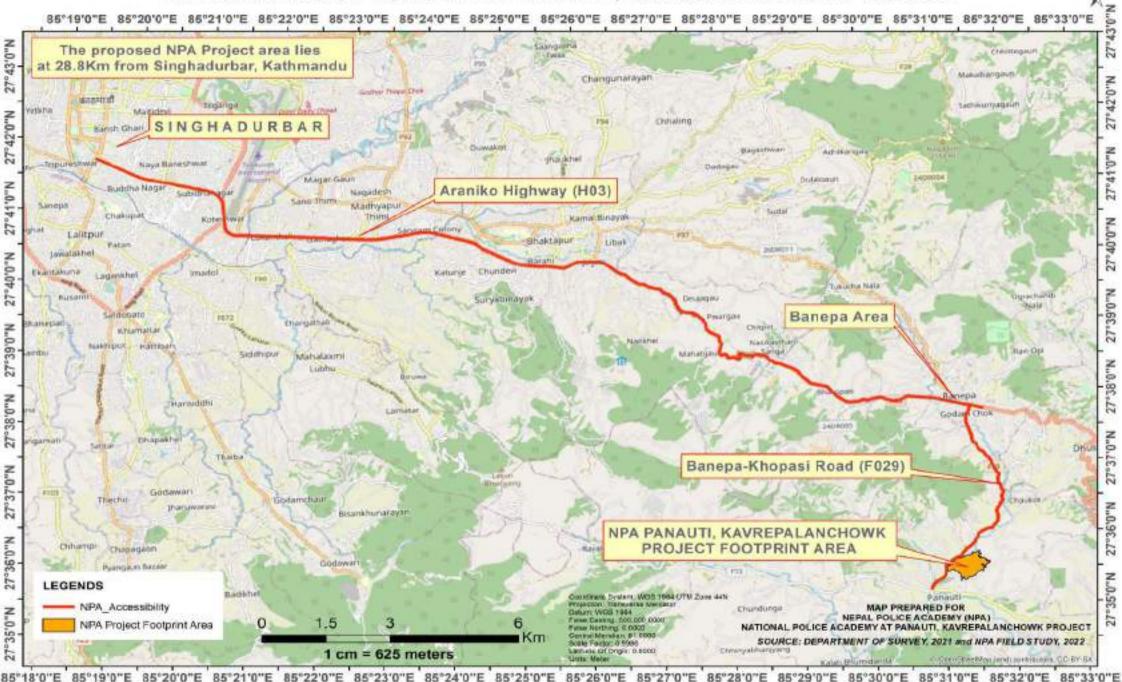




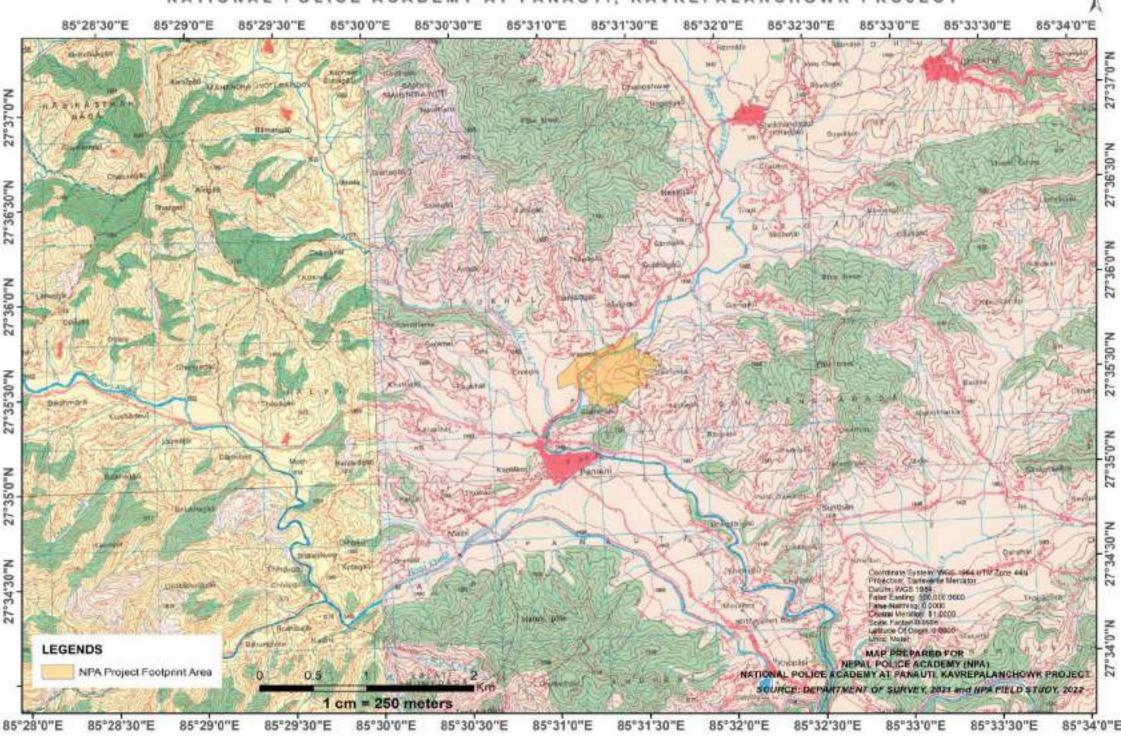
# **APPENDIX 8:** PROJECT SITE MAPS/ SITE PLAN MAPS OF PROJECT



#### NATIONAL POLICE ACADEMY AT PANAUTI, KAVREPALANCHOWK PROJECT



#### NATIONAL POLICE ACADEMY AT PANAUTI, KAVREPALANCHOWK PROJECT

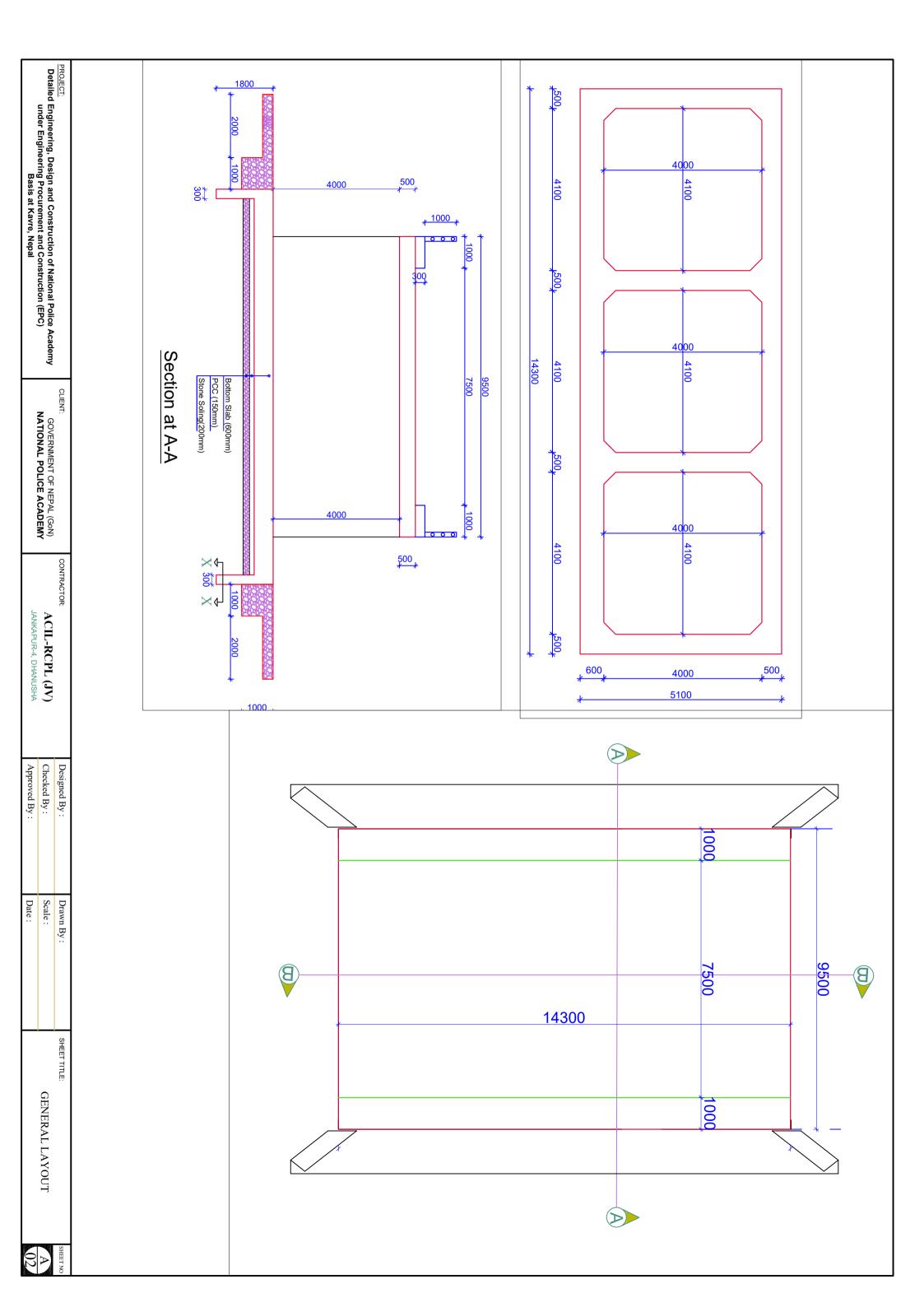


# **APPENDIX 9:** DESIGN OF BOX-CULVERT BRIDGE OF PUNYAMATA KHOLA

PROJECT:

Detailed Engineering, Design and Construction of National Police Academy under Engineering Procurement and Construction (EPC)

Basis at Kavre, Nepal DISTANCE (m) EXISTING LEVEL (m) CHAINAGE-0+090.00 DISTANCE (m) 1448 -1449 -1444 1445 1446 1447 -20.45 1448.944 1448.641 19.06 18.62 1448.542 1448.561 18.23 17.77 1448.569 1448.640 15.75 CLIENT: 14.17 1448.662 GOVERNMENT OF NEPAL (GoN)
NATIONAL POLICE ACADEMY 1448.412 10.45 9.49 1448.393 8.89 1448.307 CONTRACTOR: 1448.309 7.58 1447.805 JANKAPUR-4, DHANUSHA ACIL-RCPL (JV) 5.42 1445.789 5.03 1445.670 Section at B-B 4.03 1445.570 2.22 1445.501 Designed By : Checked By : Approved By 0.00 1445.379 1.30 1445.349 1087 1.93 3.21 1445.696 Scale: 3.55 1445.793 Drawn By: 3.92 1446.689 1448.100 6.25 1448.000 6.99 SHEET TITLE: GENERAL ARRANGEMENT 1447.848 10.95 12.21 13.65 14.19 1447.676 14.55 1447.658 15.20 1447.443 1447 1448



# APPENDIX 10: POLICIES, ACTS, RULES, MANUALS AND GUIDELINES, INTERNATIONAL CONVENTIONS AND BYE-LAWS

### A. Constitution of Nepal

Part 4, Article 50 (4) states that the State shall direct its international relations towards enhancing the dignity of the nation in the world community by maintaining international relations on the basis of sovereign equality, while safeguarding freedom, sovereignty, territorial integrity and independence and national interest of Nepal. Similarly, Part 4 Article 51 (a) on Policies relating to National Unity and National Security (5) states that to make all security organs, including the Nepal Police, competent, strong, professional, inclusive and accountable to people, on the basis of national security Policies.

It has ensured the provision of environmental protection and right to live in clean environment. Part 3, Article 30 (1) of the constitution asserts that 'every citizen shall have the right to live in clean environment' as a fundamental right for the people while the Article 51 (f-2) of the constitution in its Development policy gives priority for under-developed regions for balanced, environment-friendly, qualitative and sustainable physical infrastructure development. Likewise, Article 51 (g-5) of the constitution maintains that in the conservation, management and use of natural resources policy, negative impacts of industrialization and physical development should be minimized for environmental cleanliness and protection.

### B. Plan, Policies and Strategies

### 1. National Adaptation Plan (NAP) 2078-2107 BS

Owing to a diverse topography, complex geology and highly varying climate, Nepal is exposed to many natural and human-induced hazards that are impacted by climate change. The hilly areas of Nepal are prone to landslides. The middle-mountains and Terai are affected by forest fires, and the higher mountains by landslides.

### 2. Forest Area Strategy (2073-2082 BS)

The Forestry Sector Strategy (FSS) provides a guidance for the long-term development of forestry sector of the country.

The FSS has identified eight pillars:

- 1. Sustainably managed resources and ecosystem services
- 2. Conducive policy process and operational environment
- 3. Responsive and transparent organizations and partnerships
- 4. Improved governance and effective service delivery
- 5. Security of resource use by the community
- 6. Private sector engagement and economic development
- 7. Gender equality, social inclusion and poverty reduction
- 8. Climate change mitigation and resilience

### 3. Fifth Plan (Fiscal Year 2076/77-2080/81) BS

The National Planning Commission has prepared a plan for the year 2076/77 and 2080/81. This emphasizes on the reliable environment of peace, order, and security is a prerequisite for good governance and development. Developing the legal and institutional capacity and interrelationship between the three levels of government in maintaining law, order, and security effectively, assessing and managing the sources of conflict promptly, including security challenges in all sectoral issues in order to address security challenges and modernizing and commercializing security forces to cope with the changing nature and forms of security challenges, making all the security agencies including Nepal Police in inclusive and accountable to the people and providing necessary training, coaching, and security equipment in the required quantity to the working

personnel, keeping their morale high by providing appropriate opportunities for career development in a balanced and equitable manner.

### 4. National Climate Change Policy, 2076 BS

Objectives: (c): To promote green economy by adopting the concept of low carbon emission development.

- (F) To mainstream or internalize the issues of climate change in all levels and thematic sector policies, strategies, plans and programs of the state.
- 8.2 Forest, Biodiversity and Watershed Conservation
- (D) An action plan will be formulated and implemented to protect rare and endangered wildlife and flora as well as sensitive ecosystems at risk of climate change.
- (I) the economic benefits from carbon reserves will be equitably distributed through REDD+ and Clean Development Mechanism.
- 8.5 Industry, transport and physical infrastructure
- (D) While designing and constructing physical infrastructures, climate risk mitigation measures will be followed.

### 5. National Environment Policy, 2076 BS

Goal: To ensure the right of citizens to live in a clean and healthy environment by controlling pollution, waste management and promoting greenery.

Objectives

- (1) To prevent, control and reduce all kinds of pollution, including water, air, and soil, and sound, electromagnetic waves, chemical and radioactive.
- 8.2 Atmospheric mainstreaming

Prior to the implementation of the proposal based on the extent, magnitude and duration of the environmental impact, the approval process will be made transparent and simplified by the Proponent.

Arrangements will be made to operate the Project by selecting suitable alternatives so as to strike a balance between environment and development

Arrangement will be made to allocate the required amount while preparing the environmental study report by the Proponent for minimizing the adverse effects arising from environmental impact and increasing the adaptive impact.

8.5 Sustainable development

Environment friendly structure will be constructed while constructing physical infrastructure.

### 6. National Forest Policy, 2076 BS

Objectives:

- (4) To conserve, rehabilitate and sustain the forest, flora, fauna and biodiversity.
- 8.1 Land Ownership of Forest

Strategies and Programs: If there is no alternative to using forests to run Project of national priority or national pride, the association will make arrangements to use forest area on the basis of laws, guidelines and procedures.

- 8.4 Biodiversity Conservation
- (1) Ecological conservation and management of rare, endangered and protected wildlife and flora will be done.

### 7. Land Use Policy, 2075 BS

Long-term vision: To achieve sustainable social, economic and environmental development and prosperity by making optimal use of available land and land resources.

- 2.3 (c): To maintain balance between physical infrastructure development and environment
- 2.3 (g): To ensure the protection and promotion of biodiversity
- 7.2 In case of the use of forest land for implementation of national priority Project, provision will be made to plant trees in such a way that it does not decrease in the forest area.
- 10.2 In order to maintain balance between land, environment and development, the principles of sustainable development will be adopted taking into account the impact of climate change while conducting development works.

### 8. National Urban Development Strategy, 2074 BS

The NUDS in expected to: 1) enhance the national urban policy vision and facilitate periodic review and appropriate changes; 2) provide strategic directions for the Ministry of Urban Development; 3) define the scope of urbanization and urban development and to that extent, indicate the areas that logically come under the ambit of the Ministry; 4) inform and facilitate sectoral activities of other agencies of the government, etc.

The NUDS undertakes the following objectives: 1) develop and elaborate the medium/long term strategic vision of a desirable national/sub-national urban system based on existing trends and resource potentialities; 2) establish benchmarks and standards for urban infrastructure, urban environment, urban planning and management; 3) identify key issues and prioritized initiatives and investment Projects, etc.

### 9. National Employment Policy, 2071 BS for Construction Sector

Emphasis will be given to create more employment opportunities by making maximum use of local skills and resources while construction Project.

### 10. Public Infrastructure Construction and Operation Policy 2057 BS

This policy states that the land required by the Government of Nepal can be acquired and given to the investors on the basis of prevailing laws and regulations but the value of the land acquired in this way should be borne by the investors.

### C. Acts

### 1. Environment Protection Act, 2076 BS

Section 3: To prepare environmental study report

- 1. The Proponent will have to prepare the environmental study report as prescribed.
- 5. A public hearing will have to be held while preparing the environmental study report.

Section 4: Detailed analysis of alternatives

- 1. In the Environmental Study Report, the Proponent should make a detailed analysis of the adverse effects on the environment and the various options that can be adopted to reduce such adverse effects while implementing such a proposal.
- 2. While preparing the environmental study report, the Proponent shall also mention the short, medium and long term adverse effects on the environment while implementing the Project and the methods and procedures to be followed for its mitigation.

Section 8: The proposal should not be implemented

No one should implement or make any proposal without approving the environmental study report. Section 12: To conduct environmental audit after the commencement of the service

The proposal requires the Ministry of Forest and Environment or a designated body to conduct an environmental audit and keep the environmental audit up to date within six months after the completion of 2 years from the date of commencement of its service.

Section 13: Withholding

Anyone who does not approve the Environmental Study Report or executes the Project in a manner contrary to the approved Environmental Study Report may give stay order for such Project.

### 2. Forest Act, 2076 BS

Section 3: Land Ownership of National Forests

Section 5: Provision for acquisition of land

Section 7: Regarding non-registration of land

Section 12: Not to be settled or rehabilitated within the forest area

Section 41: Arrangements related to land use change in forest area and use of forest area

### 3. Land Use Act, 2076 BS

The Government of Nepal may change the existing land use in the places where the Project of national pride or priority development Project, industrial zones, special economic zones, etc. shall be established for achieving sustainable development goals. It is expedient; to divert inactive capital and burden of population from the land to the other sectors of economy in order to accelerate the pace of economic development of the country; to bring about improvement in the standards of living of the actual peasants dependent on the land by making equitable distribution of the cultivable land and by making easily accessible the necessary know-how and resources on agriculture and to keep up convenience and economic interests of the general public by providing encouragement to make maximum increase in agricultural production.

### 4. Building Act, 2075 BS

The Building Act 2075 was enacted to make necessary provisions for the regulation of building construction works in order to protect building against earthquake, fire and other natural calamities. Section-3 of the act lays the ground for Formation of Building Construction Management Upgrading (Consolidation) Committee under the chairmanship of Secretary of MoPIT. The committee consists of nine members. Section-4 enlists the powers, duties and responsibilities of the committee, and they include: to regulate building construction works in order to minimize the possible loss to buildings from earthquake, fire and other natural calamities; to inquire into whether approval of designs has been made in consonance with the standards set forth in the building code; to make recommendation to the Nepal Quality Assurance Council to determine the quality of native or foreign materials related with building construction. Section 8 classifies the building and a building with plinth area of more than one thousand square feet, with more than three floors including the ground floor or with structural span of more than 4.5 meters is classified to be the building of Category "B". Section 10 of the act makes it obligatory to construct the building by following the Building Code. Section 11 has the provisions relating to Design and Approval of design/map of building while Section 12 Prohibits on approving Design/Map contrary to standards. Section 13 of the act has the provision about the supervision of the building construction whereas section 14 has the provision of punishment against the perpetrators and the punishment includes the stoppage of construction works and even the demolition of part or whole of the building.

This Act was enacted to make necessary provisions for the regulation of building construction works in order to protect building against earthquake, fire and other natural calamities, to the extent possible. Any person, body or government body shall, in making a building, build it in consonance with the standards set forth in the building code. A person, body or government body who desires to build a building of Category "A", "B" or "C" as set forth in Section 8 within the municipal area shall, in making an application to the municipality for approval in accordance with the prevailing law to build the building, attach the map and design with the application.

The concerned Ministry has right to supervise the construction of building within municipality and rural municipality.

### 5. The Foreign Investment and Technology Transfer Act, 2075 BS

It is expedient to amend and consolidate the prevailing Nepalese laws relating to foreign investment and technology transfer in order to make national economy competitive, strong and employment-oriented through mobilization to the maximum extent of the available means and resources for economic prosperity of the country, and to achieve sustainable economic growth through industrialization while creating investment friendly environment to attract foreign capital, technology and investment in the sectors of import substitution, export promotion, through increase in productivity, and of infrastructure development and production of goods or services.

### 6. Public Health Services Act, 2075 BS

Section 40 Provisions related to noise and air pollution

Section 41 Sanitation and waste management

Section 44 concerning the occupational protection of workers working in high-risk areas

### 7. Children's Act, 2075 BS

In order to maintain the best interests of the children by respecting, protecting, promoting and fulfilling the rights of the children, it is necessary to amend and consolidate the existing laws related to children.

### 8. Right to Employment Act, 2075 BS

This act is made to ensure the right of employment to every citizen, provide employment opportunities according to one's ability and make necessary arrangements regarding employment conditions, conditions and unemployment assistance. No one shall be discriminated on the grounds of origin, religion, caste, creed, sex, language, region, ideological belief or any other such person unless the prevailing law makes special provision for a particular class or community.

### 9. The National Civil (Code) Act, 2074 BS

It is expedient to make timely the civil provisions contained in the Country Code and other laws, by also amending and consolidating such provisions, in order to maintain morality, decency, etiquette and convenience as well as economic interest of the public by maintaining law and order in the country and maintain harmonious relationship between various castes, races and communities, by making just provisions in the economic, social and cultural fields. Rule 18 for not to discriminate, Rule 26 on filing of complaint as grievance, Rule 251 on deemed to be property, Rule 260 on management, protection and maintenance of joint property, Rule 274 on the issues related to compensation for the losses, Rule 308 on the power to transfer government property.

### 10. Human Rights of Persons with Disabilities Act, 2074 BS

To end discrimination against persons with disabilities and to respect their civil, political, economic, social and cultural rights and to empower persons with disabilities to participate in the policy making and development process and to ensure a self-reliant and dignified living environment. Since integration is desirable,

The Legislature-Parliament has made this Act in accordance with Article 296 (1) of the Constitution of Nepal.

### 11. Civil Rights Act, 2074 BS

During the construction and implementation of the proposed project, the legal rights of a Nepali citizen shall not be undermined.

### 12. Labor Act, 2074 BS

According to the Labor Act 1992, section 4 on Employment of workers and employees, and subsection 3 on workers or employees engaged in any contract work of a permanent nature in any enterprise shall also be made permanent under subsection (2). Workers or employees engaged in any work as mentioned in subsection (3) shall be paid benefits provided for in this Act according to their post and scale. Notwithstanding anything contained under subsections (2) and (3), in the event that any establishment is required to increase production or service for a short period of time, it may appoint workers or employees according to need for a certain period by specifying such a period.

Under Section 5, no child shall be employed. Except in prescribed circumstances, minors and women may ordinarily be employed for the period from 6 a.m. to 6 p.m. Women may be employed, like men, after making appropriate arrangements on the basis of mutual agreements between the general manager and the employees or workers in question. All labors should be provided safety equipment, such as helmets, and gloves, during works. The Labor Act shall be followed in all the works carried out under the Project.

### 13. Disaster Risk Reduction and Management Act, 2074 BS

Section 20 of the act maintains that public institutions and business establishments should make special arrangements to prevent disasters within their area and conduct disaster management training for their employees.

### 14. Local Government Operation Act, 2074 BS

Section 11; Rights of Village Municipality and Municipality

Sub-Section 2 (g) (8) Coordination, facilitation and assistance in the implementation of federal and state level Project and Project

Sub-Section 2 (i) (5) Control and regulation of clean drinking water and food quality and air and noise pollution and (6) Increase in sanitation awareness and management of health related waste Sub-Section 2 (j) (12) Formulation and implementation, monitoring and regulation of local policies, laws, standards, plans related to environment protection and biodiversity

Sub-Section 2 (n) (4) Coordination and facilitation in land acquisition, determination of compensation and distribution for public purposes

Sub-Section 2 (o) Conservation and promotion of agro-environment and biodiversity

Sub-Section 4 (e) Local policies, laws, standards, plan implementation, monitoring and regulation related to forests, wildlife, birds, water use, environment and biodiversity

### 15. The International Trade in Endangered Species of Wild Fauna and Flora Act, 2073 BS

Section 3 states that the trading of rare or endangered wildlife or flora or its specimens shall not be conducted.

Under Section 8 (1), any person, organization or body wishing to nurture protected plants or to plant, nurture or store, use, produce, trade as seed, transport or export or import protected wildlife or plant specimens will have to take license.

### 16. Sexual Harassment at Workplace Prevention Act, 2071 BS

This Act defines to include any place used by (a) government entities, (b) entities owned (fully or partly) by government, (c) corporate bodies or institutions established in accordance with the prevailing laws; and (d) any firm, institution or corporate body registered or licensed to carry out

any business, trade, or provide services (together the "Entities"), in the course of conducting their business. Section 12 of the Act provides that any person who has committed sexual harassment if found guilty may be punished with imprisonment of up to 6 months, and / or fine of up to NPR. 50,000. It also maintains that any employer failing to comply with the duties and responsibilities imposed by the Act, may be punished with fine of up to NPR. 25,000. In case of the repeated offence, double of the punished provided in the foregoing may be applicable. The aforesaid punishment under the Act may be imposed by the external complaint handling authority only.

### 17. Solid Waste Management Act, 2068 BS

Solid waste disposal center (transfer station), landfill site, treatment plant, composting plant, biogas plant and other necessary facilities for the improvement of solid waste disposal, infrastructure and treatment facilities.

Section 4 (2, 3) Obligation to manage solid waste

Section 5 (2) To reduce the production of solid waste

Section 6 (2) Solid waste segregation

Section 7 (2) Solid waste disposal

### 18. Plant Protection Act, 2064 BS

Section 6 (1-c): To identify the endangered areas and have the quarantine process to protect the plants and plant products in that area

Section 18: Quarantine can provide information on enemy creatures

### 19. Child Labor (Prohibition) Act, 2056 BS

Child Labor Act 2056 (Prevention and Regulation) is the main act related to child labor used in Nepal. Article 2 (a) of this Act defines a person under the age of 16 as a "child". Sub-section 1 of Section 3 of the said Act clearly states that a child below the age of 13 years should not be recruited as a laborer. Likewise, Article 3 prohibits the employment of under-16 in high-risk areas, such as public transport and construction work. In other words, those under the age of 16 cannot be involved in the construction work under the strategic road Project.

### 20. Water Resources Act, 2049 BS

This act ensures legal provisions regarding the appropriate use, protection, management and development of water resources on the surface or underground or in any other situation within Nepal and to determine the beneficial uses of water resources, to prevent environmental and other harmful effects from such use and to keep water resources free from pollution. According to Section 40, this Act is drafted to make provisions regarding water resources.

### 21. Soil and Watershed Conservation Act, 2039 BS

Section 10 of the Act prohibits the use of land where natural calamities occur or may occur in A, B, C, D, E, F points.

Under Section 24, the Government of Nepal shall not be deemed to have hindered the development of any water resource by anything contained in this Act.

### 22. National Parks and Wildlife Conservation Act, 2029 BS

Section 10 on Protected Wildlife: The wildlife mentioned in Schedule-1 of this Act shall be considered.

Schedule-1: Related to Section-10 about Protected Wildlife

### 23. Aquatic Protection Act, 2017 BS

The Act has long recognized the importance of wetlands and aquatic life. Section 3 of this Act provides grounds for the punishment of any group or person who uses poisonous or explosive substances in any water body/water source or damages canals, bridges or existing water systems for the purpose of catching or killing any waterfowl. Section 4 of the Act empowers the government to impose restrictions on the capture, killing or injury of certain species of aquatic animals by publishing a notice in the Nepal Gazette.

### 24. Police Act, 2012 BS (Amendment in 2066 BS)

Chapter 2: Formation, Supervision and Control of Police Force

Chapter-4: Powers and Duties of Police Employees

Chapter-5: Special arrangements for maintaining public peace and security

### D. Rules/Regulations

### 1. Forest Regulation, 2079 BS

Rule 3 (2): Part of national forest area shall be used for the sake of national security concern.

Rule 4 (1): After getting approval from GoN for the use of national forest area, shall be informed to concerned Province Ministry and Directorates. 4 (2): deposit of estimated cost for plantation and conservation cost for 5 years at fund at division forest office. The approval certificate shall be as per Schedule-1 format.

The total census of trees that needs to be clearly felled shall done as per the procedure and calculations made in Schedule-9 of regulation.

Also, while operating a national priority Project in a certain area, the local individual or the community has been harmed in some way by the proponent. The entire cost of cutting, splitting and transporting the produce of the area used by the master plan is bear by the Project proponent.

### 2. Environmental Protection Regulation, 2077 BS

Section 2 Provision of environmental study

Section 3 Provision of scoping study

Section 14 Pollution control provisions

Section 16 Provisions related to the management of hazardous substances

Section 33 No damage should be done in the field of protection of national heritage and environment protection

Section 34 Prohibited work in environment protection area, open or green area

### 3. Disaster Risk Reduction and Management Regulation, 2076 BS

Section 9: Responsibilities of public institutions and business establishments

Public institutions or business establishments have to fulfill their responsibility to prevent disasters A public organization or business establishment should develop and implement a business continuity plan to run its business before, during and after a disaster.

(1) Public organizations or commercial establishments should be equipped with fire control and other disaster reduction equipment

### 4. National Natural Resources and Finance Commission Regulation, 2076 BS

Section 3: Work of the Commission (A): to arrange for equitable distribution of benefits derived from the use or development of natural resources; to conduct necessary studies; to conduct research; to conduct and to determine its objective, basis and criteria.

### 5. Endangered Wildlife and Flora International Trade Control Regulation, 2076 BS

Section 3, you have to apply for a license

- (B) To nurture, sample, use, produce or transport endangered wildlife
- (C) To plant, nurture, cultivate, use, produce or transport endangered plants
- (E) To control the reproduction of rare or endangered wild animals or plants

### 6. Labor Regulation, 2075 BS

Section 16 Provisions regarding determination of working hours

Section 17 Provision for giving extra time for rest

Section 34 Occupational security and related provisions

Section 35 Provisions related to the duties of the employer

Section 39 Special provisions related to occupational safety and health

Section 41 Provision regarding adoption of protective measures

Section 42: Provision regarding non-use of heavy lifting

3) The employer should not force the worker to lift or carry more than the following weights: (a) Adult male: 55 kg (b) Adult female: 45 kg.

Section 44: Other provisions related to occupational health and safety

### 7. National Social Security Regulation, 2075 BS

Contribution-Based National Security Act, 2075 has been formulated under Section 69 of the Contribution-Based National Security Act, 2075. On the basis of contributions, the National Security Council has provided feedback to the participants of the National Security and Broadcasting National Security Schemes, employed by the National Security Fund, and staff members.

### 8. Police Regulation, 2071 BS (Eighth Amendment)

Rule 150 has provisioned for the skill development training to the police officers within a country or foreign countries.

Rule 151 (1) has allocated National Police Academy for providing training to the police officers from Police Headquarter. While (2) has simply provisioned trainings to the officer and higher level from National Police Academy, lower level will get trained from regional training centers.

Schedule-2 has provisioned responsibility to Deputy Inspector General of Police as Executive Director.

### 9. Solid Waste Management Regulation, 2070 BS

Section 3: Solid waste segregation and management

2) The concerned producer will be responsible for the management of the segregated chemical or harmful waste.

Section 5: Removal and management of harmful or chemical waste

1) Harmful, chemical, organic or inorganic solid waste should not be mixed with other solid waste. Section 7: Regarding solid waste transportation

### 10. Building Regulation, 2066 BS

Rule 11 (1) of Building Act states that any individuals, organizations or government agencies, who wish to construct a building under category 'A' 'B' or 'C', shall obtain approval from Urban Development Office and submit a copy of the design to the local authority. In addition, Urban Development Office will carry out necessary checks on the application and if any additional documents are required during the inspection, such documents should be attached by the applicants. Then, Urban Development Office shall provide the approval letter upon written clause (if necessary) to the applicants within 30 days.

### 11. Child Labor (Prohibition and Restriction) Regulation, 2062 BS

Section 4: When employing a child, a certificate of competency must be submitted

Section 5: When employing a child, the employer must submit the child's disclosure paper to the labor office and obtain permission.

Section 25: Provisions to be adopted regarding child health and safety

### 12. Ozone Depletion Consumption (Control) Regulation, 2057 BS

Specification of substances related to Section 3 of Schedule 1 relates Ozone Depleting Substances (ODS: Ozone Depleting Substances) and Ozone Depleting Potential (ODP: Ozone Depleting Potential) standards.

### 13. Mining and Minerals Regulation, 2056 BS

Section 19: Conditions to be followed while excavating: (B) During excavation work, measures should be taken to minimize the adverse effects on the environment as much as possible; (C) Not to excavate within fifty meters and not to build house, factory or warehouse in the places reserved for national and public interest and security, including ancient monuments, cities, tombs, Masan Ghats, public roads, Ghats, dams, pipelines, forts, forts, cantonments, temples, mosques, churches, houses, and factories; G) Safety management so that no accident can occur in the top, tunnel, hole, etc. opened during excavation

Section 6: Provisions related to mineral resources and environment protection

Schedule 2: Provisions regarding the level of mineral work related to minerals

### 14. Land and Watershed Protection Regulation, 2042 BS

Section 11 (1): When fishing, only fishing rods or nets should be used

### 15. Land Rules, 2021 BS

Section 39 (k): If any work has to be done on the land specified as a natural calamity possible zone, the reason for doing so must be obtained from the concerned officer.

### 16. Aquatic (Thek) Rules, 2019 BS

Section 8 (b): Out of the specified species of aquatic fish, Sahar fish, Rahu fish, Naini-Mrigal and Kalla fish should not be collected before they become 12 inches long. Such fish should be released even if they fall into the net.

### 17. The Nepal Civil (Code) Procedure, 2076 BS

The law associated with anyone for filing the case, hearing and resolving the cases in the court and procedural has been mentioned. The court has right to dismiss the case based on the proof submitted by the case filer. For this Project, one who is not satisfied with the decision made by grievance redress committee, can appeal in the court.

### E. Guidelines and Directives

- 1. Wildlife Friendly Infrastructure Construction Guideline 2078 BS
- 2. Procedure with Criteria for Using National Forest Area for National Priority Project, 2076 BS
- 3. NTFP Inventory Guidelines, 2068 BS
- 4. Forest Fire Management Strategy 2067 BS
- 5. National EIA Guidelines, 2050 BS

### F. National Standards

- 1. Nepal National Building Code, 2077 BS: The structure shall be designed and constructed to withstand the design seismic forces, thereby retaining its structural integrity, stability against overturning and a residual load bearing capacity after the earthquake. Further, it is also necessary to avoid damage to nonstructural systems which are essential for safe evacuation from the structure.
- 2. National Standards for Sound Quality, 2069 BS
- 3. National Transport Emission Standards, 2069 BS
- 4. Emission Criteria for Diesel Generators, 2069 BS
- 5. Nepal Water Quality Guidelines for the Protection of Aquatic Ecosystem, 2065 BS
- 6. National Standards on Air Quality, 2062 BS
- 7. Nepal Vehicle Pollution Standards, 2062 BS
- 8. National Drinking Water Quality Standards, 2062 BS
- **G.** International Conventions, Agreements and Treaties
- 1. The Stockholm Convention on the Continuously Increasing Permanent Pollutants, 2001
- 2. Kyoto Protocol to the United Nations Framework Convention on Climate Change, 1997
- 3. United Nations Framework Convention on Climate Change, 1994
- 4. Convention on Biological Diversity, (CBD) 1992
- 5. Basel Convention, 1989
- 6. Convention on International Trade in Endangered Species (CITES), 1975
- 7. ILO Convention, 1969

### H. By-laws Related with Panauti Municipality

- 1. Building Construction, 2077 BS: "If a private house structure, with a height of more than 2.5 floors, is to be built inside Panauti municipality, there is a provision of conducting a soil test. Then, the provision to conduct a soil test up to 3.5 floors can be amended and allowed up to 3.5 floors, in accordance with the law to arrange." Persons or institutions willing to construct buildings within the municipality should apply for the approval of building design.
- 2. The Act made in relation to Forest Management inside Panauti Municipality Area, 2077 BS: It focuses on: protecting the rights and practically guaranteeing the priority of the local community over the forest mentioned in the constitution of Nepal; making responsible for the sustainable management and protection of the forest; taking the maximum benefit from the forest resources and making a significant contribution to the economic, social and environmental infrastructure of the local community through the equitable distribution of benefits. Since it is desirable to make necessary legal provisions related to local forest management for the management and use of forests in order to contribute more to achieving the goals of economic growth and sustainable development, in accordance with sub-section (g) of article 51 of the Constitution of Nepal, as well as sub-section of section 11 of the Local Government Operation Act, 2074 4 of e (2) and (5). In accordance with Section 102 of the Local Government Management Act, the 8<sup>th</sup> Municipal Council of Panauti Municipality has issued this Act to implement the provisions of the Act.
- 3. Disaster Risk Management Act, 2077 BS
- 4. Forest Management Act, 2077 BS
- 5. Land Development Guideline of Panauti Municipality 2076 BS: Panauti municipality is developing rapidly and different people or organizations are fragmenting the land in the name of land development. Therefore, in order to connect the infrastructure development with

urbanization, it is necessary to make the land use of the municipality systematic, and organize the land development work that is developed commercially. As it is necessary to maintain uniformity in the land development works in the urban area within the scope specified by subsection 5 of section 11 of the Local Government Act 2074 and the authority given by section 3 of the Administrative Procedures (Regulating) Act 2075, Panauti City meeting of the executive committee dated 2076/08/05 has approved this land development guideline 2076.

- 7 Chha) In the land development area, 5 percent of the land used in the open area should be set aside for children's garden, natural disaster management (rescue site), etc.
- 8 Ka) The width of the road connecting to the land to be planned should be at least 8 meters.
- 8 Kha) Roads in the planning area must be 6 m. And 1.5 m set-walk should be maintained.
- 8 Cha) It cannot be developed on land that is prone to flooding and has a slope of more than 30 degrees.
- 8 Jha) If there is a sewer along the access road, then the drainage of the project area should be connected to that sewer.
- 8 Dha) The land cannot be developed in such a way as to spoil the natural quality of the land. But if there is a cave of more than 3000 m. deep, the necessary security wall and sandhiyar must also be submitted in writing.
- 8 Na) Other standards related to the building construction shall be in accordance with the National Building Construction Code.
- **6.** Water Resource Use Regulations, 2076 BS: Rule 14 has made the submission of application in the format mentioned in Schedule-3 mandatory. The Project shall give application to the Municipality Water Resource Committee as per Rule 19 associated with the License for the use of water as per Schedule-5.
- **7. Road Standard of Panauti Municipality, 2074 BS:** The Right to Way of Banepa-Khopasi Road Section is as per the standard published from Department of Road (Feeder Road Standard).

### **APPENDIX 11:** CHECKLIST AND QUESTIONNAIRE USED FOR EIA STUDY

### सामाजिक आर्थिक अध्ययन

### (समूह केन्द्रित छलफल प्रश्नावली)

₹.	सामान्य जानकारी					
छत	तफल गरिएको मिति:		3	गयोजनाको नाम:		
जि	ल्ला:		ग	ा.पा./न.पा	वड	ा नं
गाः	<u> इ</u> ॅ/टोल:					
₹.	यस छलफलमा स	मेटिएको अध्यय	न स्थलका वस्तीहरुक	ो प्रकार (सहर <b>-</b> ब	जार, अर्ध घना बस्ति वा र	छरिएको कस्तो खालको छ
	नाम सहित लेख्ने)					
	वस्तीको नाम	वस्तीको	ा प्रकार ज	म्मा घरधुरी	मुख्य मुख्य जातजाति	मुख्य मुख्य धर्म
₹. 	यस ठाउँका मानिस	ाहरुको स्थानीय ————————————————————————————————————	भाषा कुन कुन हो र वु	न कुन समुदायले	। प्रयोग गर्दछन ?	
	स्थानीय भाषा	Γ	बोल्ने समुद	ाय	अनुमानित घरधुरी	कैफियत
٤.	यस ठाउँका मानिस	ाहरु मुख्य रुपमा	। कुन कुन पेशामा निर् <u>भ</u>	र छन् ।		
	पेशा	निर्भर प्रतिशत	आयोजना निर्माणले	,		कैफियत
	पशा	ानभर प्रातशत	प्रभाव पार्छ कि पार्दैन	कस्ता प्रभाव प	ार्छ (सकरात्मक/नकारात्मक)	काकचत
۹.	212 10112111 2 <del>2</del>	مرائسة عبرا	। कस्तो खालको हुन्छन	r 9		
۲.	बसाईसराई सरेर जाने		यरधुरी 	<ul> <li>बसाईसराई सरे</li> </ul>	र आउने मुख्य	घरधुरी
	स्थानहरु			स्थानहर	5	

		$\sim$		$\sim$	$\sim$	`	ٺ	`		
€.	यम	बॉस्त	बाट	नम्न	मावध	ाहरुको	पद्रच	कस्ती	दुठ	1
٧.	\ •		-,,,		(11-1-1	164	16.51	-40 / /44	•	•

सुविधा को अवस्था	स्थान	दुरी (कि.मि.)
माध्यामिक स्कुल		
कलेज/क्याम्पस		
स्वास्थ चौकी		
प्राथमिक स्वास्थ केन्द्र		
आयुर्वेदिक केन्द्र		
अस्पताल		
मुख्य बजार		
स्थानीय बजार		
बैंक/वित्तीय संस्था		
सडक		
वडा कार्यलय		
पालिका कार्यलय		
जिल्ला सदरमुकाम		

### ७. यस स्थानमा रहेका शैक्षिक संस्थाहरुको विवरण दिनुहोस।

शैक्षिक संस्थाको नाम	स्थान	पढाई हुने तह/कक्षा	स्वामित्व (निजि, सार्बजनिक/सरकारी)	कैफियत

### ८. यस ठाउको साक्षरताको अबस्था कस्तो छ?

जनसंख्या	निरक्षर	साक्षर
-अंक वा प्रतिशत _		
पुरुष		
महिला		

### ९. यस स्थानमा रहेका स्वास्थ्य संस्थाको विवरण दिनुहोस।

स्वास्थ्य संस्थाको नाम	स्थान	उपलब्ध स्वास्थ्य सुबिधा	स्वामित्व (निजि, सरकारी)	कैफियत

१०.	यस ठाउँका मानिसहरुमा देख	ब्रा पर्ने मुख्य मुख्य र	ोगहरु के के हुन ?	
••••				
<b>??</b> .	यस ठाउँका मानिसहरु बिराम् धामीझाँक्री)	ी पर्दा अबलम्बन ग	र्ने मुख्य मुख्य उपचार पद्दति के के हुन	? (अस्पताल, घरेलु उपचार,
				यस ठाउँका
मानि	सिहरुको खानेपानीको मुख्य म्	एख्य श्रोत कुन कुन ह	हो?	
	श्रोतहरु	3 3	खानेपानीको लागि प्रयोग गर्ने घरधुरी संख्या	प्रतिशत
पाई	प/धारा			
कुव	П			
मुह	न तथा ढुंगे धारा			
नदि	/खोला/खोल्सा			
<b>१</b> २.	यस ठाउँका मानिसहरुको शौ	चालय प्रयोग सम्बर्	न्ध विवरण दिनुहोस ।	
	चर्पीको प्रकार		प्रयोग गर्ने घरधुरी संख्या	प्रतिशत
खा	ल्डे			
प्या	न भएको खाल्डे			
आ	धुनिक			
चर्प	िनभएको			
<b>१३.</b>	यस ठाउँका मानिसहरु घरबा	ट निस्कने फोहरमैला	। सामान्यतया कसरि ब्यबस्थापन गर्ने	गर्दछन ?
 १४.	यस ठाउँमा उपलब्ध याताया	 त पुर्वाधारको विवरा	ग दिनहोस ।	
	सडकको नाम	सडकको लम्बाई	लाभान्वित वस्तीहरु	सडकको अवस्था
१५.	विधुतमा पहुँच भएका घरधुरी	ोहरुको विवरण दिनुः	होस ?	
	- विधुतमा पहुँच भएका घरधुरी संर	ज्या/प्रतिशत <b>:</b>		
	विधुतमा पहुँच नभएका घरधुरी स	ांख्या∕प्रतिशत:		

१६.	यस स्थानमा	सिंचाई सुर्वि	बेधा कस्तो र	हेको छ	?						
	सिंचाईको	योजनाको ना	म	सिं	चाई श्रोतको नाम	ि सिंच	ाई हुने जम्मा क्षेः	प्रफल (ईकाई	खुलाउने)	लाभान्वि	ा घरपरिवार
				e	<del></del>						
9.	यस स्थानमा	उपलब्ध स	चार सु।बधाः	हरुका ।	वेवरण दिनुहोर	4 1					
••	•••••	••••••	• • • • • • • • • • • • • • • • • • • •	•••••	•••••	•••••		• • • • • • • • • • • • • • • • • • • •	• • • • • • • • • • •	••••••	• • • • • • • • • • • • • • • • • • • •
••	•••••	••••••		•••••			• • • • • • • • • • • • •	• • • • • • • • • • • • • • • • • • • •	• • • • • • • • • • • • • • • • • • • •	•••	
۷.	यस स्थानमा	उपलब्ध स	थानीय बजार ।	तथा उ	द्योगहरुको वि ।	वरण दिनुहोर ।	र । ।				
	वजारको न	ाम	अवस्थित	स्थान	खाजा पसल	लज संख्या	पसल संख्या		उद्योग संख्य ।	T .	कैफियत
								साना	मझौला	ठूला	
L											
۶.	यस स्थानमा	हुने मुख्य ए	गुख्य कृषि उ	त्पादनहर	ह के के हुन् ?						
	वाली			मुख्य मुर	<sub>ड्य</sub> वालीको नाम				कैपि	व्यत	
	अन्न वाली										
-	ारकारी वाली										
-	गगदे वाली										
-	 फ्लफुल										
0.	यस स्थानमा गर्नुहोस ।	अवस्थीत <sup>ा</sup>	ऐतिहासिक स	गांस्कृति	क धरोहर, धा	र्मिक स्थल त	था सांस्कृति	क्र महत्वको	खुला स्थ	ान भएमा	उल्लेख
	्रे ऐतिहासिक सांस्कृति तथा सांस्कृतिक मह				सांस्कृतिक/	धार्मिक महत्व	;	आयोजनाले प प्रभाव		कैपि	<b>क्य</b> त
L											
٤٩.	यस ठाउँको :	प्रमख चाड	बाड र मेला र	नुमारोह '	हरु के के हुन	?					
		चाडबाड र मेल					ने समुदाय			कैफिय	न
	7,39	-10410 (40				4410				4/14/4	
H											

. यहाहरुको बिचारमा आयोजनाका के कस्ता सकारात्मव	n असरहरु देखा पर्नेछन् ?
निर्माण चरणमा	निर्माण सम्पन्न भइसकेपछी
. यहाहरुको बिचारमा आयोजना कार्यान्वयन हुँदै गर्दा के	कस्ता नकारात्मक असरहरु देखा पर्नेछन् ?
निर्माण चरणमा	निर्माण सम्पन्न भइसकेपछी
. आयोजना प्रति स्थानीयहरु को धारणा तथा सहमतिको	बारेमा बताईदिनुहोस् ।
. अन्य केहि सुझाव तथा टिप्पणी छन् भने उल्लेख गर्नुहोर	स ।

### सामाजिक आर्थिक अध्ययन

### समूह केन्द्रित छलफलमा सहभागी हुनेहरुको सुची

क्र.स.	नाम	ठेगाना	पेशा	हस्ताक्षर

### National Police Academy, Panauti, Kavrepalanchowk Project

### PHYSICAL AND BILOGICAL ENVIRONMENT CHECKLIST

Proponent	Field Visit Date:
Name of Project	
Province	
District	Study Team Members:
Municipality/Rural	
Municipality, Wards	

A. Landslides and slope Instability nearby Project Area

SN	Location	]	Landslide	J	Landslide Type	Morphology	Date of
		Length	Width	Area	(1. a fall 2. a	(Consider-	Event
		(m)	(m)	$(m^2)$	topple 3. a slide	slope, aspect &	
					4. a spread 5. a	upside location)	
					flow		

#Photographs in SW Map

### B. Drainage System nearby Project Area

SN	Location	Drainage System			Water logging Issues (If Yes)					
		Poor	Fair	Good	Natural	Man made	Extent/Area	Duration		

#Photographs in SW Map

### C. Rivers

SN	Location	Name River/Stream	Flooding width Left-Right (m)	Morphology

#Photographs in SW Map

### D. Road Type and Condition

# NH-National Highway, FR-Feeder Road, DR-District Road, VR-Village Road

S	Locatio		Road Type				Classification of			Road Condition		
N	n					Roads						
		Asphalt/Bitume	Concret	Grave	Earthe	N	F	D	V	Poo	Fai	Goo
		n	e	l	n	H	R	R	R	r	r	d

#Photographs in SW Map

### E. Landuse Pattern

Type of Land	Area within DIA ( m²)
Forest (Government Land)	
Agricultural land (Private Land)	
Built up area	
Water Bodies	
Barren Land (Private/Public)	
Sub total	

### F. Air Quality and Noise Level

S	Location/	Air Qı	•	top Airing-1000 PM	Noise Level -UNI-T UT 353 Mini		
N	Location		De	tector	Sound Meter		
		$PM_{2.5}$	$PM_{10}$	Source of Pollution	dBA	Source of Pollution	

#Make measurements and capture photographs

### G. Solid and Liquid Wastes and Management Practices in Settlement Area

SN	Location	Type of wastes	Quantity of wastes	Source of wastes	Management Practices

#Photographs in SW Map

A.	Checklist	for	Forest and	Plant	Diversity
----	-----------	-----	------------	-------	-----------

Location from:	Locatio n to:	UM/RM:	Ward No.:
Elevation Lower:	Elevatio n High:	Forest category	Name of Forests
Slope:	Aspect:	Forest classification	User Community Group (established date/members M/F)

### B. Checklist for the Ethno-botanical studies of the project area (site and surroundings)

SN	Local Name	<b>Botanical Name</b>	Use categories			Remarks				
			M	F	Т	E	O	R	Fi	

M = Medicinal, F = Fodder, T = Timber, E = Economical, R = religious, Fi = Fiber yielding

### C. Enumeration of the Tree

C\*- Cutting, B\*- Bushing

SN	Location	Local name	DBH (cm)	Height (m)	C*/B*	Class	GPS Co	ordinate
		nunic	(CIII)	(111)			Longitude	Latitude

Note: Girth 10-30 cm Pole size, more than 30 cm girth size a tree.

υ.	Cnecklist for	Argo-	aiversity	Status in	tne Project Area	l
----	---------------	-------	-----------	-----------	------------------	---

Name of Respondent	, M/RM,,
Settlement	Location fromto

	Cereal Crops						
	1						
	2						
1	3						
	Pulses						
	Vegetables						
	Cash crops						
	1						
	Spices						
	Fruits						
	110105						
	Fodder plants						
	1 odder planes						
	1			L			
F Wil	ldlife Survey Questionnai	ra and Chacklist					
Name o	of respondent		M/RM,.	, Settlement			
Area:		Locati	ion from to				
				•••••			
1.	Do you see wildlife in you	ır settlement area?					
	Yes/No						
	If yes, how often?						
	Name of species (wild animals and birds)  Frequency  Season  Place/forest						
	,						
Frequen	ncy: f- frequently, O- occas	ional, r-rare		·			

**Local Varieties** 

Remarks

SN

Local name

1. Herpetofauna

Name of species	Frequency	Season	Place/forest

2. Fish Diversity

Name of species	Frequency	Season	River/Stream

### 3. Ethnozoology

Are local people/local healers using any wild animal and birds for traditional medicine/religious purpose? Yes/No, If yes,

Name of species	Parts used	Disease	Way of use

## APPENDIX 12: PHYSICAL ENVIRONMENT BASELINE INFORMATION



Effective date: 2021/08/01

Soil Water and Air Testing Labaratories Pvt. Ltd.

VAT No: 605928743 Tel: +977-01 4249480

Email: swatlab2017@gmail.com PO Box: 25752, Kathmandu, Nepal

Sisir Marga 11, Babarmahal, Kathmandu, Nepal

### **AIR QUALITY MONITORING REPORT**

Name of the Client:	National Police Academy	Lab Code:	23/02-922(a)	
Collector:	Srijana Sharma	Location:	Dalinchowk (1444m)	
Latitude:	27°35'32.49"N	Longitude:	85°31'4.73"E	
Source:	Ambient Air	Sampled By:	Aalekh Bhattarai and Study Team	
Sampling Date/ Run hours:	2023/02/10-2023/02/11	Test Performance Date:	2023/02/12-2023/02/15	
Receipt Date:	2023/02/12	Issue Date:	2023/02/16	
Project Name: Construction of National Police Academy at Kavreplanchowk				

Parameters	Results (μg/m³)	Averaging Time	Tolerance Limit (Nepal Ambient Air Quality Standard, 2012) (µg/m³)	Remarks
Particulate Matter (PM <sub>10</sub> )	98.7	24-hours	120	Within the limit
Particulate Matter (PM 2.5)	47.2	24-hours	40	Within the limit
Total Suspended Particles (TSP)	160.71	24-hours	230	Within the limit

High Volume Sampler and Gravimetric Analysis method was used for noise quality monitoring.

**Note:** The integrity of the sample and results are dependent on the quality of the sampling. The results refer only to the parameters tested of the samples provided/collected for analysis. Statements of conformity have been made without taking Measurement Uncertainty into account except when specifically requested by the customer.

Remarks: Particulate Matter (PM10) and Total Suspended Particulate Matter (TSP) are found within the limit except Particulate Matter (PM 2.5) as of the National Air Quality Standard, 2012; Ministry of Forests, and Environment. The station is nearby the Khopasi-Banepa Road and excessive movement of tipper truck and wind at the time of air sampling might increase in movement of fine particles towards the station as a consequences air quality values observed as deteriorated.

Analyzed and Checked By

Authorized By Er. Lokesh Sapkota



Effective date: 2021/08/01

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Sisir Marga 11, Babarmahal, Kathmandu, Nepal

### **NOISE LEVEL MONITORING REPORT**

Name of the Client:	National Police Academy	Lab Code:	23/02-922(b)	
Collector:	Srijana Sharma	Location:	Dalinchowk (1444m)	
Latitude:	27°35'32.49"N	Longitude:	85°31'4.73"E	
Source:	Ambient Noise	Sampled By:	Aalekh Bhattarai and Study Team	
Sampling Date/ Run hours:	2023/02/10-2023/02/11	Test Performance Date:	2023/02/12-2023/02/15	
Receipt Date:	2023/02/12	Issue Date:	2023/02/16	
Project Name: Construction of National Police Academy at Kavreplanchowk				

Parameters	Results dB (A)
Average Day-Night Sound Pressure Level (Ldn)	64.4
Subjective Annoyance Level (L10)	60.4
Average Sound Level (L50)	64.8
Background Sound Pressure Level (L90)	49.5

Sound Level Meter (SL-4023SD) was used for noise quality monitoring.

**Note:** The integrity of the sample and results are dependent on the quality of the sampling. The results refer only to the parameters tested of the samples provided/collected for analysis. Statements of conformity have been made without taking Measurement Uncertainty into account except when specifically requested by the customer.

Remarks: The sound level limit was calculated in Leq (dB) and reference was matched with the location similarity as Mixed Residential Area with 63 dB(A) for day and 55 dB(A) for night. The values obtained from the instrument are within the National Standard on Noise Level, 2012; Ministry of Forests, and Environment.

Shar

Analyzed and Checked By

Authorized By Er. Lokesh Sapkota



Effective date: 2021/08/01

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Sisir Marga 11, Babarmahal, Kathmandu, Nepal

### **WATER ANALYSIS REPORT**

Name of the Client:	National Police Academy	Lab Code:	23/02-922(c)		
Collector:	Srijana Sharma	Location:	Entrance, Dalinchowk (1443m)		
Latitude:	27°35'34.51"N	Longitude:	85°31'4.74"E		
Source:	Punyamata Khola	Sampled By:	Aalekh Bhattarai and Study Team		
Sampling Date/ Run hours:	2023/02/12, 1:00PM	Test Performance Date:	2023/02/13-2023/02/15		
Receipt Date:	2023/02/12	Issue Date:	2023/02/16		
Project Name:	ct Name: Construction of National Police Academy at Kavreplanchowk				

Parameters	Results	Unit	(Relevant	Method			
			Standard)				
Physical							
Temperature	20.44	-	16-32°C				
рН	7.21	-	6.5-9.0	4500 H+ B. APHA 23 <sup>rd</sup> edition			
Total Dissolved Solids	214.48	mg/L	< 2000	2540 C. APHA 23 <sup>rd</sup> edition			
Total Suspended Solids	427.06	mg/L	< 20000				
Turbidity	20	NTU	4.1	2130 B. APHA 23 <sup>rd</sup> edition			
		Chemical					
Ammonia	11.84	mg/L	<1.0	4500 NH <sub>3</sub> F. APHA 23 <sup>rd</sup> edition			
Biochemical Oxygen Demand (BOD)	49.24	mg/L	2.1	5210 B. APHA 23 <sup>rd</sup> edition			
Dissolved Oxygen (DO)	2.41	mg/L	7.8	APHA 23rd edition			
Chemical Oxygen Demand (COD)	82.34	mg/L	65.2	APHA 23rd edition			
Nitrate	4.16	mg/L	< 300	4500 NO <sub>3</sub> - B. APHA 23 <sup>rd</sup> edition			
Phosphorus as Orthophosphate	1.76	mg/L	<0.6	4500. APHA 23rd edition			
Biological							
Coliform	112	E. Coli of fish flesh	< 10	APHA 23rd edition			

Relevant Standard: Aquatic Ecology Standard.

**Note:** The integrity of the sample and results are dependent on the quality of sampling. The results refer only to the parameters tested of the samples provided/collected for analysis. Statements of conformity have been made without taking Measurement Uncertainty into account except when specifically requested by the customer.

Remarks: The water quality of Punyamata is massively deteriorated as Ammonia, BOD, COD and PO<sub>4</sub>-P parameters including Coliform are higher than the limits mentioned in the Nepal Water Quality Guidelines for Aquaculture, 2008. This shows that water quality of Punyamata Khola is similar to dead river.

Analyzed and Checked By

Authorized By Er. Lokesh Sapkota



Effective date: 2021/08/01

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Sisir Marga 11, Babarmahal, Kathmandu, Nepal

### **WATER ANALYSIS REPORT**

Name of the Client:	National Police Academy	Lab Code:	23/02-922(d)	
Collector:	Srijana Sharma	Location:	Dalinchowk (1443m)	
Latitude:	27°35'27.50"N	Longitude:	85°31'25.65"E	
Source:	Water Spout (Dhunge Dhara)	Sampled By:	Aalekh Bhattarai and Study Team	
Sampling Date/ Run hours:	2023/02/12, 1:10PM	Test Performance Date:	2023/02/13-2023/02/15	
Receipt Date:	2023/02/12	Issue Date:	2023/02/16	
Project Name: Construction of National Police Academy at Kavreplanchowk				

Parameters	Results	Unit	(Relevant Standard)	Method			
Physical							
Colour	0	TCU	5 (10)	2120 B. APHA 23rd edition			
Conductivity	180	μS/cm	1500 (max)	2510 B. APHA 23rd edition			
рН	7.54	-	6.5-8.5	4500 H+ B. APHA 23rd edition			
Temperature	21	°C	-	-			
Total Dissolved Solids	154	mg/L	1000	2540 C. APHA 23rd edition			
Turbidity	0.43	NTU	5 (15)	2130 B. APHA 23rd edition			
		Che	mical				
Ammonia	< 0.02	mg/L	1.5	4500 NH <sub>3</sub> F. APHA 23 <sup>rd</sup> edition			
Nitrate	0.89	mg/L	50	4500 NO <sub>3</sub> - B. APHA 23 <sup>rd</sup> edition			
Chloride	16.99	mg/L	250	4500-Cl- B. APHA 23 <sup>rd</sup> edition			
Iron	0.06	mg/L	0.3 (3)	3500-Fe B. APHA 23 <sup>rd</sup> edition			
Total Hardness	54	mg/L as CaCO <sub>3</sub>	500	2340 C. APHA 23rd edition			
Microbiology							
Coliform	Present	-	Absent	P/A Vials			

Relevant Standard: National Drinking Water Quality Standard, 2012

**Note:** The integrity of the sample and results are dependent on the quality of sampling. The results refer only to the parameters tested of the samples provided/collected for analysis. Statements of conformity have been made without takingMeasurement Uncertainty into account except when specifically requested by the customer. **Remarks: Except for Coliform, all the observed values of other tested parameters are found to be within the limit of NDWQS, 2012.** 

Analyzed and Checked By

Authorized By Er. Lokesh Sapkota

### Borewell drilling works

We propose to carry out borewell drilling works as per the below mentioned specifications:

Nature of work: Borewell drilling works at National Police Academy project, Panauti, Kavre, Nepal

Size: 8" "6" diameter \*100m depth. The depth of water well may be increased or decreased according to the condition of geological strata of the area.

Drilling Method: Drilling in all types of soils including hard rock by DTH hammering method.

Pipes and sockets to be used: Installation of 200 mm dia and 150 mm dia ERW MS plain pipe with 4.5 to 4.8 mm thickness. Make: Jagadamba.

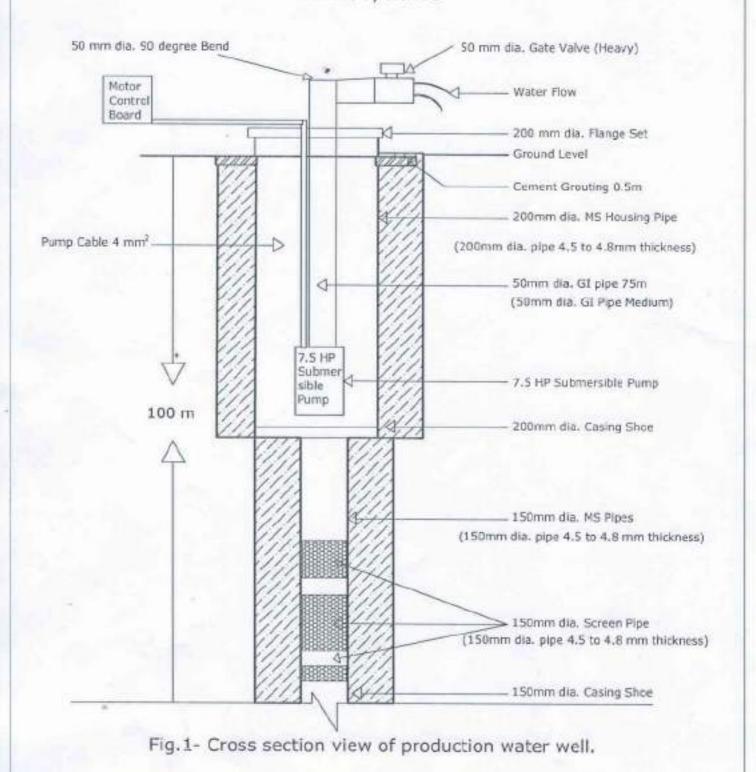
Screen cutting (making hole) on plain pipes.

Supply of 150 mm dia and 200 mm dia easing shoe.

Submersible pump: 7.5 HP capacity having water discharge 2-4 ht/sec, head 30-120 mtr, discharge pipe 50 mm dia 75 mtr, 4 sqm cable 100 mtr panel board complete set. Make of submersible pump: KSB.

### DTH ROCK Drilling Company Pvt. Ltd.

Tentative Well Design of Panauti, Kavre



### APPENDIX 13: BIOLOGICAL ENVIRONMENT BASELINE INFORMATION

**Details of Number of Trees Data to be Clearly Felled** (Obtained from Sub Division Forest Office, Khopasi)

S.N.	Species Local Name	Scientific Name	Nos. of Trees		T-4-1 T	
			Tree	Pole	Total Trees	
1	Saur	Betula alnoides		1	1	
2	Tuni	Cedrela toona	10	10	20	
3	Jamun	Eugenia jambolana	1	1	2	
4	Paiyun	Cerasus cerasoides	11	10	21	
5	Pate Salla	Pinus patula		2	2	
6	Chilaune	Schima wallichii	42	55	97	
7	Siris	Albizia lebbeck	2		2	
8	Lapsi	Choerospondias axillaris	16	13	29	
9	Uttis	Alnus nepalensis	19	83	102	
10	Kapur	Cinnamomum glanduliferum	1		1	
11	Khotesalla	Pinu roxburghii		21	21	
12	Hade Bayer	Ziziphus incurva		1	1	
	Total		102	197	299	

### Trees Data that need to be Clearly Felled During the Construction Phase (Obtained from Sub Division Forest Office, Khopasi)

T- ID	Species Local Name	Scientific Name	<b>English Name</b>	DBH (cm)	Tree Height (m)	Bra nch
1	Uttis	Alnus nepalensis	Nepal Black Cedar	81.3	12.8	
2	Uttis	Alnus nepalensis	Nepal Black Cedar	50.8	4.6	
3	Uttis	Alnus nepalensis	Nepal Black Cedar	81.3	10.7	
4	Uttis	Alnus nepalensis	Nepal Black Cedar	73.7	8.2	
5	Uttis	Alnus nepalensis	Nepal Black Cedar	76.2	12.8	
6	Uttis	Alnus nepalensis	Nepal Black Cedar	83.8	12.8	
7	Uttis	Alnus nepalensis	Nepal Black Cedar	45.7	8.8	
8	Uttis	Alnus nepalensis	Nepal Black Cedar	58.4	10.7	
9	Uttis	Alnus nepalensis	Nepal Black Cedar	88.9	15.2	B1
10	Uttis	Alnus nepalensis	Nepal Black Cedar	53.3	10.7	B2
11	Uttis	Alnus nepalensis	Nepal Black Cedar	50.8	11.0	

T-ID	Species Local Name	Scientific Name	English Name	DBH (cm)	Tree Height (m)	Bra nch
12	Uttis	Alnus nepalensis	Nepal Black Cedar	50.8	9.1	
13	Uttis	Alnus nepalensis	Nepal Black Cedar	58.4	11.0	B1
14	Uttis	Alnus nepalensis	Nepal Black Cedar	71.1	9.1	B2
15	Uttis	Alnus nepalensis	Nepal Black Cedar	50.8	10.7	
16	Uttis	Alnus nepalensis	Nepal Black Cedar	66.0	10.7	
17	Uttis	Alnus nepalensis	Nepal Black Cedar	58.4	11.0	
18	Uttis	Alnus nepalensis	Nepal Black Cedar	86.4	5.5	
19	Uttis	Alnus nepalensis	Nepal Black Cedar	63.5	10.1	
20	Uttis	Alnus nepalensis	Nepal Black Cedar	76.2	11.9	
21	Uttis	Alnus nepalensis	Nepal Black Cedar	55.9	3.7	
22	Pate Salla	Pinus patula	Pine	43.2	3.7	
23	Pate Salla	Pinus patula	Pine	50.8	2.4	
24	Uttis	Alnus nepalensis	Nepal Black Cedar	78.7	14.6	
25	Khotesalla	Pinu roxburghii	Chir Pine	50.8	7.3	
26	Khotesalla	Pinu roxburghii	Chir Pine	55.9	5.5	
27	Khotesalla	Pinu roxburghii	Chir Pine	50.8	5.5	
28	Khotesalla	Pinu roxburghii	Chir Pine	43.2	3.7	
29	Khotesalla	Pinu roxburghii	Chir Pine	63.5	7.3	
30	Uttis	Alnus nepalensis	Nepal Black Cedar	71.1	11.0	B1
31	Uttis	Alnus nepalensis	Nepal Black Cedar	63.5	11.0	B2
32	Uttis	Alnus nepalensis	Nepal Black Cedar	76.2	11.0	
33	Uttis	Alnus nepalensis	Nepal Black Cedar	63.5	5.5	
34	Uttis	Alnus nepalensis	Nepal Black Cedar	81.3	14.9	
35	Uttis	Alnus nepalensis	Nepal Black Cedar	53.3	3.7	
36	Uttis	Alnus nepalensis	Nepal Black Cedar	48.3	5.5	
37	Uttis	Alnus nepalensis	Nepal Black Cedar	71.1	5.5	
38	Khotesalla	Pinu roxburghii	Chir Pine	58.4	5.8	

T-ID	Species Local Name	Scientific Name	English Name	DBH (cm)	Tree Height (m)	Bra nch
39	Khotesalla	Pinu roxburghii	Chir Pine	50.8	1.8	
40	Khotesalla	Pinu roxburghii	Chir Pine	55.9	3.7	
41	Khotesalla	Pinu roxburghii	Chir Pine	53.3	3.7	
42	Khotesalla	Pinu roxburghii	Chir Pine	50.8	3.0	
43	Khotesalla	Pinu roxburghii	Chir Pine	55.9	3.7	
44	Khotesalla	Pinu roxburghii	Chir Pine	53.3	3.7	
45	Khotesalla	Pinu roxburghii	Chir Pine	58.4	3.7	
46	Khotesalla	Pinu roxburghii	Chir Pine	63.5	3.7	
47	Khotesalla	Pinu roxburghii	Chir Pine	66.0	7.3	
48	Khotesalla	Pinu roxburghii	Chir Pine	71.1	7.3	
49	Khotesalla	Pinu roxburghii	Chir Pine	55.9	7.3	
50	Khotesalla	Pinu roxburghii	Chir Pine	50.8	3.7	
51	Khotesalla	Pinu roxburghii	Chir Pine	50.8	3.7	
52	Khotesalla	Pinu roxburghii	Chir Pine	50.8	3.7	
53	Uttis	Alnus nepalensis	Nepal Black Cedar	81.3	9.8	
54	Uttis	Alnus nepalensis	Nepal Black Cedar	76.2	7.6	
55	Uttis	Alnus nepalensis	Nepal Black Cedar	76.2	12.8	
56	Uttis	Alnus nepalensis	Nepal Black Cedar	76.2	7.3	
57	Uttis	Alnus nepalensis	Nepal Black Cedar	50.8	5.5	
58	Uttis	Alnus nepalensis	Nepal Black Cedar	76.2	9.1	
59	Uttis	Alnus nepalensis	Nepal Black Cedar	71.1	9.1	
60	Uttis	Alnus nepalensis	Nepal Black Cedar	63.5	6.1	
61	Uttis	Alnus nepalensis	Nepal Black Cedar	76.2	6.1	
62	Uttis	Alnus nepalensis	Nepal Black Cedar	58.4	7.3	
63	Uttis	Alnus nepalensis	Nepal Black Cedar	66.0	7.3	
64	Uttis	Alnus nepalensis	Nepal Black Cedar	96.5	12.8	
65	Khotesalla	Pinu roxburghii	Chir Pine	63.5	4.6	
66	Chilaune	Schima wallichii	Needlewood Tree	55.9	6.1	
67	Chilaune	Schima wallichii	Needlewood Tree	53.3	6.1	
68	Uttis	Alnus nepalensis	Nepal Black Cedar	71.1	8.5	

T-ID	Species Local Name	Scientific Name	English Name	DBH (cm)	Tree Height (m)	Bra nch
69	Chilaune	Schima wallichii	Needlewood Tree	111.8	13.7	
70	Uttis	Alnus nepalensis	Nepal Black Cedar	165.1	18.3	
71	Lapsi	Choerospondias axillaris	Nepali Hog Plum	188.0	15.2	
72	Lapsi	Choerospondias axillaris	Nepali Hog Plum	188.0	15.2	
73	Lapsi	Choerospondias axillaris	Nepali Hog Plum	228.6	16.8	
74	Lapsi	Choerospondias axillaris	Nepali Hog Plum	236.2	18.3	B1
75	Uttis	Alnus nepalensis	Nepal Black Cedar	238.8	21.3	B2
76	Lapsi	Choerospondias axillaris	Nepali Hog Plum	142.2	16.8	B1
77	Uttis	Alnus nepalensis	Nepal Black Cedar	215.9	21.3	B2
78	Uttis	Alnus nepalensis	Nepal Black Cedar	127.0	15.2	
79	Chilaune	Schima wallichii	Needlewood Tree	106.7	11.9	
80	Chilaune	Schima wallichii	Needlewood Tree	101.6	12.2	
81	Lapsi	Choerospondias axillaris	Nepali Hog Plum	111.8	13.7	
82	Uttis	Alnus nepalensis	Nepal Black Cedar	134.6	17.1	
83	Chilaune	Schima wallichii	Needlewood Tree	76.2	9.1	
84	Chilaune	Schima wallichii	Needlewood Tree	50.8	4.6	
85	Chilaune	Schima wallichii	Needlewood Tree	63.5	9.1	
86	Tuni	Cedrela toona	Red Cedar	96.5	10.7	
87	Paiyun	Cerasus cerasoides	Wild Himalayan Cherry	63.5	9.1	
88	Chilaune	Schima wallichii	Needlewood Tree	71.1	9.1	
89	Tuni	Cedrela toona	Red Cedar	63.5	9.1	
90	Tuni	Cedrela toona	Red Cedar	76.2	9.1	
91	Chilaune	Schima wallichii	Needlewood Tree	63.5	9.1	
92	Paiyun	Cerasus cerasoides	Wild Himalayan Cherry	139.7	16.8	

T-ID	Species Local Name	Scientific Name	English Name	DBH (cm)	Tree Height (m)	Bra nch
93	Chilaune	Schima wallichii	Needlewood Tree	58.4	9.1	
94	Chilaune	Schima wallichii	Needlewood Tree	63.5	9.1	
95	Chilaune	Schima wallichii	Needlewood Tree	88.9	9.1	
96	Chilaune	Schima wallichii	Needlewood Tree	88.9	9.1	
97	Tuni	Cedrela toona	Red Cedar	88.9	15.2	
98	Tuni	Cedrela toona	Red Cedar	127.0	15.2	
99	Tuni	Cedrela toona	Red Cedar	50.8	9.1	
10 0	Chilaune	Schima wallichii	Needlewood Tree	63.5	9.1	
10 1	Chilaune	Schima wallichii	Needlewood Tree	114.3	18.3	B1
10 2	Chilaune	Schima wallichii	Needlewood Tree	50.8	9.1	B2
10	Tuni	Cedrela toona	Red Cedar	83.8	15.2	
10 4	Tuni	Cedrela toona	Red Cedar	83.8	15.2	
10 5	Tuni	Cedrela toona	Red Cedar	83.8	15.2	
10 6	Tuni	Cedrela toona	Red Cedar	124.5	15.2	
10 7	Chilaune	Schima wallichii	Needlewood Tree	66.0	6.1	
10 8	Chilaune	Schima wallichii	Needlewood Tree	83.8	12.8	
10 9	Chilaune	Schima wallichii	Needlewood Tree	86.4	12.8	
11 0	Chilaune	Schima wallichii	Needlewood Tree	101.6	19.8	
11 1	Chilaune	Schima wallichii	Needlewood Tree	127.0	19.8	
11 2	Chilaune	Schima wallichii	Needlewood Tree	63.5	9.1	
11 3	Chilaune	Schima wallichii	Needlewood Tree	53.3	6.1	
11 4	Tuni	Cedrela toona	Red Cedar	76.2	7.6	
11 5	Hade Bayer	Ziziphus incurva	NA	68.6	9.1	B1
11 6	Tuni	Cedrela toona	Red Cedar	73.7	7.6	B2
11 7	Tuni	Cedrela toona	Red Cedar	83.8	7.6	

T- ID	Species Local Name	Scientific Name	English Name	DBH (cm)	Tree Height (m)	Bra nch
11 8	Tuni	Cedrela toona	Red Cedar	58.4	6.1	
11 9	Lapsi	Choerospondias axillaris	Nepali Hog Plum	203.2	18.3	
12 0	Lapsi	Choerospondias axillaris	Nepali Hog Plum	157.5	19.8	
12 1	Lapsi	Choerospondias axillaris	Nepali Hog Plum	152.4	18.3	
12 2	Chilaune	Schima wallichii	Needlewood Tree	88.9	12.2	
12	Chilaune	Schima wallichii	Needlewood Tree	76.2	12.2	
12 4	Paiyun	Cerasus cerasoides	Wild Himalayan Cherry	147.3	16.8	B1
12 5	Tuni	Cedrela toona	Red Cedar	76.2	10.7	B2
12 6	Lapsi	Choerospondias axillaris	Nepali Hog Plum	76.2	7.6	
12 7	Tuni	Cedrela toona	Red Cedar	99.1	5.5	
12 8	Jamun	Eugenia jambolana	Malabar Plum	76.2	4.6	
12 9	Jamun	Eugenia jambolana	Malabar Plum	111.8	6.1	
13 0	Chilaune	Schima wallichii	Needlewood Tree	68.6	6.1	
13 1	Kapur	Cinnamomum glanduliferum	Nepal Camphor Tree	147.3	15.2	
13 2	Chilaune	Schima wallichii	Needlewood Tree	142.2	11.9	B1
13 3	Paiyun	Cerasus cerasoides	Wild Himalayan Cherry	71.1	15.2	B2
13 4	Chilaune	Schima wallichii	Needlewood Tree	127.0	19.8	
13 5	Chilaune	Schima wallichii	Needlewood Tree	121.9	13.7	
13 6	Chilaune	Schima wallichii	Needlewood Tree	106.7	11.0	
13 7	Chilaune	Schima wallichii	Needlewood Tree	83.8	7.6	
13 8	Paiyun	Cerasus cerasoides	Wild Himalayan Cherry	96.5	10.7	
13 9	Chilaune	Schima wallichii	Needlewood Tree	134.6	15.8	

T- ID	Species Local Name	Scientific Name	English Name	DBH (cm)	Tree Height (m)	Bra nch
14 0	Chilaune	Schima wallichii	Needlewood Tree	124.5	10.7	
14 1	Chilaune	Schima wallichii	Needlewood Tree	88.9	9.1	
14 2	Chilaune	Schima wallichii	Needlewood Tree	71.1	9.1	
14	Chilaune	Schima wallichii	Needlewood Tree	76.2	13.7	B1
14 4	Tuni	Cedrela toona	Red Cedar	109.2	10.7	B2
14 5	Paiyun	Cerasus cerasoides	Wild Himalayan Cherry	78.7	10.7	
14 6	Chilaune	Schima wallichii	Wild Himalayan Cherry	101.6	12.2	
14 7	Chilaune	Schima wallichii	Wild Himalayan Cherry	81.3	12.2	
14 8	Chilaune	Schima wallichii	Wild Himalayan Cherry	116.8	15.2	
14 9	Chilaune	Schima wallichii	Wild Himalayan Cherry	76.2	12.8	
15 0	Paiyun	Cerasus cerasoides	Wild Himalayan Cherry	88.9	11.0	
15 1	Paiyun	Cerasus cerasoides	Wild Himalayan Cherry	114.3	10.7	
15 2	Paiyun	Cerasus cerasoides	Wild Himalayan Cherry	71.1	12.2	
15 3	Paiyun	Cerasus cerasoides	Wild Himalayan Cherry	160.0	20.4	B1
15 4	Paiyun	Cerasus cerasoides	Wild Himalayan Cherry	88.9	13.7	B2
15 5	Lapsi	Choerospondias axillaris	Nepali Hog Plum	48.3	6.1	
15 6	Uttis	Alnus nepalensis	Nepal Black Cedar	58.4	9.1	
15 7	Uttis	Alnus nepalensis	Nepal Black Cedar	66.0	7.6	

T-ID	Species Local Name	Scientific Name	English Name	DBH (cm)	Tree Height (m)	Bra nch
15 8	Chilaune	Schima wallichii	Needlewood Tree	104.1	18.3	
15 9	Chilaune	Schima wallichii	Needlewood Tree	109.2	15.2	
16 0	Chilaune	Schima wallichii	Needlewood Tree	76.2	13.7	
16 1	Chilaune	Schima wallichii	Needlewood Tree	71.1	13.7	
16 2	Chilaune	Schima wallichii	Needlewood Tree	76.2	9.1	
16 3	Uttis	Alnus nepalensis	Nepal Black Cedar	53.3	7.6	
16 4	Chilaune	Schima wallichii	Needlewood Tree	81.3	12.2	
16 5	Uttis	Alnus nepalensis	Nepal Black Cedar	78.7	9.1	B1
16 6	Uttis	Alnus nepalensis	Nepal Black Cedar	66.0	7.6	B2
16 7	Uttis	Alnus nepalensis	Nepal Black Cedar	71.1	9.1	
16 8	Uttis	Alnus nepalensis	Nepal Black Cedar	63.5	9.1	
16 9	Uttis	Alnus nepalensis	Nepal Black Cedar	61.0	9.1	
17 0	Uttis	Alnus nepalensis	Nepal Black Cedar	76.2	10.7	
17 1	Uttis	Alnus nepalensis	Nepal Black Cedar	71.1	10.7	
17 2	Uttis	Alnus nepalensis	Nepal Black Cedar	53.3	7.6	
17 3	Uttis	Alnus nepalensis	Nepal Black Cedar	101.6	16.8	B1
17 4	Chilaune	Schima wallichii	Needlewood Tree	101.6	15.2	B2
17 5	Chilaune	Schima wallichii	Needlewood Tree	61.0	9.1	
17 6	Chilaune	Schima wallichii	Needlewood Tree	101.6	18.3	
17 7	Chilaune	Schima wallichii	Needlewood Tree	50.8	7.6	
17 8	Uttis	Alnus nepalensis	Nepal Black Cedar	45.7	6.1	
17 9	Uttis	Alnus nepalensis	Nepal Black Cedar	55.9	6.1	
18 0	Lapsi	Choerospondias axillaris	Nepali Hog Plum	101.6	6.1	

T-ID	Species Local Name	Scientific Name	English Name	DBH (cm)	Tree Height (m)	Bra nch
18 1	Chilaune	Schima wallichii	Needlewood Tree	71.1	13.7	
18 2	Chilaune	Schima wallichii	Needlewood Tree	88.9	9.1	
18 3	Lapsi	Choerospondias axillaris	Nepali Hog Plum	66.0	6.1	
18 4	Lapsi	Choerospondias axillaris	Nepali Hog Plum	55.9	6.1	
18 5	Lapsi	Choerospondias axillaris	Nepali Hog Plum	61.0	9.1	
18 6	Lapsi	Choerospondias axillaris	Nepali Hog Plum	63.5	9.1	
18 7	Uttis	Alnus nepalensis	Nepal Black Cedar	55.9	9.1	
18 8	Chilaune	Schima wallichii	Needlewood Tree	45.7	7.6	
18 9	Uttis	Alnus nepalensis	Nepal Black Cedar	50.8	6.1	
19 0	Lapsi	Choerospondias axillaris	Nepali Hog Plum	48.3	9.1	
19 1	Uttis	Alnus nepalensis	Nepal Black Cedar	63.5	10.7	
19 2	Uttis	Alnus nepalensis	Nepal Black Cedar	58.4	6.1	
19 3	Uttis	Alnus nepalensis	Nepal Black Cedar	63.5	11.6	
19 4	Lapsi	Choerospondias axillaris	Nepali Hog Plum	66.0	10.7	
19 5	Uttis	Alnus nepalensis	Nepal Black Cedar	50.8	11.3	
19 6	Uttis	Alnus nepalensis	Nepal Black Cedar	76.2	13.7	
19 7	Uttis	Alnus nepalensis	Nepal Black Cedar	63.5	13.7	B1
19 8	Uttis	Alnus nepalensis	Nepal Black Cedar	76.2	13.7	B2
19 9	Uttis	Alnus nepalensis	Nepal Black Cedar	71.1	4.6	
20 0	Lapsi	Choerospondias axillaris	Nepali Hog Plum	76.2	7.6	
20	Chilaune	Schima wallichii	Needlewood Tree	78.7	13.7	B1
20 2	Uttis	Alnus nepalensis	Nepal Black Cedar	68.6	13.7	B2
20 3	Uttis	Alnus nepalensis	Nepal Black Cedar	63.5	16.8	

T- ID	Species Local Name	Scientific Name	English Name	DBH (cm)	Tree Height (m)	Bra nch
20 4	Uttis	Alnus nepalensis	Nepal Black Cedar	50.8	10.7	
20 5	Uttis	Alnus nepalensis	Nepal Black Cedar	73.7	16.8	
20 6	Lapsi	Choerospondias axillaris	Nepali Hog Plum	71.1	7.6	B1
20 7	Uttis	Alnus nepalensis	Nepal Black Cedar	76.2	18.3	B2
20 8	Uttis	Alnus nepalensis	Nepal Black Cedar	71.1	18.3	
20 9	Uttis	Alnus nepalensis	Nepal Black Cedar	94.0	21.3	
21 0	Uttis	Alnus nepalensis	Nepal Black Cedar	63.5	9.1	
21 1	Uttis	Alnus nepalensis	Nepal Black Cedar	55.9	7.6	
21 2	Tuni	Cedrela toona	Red Cedar	53.3	4.6	
21	Lapsi	Choerospondias axillaris	Nepali Hog Plum	66.0	6.1	
21 4	Tuni	Cedrela toona	Red Cedar	71.1	7.6	
21 5	Tuni	Cedrela toona	Red Cedar	58.4	6.1	
21 6	Chilaune	Schima wallichii	Needlewood Tree	76.2	9.1	
21 7	Chilaune	Schima wallichii	Needlewood Tree	76.2	13.7	
21 8	Chilaune	Schima wallichii	Needlewood Tree	254.0	16.8	
21 9	Uttis	Alnus nepalensis	Nepal Black Cedar	63.5	10.7	
22 0	Uttis	Alnus nepalensis	Nepal Black Cedar	50.8	9.1	
22 1	Uttis	Alnus nepalensis	Nepal Black Cedar	66.0	9.1	
22 2	Saur	Betula alnoides	Himalayan Birch	71.1	9.1	
22 3	Uttis	Alnus nepalensis	Nepal Black Cedar	50.8	7.6	
22 4	Uttis	Alnus nepalensis	Nepal Black Cedar	50.8	6.1	
22 5	Uttis	Alnus nepalensis	Nepal Black Cedar	61.0	10.7	
22 6	Uttis	Alnus nepalensis	Nepal Black Cedar	63.5	10.7	B1

T-ID	Species Local Name	Scientific Name	English Name	DBH (cm)	Tree Height (m)	Bra nch
22 7	Uttis	Alnus nepalensis	Nepal Black Cedar	76.2	9.1	B2
22 8	Uttis	Alnus nepalensis	Nepal Black Cedar	50.8	7.6	
22 9	Paiyun	Cerasus cerasoides	Wild Himalayan Cherry	68.6	7.6	
23 0	Paiyun	Cerasus cerasoides	Wild Himalayan Cherry	63.5	7.6	
23	Chilaune	Schima wallichii	Needlewood Tree	101.6	16.8	
23 2	Chilaune	Schima wallichii	Needlewood Tree	76.2	10.7	
23	Chilaune	Schima wallichii	Needlewood Tree	116.8	18.3	
23 4	Chilaune	Schima wallichii	Needlewood Tree	81.3	16.8	
23 5	Chilaune	Schima wallichii	Needlewood Tree	88.9	13.7	
23 6	Chilaune	Schima wallichii	Needlewood Tree	61.0	11.0	
23 7	Chilaune	Schima wallichii	Needlewood Tree	63.5	9.1	
23 8	Lapsi	Choerospondias axillaris	Nepali Hog Plum	68.6	7.6	
23 9	Chilaune	Schima wallichii	Needlewood Tree	76.2	9.1	
24	Chilaune	Schima wallichii	Needlewood Tree	71.1	18.3	
24 1	Chilaune	Schima wallichii	Needlewood Tree	88.9	18.3	
24 2	Chilaune	Schima wallichii	Needlewood Tree	96.5	16.8	
24	Chilaune	Schima wallichii	Needlewood Tree	76.2	9.1	
24 4	Chilaune	Schima wallichii	Needlewood Tree	88.9	15.2	
24 5	Chilaune	Schima wallichii	Needlewood Tree	76.2	15.2	
24 6	Chilaune	Schima wallichii	Needlewood Tree	76.2	15.2	
24 7	Chilaune	Schima wallichii	Needlewood Tree	76.2	10.7	
24 8	Siris	Albizia lebbeck	Indian Siris	88.9	16.8	

T-ID	Species Local Name	Scientific Name	English Name	DBH (cm)	Tree Height (m)	Bra nch
24 9	Lapsi	Choerospondias axillaris	Nepali Hog Plum	86.4	13.7	
25 0	Chilaune	Schima wallichii	Needlewood Tree	61.0	9.1	
25 1	Paiyun	Cerasus cerasoides	Wild Himalayan Cherry	61.0	9.1	
25 2	Paiyun	Cerasus cerasoides	Wild Himalayan Cherry	71.1	9.1	
25 3	Lapsi	Choerospondias axillaris	Nepali Hog Plum	86.4	13.7	
25 4	Uttis	Alnus nepalensis	Nepal Black Cedar	66.0	9.1	
25 5	Paiyun	Cerasus cerasoides	Wild Himalayan Cherry	76.2	13.7	
25 6	Chilaune	Schima wallichii	Needlewood Tree	121.9	18.3	
25 7	Chilaune	Schima wallichii	Needlewood Tree	83.8	10.7	
25 8	Chilaune	Schima wallichii	Needlewood Tree	71.1	11.9	
25 9	Chilaune	Schima wallichii	Needlewood Tree	76.2	10.7	
26 0	Chilaune	Schima wallichii	Needlewood Tree	91.4	16.8	
26 1	Chilaune	Schima wallichii	Needlewood Tree	76.2	16.8	
26 2	Chilaune	Schima wallichii	Needlewood Tree	76.2	15.2	
26 3	Paiyun	Cerasus cerasoides	Wild Himalayan Cherry	101.6	16.8	
26 4	Paiyun	Cerasus cerasoides	Wild Himalayan Cherry	66.0	10.7	
26 5	Siris	Albizia lebbeck	Indian Siris	96.5	15.2	B1
26 6	Chilaune	Schima wallichii	Needlewood Tree	55.9	11.9	В2
26 7	Chilaune	Schima wallichii	Needlewood Tree	76.2	12.2	
26 8	Chilaune	Schima wallichii	Needlewood Tree	66.0	13.7	
26 9	Chilaune	Schima wallichii	Needlewood Tree	53.3	9.1	

T- ID	Species Local Name	Scientific Name	English Name	DBH (cm)	Tree Height (m)	Bra nch
27	Chilaune	Schima wallichii	Needlewood Tree	71.1	13.7	
27 1	Chilaune	Schima wallichii	Needlewood Tree	63.5	13.7	
27 2	Chilaune	Schima wallichii	Needlewood Tree	63.5	11.6	
27	Chilaune	Schima wallichii	Needlewood Tree	88.9	15.2	
27 4	Chilaune	Schima wallichii	Needlewood Tree	66.0	9.1	
27 5	Lapsi	Choerospondias axillaris	Nepali Hog Plum	81.3	9.1	
27 6	Paiyun	Cerasus cerasoides	Wild Himalayan Cherry	88.9	12.8	B1
27 7	Paiyun	Cerasus cerasoides	Wild Himalayan Cherry	73.7	4.6	B2
27 8	Chilaune	Schima wallichii	Needlewood Tree	76.2	9.1	
27 9	Paiyun	Cerasus cerasoides	Wild Himalayan Cherry	114.3	12.2	
28 0	Chilaune	Schima wallichii	Needlewood Tree	88.9	7.6	
28 1	Chilaune	Schima wallichii	Needlewood Tree	114.3	15.2	
28 2	Lapsi	Choerospondias axillaris	Nepali Hog Plum	91.4	7.6	
28 3	Lapsi	Choerospondias axillaris	Nepali Hog Plum	71.1	7.6	
28 4	Lapsi	Choerospondias axillaris	Nepali Hog Plum	101.6	7.6	B1
28 5	Chilaune	Schima wallichii	Needlewood Tree	76.2	4.6	B2
28 6	Chilaune	Schima wallichii	Needlewood Tree	63.5	9.1	
28 7	Uttis	Alnus nepalensis	Nepal Black Cedar	88.9	9.1	B1
28 8	Uttis	Alnus nepalensis	Nepal Black Cedar	66.0	10.7	B2
28 9	Uttis	Alnus nepalensis	Nepal Black Cedar	66.0	10.7	
29 0	Uttis	Alnus nepalensis	Nepal Black Cedar	50.8	6.1	
29 1	Uttis	Alnus nepalensis	Nepal Black Cedar	50.8	7.6	

T-ID	Species Local Name	Scientific Name	English Name	DBH (cm)	Tree Height (m)	Bra nch
29 2	Uttis	Alnus nepalensis	Nepal Black Cedar	66.0	7.6	
29 3	Lapsi	Choerospondias axillaris	Nepali Hog Plum	101.6	9.1	
29 4	Chilaune	Schima wallichii	Needlewood Tree	76.2	9.1	
29 5	Uttis	Alnus nepalensis	Nepal Black Cedar	76.2	10.7	
29 6	Uttis	Alnus nepalensis	Nepal Black Cedar	53.3	4.6	
29 7	Uttis	Alnus nepalensis	Nepal Black Cedar	66.0	4.6	
29 8	Uttis	Alnus nepalensis	Nepal Black Cedar	63.5	9.1	
29 9	Uttis	Alnus nepalensis	Nepal Black Cedar	68.6	9.1	

# **Number of Trees and Volume of Trees** (Obtained from Sub Division Forest Office, Khopasi)

	Species		Number and Volume of Trees				
S.N.	Local Name	Scientific Name	Tree	Volume	Pole	Volume	
1	Saur	Betula alnoides			1.0	4.4	
2	Tuni	Cedrela toona	10	111.78	10.0	33.4	
3	Jamun	Eugenia jambolana	1	7.17	1.0	2.5	
4	Paiyun	Cerasus cerasoides	11	202.27	10.0	46.6	
5	Pate Salla	Pinus patula			2.0	1.2	
6	Chilaune	Schima wallichii	42	691.91	55.0	256.2	
7	Siris	Albizia lebbeck	2	25.85			
8	Lapsi	Choerospondias axillaris	16	489.15	13.0	40.2	
9	Uttis	Alnus nepalensis	19	409.79	83.0	296.2	
10	Kapur	Cinnamomum glanduliferum	1	31.15			
11	Khotesalla	Pinu roxburghii		_	21.0	30.8	
12	Hade Bayer	Ziziphus incurva			1.0	4.1	
	Total		102	1969.07	197	715.55	

#### Species Diversity Index (Shannon Weiner Diversity Index for trees to be cut)

Species Local Name	Number of Individuals (n)	Proportion (Pi=n/N)	lnPi	Pi*lnPi
Chilaune	97	0.324	-1.1257	-0.3652
Hade Bayer	1	0.003	-5.7004	-0.0191
Jamun	2	0.007	-5.0073	-0.0335
Kapur	1	0.003	-5.7004	-0.0191
Khotesalla	21	0.070	-2.6559	-0.1865
Lapsi	29	0.097	-2.3331	-0.2263
Paiyun	21	0.070	-2.6559	-0.1865
Pate Salla	2	0.007	-5.0073	-0.0335
Saur	1	0.003	-5.7004	-0.0191
Siris	2	0.007	-5.0073	-0.0335
Tuni	20	0.067	-2.7047	-0.1809
Uttis	102	0.341	-1.0755	-0.3669
Grand Total	299	1.00	-44.67	1.67

#### NTFPs Found within and nearby the Project Area

SN	Local Name	Scientific Name	Use	Remarks
2	Jamun	Syzygium cumini	Local Medicine	
3	Bayar	Ziziphus mauritiana	Edible fruit	
4	Githa	Edible fruit	NA	
5	Karma	Adina cordifolia	Local Medicine	
6	Chhatiwan	Alstonia scholaris	Local Medicine	Rare in IUCN red list
7	Harro	Terminalia chebula	Local Medicine	
8	Barro	Terminalia bellirica	Local Medicine	
9	Bel	Aegle marmelos	Local Medicine	
10	Titepati	Artemisia dubia	Local Medicine	
11	Bamboo	Dendrocalamus sps	Local Medicine	
12	Ganaunejhar	Agaratum Coniziod	Local Medicine	
13	Rajbriksha	Cassia fistula	Local Medicine	

# APPENDIX 14: PUBLIC CONSULTATION, INTERACTION MEETING AND FOCUS GROUP DISCUSSION MINUTES

#### 14.1 Socio-Economic and Cultural Environment Survey

The following are the method adopted and the concerns shared from the different forms of interaction/ consultation meetings as;

S.N.	Type of Meeting	Date	Location	Representation Area of Participants	Participation
1.	Interaction Meeting	30 May 2022 29 June 2022	Panauti Municipality Office	Mayor, D. Mayor CAO, Engineer, DPO, Panauti, Official, Ward Chairpersons of 5 and 6, NPA and Consultant	9
2.	Public Consultation	10 February 2023	Ward No. 4, 5 & 6 of Panauti Municipality	Public Stakeholders from IIA, Chairperson of Ward No. 4, 5 & 6	24
3.	Key Informant Interview	10 February 2023	Panauti Municipality Office	Mayor and Ward Chairperson of Ward No. 6 and Secretary of Devisthan (Kha) CF of Panauti Municipality	4
4.	Focus Group Discussion	11 February 2023	Dalinchowk, Ward No. 6 of Panauti Municipality	Devisthan (Kha) CF and Women's Group	35

#### **A. Public Consultation Meeting**

The public consultation meeting organized in Dalinchowk Ward office-6, Panauti Municipality on 10<sup>th</sup> Feb. 2023 A.D. (28/10/2079 B.S.). The meeting was conducted in the presence of ward chairperson. Other participants were from the School Principal, Chief Officer from Health post, Study Team, Ward Member etc. and the local stakeholders. Altogether 13 people participated. The main purpose of the consultation meeting was to aware the local people of Dalinchowk and ward no. 6 local residents about the proposed project, to disseminate the project related information and to help to identify the possible environmental and social impacts, information and opinions of the local public and stakeholders regarding the project.

The major Issues raised during public consultation Meeting are as follows:

- 1. It is necessary to minimize the impact, offer suitable alternatives, and proceed with the project's construction in consultation with the locals because the construction will have an impact on the roads, water supply, forests, and religious sites that the locals have been using.
- 2. Job opportunities will be prioritized for local based on their skill and qualifications.
- 3. Project will support for Goraknath School.

4. Local people are ready to coordinate during project construction.

The second Public Consultation meeting was organized in Thado Bato Ward office-4, Panauti Municipality on 11<sup>th</sup> Feb. 2023 A.D (29/10/2079 B.S). The meeting was conducted in the presence of Panuti Municipality ward number 4 and 5 chairpersons. Other participants were residents, businessperson, ward member and different occupational background. Altogether 11 people have been participated. The main purpose of the consultation meeting was to aware the local people of Thado Bato and ward no. 4 local residents about the proposed project, to disseminate the project related information and to help to identify the possible environmental and social impacts, information and opinions of the local public and stakeholders regarding the project.

The major Issues raised during public consultation Meeting are as follows:

- 1. It is necessary to plan alternatives that will have less of an impact on the locals' access to water, roads, and other resources due to the project construction.
- 2. During the construction of a project, precautions must be taken to minimize the impact from the noise, air, and water pollution.
- 3. Compensation should be paid to locals if project constructions activities create floods in Punayamata river and damage crops.
- 4. During the project construction, proper coordination should be developed with local people and respective ward officials.
- 5. The east-west road of the project site should be maintained at the feeder level standard and project should make road access to local people nearby project boundary.

#### **B.** Focused Group Discussion

Focus Group Discussions were carried out to understand the existing socio-economic and cultural situation and identify issues and concerns of the local people regarding the project. During discussion, information about public utilities, health facilities, educational situation, energy consumption pattern, agricultural practice and related infrastructures, market status, existing market value of land and houses has been discussed. Since no marginalized groups, caste ethnicity groups were residing nearby the proposed project boundary Focused Group Discussion was organized among the Women's Group and Devisthan Community Forest User Committee on 11<sup>th</sup> Feb. 2023 A.D (29/10/2079 B.S). The Discussion was chaired by ward chairperson of Panauti Municipality ward-6. Altogether 35 people participated. The list of the participants is presented in the Attendant sheet.

The major issues raised during the Focus Group Discussion are as follows:

- 1. Alternative measures should be provided to the locals after losing access to the community forest.
- 2. Awareness programs should be implemented as women and children may be vulnerable to violence and abuse in society during project implementation.
- 3. Women should be given preference for employment during project construction based on their skills and capabilities.

- 4. Skill development training and alternative income-generating programs should be given to those households whose access to forest areas is obstructed.
- 5. Along with the construction of the project, the necessary support for infrastructure development in the affected areas should be provided.

#### C. Key Informant Interview

Key Informant Interviews were conducted with different stakeholders followed by asking them for their opinion on potential environmental impacts and seeking their advice on measures that could be taken up by the project. Some of the mitigation measures and environment enhancement activities recommended in Chapter VIII were based on these discussions. The summary of the discussions are as follows:

- 1. The project's physical layout should honor Panauti's cultural traditions.
- 2. Priority should be given to consuming locally available goods and workforce during the project construction.
- 3. Appropriate measures should be taken to lessen the issue that were likely to seen during the construction and implementation such as accidents, violence, population growth, traffic congestion etc.
- 4. Skill development training and income-generating programs should be organized to local along with project construction.
- 5. The project should aware their staff to respect the local culture and traditions.

आज मिन अरहहराल भादा वह जाने अनुभानी दिन वाहिए प्रशी प्रक्रिशान प्रतिकार महाराज्ञ का त्यारत महाराज्ञ का त्यार्थित का त्यार्थ

भाग प्रसार आचार्य वहां अर्थम प्रतीते - ६ वडा वर्गमर विपक् विद्रमां वेडा मधार्थ बातेहद् प्रामाद सापनीता वडा मिन ।। विकास विमलसीया स्थानीय (द्राउभर) प्रीती-६ अतुच के सी स्थालीय (मीरस्य) प्रतीती-६ मनी ज सापमेश स्थानीय (इबी) वर्तीनी-4-0 दियम साइ स्थानीय (स्वास्था प्रमुख) पत्नीती-५ इश्वर बहादुर भण्डारी भी मीरख्या प साधारभुत विसादम - प्रधादाहमापक 9) कुमार बस्तेन स्थातीम पत्तीती - ६ क) राहीता उपनेसल लालकेंडी सदतकता पत्रीती, ह कार्युट् अपरेट्र प्रतीती ह रे १९) क्योनिता वन्तारा वातावरम् त्वा । रिक्च इत्वनेम 92) सुदिव विकि 92) दिगद्य अधिकारी (ANI JAILE)

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व) आयोजना निर्माण बाद स्थानियवासीने उपभी गर्न आहेटहेने व्यानेवानी, वाली। वसवात , धार्मिक ध्यलमा पर्ने माने अनाम ह्यूनिकाला अपि अनित विकाल कि अमोत्रमूको स्थानिय तह, स्थानियताकी की सम्बद्ध अपि कार्येत्रनी विभाग अमेरी वहाउत पत

व ) आयोजना निर्माणमा (आनियलाई सिप (हामताको आवाटमा केनआर) 34 not El SICISITY 47 1

3) जीएममाथ कत विभा तात्वार र लेलकु मेमन निर्माणमा अमोनमानी

(तटमेम अर्मिय)

8) कार्योत्तता निर्माणमा (ज्यानियको साथ सहयोग अर्निपर)

अ) आगीतमा स्थमिक मर्दाने देवी। शाम(छ) मामुम्यिक वनको द न कन्छ को ११६ में किसामकोशम्भन अदे आहरहेकी राज्याको उपयुक्त विकामपका कार्जि कामीत्रमाले सम्बद्धीत निकाय (को सम्बद्धा अपी अभावित धरिवादकी आग सम्बोधनमा सहयोग गरितयने।

आज मित्री २०६९ मान माद्य या गरी यानिवासी भीत बार्विड्स अहरी भक्रीकार प्रतिकात महावनगढ्न कारुभावते प्रस्तावक रहेकी राविद्य असी प्रक्रीश्व प्रतिष्यत पत्तीनी कार्यप्रमान्यीक अधीवताकी वातावटा प्रभाव मुन्याद्रत प्रतिवेदत त्यारीको क्रीनक्रीनाम्। न्यामेपव्यान्यीय विक्ला पत्में वी वा पा ह काडी बारोगा यसे वडाका वडा अस्मक भी दिया पाहरू अमिनी क्षेत्र अल्पानमानी वा प्रमु सम्बद्धी कलाम्न जारी गांच भिष्णे दाहाल सङ्ग्री अगित्रो)। विषक्षे दाहाल सङ्ग्री अगित्रो)। विषक्षे दाहाल सङ्ग्री हैगात। सहा कार्यनाम् पः सः ४ प्रकाश वस्ति। वहा महस्य विमीव वहमा। वयतमाय प्रताप ४ मडनारी रिन्जि प्रमार् करनेर 21 उस्ते प्रसाद कहतरा 1) रविहद् जहमरा Sichts 33 विमीक रवजी वडा कार्यक्य प समा-४ नडा अदयत विश्वत व नीमरी D2901 41739 POTED MEDONE Honor Aller Reserrch Enclose क) न्याम हिली वातावला विन Research Enclare 99) 217/2 7/141 Research Enclave dialdzus fac

दालीिक्तक) राय धुधावहर. आयोजना निर्माण बात स्थानियवातीने प्रयोग गर्द आरहेनो बाती, अबिर पानी, वन संगंकी पहुँच काण्यतमा पर्ने जाने असामों क्या गर्ने विकल्प तयार भरी दनायोजन। अपि चनी व ताउन पर्ने

व) आमीत्रता निर्मागत्रे मल, हनती, वायु प्रदूषण कम् जाने असित

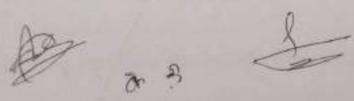
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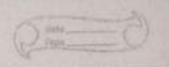
3) क्षणीयमाकाः व्याप्ति निर्माण जाति संस्प्रमा, पुला, भवम तथा जणा सन्माद्रमे कारी कार्यले पुल्यमामा स्वीत्मामा वहाव वही वार्ग तथा . स्वेतीयोज्य जणा। वालीमा धारी पुत्रमा स्वीपुर्ति विनुष्मे।

४) श्रीयोजना निर्माण गरी स्थानिय तह वडा स्थानियवामी सर्ग सम्बय

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य) कार्योतमा एथमकी पूर्व पश्चिम को तेड प्रिड स्त्रकी सेड लड़क कायम अर्तिपर्ते तथा आबीतन। ध्यन वरपर स्थानिभलारि आवत अवत अर्वि सड्ड निर्मात असिद्धि पर्ने।





नाम मिलि १९६८ राम मारा का उसे कार्यनाइया दित राप करें।

रात करा ने ह का दका ना का काम भी शिम प्रवाद आनेते का मारिन कार्यका मिलि का मारिन का कार्यका भी ता करा कर प्राणिक का उपमोक्ता समिति का मारिन कार्यका स्थान करा करा करा कर प्राणिक कर प्राणिक कर प्राणिक कर प्राणिक कर प्राणिक करा करा करा करा कर कार्यका करा करा कर कार्यका करा करा कर कार्यका करा कर कार्यका करा कर कार्यका करा करा करा कर कार्यका करा करा कर कार्यका करा कर कार्यका करा कर कार्यका करा कर कर कार्यका करा कर कर कार्यका करा कर कार्यका कर कर कार्यका करा कर कर कार्यका कर कर कर कार्यका कर कर कार्यका कर कर कार्यका कर कर कार्यका कर कर कार्यका कार्यका कर कार्यका कर कार्यका कर कार्यका कर कार्यका कर कार्यका कार्यका कर कार्यका कार्यका कार्यका कर कार्यका कर कार्यका कार्यका कर कार्यका कर कार्यका कर कार्यका कार्यका

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# APPENDIX 15: DEEDS OF ENQUIRY (MUCHULKAS) OF NOTICE PASTING AND INVITATION LETTER FOR PUBLIC HEARING

श्री राष्ट्रिय प्रहरी प्रशिक्षण प्रतिष्ठान महाराजगञ्ज, काठमाण्डौं नेपाल।

# विषय: सार्वजनिक सुनुवाइको सूचना टाँस गरिएको।

उपरोक्त सम्बन्धमा त्यस कार्यालयको मिति २०७९/०९/११ गतेको प्राप्त पत्रानुसार बागमती प्रदेश, काभ्रेपलाञ्चोक जिल्लाको पनौती नगरपालिका, वडा नं. ६ मा त्यस कार्यालय प्रस्तावक रही निर्माण तथा सञ्चालन गर्न लागिएको "राष्ट्रिय प्रहरी प्रशिक्षण प्रतिष्ठान, पनौती, काभ्रेपलाञ्चोक आयोजना" को वातावरणीय प्रभाव मूल्याङ्कन (Environmental Impact Assessment-EIA) प्रतिवेदन तयारीको सिलसिलामा आयोजना गर्न लागिएको सार्वजनिक सुनुवाई सम्बन्धी सार्वजनिक सूचना यस काभ्रेपलान्चोक जिल्ला नगरपालिका, वडा नं काभ्रेपलान्चोक जिल्ला लगर लगर लगर काभ्रेपलान्चे कार्यलयमा आज

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श्री राष्ट्रिय प्रहरीं प्रशिक्षण प्रतिष्ठान महाराजगञ्ज, काठमाण्डौं नेपाल ।

# विषय: सार्वजनिक सुनुवाइको सूचना टाँस गरिएको।

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श्री राष्ट्रिय प्रहरी प्रशिक्षण प्रतिष्ठान महाराजगञ्ज, काठमाण्डौं नेपाल।

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हस्ताक्षरः (१०००) १२:६१ १००० पदः स्टामक किन्द्रिश

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श्री राष्ट्रिय प्रहरी प्रशिक्षण प्रतिष्ठान महाराजगञ्ज, काठमाण्डौं नेपाल ।

### विषय: सार्वजनिक सुनुवाइको सूचना टाँस गरिएको।

उपरोक्त सम्बन्धमा त्यस कार्यालयको मिति २०७९/०९/११ गतेको प्राप्त पत्रानुसार बागमती प्रदेश, काभ्रेपलाञ्चोक जिल्लाको पनौती नगरपालिका, वडा नं. ६ मा त्यस कार्यालय प्रस्तावक रही निर्माण तथा सञ्चालन गर्न लागिएको "राष्ट्रिय प्रहरी प्रशिक्षण प्रतिष्ठान, पनौती, काभ्रेपलाञ्चोक आयोजना" को वातावरणीय प्रभाव मूल्याङ्कन (Environmental Impact Assessment-EIA) प्रतिवेदन तथारीको सिलसिलामा आयोजना गर्न लागिएको सार्वजनिक सुनुवाई सम्बन्धी सार्वजनिक सूचना यस काभ्रेपलाञ्चोक जिल्ला प्रसिद्धी नगरपालिका, वडा नं ६ कार्यलयमा आज मिति २०७९/०९/.१५ तहा गते दाँस गरिएको व्यहोरा प्रमाणित गर्दछ।

हस्ताक्षरः चित्रं प्रशास्त्रीयः साधकीयः गमः राजेन्द्रं प्रशास्त्रस्याधकीयः पदः साचित्रं (कार २ १८१०) THE PARTY OF THE P



मेपाल सरकार गृह मन्त्रालय

# जिल्ला प्रशासन कार्यालय

E-mail daokavre@gmail.com

प.सं.- ०७९/८० च.नं.३८३४.



मिति:-२०७९/०९/१३

विषय:- सूचना टाँस गरी जानकारी पठाइएको बारे ।

श्री राष्ट्रिय प्रहरी प्रशिक्षण प्रतिष्ठान, महाराजगंज, काठमाडौँ ।

प्रस्तुत विषयमा तहाँ प्रतिष्ठानको प.सं. २०७९/०८०, च.नं. ९३ मिति २०७९/०९/११ को सूचना यस कार्यालयमा प्राप्त भई सूचना पाटीमा टाँस भएको व्यहोरा जानकारीको लागि अनुरोध छ ।

(राम प्रसाद भट्टराई)

प्रशासकीय अधिकृत

प्रशासनीय अधिकृत

श्री राष्ट्रिय प्रहरी प्रशिक्षण प्रतिष्ठान महाराजगञ्ज, काठमाण्डौं नेपाल ।

## विषय: सार्वजनिक सुनुवाइको सूचना टाँस गरिएको।

उपरोक्त सम्बन्धमा त्यस कार्यालयको मिति २०७९/०९/११ गतेको प्राप्त पत्रानुसार बागमती प्रदेश, काभ्रेपलाञ्चोक जिल्लाको पनौती नगरपालिका, वडा नं. ६ मा त्यस कार्यालय प्रस्तावक रही निर्माण तथा सञ्चालन गर्न लागिएको "राष्ट्रिय प्रहरी प्रशिक्षण प्रतिष्ठान, पनौती, काभ्रेपलाञ्चोक आयोजना" को वातावरणीय प्रभाव मूल्याङ्कन (Environmental Impact Assessment-EIA) प्रतिवेदन तथारीको सिलसिलामा आयोजना गर्न लागिएको सार्वजनिक सुनुवाई सम्बन्धी सार्वजनिक सूचना यस काभ्रेपलान्चोक जिल्ला प्राप्तिको नगरपालिका, वडा नं कार्यलयमा आज मिति २०७९/०९/. १ वर्ग गते टाँस गरिएको व्यहोरा प्रमाणित गर्दछ ।

हस्ताक्षर मुन्तून न्या धाने नाम: ब्रागन न्या धाने पदः की सं

श्री राष्ट्रिय प्रहरी प्रशिक्षण प्रतिष्ठान महाराजगञ्ज, काठमाण्डौं नेपाल ।

# विषय: सार्वजनिक सुनुवाइको सूचना टाँस गरिएको।

हस्ताक्षरः ८८/ नामः अपूर्णलाः अरुडारी पदः प्रः हर OTHER STATE OF THE STATE OF THE

श्री राष्ट्रिय प्रहरी प्रशिक्षण प्रतिष्ठान महाराजगञ्ज, काठमाण्डौं नेपाल।

विषय: सार्वजनिक सुनुवाइको सूचना टाँस गरिएको।

उपरोक्त सम्बन्धमा त्यस कार्यालयको मिति २०७९/०९/११ गतेको प्राप्त पत्रानुसार बागमती प्रदेश, काभ्रेपलाञ्चोक जिल्लाको पनौती नगरपालिका, वडा नं. ६ मा त्यस कार्यालय प्रस्तावक रही निर्माण तथा सञ्चालन गर्न लागिएको "राष्ट्रिय प्रहरी प्रशिक्षण प्रतिष्ठान, पनौती, काभ्रेपलाञ्चोक आयोजना" को वातावरणीय प्रभाव मूल्याङ्कन (Environmental Impact Assessment-EIA) प्रतिवेदन तथारीको सिलसिलामा आयोजना गर्न लागिएको सार्वजनिक सुनुवाई सम्बन्धी सार्वजनिक सूचना यस काभ्रेपलान्चोक जिल्ला नगरपालिका, वडा नं नगरपालिका, कार्यलयमा आज मिति २०७९/०९/.दश्च... गते टाँस गरिएको व्यहोरा प्रमाणित गर्दछु।

हस्ताक्षरः नामः गुडा क श्रुटाद्रीकरे पदः का ज्यु प्राप्ती



कार्यालय/संस्थाको छाप



पत्र संख्या:२०७९/८०

#### नेपूर्ण हैं। गुर्जू मह्यापन राष्ट्रिय प्रहरी प्रसिद्धा प्रतिष्ठान (काभ्रे क्रियोजनमञ्जय स्थित) रहते प्रावस्य सहीत्राक्ष्य

कोनः - ०१-४४१०५९७ ०१-४४११६७५ ०१-४४१६१२५

महाराजगंज,काठमाण्डीं मिति: २०७९/०९/११ गते ।

विषय: सार्वजनिक सुनुवाईको जानकारी तथा उपस्थिति सम्बन्धमा।

श्री गृह मन्त्रालय, सिंहदरवार, काठमाण्डौं।

प्रस्तुत विषयमा यस कार्यालय प्रस्तावक रही निर्माण गर्न लागिएको "राष्ट्रिय प्रहरी प्रशिक्षण प्रतिष्ठान पनौती, काभ्रेपलान्चोक आयोजना" को वातावरणीय प्रभाव मूल्यांकनको अध्ययनको सिलसिलामा नेपाल सरकार वन तथा वातावरण मन्त्रालयद्वारा स्वीकृत वातावरणीय प्रभाव मूल्यांकनको क्षेत्र निर्धारण तथा कार्यसूची प्रतिवेदनहरु र वातावरण संरक्षण नियमावली, २०७७ को नियम ६ बमोजिम आयोजना प्रभावित हुने क्षेत्रमा सार्वजनिक सुनुवाईको आयोजना गरी राय सुझाव संकलन गर्नुपर्ने अएकोले निम्न बमोजिमको मिति, समय र स्थानमा सार्वजनिक सुनुवाई कार्यक्रम आयोजना गरिने अवगत गराउँदछु । साधै उक्त कार्यक्रममा तालुक मन्त्रालयबाट प्रतिनिधि खटाई पठाईदिनुहुन सादर अनुरोध गर्दछु । सार्वजनिक सुनुवाइको कार्यक्रमको सार्वजनिक सूचनाको प्रति यसै पत्र साथ संलग्न छ।

निम्नः

स्थानः पनौती नगरपालिका वडा नं. ६, दलिन्चोक स्थित राष्ट्रिय प्रहरी प्रशिक्षण प्रतिष्ठान परियोजनाको

निर्माणस्थल

मिति: २०७९/०९/१६ गते

\_\_\_\_\_\_ समय: विहानको ११:०० बजे

बोधार्थः

श्री ने.प्र.प्र.का., प्रहरी महानिरीक्षकको सचिवालय, नक्साल। श्री ने.प्र.प्र.का., भौतिक पूर्वोधार निर्देशनालय, नक्साल। र्हार्यकारी निर्देशक

(सर्हकुल बहादुर थापा)

प्रहरी अतिरिक्त महानिरीक्षक



पत्र संख्या:२०७९/८०

# नेपालुबारिकी के गृह मून्यू क्या के मून्यू क्या के प्राप्त के प्रा

क्षे-४४६६६२५ ०१-४४६६६७५ ०१-४४२०५१७

महाराजगंज,काठमाण्डौं मिति: २०७९/०९/११ गते ।

विषयः सार्वजनिक सुनुवाईको जानकारी तथा उपस्थिति सम्बन्धमा।

श्रीमान् महाशाखा प्रमुखन्यू, वातावरण तथा जैविक विविधता महाशाखा, वन तथा वातावरण मन्त्रालय, सिंहदरबार, काठमाण्डी।

प्रस्तुत विषयमा यस कार्यालय प्रस्तावक रही निर्माण गर्न लागिएको "राष्ट्रिय प्रहरी प्रशिक्षण प्रतिष्ठान पनौती, काभ्रेपलान्चोक आयोजना" को वातावरणीय प्रभाव मूल्यांकनको अध्ययनको सिलसिलामा नेपाल सरकार वन तथा वातावरण मन्त्रालयद्वारा स्वीकृत वातावरणीय प्रभाव मूल्यांकनको क्षेत्र निर्धारण तथा कार्यसूची प्रतिवेदनहरु र वातावरण संरक्षण नियमावली, २०७७ को नियम ६ बमोजिम आयोजना प्रभावित हुने क्षेत्रमा सार्वजनिक सुनुवाईको आयोजना गरी राय सुझाव संकलन गर्नुपर्ने भएकोले निम्न बमोजिमको मिति, समय र स्थानमा सार्वजनिक सुनुवाई कार्यक्रम आयोजना गरिने अवगत गराउँदछु । साथै उक्त कार्यक्रममा तालुक मन्त्रालयको प्रतिनिधि खटाई पठाईदिनुहुन अनुरोध गर्दछु । सार्वजनिक सुनुवाइको कार्यक्रमको सार्वजनिक सूचनाको प्रति यसै पत्र साथ संलग्न छ।

#### निम्नः

स्थान: पनौती नगरपालिका वडा नं. ६, दलिन्चोक स्थित राष्ट्रिय प्रहरी प्रशिक्षण प्रतिष्ठान परियोजनाको निर्माणस्थल

मिति: २०७९/०९/१६ गते

समय: विहानको ११:०० बजे

#### बोघार्थः

श्री ने.प्र.प्र.का., प्रहरी महानिरीक्षकको सश्चिवालय, नक्साल। श्री ने.प्र.प्र.का., भौतिक पूर्वाधार निर्देशनालय, नक्साल। कार्यकारी जिदेशक

(अहंकुल बहादुर थापा)

प्रहरी अतिरिक्त महानिरीक्षक



पत्र संख्या:२०७९/८०

महाराजगंज,काठमाण्डीं मिति: २०७९/०९/११ गते।

विषय: सार्वजनिक सुनुवाईको जानकारी तथा उपस्थिति सम्बन्धमा।

श्रीमान् महानिर्देशकज्यु, वातावरण विभाग, बबरमहल, काठमाण्डौं।

प्रस्तुत विषयमा यस कार्यालय प्रस्तावक रही निर्माण गर्न लागिएको "राष्ट्रिय प्रहरी प्रशिक्षण प्रतिष्ठान पनौती, काभ्रेपलान्चोक आयोजना" को वातावरणीय प्रभाव मृत्यांकनको अध्ययनको सिलसिलामा नेपाल सरकार वन तथा वातावरण मन्त्रालयद्वारा स्वीकृत वातावरणीय प्रभाव मूल्यांकनको क्षेत्र निर्धारण तथा कार्यसूची प्रतिवेदनहरु र वातावरण संरक्षण नियमावली, २०७७ को नियम ६ बमोजिम आयोजना प्रभावित हुने क्षेत्रमा सार्वजनिक सुनुवाईको आयोजना गरी राय सुझाव संकलन गर्नुपर्ने भएकोले निम्न बमोजिमको मिति, समय र स्थानमा सार्वजनिक सुनुवाई कार्यक्रम आयोजना गरिने अवगत गराउँदछु । साथै उक्त कार्यक्रममा तहाँ विभागबाट प्रतिनिधि खटाई पठाईदिनुहुन अनुरोध गर्दछु । सार्वजनिक सुनुवाइको कार्यक्रमको सार्वजनिक स्चनाको प्रति वसै पत्र साथ संलग्न छ।

निम्नः

स्थान: पनौती नगरपालिका वडा नं. ६, दलिन्चोक स्थित राष्ट्रिय प्रहरी प्रशिक्षण प्रतिष्ठान परियोजनाको

निर्माणस्थल

मिति: २०७९/०९/१६ गते

समय: विहानको ११:०० वजे

बोधार्थः

श्री ने.प्र.प्र.का., प्रहरी महानिरीक्षकको सचिवालय, नक्साल। श्री ने.प्र.प्र.का., भौतिक पूर्वाधार निर्देशनालय, नक्साल।

(सहकुल बहादुर थापा) प्रहरी अतिरिक्त महानिरीक्षक



# राष्ट्रिय प्रहरी प्रशिक्षण प्रतिष्ठान (काभ्रे परियोजना उप-शाखा)

पत्र संख्या:२०७९/८०

च.नं. US

कीन: ०१-४४११६७५ ०१-४४१६६७५

महाराजगंज,काठमाण्डॉ मिति: २०७९/०९/११ गते।

श्रीमान् डिभिजन वन अधिकृतज्यु, डिभिजन वन कार्यालय, घुलिखेल, काभ्रेपलान्चोक।

# विषय: सार्वजनिक सुनुवाइको सूचना टाँस गरी जानकारी उपलब्ध गराईदिने सम्बन्धमा।

उपरोक्त सम्बन्धमा बागमती प्रदेशको काभ्रेपलान्चोक जिल्ला अन्तर्गत पनौती नगरपालिका वडा नं. ६ मा यस कार्यालय प्रस्तावक रही निर्माण तथा सञ्चालन गर्न लागिएको राष्ट्रिय प्रहरी प्रशिक्षण प्रतिष्ठान, पनौती, काभ्रेपलाञ्चोक आयोजनाको वातावरणीय प्रभाव मूल्याङ्कन (Environmental Impact Assessment -EIA) गर्ने कार्य रिसर्च इन्क्लेब प्रा. लि.ले गरिरहेको व्यहोरा अनुगेध छ ।

वातावरण संरक्षण ऐन, २०७६ र वातावरण संरक्षण नियमावली, २०७७ ले तोके यमोजिम राष्ट्रिय प्रहरी प्रशिक्षण प्रतिष्ठान, पनौती, काभ्रेपलाञ्चोक आयोजनाको वातावरणीय प्रभाव मूल्याङ्कन (EIA) अध्ययन प्रतिवेदन तयारी सिलसिलमा आयोजना क्षेत्रमा सार्वजनिक सुनुवाई कार्यक्रम गर्नुपर्ने भएकोले यसै पत्र साथ संलग्न राखी पठाईएको सार्वजनिक सुनुवाई सम्बन्धी सूचना तहाँ कार्यालयको सूचना पाटीमा टाँस गरी सूचना टाँसको लिखित जानकारी उपलब्ध गराईदिनुहुन हार्दिक अनुरोध गर्दछ।

बोघार्थः

श्री ने.प्र.प्र.का., प्रहरी महानिरीक्षकको सचिवालय, नक्साल। श्री ने.प्र.प्र.का., भौतिक पूर्वाधार निर्देशनालय, नक्साल। कार्यकारी निर्देशक (संहकुल बहाद्र थापा)



# (काभ्रे परियोजना उप-शाखा)

महाराजगंज,काठमाण्डी मिति: २०७९/०९/११ गते।

च.नं. ८ ८ पत्र संख्या:२०७९/८०

विषय: सार्वजनिक सुन्वाईको जानकारी तथा उपस्थिति सम्बन्धमा।

श्रीमान् डिभिजन वन अधिकृतज्यु, डिभिजन वन कार्यालय, धुलिखेल, काभ्रेपलान्चोक।

प्रस्तुत विषयमा यस कार्यालय प्रस्तावक रही निर्माण गर्न लागिएको "राष्ट्रिय प्रहरी प्रशिक्षण प्रतिष्ठान पनौती, काभ्रेपलान्चोक आयोजना" को बातावरणीय प्रभाव मृल्यांकनको अध्ययनको सिलसिलामा नेपाल सरकार वन तथा वातावरण मन्त्रालयद्वारा स्वीकृत वातावरणीय प्रभाव मूल्यांकनको क्षेत्र निर्पारण तथा कार्यसूची प्रतिवेदनहरु र वातावरण संरक्षण नियमावली, २०७७ को नियम ६ बमोजिम आयोजना प्रभावित हुने क्षेत्रमा सार्वजनिक सुनुवाईको आयोजना गरी राय सुझाव संकलन गर्नुपर्ने भएकोले निम्न बमोजिमको मिति, समय र स्थानमा सार्वजनिक सुनुवाई कार्यक्रम आयोजना गरिने अवगत गराउँदछु । साथै उक्त कार्यक्रममा यहाँको सहभागीताको लागि समेत अनुरोध गर्दछु । सार्वजनिक सुनुवाइको कार्यक्रमको सार्वजनिक सुचनाको प्रति यसै पत्र साथ संलग्न छ।

#### निम्नः

स्थान: पनौती नगरपालिका वडा नं. ६, दलिन्चोक स्थित राष्ट्रिय प्रहरी प्रशिक्षण प्रतिष्ठान परियोजनाको

निर्माणस्थल

मिति: २०७९/०९/१६ गते

समय: विहानको ११:०० वजे

श्री ने.प्र.प्र.का., प्रहरी महानिरीक्षकको सचिवालय, ननसाल। श्री ने.प्र.प्र.का., भौतिक पूर्वाधार निर्देशनालय, नक्साल।

(सहकुल बहादुर थापा) प्रहरी अतिरिक्त महानिरीक्षक



भगल सम्बद्धिः श्रीह मेन्त्रालयः राष्ट्रिय प्रहरी प्रशिक्षण प्रतिष्ठान (काभ्रे परियोजनी उप-शाखा)

कोनः ०१-४४१६७५ ०१-४४१६७५

महाराजगंज,काठमाण्डौ मिति: २०७९/०९/११गते।

पत्र संख्या:२०७९/८०

च.नं. ७ \$

विषय: सार्वजनिक सुनुवाईको जानकारी तथा उपस्थिति सम्बन्धमा।

श्रीमान् कार्यालय प्रमुख ज्यू, जिल्ला नापी कार्यालय, काभ्रेपलान्चोक।

प्रस्तुत विषयमा यस कार्यालय प्रस्तावक रही निर्माण गर्न लागिएको "राष्ट्रिय प्रहरी प्रशिक्षण प्रतिष्ठान पनीती, काभ्रेपलान्चोक आयोजना" को वातावरणीय प्रभाव मूल्यांकनको अध्ययनको सिलसिलामा नेपाल सरकार वन तथा वातावरण मन्त्रालयद्वारा स्वीकृत वातावरणीय प्रभाव मूल्यांकनको क्षेत्र निर्धारण तथा कार्यसूची प्रतिवेदनहरु र वातावरण संरक्षण नियमावली, २०७७ को नियम ६ बमोजिम आयोजना प्रभावित हुने क्षेत्रमा सार्वजनिक सुनुवाईको आयोजना गरी राय सुझाव संकलन गर्नुपर्ने भएकोले निम्न बमोजिमको मिति, समय र स्थानमा सार्वजनिक सुनुवाई कार्यक्रम आयोजना गरिने अवगत गराउँदछु । साथै उक्त कार्यक्रममा यहाँको सहभागीताको लागि समेत अनुरोध गर्दछु । सार्वजनिक सुनुवाइको कार्यक्रमको सार्वजनिक सूचनाको प्रति यसै पत्र साथ संलग्न छ ।

निम्नः

स्थान: पनौती नगरपालिका वडा नं. ६, दलिन्चोक स्थित राष्ट्रिय प्रहरी प्रशिक्षण प्रतिष्ठान परियोजनाको

निर्माणस्थल

मिति: २०७९/०९/१६ गते

समय: विहानको ११:०० वजे

बोधार्थ:

श्री ने.प्र.प्र.का., प्रहरी महानिरीक्षकको सथिवालय, नक्साल। श्री ने.प्र.प्र.का., भौतिक पूर्वाधार निर्देशनालय, नक्साल। कार्येकारी निर्देशक

(सहकुल बहादुर थापा)



# राष्ट्रिय प्रहरी प्रशिक्षण प्रतिष्ठान (काभ्रे परियोजना उप-शाखा)

पत्र संख्या:२०७९/८०

च.नं. ७.३

०१-४४२०५१७०१-४४११६७५०१-४४१६१२५

महाराजगंज,काठमाण्डौं मिति: २०७९/०९/११ गते।

श्रीमान् कार्यालय प्रमुख ज्यू, जिल्ला नापी कार्यालय, काभ्रेपलान्चोक।

# विषय: सार्वजनिक सुनुवाइको सूचना टाँस गरी जानकारी उपलब्ध गराईदिने सम्बन्धमा।

उपरोक्त सम्बन्धमा बागमती प्रदेशको काभ्रेपलान्चोक जिल्ला अन्तर्गत पनौती नगरपालिका, वडा नं. ६ मा यस कार्यालय प्रस्तावक रही निर्माण तथा सञ्चालन गर्न लागिएको राष्ट्रिय प्रहरी प्रशिक्षण प्रतिष्ठान, पनौती, काभ्रेपलाञ्चोक आयोजनाको वातावरणीय प्रभाव मूल्याङ्कन (Environmental Impact Assessment -EIA) गर्ने कार्य रिसर्च इन्क्लेव प्रा. लि.ले गरिरहेको व्यहोरा अनुरोध छ ।

वातावरण संरक्षण ऐन, २०७६ र बातावरण संरक्षण नियमावली, २०७७ ले तोके बमोजिम राष्ट्रिय प्रहरी प्रशिक्षण प्रतिष्ठान, पनौती, काभ्रेपलाञ्चोक आयोजनाको वातावरणीय प्रभाव मूल्याङ्कन (EIA) अध्ययन प्रतिवेदन तथारी सिलसिलमा आयोजना क्षेत्रमा सार्वजनिक सुनुवाई कार्यक्रम गर्नुपर्ने भएकोले यस पत्र साथ संलग्न राखी पठाईएको सार्वजनिक सुनुवाई सम्बन्धी सूचना तहाँ कार्यालयको सूचना पाटीमा टाँस गरी मूचना टाँसको लिखित जानकारी उपलब्ध गराईदिनुहुन हार्दिक अनुरोध गर्वछ।

बोधार्थः

श्री ने.प्र.प्र.का., प्रहरी महानिरीक्षकको सचिवालय, नक्साल। श्री ने.प्र.प्र.का., भौतिक पूर्वाधार निर्देशनालय, नक्साल। कार्यकारी मिर्देशक

(सष्टकुल बहादुर थापा) प्रहरी अतिरिक्त महानिरीक्षक



महाराजगंज,काठमाण्डी मिति: २०७९/०९/११ गते।

पत्र संख्या:२०७९/८०

च.す. レメ

श्री जिल्ला प्रहरी कार्यालय, धलिखेल, काभ्रेपलान्चोक।

विषय: सार्वजनिक सुनुवाइको सुचना टाँस गरी जानकारी उपलब्ध गराईदिने सम्बन्धमा।

उपरोक्त सम्बन्धमा बागमती प्रदेशको काभ्रेपलान्चोक जिल्ला अन्तर्गत पनौती नगरपालिका वडा नं. ६ मा यस कार्यालय प्रस्तावक रही निर्माण तथा सञ्चालन गर्न लागिएको राष्ट्रिय प्रहरी प्रशिक्षण प्रतिष्ठान, पनौती, काभ्रेपलाञ्चोक आयोजनाको वातावरणीय प्रभाव मृल्याङ्कन (Environmental Impact Assessment -EIA) गर्ने कार्य रिसर्च इन्क्लेव प्रा. लि.ले गरिरहेको व्यहोरा अनुरोध छ ।

वातावरण संरक्षण ऐन, २०७६ र वातावरण संरक्षण नियमावली, २०७७ ले तोके ब्रमोजिम राष्ट्रिय प्रहरी प्रशिक्षण प्रतिष्ठान, पनौती, काभ्रेपलाञ्चोक आयोजनाको वातावरणीय प्रभाव मृल्याङ्कन (EIA) अध्ययन प्रतिबेदन तयारी सिलसिलमा आयोजना क्षेत्रमा सार्वजनिक सुनुवाई कार्यक्रम गर्नुपर्ने भएकोले यसै पत्र साथ संलग्न राखी पठाईएको सार्वजनिक सुनुवाई सम्बन्धी सुचना तहाँ कार्यालयको सुचना पाटीमा टाँस गरी सुचना टाँसको लिखित जानकारी उपलब्ध गराईदिन्हन हार्दिक अनुरोध गर्दछ।

श्री ने प्र.प्र.का., प्रहरी महानिरीक्षकको सचिवालय, नक्साल। श्री ने प्र.प्र.का., भौतिक पूर्वाधार निर्देशनालय, नक्साल ।

(सहकुल बहादर थापा) प्रहरी अतिरिक्त महानिरीक्षक



# राष्ट्रिय प्रहरी प्रशिक्षण प्रतिष्ठान (काभ्रे परियोजना उप-शाखा)

कोनः ०१-४४१६६७<sup>०</sup> ०१-४४१६५०<sup>०</sup>

पत्र संख्या:२०७९/८०

च.नं. 🖂

महाराजगंज,काठमाण्डी मिति: २०७९/०९/११ गते ।

विषय: सार्वजनिक सुनुवाईको जानकारी तथा उपस्थिति सम्बन्धमा।

श्री जिल्ला प्रहरी कार्यालय, धुलिखेल, काभ्रेपलान्चोक।

प्रस्तुत विषयमा यस कार्यालय प्रस्तावक रही निर्माण गर्न लागिएको "राष्ट्रिय प्रहरी प्रशिक्षण प्रतिष्ठान पनौती, काभ्रेपलान्चोक आयोजना" को वातावरणीय प्रभाव मूल्यांकनको अध्ययनको सिलसिलामा नेपाल सरकार वन तथा वातावरण मन्त्रालयद्वारा स्वीकृत वातावरणीय प्रभाव मूल्यांकनको क्षेत्र निर्धारण तथा कार्यसूची प्रतिवेदनहरू र वातावरण संरक्षण नियमावली, २०७७ को नियम ६ बमोजिम आयोजना प्रभावित हुने क्षेत्रमा सार्वजनिक मुनुवाईको आयोजना गरी राय सुझाव संकलन गर्नुपर्ने भएकोले निम्न बमोजिमको मिति, समय र स्थानमा सार्वजनिक मुनुवाई कार्यक्रम आयोजना गरिने अवगत गराउँदछु । साथै उक्त कार्यक्रममा तहाँ कार्यालयबाट सराभागीताको लागि समेत अनुरोध गर्दछु । सार्वजनिक सुनुवाइको कार्यक्रमको सार्वजनिक सूचनाको प्रति यसै पत्र साथ संलग्न छ।

निम्नः

स्थान: पनौती नगरपालिका वडा नं. ६, दलिन्चोक स्थित राष्ट्रिय प्रहरी प्रशिक्षण प्रतिष्ठान परियोजनाको

निर्माणस्थल

मिति: २०७९/०९/१६ गते

समय: विहानको ११:०० बजे

बोधार्थः

श्री ने.प्र.प्र.का., प्रहरी महानिरीक्षणको सचिवालय, नक्साल। श्रो ने.प्र.प्र.का., भौतिक पूर्वोधार निदेशनालय, नक्साल। कार्यकारी निर्देशक

(सहकुल बहादुर थापा)



# (काभ्रे परियोजना उप-शाखा)

महाराजगंज,काठमाण्डौं मिति: २०७९/०९/११ गते।

पत्र संख्या:२०७९/८०

च.नं. ( 🤊

श्रीमान् कार्यालय प्रमुख ज्यु, जिल्ला मालपोत कार्यालय, काभ्रेपलान्चोक।

## विषय: सार्वजनिक सनवाइको सचना टाँस गरी जानकारी उपलब्ध गराईदिने सम्बन्धमा।

उपरोक्त सम्बन्धमा बागमती प्रदेशको काभ्रेपलान्चोक जिल्ला अन्तर्गत पनौती नगरपालिका, वडा नं. ६ मा यस कार्वालय प्रस्तावक रही निर्माण तथा सञ्चालन गर्न लागिएको राष्ट्रिय प्रहरी प्रशिक्षण प्रतिष्ठान, पनौती, काभ्रेपलाञ्चोक आयोजनाको चातावरणीय प्रभाव मृल्याङ्कन (Environmental Impact Assessment -EIA) गर्ने कार्य रिसर्च इन्क्लेव प्रा. लि.ले गरिरहेको व्यहोरा अनुरोध छ ।

वातावरण संरक्षण ऐन, २०७६ र वातावरण संरक्षण नियमावली, २०७७ ले तोके बमोजिम राष्ट्रिय प्रहरी प्रशिक्षण प्रतिष्ठान, पनौती, काभ्रेपलाञ्चीक आयोजनाको वातावरणीय प्रभाव मृल्याङकन (EIA) अध्ययन प्रतिचेदन तवारी सिलसिलमा आयोजना क्षेत्रमा सार्वजनिक सुनुवाई कार्यक्रम गर्नुपर्ने भएकोले यसै पत्र साथ संलग्न राखी पठाईएको सार्वजनिक सुनुवाई सम्बन्धी सूचना तहाँ कार्यालयको सूचना पाटीमा टाँस गरी सूजनि टाँसको लिखित जानकारी उपलब्ध गराईदिनुहुन हार्दिक अनुरोध गर्दछ।

बोघार्थः

श्री ने.प्र.प्र.का., प्रहरी महानिरोक्षकको सचिवालय, नक्साल । श्री ने.प्र.प्र.का., भौतिक पूर्वाधार निर्देशनालय, नक्साल।

कार्यकारी निर्देशक

(सहकुल बहाद्र थापा)



राष्ट्रिय प्रहरी प्रसिक्ष्यातेष्ठान (काभ्रे परियोजना उप-शाखा) ०१-४४२०५१७ पोन: ०१-४४११६७५ ०१-४४१६१२५

पत्र संख्या:२०७९/८०

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महाराजगंज,काठमाण्डी मिति: २०७९/०९/११गते ।

विषयः सार्वजनिक सुनुवाईको जानकारी तथा उपस्थिति सम्बन्धमा।

श्रीमान् कार्यालय प्रमुख ज्यू जिल्ला मालपोत कार्यालय, काभ्रेपलान्चोक।

प्रस्तुत विषयमा यस कार्यालय प्रस्तावक रही निर्माण गर्न लागिएको "राष्ट्रिय प्रहरी प्रशिक्षण प्रतिष्ठान पनौती, काभ्रेपलान्चोक आयोजना" को वातावरणीय प्रभाव मृल्यांकनको अध्ययनको सिलसिलामा नेपाल सरकार जन तथा वातावरण मन्त्रालयद्वारा स्वीकृत वातावरणीय प्रभाव मृल्यांकनको क्षेत्र निर्धारण तथा कार्यसूची प्रतिवेदनहरु र वातावरण संरक्षण नियमावली, २०७७ को नियम ६ वमोजिम आयोजना प्रभावित हुने क्षेत्रमा सार्वजनिक सुनुवाईको आयोजना गरी राय सुझाव संकलन गर्नुपर्ने भएकोले निम्न बमोजिमको मिति, समय र स्थानमा सार्वजनिक सुनुवाई कार्यक्रम आयोजना गरिने अवगत गराउँदछु । साथै उक्त कार्यक्रममा यहाँको सहभागीताको लागि समेत अनुरोध गर्वछु । सार्वजनिक सुनुवाइको कार्यक्रमको सार्वजनिक सूचनाको प्रति यसै पत्र साथ संलम्न छ ।

#### निम्नः

स्थानः पनौती नगरपालिका वडा नं. ६, दलिन्चोक स्थित राष्ट्रिय प्रहरी प्रशिक्षण प्रतिष्ठान परियोजनाको

निर्माणस्थल

मिति: २०७९/०९/१६ गते

समय: विहानको ११:०० बजे

#### बोधार्थः

श्री ने,प्र.प्र.का., प्रहरी महानिरीक्षकको सचिवालव, ननसाल। श्री ने,प्र.प्र.का., भौतिक पूर्वाधार निर्देशनालय, ननसाल। कार्यकारी निर्देशक

(सहकुल बहादुर थापा)



# गृह मन्द्रमासूर्य राष्ट्रिय प्रहरी प्रशिक्षण प्रतिष्ठान (काभ्रे परियोजना उप-शाखा)

पत्र संख्या:२०७९/८०

च.नं. ८५।

क्ष्माः - ०६-४,८६८५५ ०६-४,८६८५५७ ०६-४,८५५७५५७

महाराजगंज,काठमाण्डौं मिति: २०७९/०९/११ गते ।

श्रीमान् अध्यक्ष ज्यू देवीस्थान (ख) सामुदायिक वन उपभोक्ता समिति पनौती, काभ्रेपलान्चोक

### विषय: सार्वजनिक सुन्वाइको सूचना टाँस गरी जानकारी उपलब्ध गराईदिने सम्बन्धमा।

उपरोक्त सम्बन्धमा बागमती प्रदेशको काभ्रेपलान्चोक जिल्ला अन्तर्गत पनौती नगरपालिका, वडा नं. ६ मा यस कार्यालय प्रस्तावक रही निर्माण तथा सञ्चालन गर्न लागिएको राष्ट्रिय प्रहरी प्रशिक्षण प्रतिष्ठान, पनौती, काभ्रेपलाञ्चोक आयोजनाको बातावरणीय प्रभाव मृत्याङ्कन (Environmental Impact Assessment -EIA) गर्ने कार्य रिसर्च इन्क्लेब प्रा. लि.ले गरिरहेको ब्यहोरा अनुरोध छ ।

वातावरण संरक्षण ऐन, २०७६ र वातावरण संरक्षण नियमावली, २०७७ ले तोके बमोजिम राष्ट्रिय प्रहरी प्रशिक्षण प्रतिष्ठान, पनौती, काभ्रेपलाञ्चोक आयोजनाको वातावरणीय प्रभाव मूल्याङ्कन (EIA) अध्ययन प्रतिवेदन तथारी सिलसिलमा आयोजना क्षेत्रमा सार्वजनिक सुनुवाई कार्यक्रम गर्नुपर्ने भएकोले यसै पत्र साथ संलग्न राखी पठाईएको सार्वजनिक सुनुवाई सम्बन्धी सूचना तहाँ कार्यालयको सूचना पाटीमा टाँस गरी सूचना टाँसको लिखित जानकारी उपलब्ध गराईदिनुहुन हार्दिक अनुरोध गर्दछ।

बोघार्थः

श्री ने.प्र.प्र.का., प्रहरी महानिरीक्षकको सचिवालय, नक्साल । श्री ने.प्र.प्र.का., भौतिक पूर्वोधार निर्देशनालय, नक्साल । कर्यिकारी निर्देशक (सहकुल बहादर थापा)



# मणल मुखा पूर मन्त्रावस्तर राष्ट्रिय प्रहरी प्रशिक्षणी प्रसिष्ठान (काभ्रे परियोजना उपण्डाखा)

फोन:

08-8888864 08-8888864

पत्र संख्या:२०७९/८०

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महाराजगंज,काठमाण्डौं मिति: २०७९/०९/११ गते।

विषय: सार्वजनिक सुनुवाईको जानकारी तथा उपस्थिति सम्बन्धमा।

श्रीमान् अध्यक्ष ज्यू देवीस्थान (ख) सामुदायिक वन उपभोक्ता समिति पनौती, काभ्रेपलान्चोक

प्रस्तुत विषयमा यस कार्यालय प्रस्तावक रही निर्माण गर्न लागिएको "राष्ट्रिय प्रहरी प्रशिक्षण प्रतिष्ठान पनीती, काभ्रेपलान्चोक आयोजना" को वातावरणीय प्रभाव मृल्यांकनको अध्ययनको सिलसिलामा नेपाल सरकार वन तथा वातावरण मन्त्रालयद्वारा स्वीकृत वातावरणीय प्रभाव मृल्यांकनको क्षेत्र निर्धारण तथा कार्यसूची प्रतिवेदनहरु र वातावरण संरक्षण नियमावली, २०७७ को नियम ६ बनोजिम आयोजना प्रभावित हुने क्षेत्रमा सार्वजिनक सुनुवाईको आयोजना गरी राय सुझाव संकलन गर्नुपर्ने भएकोले निम्न बमोजिमको मिति, समय र स्थानमा सार्वजिनक सुनुवाई कार्यक्रम आयोजना गरिने अवगत गराउँदछु । साथै उक्त कार्यक्रममा यहाँको सहभागीताको लागि समेत अनुरोध गर्दछु । सार्वजिनक सुनुवाईको कार्यक्रमको सार्वजिनक सूचनाको प्रति यसै पत्र साथ संलग्न छ ।

निम्नः

स्थान: पनौती नगरपालिका वडा नं. ६, दलिन्चोक स्थित राष्ट्रिय प्रहरी प्रशिक्षण प्रतिष्ठान परियोजनाको निर्माणस्थल

मिति: २०७९/०९/१६ गते

समय: विहानको ११:०० बने

बोधार्थः

श्री मे.प्र.प्र.का., प्रहरी महानिरीक्षकको सचिवालय, नक्साल। श्री ने.प्र.प्र.का., भौतिक पूर्वोधार निर्देशनालय, नक्साल।

कार्यकारी निर्देशक

(सहकुल बहादुर थापा) प्रहरी अतिरिक्त महानिरीक्षक



# राष्ट्रिय प्रहरी प्रशिक्षण प्रतिष्ठान (काभ्रे परियोजना उप-शाखा)

०१-४४२०५१७ कोनः ०१-४४११६७५ ०१-४४१६१२५

पत्र संख्या:२०७९/८०

च.मं. ८ ९

महाराजगंज,कातमाण्डी मिति: २०७९/०९/११ गते।

श्रीमान् नगर प्रमुखज्यू पनौती नगरपालिका, पनौती, काभ्रेपलान्चोक।

# विषय: सार्वजनिक सुनुवाइको सूचना टाँस गरी जानकारी उपलब्ध गराईदिने सम्बन्धमा।

उपरोक्त सम्बन्धमा बागमती प्रदेशको काभ्रेपलान्चोक जिल्ला अन्तर्गत पनौती नगरपालिका, वडा नं ६ मा यस कार्यालय प्रस्तावक रही निर्माण तथा सञ्चालन गर्न लागिएको राष्ट्रिय प्रहरी प्रशिक्षण प्रतिष्ठान, पनौती, काभ्रेपलाञ्चोक आयोजनाको वातावरणीय प्रभाव मूल्याङ्कन (Environmental Impact Assessment -EIA) गर्ने कार्य रिसर्च इन्क्लेब प्रा. लि.ले गरिरहेको व्यहोरा अनुरोध छ ।

वातावरण संरक्षण ऐन, २०७६ र वातावरण संरक्षण नियमावली, २०७७ ले तोके बमोजिम राष्ट्रिय प्रहरी प्रशिक्षण प्रतिष्ठान, पनौती, काभ्रेपलाञ्चोक आयोजनाको वातावरणीय प्रभाव मूल्याङ्कन (EIA) अध्ययन प्रतिवेदन तयारी सिलसिलमा आयोजना क्षेत्रमा सार्वजनिक सुनुवाई कार्यक्रम गर्नुपर्ने भएकोले यस पत्र साथ संलग्न राखी पठाईएको सार्वजनिक सुनुवाई सम्बन्धी सूचना तहाँ कार्यालयको सूचना पाटीमा दाँस गरी सूचना टाँसको लिखित जानकारी उपलब्ध गराईदिनुहुन हार्दिक अनुरोध गर्दछ।

बोधार्थः

भी ने.प्र.प्र.का., प्रहरी महानिरीक्षकको सचिवालय, नक्साल । श्री ने.प्र.प्र.का., भौतिक पूर्वाधार निर्देशनालय, नक्साल ।

कार्यकारी निर्देशक (सहकुल बहादुर थापा)



कर-४४२०५१७ ०१-४४२०५१७

(काभ्रे परियोजना उप-शाखा)

महाराजगंज,काठमाण्डी

मिति: २०७९/०९/०८गते।

पत्र संख्या:२०७९/८०

च.नं. €0

विषयः सार्वजनिक सुनुवाईको जानकारी तथा उपस्थिति सम्बन्धमा।

श्रीमान् नगर प्रमुखच्यू पनौती नगरपालिका, पनौती, काभ्रेपलान्चोक।

प्रस्तुत विषयमा यस कार्यालय प्रस्तावक रही निर्माण गर्न लागिएको "राष्ट्रिय प्रहरी प्रशिक्षण प्रतिष्ठान पनौती, काभ्रेपलान्चोक आयोजना" को वातावरणीय प्रभाव मूल्यांकनको अध्ययनको सिलसिलामा नेपाल सरकार वन तथा वातावरण मन्त्रालयद्वारा स्वीकृत वातावरणीय प्रभाव मूल्यांकनको क्षेत्र निर्धारण तथा कार्यसूची प्रतिवेदनहरु र वातावरण संरक्षण नियमावली, २०७७ को नियम ६ बमोजिम आयोजना प्रभावित हुने क्षेत्रमा सार्वजनिक सुनुवाईको आयोजना गरी राय सुझाव संकलन गर्नुपर्ने भएकोले निम्न बमोजिमको मिति, समय र स्थानमा सार्वजनिक सुनुवाई कार्यक्रम आयोजना गरिने अवगत गराउँदछु । साथै उक्त कार्यक्रममा यहाँको सहभागीताको लागि समेत अनुरोध गर्दछु । सार्वजनिक सुनुवाइको कार्यक्रमको सार्वजनिक सूननाको प्रति यसै पत्र साथ संलग्न छ ।

#### निम्नः

स्थान: पनौतो नगरपालिका वडा नं. ६, दलिन्चोक स्थित राष्ट्रिय प्रहरी प्रशिक्षण प्रतिष्ठान परियोजनाको

निर्माणस्थल

मिति: २०७९/०९/१६ गते

समय: विहानको ११:०० बजे

बोधार्थः

श्रों ने.प्र.प्र.का., प्रहरी महानिरीक्षकको सचिवालय, नक्साल । श्री ने.प्र.प्र.का., भौतिक पूर्वाधार निर्देशनालय, नक्साल । कार्यकारी निर्देशक

(सहकुल बहादुर थापा)



पत्र संख्या:२०७९/८०

# (काभ्रे परियोजना उप-शाखा)

च.नं. ७ ८

महाराजगंज,काठमाण्डी मिति: २०७९/०९/११ गते।

श्रीमान् जिल्ला समन्वय समिति प्रमुखज्यु, जिल्ला समन्वय समिति, काभ्रेपलान्चोक।

विषय: सार्वजनिक सुन्वाइको सूचना टाँस गरी जानकारी उपलब्ध गराईदिने सम्बन्धमा ।

उपरोक्त सम्बन्धमा ज्ञागमती प्रदेशको काभ्रेपलान्चोक जिल्ला अन्तर्गत पनौती नगरपालिका, वडा नं, ६ मा यस कार्यालय प्रस्तावक रही निर्माण तथा सञ्चालन गर्न लागिएको राष्ट्रिय प्रहरी प्रशिक्षण प्रतिष्ठान, पनौती, काभ्रेपलाञ्चोक आयोजनाको वातावरणीय प्रभाव मृल्याङ्कन (Environmental Impact Assessment -EIA) गर्ने कार्य रिसर्च इन्क्लेव प्रा. लि.ले गरिएहेको व्यहोरा अनुरोध छ ।

वातावरण संरक्षण ऐन, २०७६ र वातावरण संरक्षण नियमावली, २०७७ ले तोके बमोजिम राष्ट्रिय प्रहरी प्रशिक्षण प्रतिष्ठान, पनौती, काभ्रेपलाञ्चोक आयोजनाको वातावरणीय प्रभाव मृत्याङ्कन (EIA) अध्ययन प्रतिवेदन तथारी सिलसिलमा आयोजना क्षेत्रमा सार्वजनिक सुनुवाई कार्यक्रम गर्नुपर्ने भएकोले यसै पत्र साथ संलग्न राखी पठाईएको सार्वजनिक सुनुवाई सम्बन्धी सूचना तहाँ कार्यालयको सूचना पाटीमा टाँस गरी सूचना टाँसको लिखित जानकारी उपलब्ध गराईदिनुहुन हार्दिक अनुरोध गर्दछ।

बोघार्थः

श्री ने.प्र.प्र.का., प्रहरी महानिरीक्षकको सचिवालय, नक्साल। श्रों ने.प्र.प्र.का., भौतिक पूर्वाधार निर्देशनालय, नक्साल ।

कार्यकारी निर्देशक (सहकुल बहादर थापा)



# (काभ्रे परियोजना उप-शाखा)

08-2250660 फोन 08-8862834

पत्र संख्या:२०७९/८०

च.न. ७७

महाराजगंज,काठमाण्डी मिति: २०७९/०९/११ गते।

विषय: सार्वजनिक सुनुवाईको जानकारी तथा उपस्थिति सम्बन्धमा।

श्री जिल्ला समन्वय समिति प्रमुख ज्यु, जिल्ला समन्वय समिति, घृलिखेल, काभ्रेपलान्चोक।

प्रस्तुत विषयमा यस कार्यालय प्रस्तावक रही निर्माण गर्न लागिएको "राष्ट्रिय प्रहरी प्रशिक्षण प्रतिष्ठान पनौती, काभ्रेपलान्चोक आयोजना" को वातावरणीय प्रभाव मृल्यांकनको अध्ययनको सिलसिलामा नेपाल सरकार वन तथा वातावरण मन्त्रालयद्वारा स्वीकृत वातावरणीय प्रभाव मूल्यांकनको क्षेत्र निर्धारण तथा कार्यसूची प्रतिवेदनहरू र वातावरण संरक्षण नियमावली, २०७७ को नियम ६ वमोजिम आयोजना प्रभावित हुने क्षेत्रमा सार्वजनिक सुनुवाईको आयोजना गरी राय सुझाव संकलन गर्नुपर्ने भएकोले निम्न बमोजिमको मिति, समय र स्थानमा सार्वजनिक सुनुवाई कार्यक्रम आयोजना गरिने अवगत गराउँदछु । साथै उक्त कार्यक्रममा यहाँको सहभागीताको लागि समेत अनुरोध गर्दछ । सार्वजनिक सुनुवाइको कार्यक्रमको सार्वजनिक सूचनाको प्रति यसै पत्र साथ संलम्न छ।

#### निम्नः

स्थानः पनौती नगरपालिका वडा नं. ६, दलिन्चोक स्थित राष्ट्रिय प्रहरी प्रशिक्षण प्रतिष्ठान परियोजनाको

निर्माणस्थल

मिति: २०७९/०९/१६ गते

समय: विहानको ११:०० वजे

बोघार्थः

थी ने.प्र.प्र.का., प्रहरी महानिरीक्षकको सचिवालय, नक्साल। श्री ने.प्र.प्र.का., भौतिक पूर्वाधार निर्देशनालय, नक्साल ।

(सहकुल बहाद्र थापा) प्रहरी अतिरिक्त महानिरीक्षक



पत्र संख्या:२०७९/८०

# ग्रहमसास्य ग्रहमसास्य राष्ट्रिय प्रहरी प्रशिक्षण प्रतिष्ठान (काभ्रे परियोजना उप-शाखा)

च.नं. ८०

०१-४४२०५१७ फॉन: ०१-४४१६६७५ ०१-४४१६१२५

महाराजगंज,काठमाण्डौं मिति: २०७९/०९/११ गते।

श्रीमान् वडा अध्यक्ष न्यू, वडा नं, ६ को कार्यालय, पनौती नगरपालिका, पनौती, काभ्रेपलान्चोक।

## विषयः सार्वजनिक सुनुवाइको सूचना टाँस गरी जानकारी उपलब्ध गराईदिने सम्बन्धमा।

उपरोक्त सम्बन्धमा बागमती प्रदेशको काभ्रेपलान्चोक जिल्ला अन्तर्गत पनौती नगरपालिका, बढा नं. ६ मा यस कायांलय प्रस्तावक रही निर्माण तथा सञ्चालन गर्न लागिएको राष्ट्रिय प्रहरी प्रशिक्षण प्रतिष्ठान, पनौती, काभ्रेपलाञ्चोक आयोजनाको बातावरणीय प्रभाव मूल्याङ्कन (Environmental Impact Assessment - EIA) गर्ने कार्य रिसर्च इन्क्लेव प्रा. लि.ले गरिरहेको व्यहोरा अनुरोध छ ।

वातावरण संरक्षण ऐन, २०७६ र वातावरण संरक्षण नियमावली, २०७० ले तोके बमोजिम राष्ट्रिय प्रहरी प्रशिक्षण प्रतिष्ठान, पनौती, काभ्रेपलाञ्चोक आयोजनाको वातावरणीय प्रभाव मूल्याङ्कन (EIA) अध्ययन प्रतिवेदन तयारी सिलसिलमा आयोजना क्षेत्रमा सार्वजनिक सुनुवाई कार्यक्रम गर्नुपर्ने भएकोले यसै पत्र साथ संलग्न राखी पठाईएको सार्वजनिक सुनुवाई सम्बन्धी मूचना तहाँ कार्यालयको सूचना पाटीमा टाँस गरी सूचना टाँसको लिखित जानकारी उपलब्ध गराईदिनुहुन हार्दिक अनुरोध गर्दछ।

बोघार्थः

श्री ने.प्र.प्र.का., प्रहरी महानिरीक्षकको सचिवालय, नक्साल । श्री ने.प्र.प्र.का., भौतिक पूर्वाधार निर्देशनालय, नक्साल । कार्यकारी निर्देशक

(सहकुल बहादुर थापा) पहरी अतिरिक्त महानिरीक्षक



# राष्ट्रिय प्रहरीक्ष्मश्रीक्षका प्रतिष्ठान (काभ्रे परियोजना उप-शाखा)

08-8888E894

पत्र संख्या:२०७९/८०

च.नं. ड १

महाराजगंज,काठमाण्डी मितिः २०७९/०९/११गते।

विषय: सार्वजनिक सुनुवाईको जानकारी तथा उपस्थिति सम्बन्धमा।

श्रीमान् वडा अध्यक्ष ज्यू, वडा नं. ६ को कार्यालय, पनौती नगरपालिका, पनौती, काभ्रेपलान्चोक।

प्रस्तुत विषयमा यस कार्यालय प्रस्तावक रही निर्माण गर्न लागिएको "राष्ट्रिय प्रहरी प्रशिक्षण प्रतिष्ठान पनौती, काभ्रेपलान्चोक आयोजना" को वातावरणीय प्रभाव मूल्यांकनको अध्ययनको सिलसिलामा नेपाल सरकार वन तथा वातावरण मन्त्रालयद्वारा स्वीकृत वातावरणीय प्रभाव मूल्यांकनको क्षेत्र निर्धारण तथा कार्यसूची प्रतिवेदनहरू र वातावरण संरक्षण नियमावली, २०७७ को नियम ६ बमोजिम आयोजना प्रभावित हुने क्षेत्रमा सार्वजनिक सुनुवाईको आयोजना गरी राय सुझाव संकलन गर्नुपर्ने भएकोले निम्न बमोजिमको मिति, समय र स्थानमा सार्वजनिक सुनुवाई कार्यक्रम आयोजना गरिने अवगत गराउँदछु । साथै उक्त कार्यक्रममा यहाँको सहभागीताको लागि समेत अनुरोध गर्दछु । सार्वजनिक सुनुवाइको कार्यक्रमको सार्वजनिक सूचनाको प्रति यस पत्र साथ संलग्न छ ।

निम्नः

स्थानः पनौती नगरपालिका बडा नं, ६, दलिन्चोक स्थित राष्ट्रिय प्रहरी प्रशिक्षण प्रतिष्ठान परियोजनाको

निर्माणस्थल

मिति: २०७९/०९/१६ गते

समय: विहानको ११:०० वजे

बोधार्थः

श्री ने.प.प.का., प्रहरी महानिरीक्षकको सचिवालय, नक्साल। श्री ने.प्र.प्र.का., भौतिक पूर्वाधार निर्देशनालय, नक्साल। कार्यकारी निर्देशक

सहस्रुल बहादुर थापा)



# राष्ट्रिय प्रहरी प्रशि (काभ्रे परियोजनी उप र्शाखा)

पत्र संख्या:२०७९/८०

चा.नं. 😪 3

महाराजगंज,काठमाण्डौं मिति: २०७९/०९/११ गते।

श्रीमान् प्रमुख जिल्ला अधिकारी ज्यु जिल्ला प्रशासन कार्यालय, धुलिखेल, काभ्रेपलान्चोक।

# विषय: सार्वजनिक सुनुवाइको सूचना टाँस गरी जानकारी उपलब्ध गराईदिने सम्बन्धमा।

उपरोक्त सम्बन्धमा बागमती प्रदेशको काभ्रेपलान्चोक जिल्ला अन्तर्गत पनौती नगरपालिका, वडा नं. ६ मा यस कार्यालय प्रस्तावक रही निर्माण तथा सञ्चालन गर्न लागिएको राष्ट्रिय प्रहरी प्रशिक्षण प्रतिष्ठान, पनौती, काभ्रेपलाञ्चीक आयोजनाको वातावरणीय प्रभाव मूल्याङ्कन (Environmental Impact Assessment -EIA) गर्ने कार्य रिसर्च इन्वलेव प्रा. लि.ले गरिरहेको व्यहोरा अनुरोध छ।

वातावरण संरक्षण ऐन, २०७६ र वातावरण संरक्षण नियमावली, २०७७ ले तोके बमोजिम राष्ट्रिय प्रहरी प्रशिक्षण प्रतिष्ठान, पनौती, काभ्रेपलाञ्चोक आयोजनाको वातावरणीय प्रभाव मूल्याङ्कन (EIA) अध्ययन प्रतिवेदन तयारी सिलसिलमा आयोजना क्षेत्रमा सार्वजनिक सुनुवाई कार्यक्रम गर्नुपर्ने भएकोले यसै पत्र साथ संलग्न राखी पठाईएको सार्वजनिक सुनुवाई सम्बन्धी सूचना तहाँ कार्यालयको सूचना पाटीमा टाँस गरी सूचना टाँसको लिखित जानकारी उपलब्ध गराईदिनुहुन हार्दिक अनुरोध गर्दछु।

बोघार्थः

श्री ने.प्र.प्र.का., प्रहरी महानिरीक्षकको सचिवालय, नक्साल। श्री ने.प्र.प्र.का., भौतिक पूर्वाधार निरंशनालय, नक्साल।

कॉर्यकारी निर्देशके

(सहकुल बहादुर थापा)



# (काभ्रे परियोजना उप-शाखा)

पत्र संख्या:२०७९/८०

च.नं. 52

महाराजगंज,काठमाण्डी मिति: २०७९/०९/११मते।

विषय: सार्वजनिक सुनुवाईको जानकारी तथा उपस्थिति सम्बन्धमा।

श्रीमान् प्रमुख जिल्ला अधिकारी क्यू, जिल्ला प्रशासन कार्यालय, धुलिखेल, काभ्रेपलान्चोक।

प्रस्तुत विषयमा यस कार्यालय प्रस्तावक रही निर्माण गर्न लागिएको "राष्ट्रिय प्रहरी प्रशिक्षण प्रतिष्ठान पनौती, काभ्रेपलान्चोक आयोजना" को वातावरणीय प्रभाव मृल्यांकनको अध्ययनको सिलसिलामा नेपाल सरकार वन तथा वातावरण मन्त्रालयद्वारा स्वीकृत वातावरणीय प्रभाव मूल्यांकनको क्षेत्र निर्धारण तथा कार्यसूची प्रतिवेदनहरु र वातावरण संरक्षण नियमावली, २०७७ को नियम ६ बमोजिम आयोजना प्रभावित हुने क्षेत्रमा सार्वजनिक सुनुवाईको आयोजना गरी राय सुझाव संकलन गर्नुपर्ने भएकोले निम्न बमोजिमको निति, समय र स्थानमा सार्वजनिक सुनुवाई कार्यक्रम आयोजना गरिने अवगत गराउँदछु । साथै उक्त कार्यक्रममा यहाँको सहभागीताको लागि समेत अनुरोध गर्दछु । सार्वजनिक सुनुवाइको कार्वक्रमको सार्वजनिक सूचनाको प्रति यसै पत्र साथ संलग्न छ ।

निम्नः

स्थानः पनौती नगरपालिका वडा नं. ६, दलिन्चोक स्थित राष्ट्रिय प्रहरी प्रशिक्षण प्रतिष्ठान परियोजनाको

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बोधार्थः

श्री ने.प्र.प्र.का., प्रहरी महानिरीक्षकको सचिवालय, नवसाल। श्री ने,प्र.प्र.का., भौतिक पूर्वाधार निर्देशनालय, नक्साल।

(सत्रकुल बहादुर थापा)

# **APPENDIX 16:** DETAILS OF PUBLIC HEARING PROGRAM



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#### नेपाल सरकार गृह मन्त्रालय सिंहदरबार, काठमाण्डी

राष्ट्रिय प्रहरी प्रशिक्षण प्रतिष्ठान पनौती, काभ्रेपलाञ्चोक आयोजनाको

# वातावरणीय प्रभाव मूल्याङ्गन प्रतिवेदन तयारिको लागि सार्वजितक सुनुवाई गरिन्ने सम्बन्धि सार्वजितक सूचना

काउमागरी महारामपालिका वहा नं, ३. महाराजगञ्जक्तिका राष्ट्रिय प्रहरी प्रतिश्चण प्रतिपद्धान (तालिम बेन्द) को ज्यावसाधिकता एवं प्रमावकारिया अधिपृद्धि गर्न भीतिक पूर्वाचार विकास मनेपने आवश्यकता सम्बोधभक्ते लागि काबेचलाज्योक जिल्लाको पतीती कारपालिका वडा नं. ६ वा रहेको देवीरधान सामुदाबिक वन क्षेत्रको ८२२-१२-१-० रोपनी जन्मामा भौतिक संस्थना विकास गर्ने २०७५/०५/२१ मा नेपाल सन्कार परिवर्षाणदवाट भारूको निर्णय बसीविक नेपाल प्रहरीको काञ्चाण्डी महानगण्यालिका, बदा वं. २. प्रहारावणान्त्रीधका राष्ट्रिय प्रहरी प्रवित्वाण प्रतिकाल प्रत पर्नीती, कामेपलाञ्चीक आयोजना निर्माण गर्ने प्रसारत गरेको छ । प्रसामित आयोजनाको मुख्य मध्यनगढक निर्माण गर्ने कमा १,०६,९०२ ५ वर्ग मिटर लेक्फात आवरमक पर्नेछ, नग्रमा प्रशासनिक चनन, ब्लारेक, मेस, अच्नयन चनन, स्रोपनार इत्त, मोटर ट्रान्सपोर्ट कन्छ, सवारी स्रापन पाकीर क्षेत्र, च्योना गृह, अदिटोरिक्स इत्त, स्पोर्टस कम्पलेक्स गरि ५८ वटा भवनहरू निर्माण हुनेछन् भने सर्च भन्दा अपनी भवन २८ मि. उचाईको हुनेछ।

बाताबरणीय अध्ययनअन्तर्गत प्रस्तावित आंबोजनाको बाताबरणीय प्रभाव गुल्याङ्कन प्रतिबंदन तबार तर्ने तिस्तरिस्तामा आबोजना शेजन्त स्थानीय तथा सम्बन्धित सबै सरोका।बालाहरूलाई आयोजनाको बाँर जानकारी दिन तथा आवश्यक संय सुधान संकलन गर्ने बातावरण संस्थाण निसमायली २००७ को निसम ६ क्योतिम वीत मिर्ग २००९/०९/१६ गो विदल ११ वर्जेको सम्बन्ध स्पीत नगरपालिका यदा नं. ६ दरिलचीकस्थित परियोजना निर्माण स्कलमा सार्वजनिक सुनुवर्ज कार्वकम आवोजना गरिने भएको हुँदा उत्त कार्वकममा महभागी भई आश्रते अमृत्य राव सुभाव एव प्रतिक्रया क्यान गरिदमुहुन सम्बन्धित सबै सरीकारवालाको जानकारीको लागि यो मुखना प्रकाशित गरिएको छ ।

#### आयोजक

प्रस्तावकको साम र दंशासा परामद्यंदाताः राष्ट्रिय प्रहरी प्रशिक्षण प्रतिष्ठात रिगर्ध इंग्वलंब प्रा. लि. महाराजबञ्ज, काठमाण्डी का. स. त. था. ३१, स्तुमान मार्न, जावमूल क्षेत्रः ०१-सस्वयूर्फ काठमाडी, बानमती प्रदेश, नेपास ईमेल: npa\_kavreproject@nepalpolice.gov.np टेनियाँनः ०१-५२४२५१८/ स्ट४१०५७०३६ ईमेलः researchenclave@gmail.com

कर्म-इंडले उल्हाद पूरा शंक्रप्रीको अवार्थ विकेत पहिलो लोग लोग पनि दिलायक विशेषों हो। बाहरी अरिक्सिकार १-९ से प्रदेश सेल शर्र परि प्रत्येक रोत प्रकृति जमी सामा अवस्थान जिल्लामे अवेन्द्रिक प्रवासिक्षत वन्त्रो । एसऔर २०१० को विस्ताबक्य जानले फीटले क्षेत्र क्षेत्रीय कार्यिय

१८ को जिल्लाक्ष्मक अभिनम् १६ मा 30747 एको सहस्य गाँउ विशो । प्राप्ता शरी रान्द्र उपाधि जिले तेता दिए बाल आस्प्रत र्ति । सम् १९३५ र १९३*०*३ र खाँचार । १९५० त मंत्रे शमका पुरुषा विकास विशेषा

वंत्रियमं राज गर्रे संलया भागीसमाई विश्वये गाग्रा कर् २०५० को अधिकार अंतरिकारी करार विश्ववद्यार तथा स्थानमे विश्व स्थानन समो । प्रोतने पट्ट गोरेकाइनल एगेको ऑसका राष्ट् मतेशा बोट्यको खेळा तत्त्वो।

निष्याच्या कार्य स्थापित पास्त्री प्रवाही पानामा योजन प्रवाहन र रकाम सुराजन महाज देखिलानि विकास inu famel grane for क्षत्रिक्षंत कर्म गर्नु अब दुले कुम मान्द्री कर उनुसर्वाः

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राष्ट्रिय प्रहरी प्रशिक्षण प्रतिष्ठान पनौती, काभ्रेपलाञ्चोक आयोजनाको

## वातावरणीय प्रभाव मूल्याङ्ग्रन प्रतिवेदन तयारिको लागि सार्वजनिक सुनुवाई गरिने सम्बन्धि सार्वजनिक सुचना

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कारुकारी बहानवाचीतका यहा न. २. महाराजधानकीया। एडिव प्रत्ये प्रतिक्रण बीग्रहान (राटिश केंद्र) को ज्वयमधिकता एवं प्रधानकरीता जामपुद्ध वर्ष भोतिक पूर्वाचर विश्वा वर्षुपी अञ्चयकता सम्बोधनको लागि बर्याकतालोक विश्वाको प्रवीती नाम्यादिका वहा २, ६ मा छेको देवीरवार तापुर्वाचक वर केंग्राचे ४२२-११-१-० निर्मी जगाता चीत्रक तावना विकास को २००५/२०५ का नेपाल समस्य कीवादिकारा भागने विभीन सामित्र नेवल करीको काउमानदी बहानगर्यालका, यदा नं. ५ बहानक्यान्यनिया राष्ट्रिय करी प्रतिकार घोणका (वालिय केदा) ले राष्ट्रिय करी प्रतिकार घोणका कोती, बाबेन्सान्त्रोक आरोजन विमोग रमें प्रसाद गोको छ। प्रसावित अरोजनको मुख्य संस्थापक विमोग वर्ग जन्म १०६ ५०२ ५ वर्ग किए सेक्सर अध्यक्त कोत, करना प्रतासनिक सकर बनोब नेस. अध्यक्त स्वयं सीननर ठट गोटा ट्रन्सकोट क्या स्वयंत्री साथ वर्गिक केट परेस गुट औरटोनिया ठट (मोर्ट्स बम्प्योक्स रोर ५८ वट भववतम विर्माण होत्तुर धरे सबै भन्दा अरुते भवर ६८ मि. उपार्टवरे होत्तु ।

वरानारोहः अञ्चलभक्तारे अत्यवित आरोजनानो नारानारामि प्रमान मृत्यक्ता प्रतिनेधन तथाः वर्ने मिलसिसामा आयोजना सेजना स्थापीय एक जर्मान्यत नहें अनेकारताराकारणी आहेजनको हमें जनकारियन वाच आध्याक गय नुस्तत संकाल को तातावारा सरक्षा निकासशी २००० को नियस कोरिका और मिति १००५/१५ एटे विशास ११ मजेमी सम्बन्धा कीरी सम्बन्धित कर दिन है . दिल्लावीकीरका पश्चिम विभीत सम्बन्धा सम्बन्धित सुनुवर्द बार्चका आवीका गाँवि मध्यदे हुँया ३५ कर्मकरमा सहभागे गई आको अपूरम तम सुमत्म एवं प्रतिक्रिया आग गरियहरू सम्बन्धित समे सरीवतमालको अनव्यत्रीको लागि यो मुख्या प्रकाशित गरिएको छ ।

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# हार्दिक बधाई एवं शुभकामना



यस सञ्जीवनी पत्र साप्ताहिकका शुभन्निन्तक यूवा उद्यमी एविटम तीजले श्री सरस्वती आधारभृत विद्यालय बनेपाको विद्यालय व्यस्थापन समितिको अध्यक्ष पदमा चयन हुनुभएकोमा हार्दिक बधाई तथा सफल वर्णयेकालको शुनकानना व्यक्त गर्दछी ।

### सञ्जीवनीपत्र साप्ताहिक परिवार

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आज कात अक्षेत्र पीय वह जाते शातिबार विहान नग्रपालीकाका प्रमूर्व भी वव वर्ष प्रात् रामशर्ण भण्डार सभापित र डाभ्रेपलाञ्ची 67/31 - स्नामितिं डा जिल्ला समत्वम दिपन अ प्रमूख 31114/22/21 ज्यू*व*श पनाली, डाध्रपलाइचेन पात्र भ्रान शसभा यूल्याड्न प्रात्वल 49119 aidia(0) 2 Hadrett सावधना व 418,014 स्थातन जाएमा 6 101 41 d) H/ उपस्थितः सम्पक्त न 不识. पद | कामोलम CECHI STE90 SEPOK प्रमूख । जिसस ६पड इ. गातम नगर् प्रमुख् प्राचीन स्पाः शारवार भवतार प्राक्तिक प्रका. 9851280346 GIOTES ALM Ya15 (15.4. 41) 513/ हमिलि मार्गिएड प्रमात उदान वराण्डप मिन्द्राका विभिन्न min antaj AC CIVIL CPWD Sulchbri sy 4815 5 45 STE79 88686 612 MH लामाद्य वाम व पनीती क पा वह के - द मिने प्रसाद व्याचारी 471N/-895/31-14) 12 40 JOHIS 3161N रामकुठ्या वनमारा अध्यक्ष द्वाराने की मार्ग (महत्त्व हुन हुन ) श्रीक्षकी aiont analyour 38011278B- Brown निर्म वाला 40171-3 7831026894 96 1011/11/02 KINGSET, MEMY, STO JAITA (A' KIDGDAN JESTIGSED

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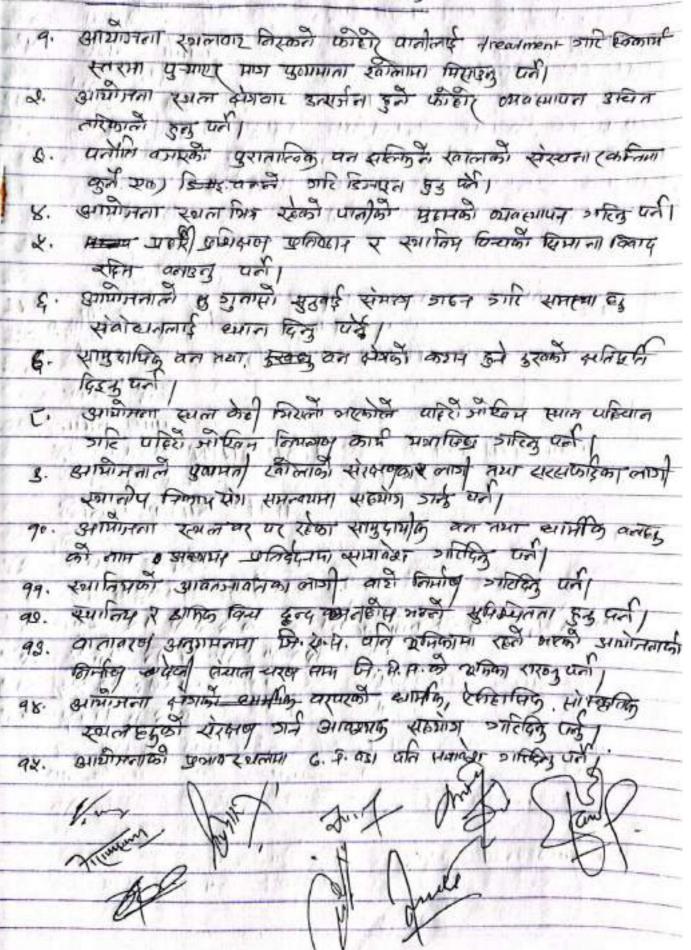
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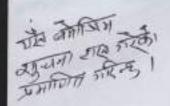
# यार्वनिक सुतुनाईमा उद्देश स्वालक्ष्य



**Issues Raised During Public Hearing and Responses** 

S.N.	Issues Raised During Public Hearing	Responses
1.	Wastewater/sewerage will be treated in acceptable limit	Incorporated in Table
1.	before discharging to the Punyamata Khola.	8.2-1 (A-C-P.4)
2.	Solid waste generated from the Project site will be managed	Incorporated in Table
۷.	in proper way.	8.2-1 (A-C-P.2)
3.	The construction of building (in any one) will be designed	Part of positive
<i>J</i> .	based on replicating Panauti' archaeological significance.	suggestion
4.	Appropriate management of Kuwa located within the	Incorporated in Table
7.	Project premises will be assured.	8.2-1 (A-C-S.1)
		Part of positive
5.	High level of understanding shall be developed between	suggestion and
β.	NPA and public on demarcation of boundary.	Incorporated in Table
		8.2-1 (A-C-S.2)
6	Establishment of Grievance Redress Mechanism to resolve	Incorporated in Table
6.	the public raised issues.	8.2-1 (A-C-S.4)
	Companyation for the trees to be out within the CE and other	Will be done in
7.	Compensation for the trees to be cut within the CF and other	accordance to the
	forest area.	provision of GoN rules
0	Appropriate mitigation measures shall be adopted in the	Incorporated in Table
8.	slopy and fresh cut areas that are susceptible to erosion.	8.2-1 (A-C-P.1)
	Support in coordination with local level for the	I
9.	environmental sanitation of Punyamata Khola from NPA	Incorporated in Table
	Project	8.2-1 (A-C-S.5)
		Forest lies within the
10.	Inclusion of CF/RF name in the EIA report.	Project boundary is
		incorporated
		Incorporated in Table
11.	Construction of access road for the ease mobility of locals	8.2-1 (A-C-S.5) and (A-
		O-S.1)
12	Assumance of no conflict between the leaste and laber-	Incorporated in Table
12.	Assurance of no conflict between the locals and labors	8.2-1 (A-C-S.4)
	Inclusion of role/engagement of District Coordination	In components die Table
13.	Committee (DCC) in monitoring during construction and	Incorporated in Table
	operation phase	9.3-2 and Table 9.3-3
	NPA Project will have to support for religious and cultural	Incorporated in Table
14.	sites located nearby the Project area in coordination with	Incorporated in Table
	local level	8.2-1 (A-C-S.5)
15	Word no. 7 should be added under Draiget immest area	Incorporated in Section
15.	Ward no. 7 should be added under Project impact area	3.4 (c)

# **APPENDIX 17:** PROOF AND DEEDS OF PUBLIC NOTICE AFFIXATION





#### गृह मन्त्रालय राष्ट्रिय प्रहरी प्रशिक्षण प्रतिष्ठान

महाराजगञ्ज, काठमाण्डी

# राष्ट्रिय प्रहरी प्रशिक्षण प्रतिष्ठान पनौती, काभ्रेपलान्चोक आयोजनाको वातावरणीय प्रभाव मूल्याङ्कन प्रतिवेदन तयारी सम्बन्धी सार्वजनिक सूचना

(वातावरण संरक्षण नियमावली, २०७७ को नियम ७ को उप-नियम (२) सँग सम्बन्धित)

(प्रकाशित मिति: २०७९/१०/०५ गते)

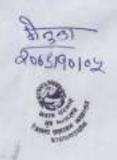
बागमती प्रदेश, काभ्रेपलान्चोक जिल्ला, पनौती नगरपालिकामा राष्ट्रिय प्रहरी प्रशिक्षण प्रतिष्ठान महाराजगञ्ज, काठमाण्डौँद्वारा निम्न बमोजिमको प्रस्ताव कार्यान्वयन गर्न लागिएको छ ।

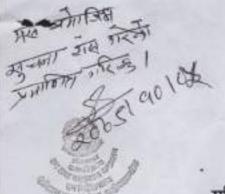
प्रस्तावकको नाम र ठेगाना	राष्ट्रिय प्रहरी प्रशिक्षण प्रतिष्ठान, महाराजगञ्ज, काठमाण्डौं फोनः ०१-४४२०५१७, ईमेलः npa_kavreproject@nepalpolice.gov.np
प्रस्तावको व्यहोरा	वागमती प्रदेश, काठमाण्डौं जिल्ला, काठमाण्डौं महानगरपालिका, वडा नं. ३, महाराजगञ्ज स्थित राष्ट्रिय प्रहरी प्रशिक्षण प्रतिष्ठान (तालिम केन्द्र) को व्यावसायिकता एवं प्रभावकारिता अभिवृद्धि गर्ने उद्श्यले भौतिक पूर्वाधार विस्तार गर्नका लागि प्रस्तावकद्वारा वागमती प्रदेश, काभ्रेपलाञ्चोक जिल्लाको पनौती नगरपालिका वडा नं. ६ मा रहेको देवीस्थान सामुदायिक वन क्षेत्र तथा प्रस्तावकको आफ्नो स्वामित्वमा रहेको गरी करिव ४१.८६ हेक्टर (वन क्षेत्र: ६.७ हेक्टर र प्रस्तवाक: ३५.१६ हेक्टर) क्षेत्रफल जिमनमा राष्ट्रिय प्रहरी प्रशिक्षण प्रतिष्ठान पनौतो, काभ्रेपलान्चोक आयोजना निर्माण गर्न लागिएको छ। प्रस्तावित आयोजनाको पुख्य संरचनाहरूमा प्रशासनिक भवन, ब्यारेक, मेस, अध्ययन भवन, सेमिनार हल, मोटर ट्रान्सपोर्ट कक्ष, सवारी साधन पार्किंग क्षेत्र, चमेना गृह, अडिटोरियम हल, स्पोर्ट्स कम्प्लेक्स गरी ५८ वटा भवनहरू निर्माण हुनेछन् भने सबै भन्दा अग्लो भवन ३८ मि. उचाईको हुनेछ।
प्रभाव पर्न सक्ने जिल्ला, न.पा./गा.पा.	काभ्रेपलान्चोक जिल्ला, पनौती नगरपालिका वडा नं. ६

माथि उल्लिखित प्रस्तावको वातावरणीय अध्ययन (वातावरणीय प्रभाव मूल्यांकन) प्रतिवेदन तयार गर्ने क्रममा सो क्षेत्रको प्राकृतिक भौतिक प्रणाली, जैविक प्रणाली, सामाजिक प्रणाली, सांस्कृतिक प्रणाली र आर्थिक प्रणालीहरूलाई के कस्तो प्रभाव पर्दछ भनी यकिन गर्न आयोजना रहने पनौती नगरपालिका तथा त्यस क्षेत्रका विद्यालय, अस्पताल, स्वास्थ चौकी, तथा सरोकारवाला व्यक्ति वा संस्थाको लिखित राय सुझाव लिन आवश्यक भएकोले यो सार्वजनिक सूचना प्रकाशन भएको मितिले सात (७) दिनभित्र निम्न ठेगानामा आई पुने गरी लिखित राय सुझाब उपलब्ध गराई दिनुहुन अनुरोध गरिन्छ।

राय सुझाबको लागि पत्राचार गर्ने ठेगानाः

प्रस्तावकको नाम र ठेगाना	परामर्शदाताः
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महाराजगञ्ज, काठमाण्डीं	का. म. न. पा. ३१, हनुमान मार्ग, शंखमुल
फोनः ०१-४४२०५१७	काठमाडौँ, बागमती प्रदेश, नेपाल
इमेल: npa_kavreproject@nepalpolice.gov.np	टेलिफोनः ०१-५२४२९१८/ ९८५१०९७०३६ ईमेलः researchenclave@gmail.com







महाराजगञ्ज, काठमाण्डी

## राष्ट्रिय प्रहरी प्रशिक्षण प्रतिष्ठान पनौती, काभ्रेपलान्चोक आयोजनाको वातावरणीय प्रभाव मूल्याङ्कन प्रतिवेदन तयारी सम्बन्धी सार्वजनिक सूचना

(वातावरण संरक्षण नियमावली, २०७७ को नियम ७ को उप-नियम (२) सँग सम्बन्धित)

(प्रकाशित मिति: २०७९/१०/०५ गते)

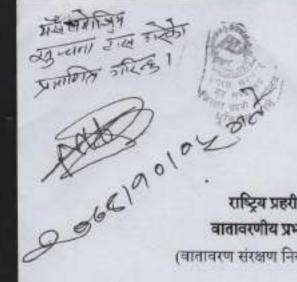
बागमती प्रदेश, काभ्रेपलान्चोक जिल्ला, पनौती नगरपालिकामा राष्ट्रिय प्रहरी प्रशिक्षण प्रतिष्ठान महाराजगञ्ज, काठमाण्डीद्वारा निम्न बमोजिमको प्रस्ताव कार्यान्वयन गर्न लागिएको छ ।

प्रस्तावकको नाम र ठेगाना	राष्ट्रिय प्रहरी प्रशिक्षण प्रतिष्ठान, महाराजगञ्ज, काठमाण्डौ फोनः ०१-४४२०५१७, ईमेलः npa_kavreproject@nepalpolice.gov.np
प्रस्तावको व्यहोरा	ज्ञागमती प्रदेश, काटमाण्डौं जिल्ला, काठमाण्डौं महानगरपालिका, वडा नं. ३, महाराजगञ्ज स्थित राष्ट्रिय प्रहरी प्रशिक्षण प्रतिष्ठान (तालिम केन्द्र) को व्यावसायिकता एवं प्रभावकारिता अभिवृद्धि गर्ने उदश्यले भौतिक पूर्वाधार विस्तार गर्नका लागि प्रस्तावकद्वारा बागमती प्रदेश, काभ्रेपलाञ्चोक जिल्लाको पनौती नगरपालिका वडा नं. ६ मा रहेको देवीस्थान सामुदायिक वन क्षेत्र तथा प्रस्तावकको आफ्नो स्वामित्वमा रहेको गरी करिव ४१.८६ हेक्टर (वन क्षेत्र: ६.७ हेक्टर र प्रस्तावक ३५.१६ हेक्टर) क्षेत्रफल जिल्लाको परी करिव ४१.८६ हेक्टर (वन क्षेत्र: ६.७ हेक्टर र प्रस्तावक ३५.१६ हेक्टर) क्षेत्रफल जिमनमा राष्ट्रिय प्रहरी प्रशिक्षण प्रतिष्ठान पनौती, काभ्रेपलान्चोक आयोजना निर्माण गर्न लागिएको छ। प्रस्तावित आयोजनाको मुख्य संरचनाहरूमा प्रशासनिक भवन, ब्यारेक, मेस, अध्ययन भवन, सेमिनार हल, मोटर ट्रान्सपोर्ट कक्ष, सवारी साधन पार्किंग क्षेत्र, चमेना गृह, अडिटोरियम हल, स्पोर्ट्स कम्प्लेक्स गरी ५८ वटा भवनहरू निर्माण हुनेछन् भने सबै भन्दा अस्तो भवन ३८ मि. उचाईको हुनेछ।
प्रभाव पर्न सक्ने जिल्ला, न.पा./पा.पा.	काभ्रेपलान्चोक जिल्ला, पनौती नगरपालिका वडा नं. ६

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राय सुझाबको लागि पत्राचार गर्ने ठेगाना:

प्रस्तावकको नाम र ठेगाना	परामर्शदाताः
राष्ट्रिय प्रहरी प्रशिक्षण प्रतिष्ठान महाराजगञ्ज, काउमाण्डीं फोनः ०१-४४२०५१७ ईमेलः пря_kavreproject@sepalpolice.gov.np	रिसर्च इन्क्लेव प्रा. लि. का. म. न. पा. ३१, हनुमान मार्ग, शखमुल काठमाडौँ, बागमती प्रदेश, नेपाल टेलिफोन: ०१-५२४२९१८/ ९८५१०९७०३६ ईमेल: researchenclave@gmail.com





महाराजगञ्ज, काठमाण्डी

राष्ट्रिय प्रहरी प्रशिक्षण प्रतिष्ठान पनौती, काभ्रेपलान्चोक आयोजनाको वातावरणीय प्रभाव मूल्याङ्कन प्रतिवेदन तयारी सम्बन्धी सार्वजनिक सूचना

(वातावरण संरक्षण नियमावली, २०७७ को नियम ७ को उप-नियम (२) सँग सम्बन्धित)

(प्रकाशित मिति: २०७९/१०/०५ गते)

बागमती प्रदेश, काभ्रेपलान्चोक जिल्ला, पनीती नगरपालिकामा राष्ट्रिय प्रहरी प्रशिक्षण प्रतिष्ठान महाराजगञ्ज, काठमाण्डौँद्वारा निम्न बमोजिमको प्रस्ताव कार्यान्वयन गर्न लागिएको छ ।

प्रस्तावकको नाम र ठेगाना	राष्ट्रिय प्रहरी प्रशिक्षण प्रतिष्ठान, महाराजगञ्ज, काठमाण्डौ फोनः ०१-४४२०५१७, ईमेलः пра_kavreproject@nepalpolice.gov.np
प्रस्तावको व्यहोरा	बागमती प्रदेश, काठमाण्डौं जिल्ला, काठमाण्डौं महानगरपालिका, वडा नं. ३, महाराजगञ्ज स्थित राष्ट्रिय प्रहरी प्रशिक्षण प्रतिष्ठान (तालिम केन्द्र) को व्यावसायिकता एवं प्रभावकारिता अभिवृद्धि गर्ने उद्श्यले भौतिक पूर्वाधार विस्तार गर्नका लागि प्रस्तावकद्वारा बागमती प्रदेश, काभ्रेपलाञ्चोक जिल्लाको पनौती नगरपालिका बडा नं. ६ मा रहेको देवीस्थान सामुदायिक वन क्षेत्र तथा प्रस्तावकको आपनो स्वामित्वमा रहेको गरी करिव ४१.८६ हेक्टर (वन क्षेत्र: ६.७ हेक्टर र प्रस्तवाक: ३५.१६ हेक्टर) क्षेत्रफल जिन्नमा ताष्ट्रिय प्रहरी प्रशिक्षण प्रतिष्ठान पनौती, काभ्रेपलाञ्चोक आयोजना निर्माण गर्न लागिएको छ। प्रस्तावित आयोजनाको मुख्य सरचनाहरूमा प्रशासनिक भवन, ब्यारेक, मेस, अध्ययन भवन, सेमिनार हल, मोटर ट्रान्सपोर्ट कक्ष, सवारी साधन पार्किंग क्षेत्र, चमेना गृह, अडिटोरियम हल, स्पोर्ट्स काम्प्लेक्स गरी ५८ वटा भवनहरू निर्माण हुनेछन् भने सबै भन्दा अग्लो भवन ३८ मि. उचाईको हुनेछ।
प्रभाव पर्ने सको जिल्ला, न.पा./गा.पा.	काभ्रेपलान्चोक जिल्ला, पनौती नगरपालिका वडा नं. ६

माथि उल्लिखित प्रस्तावको वातावरणीय अध्ययन (वातावरणीय प्रभाव मूल्यांकन) प्रतिवेदन तथार गर्ने क्रममा सो क्षेत्रको प्राकृतिक भौतिक प्रणाली, जैविक प्रणाली, सामाजिक प्रणाली, सांस्कृतिक प्रणाली र आर्थिक प्रणालीहरूलाई के कस्तो प्रभाव पर्दछ भनी यकिन गर्न आयोजना रहने पनौती नगरपालिका तथा तथस क्षेत्रका विद्यालय, अस्पताल, स्वास्थ चौकी, तथा सरोकारवाला व्यक्ति वा संस्थाको लिखित राय सुझाव लिन आवश्यक भएकोले यो सार्वजनिक सूचना प्रकाशन भएको मितिले सात (७) दिनभित्र निम्न देगानामा आई पुग्ने गरी लिखित राय सुझाव उपलब्ध गराई दिनुहुन अनुरोध गरिन्छ।

राय सुझाबको लागि पत्राचार गर्ने ठेगाना:

प्रस्तावकको नाम र ठेगाना	परामर्शदाताः
राष्ट्रिय प्रहरी प्रशिक्षण प्रतिष्ठान महाराजगञ्ज, काठमाण्डौं फोनः ०१-४४२०५१७ इमिलः apa_kavreproject@nepalpolice.gov.np	रिसर्च इन्क्लेव प्रा. लि. का. म. न. पा. ३१, हनुमान मार्ग, शंखमुल काठमाडौँ, बागमती प्रदेश, नेपाल टेलिफोन: ०१-५२४२९१८/ १८५१०९७०३६ इंमेल: researchenclave@gmail.com





महाराजगञ्ज, काठमाण्डी

## राष्ट्रिय प्रहरी प्रशिक्षण प्रतिष्ठान पनौती, काभ्रेपलान्चोक आयोजनाको वातावरणीय प्रभाव मूल्याङ्कन प्रतिवेदन तयारी सम्बन्धी सार्वजनिक सूचना

(वातावरण संरक्षण नियमावली, २०७७ को नियम ७ को उप-नियम (२) सँग सम्बन्धित)

(प्रकाशित मिति: २०७९/१०/०५ गते)

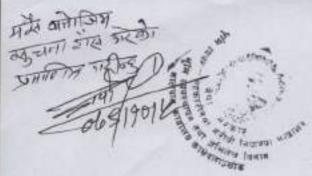
बागमती प्रदेश, काभ्रेषलान्चोक जिल्ला, पनौती नगरपालिकामा राष्ट्रिय प्रहरी प्रशिक्षण प्रतिष्ठान महाराजगञ्ज, काठमाण्डौँद्वारा निम्न बमोजिमको प्रस्ताव कार्यान्वयन गर्न लागिएको छ ।

प्रस्तावकको नाम र छेगाना	राष्ट्रिय प्रहरी प्रशिक्षण प्रतिष्ठान, महाराजगञ्ज, काठमाण्डी फोनः ०१-४४२०५१७, ईमेलः npa_kavreproject@nepalpolice.gov.np
प्रस्तावको ब्यहोरा	बागमती प्रदेश, काठमाण्डौ जिल्ला, काठमाण्डौ महानगरपालिका, वडा नं. ३, महाराजगञ्ज स्थित राष्ट्रिय प्रहरी प्रशिक्षण प्रतिष्ठान (तालिम केन्द्र) को व्यावसायिकता एवं प्रभावकारिता अभिवृद्धि गर्ने उद्श्यले भौतिक पूर्वाधार विस्तार गर्नका लागि प्रस्तावकद्वारा बागमती प्रदेश, काभ्रेपलाञ्चोक जिल्लाको पनौती नगरपालिका वडा नं. ६ मा रहेको देवास्थान सामुदायिक वन क्षेत्र तथा प्रस्तावकको आफ्नो स्वामित्वमा रहेको गरी करिव ४१.८६ हेक्टर (वन क्षेत्र: ६.७ हेक्टर र प्रस्तवाक: ३५.१६ हेक्टर) क्षेत्रफल जिमममा राष्ट्रिय प्रहरी प्रशिक्षण प्रतिष्ठान पनौती, काभ्रेपलान्चोक आयोजना निर्माण गर्न लागिएको छ। प्रस्तावित आयोजनाको मुख्य संरचनाहरूमा प्रशासनिक भवन, ब्यारेक, मेस, अध्ययन भवन, सेमिनार हल, मोटर ट्रान्सपोर्ट कक्ष, सवारी साधन पार्किंग क्षेत्र, चमेना गृह, अडिटोरियम हल, स्पोर्ट्स कम्प्लेक्स गरी ५८ वटा भवनहरू निर्माण हनेछन् भने सबै भन्दा अन्तो भवन ३८ मि. उदाईको हनेछ।
प्रभाव पर्न सक्ने जिल्ला, न.पा./गा.पा.	काभ्रेपलान्चोक जिल्ला, पनौती नगरपालिका वडा नं, ६

माथि उल्लिखित प्रस्तावको वातावरणीय अध्ययन (वातावरणीय प्रभाव मूल्यांकन) प्रतिवेदन तयार गर्ने क्रममा सो क्षेत्रको प्राकृतिक भौतिक प्रणाली, जैविक प्रणाली, सामाजिक प्रणाली, सांस्कृतिक प्रणाली र आर्थिक प्रणालीहरूलाई के कस्तो प्रभाव पर्दछ भनी यिकन गर्न आयोजना रहने पनौती नगरपालिका तथा त्यस क्षेत्रका विद्यालय, अस्पताल, स्वास्थ चौकी, तथा सरोकारवाला व्यक्ति वा संस्थाको लिखित राय सुझाव लिन आवश्यक भएकोले यो सार्वजनिक सूचना प्रकाशन भएको मितिले सात (७) दिनभित्र निम्न ठेगानामा आई पुग्ने गरी लिखित राय सुझाव उपलब्ध गराई दिनुहुन अनुरोध गरिन्छ।

राव सुझाबको लागि पत्राचार गर्ने ठेगाना:

प्रस्तावकको नाम र ठेगाना	परामर्शदाताः
राष्ट्रिय प्रहरी प्रशिक्षण प्रतिष्ठान महाराजगञ्ज, काठमाण्डौं फोनः ०१-४४२०५१७ इमेलः npa_kavreproject@nepalpolice.gov.np	रिसर्च इन्क्लेव प्रा. लि. का. म. न. पा. ३१, हनुमान मार्ग, शंखमुल काठमाडौँ, बागमती प्रदेश, नेपाल टेलिफोन: ०१-५२४२९१८/ ९८५१०९७०३६ ईमेल: researchenclave@gmail.com





नेपाल सरकार गुह मन्त्रालय

#### राष्ट्रिय प्रहरी प्रशिक्षण प्रतिष्ठान

महाराजगञ्ज, काठमाण्डी

# राष्ट्रिय प्रहरी प्रशिक्षण प्रतिष्ठान पनौती, काभ्रेपलान्चोक आयोजनाको वातावरणीय प्रभाव मूल्याङ्कन प्रतिवेदन तवारी सम्बन्धी सार्वजनिक सूचना

(वातावरण संरक्षण नियमावली, २०७७ को नियम ७ को उप-नियम (२) सँग सम्बन्धित)

(प्रकाशित मिति: २०७९/१०/०५ गते)

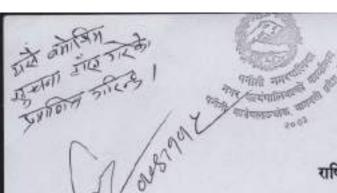
बागमती प्रदेश, काभ्रेपलान्चोक जिल्ला, पनौती नगरपालिकामा राष्ट्रिय प्रहरी प्रशिक्षण प्रतिष्ठान महाराजगञ्ज, काठमाण्डौंद्वारा निम्न बमोजिमको प्रस्ताव कार्यान्वयन गर्न लागिएको छ ।

प्रस्तावकको नाम र ठेगाना	साष्ट्रिय प्रहरी प्रशिक्षण प्रतिष्ठान, महाराजगञ्ज, काठमाण्डौं फोन: ०१.४४२०५१७ वेरिक
प्रस्तावको व्यहीरा	फोनः ०१-४४२०५१७, इंमेलः npa_kavreproject@nepalpolice.gov.np वागमती प्रदेश, काठमाण्डौं जिल्ला, काठमाण्डौं महानगरपालिका, चडा नं. ३, महाराजगञ्जिस्यत राष्ट्रिय प्रहरी प्रशिक्षण प्रतिष्ठान (तालिम केन्द्र) को व्यावसायिकता एवं प्रभावकारित अभिवृद्धि गर्ने उद्श्यले भौतिक पूर्वाधार विस्तार गर्नका लागि प्रस्तावकद्वारा वागमती प्रदेश काभ्रेपलाञ्चोक जिल्लाको पनौती नगरपालिका वडा नं. ६ मा रहेको देवीस्थान सामुदायिक वन क्षेत्र तथा प्रस्तावकको आफ्नो स्वामित्वमा रहेको गरी करिव ४१.८६ हेक्टर (वन क्षेत्र: ६.७ हेक्टर र प्रस्तवाक: ३५.१६ हेक्टर) क्षेत्रफल जिमनमा राष्ट्रिय प्रहरी प्रशिक्षण प्रतिष्ठान पनौती, काभ्रेपलान्चोक आयोजना निर्माण गर्न लागिएको छ। प्रस्तावित आयोजनाको मुख्य संरचनाहरूमा प्रशासनिक भवन, ब्यारेक, मेस, अध्ययन भवन, सेमिनार हल, मोटर ट्रान्सपोर्ट कक्ष, सवारी साधन पार्किंग क्षेत्र, चनेना गृह, अडिटोरियम हल, स्पोर्ट्स कम्प्लेक्स गरी ५८ वटा भवनहरू निर्माण हुनेछन् भने सबै भन्दा अग्लो भवन ३८ मि. उचाईको हुनेछ।
प्रभाव पर्न सक्वे जिल्ला, न.पा./गा.पा.	काभ्रेपलान्चोक जिल्ला, पनौती नगरपालिका वडा नं, ६

माथि उल्लिखित प्रस्तावको बाताबरणीय अध्ययन (बाताबरणीय प्रभाव मूल्यांकन) प्रतिवेदन तयार गर्ने क्रममा सो क्षेत्रको प्राकृतिक भौतिक प्रणाली, जैविक प्रणाली, सामाजिक प्रणाली, सांस्कृतिक प्रणाली र आर्थिक प्रणालीहरूलाई के कस्तो प्रभाव पर्दछ भनी यकिन गर्न आयोजना रहने पनौती नगरपालिका तथा त्यस क्षेत्रका विद्यालय, अस्पताल, स्वास्थ चौकी, तथा सरोकारवाला व्यक्ति वा संस्थाको लिखित राय सुझाव लिन आवश्यक भएकोले यो सार्वजनिक सूचना प्रकाशन भएको मितिले सात (७) दिनभित्र निम्न ठेगानामा आई पुग्ने गरी लिखित राय सुझाव उपलब्ध गराई दिनुहुन अनुरोध गरिन्छ।

राव सुझाबको लागि पत्राचार गर्ने ठेगाना:

प्रस्तावकको नाम र ठेगाना	परामर्शदाताः
राष्ट्रिय प्रहरी प्रशिक्षण प्रतिष्ठान	रिसर्च इन्क्लेब प्रा. लि.
महाराजगञ्ज, काठमाण्डी	का. म. न. पा. ३१, हनुमान मार्ग, शंखमुल
फोनः ०१-४४२०५१७	काठमाडौँ, बागमती प्रदेश, नेपाल
हमेला npa_kavreproject@ncpalpolice.gov.np	टेलिफोनः ०१-५२४२९१८/ ९८५१०९७०३६
	ईमेलः researchenclave@gmail.com





गृह मन्त्रालय

#### राष्ट्रिय प्रहरी प्रशिक्षण प्रतिष्ठान

महाराजगञ्ज, काठमाण्डी

राष्ट्रिय प्रहरी प्रशिक्षण प्रतिष्ठान पनौती, काभ्रेपलान्चोक आयोजनाको वातावरणीय प्रभाव मूल्याङ्कन प्रतिवेदन तयारी सम्बन्धी सार्वजनिक सूचना

(वातावरण संरक्षण नियमावली, २०७७ को नियम ७ को उप-नियम (२) सँग सम्बन्धित)

(प्रकाशित मिति: २०७९/१०/०५ गते)

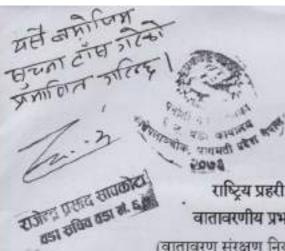
बागमती प्रदेश, काभ्रेपलान्चोक जिल्ला, पनौती नगरपालिकामा राष्ट्रिय प्रहरी प्रशिक्षण प्रतिष्ठान महाराजगञ्ज, काठमाण्डौँद्वारा निम्न बमोजिमको प्रस्ताव कार्यान्वयन गर्न लागिएको छ ।

प्रस्तावकको नाम र ठेगाना	राष्ट्रिय प्रहरी प्रशिक्षण प्रतिष्ठान, महाराजगञ्ज, काठमाण्डौ फोनः ०१-४४२०५१७, ईमेलः npa_kavreproject@nepalpolice.gov.np
प्रस्तावको व्यहोरा	बागमती प्रदेश, काठमाण्डौ जिल्ला, काठमाण्डौ महानगरपालिका, वडा नं. ३, महाराजगञ्ज स्थित राष्ट्रिय प्रहरी प्रशिक्षण प्रतिष्ठान (तालिम केन्द्र) को व्यावसायिकता एवं प्रभावकारिता अभिवृद्धि गर्ने उद्श्यले भौतिक पूर्वाधार विस्तार गर्नका लागि प्रस्तावकद्वारा बागमती प्रदेश, काभ्रेपलाञ्चोक जिल्लाको पनौती नगरपालिका वडा नं. ६ मा रहेको देवीस्थान सामुदायिक वन क्षेत्र तथा प्रस्तावकको आपनो स्वामित्वमा रहेको गरी करिव ४१.८६ हेक्टर (वन क्षेत्र: ६.७ हेक्टर र प्रस्तावक: ३५.१६ हेक्टर) क्षेत्रफल जिन्नमा राष्ट्रिय प्रहरी प्रशिक्षण प्रतिष्ठान पनौती, काभ्रेपलाञ्चोक आयोजना निर्माण गर्न लागिएको छ। प्रस्तावित आयोजनाको मुख्य संरचनाहरूमा प्रशासनिक भवन, ब्यारेक, मेस, अध्ययन भवन, स्रोमनार हल, मोटर ट्रान्सपोर्ट कक्ष, सबारी साधन पार्किंग क्षेत्र, चमेना गृह, अडिटोरियम हल, स्पोर्ट्स कम्प्लेक्स गरी ५८ वटा भवनहरू निर्माण हुनेछन् भने सबै भन्दा अग्लो भवन ३८ मि. उचाईको हुनेछ।
प्रभाव पर्न सक्ने जिल्ला, न.पा./गा.पा.	काभ्रेपलान्चोक जिल्ला, पनौती नगरपालिका वडा नं. ६

माथि उल्लिखित प्रस्तावको वातावरणीय अध्ययन (वातावरणीय प्रभाव मृल्यांकन) प्रतिवेदन तयार गर्ने क्रममा सो क्षेत्रको प्राकृतिक भीतिक प्रणाली, जैविक प्रणाली, सामाजिक प्रणाली, सांस्कृतिक प्रणाली र आर्थिक प्रणालीहरूलाई के कस्तो प्रभाव पर्दछ भनी यिकन गर्ने आयोजना रहने पनौती नगरपालिका तथा त्यस क्षेत्रका विद्यालय, अस्पताल, स्वास्थ चौकी, तथा सरोकारवाला व्यक्ति वा संस्थाको लिखित राय मुझाव लिन आवश्यक भएकोले यो सार्वजनिक सूचना प्रकाशन भएको मितिले सात (७) दिनभित्र निम्न ठेगानामा आई पुग्ने गरी लिखित राय मुझाब उपलब्ध गराई दिनुहुन अनुरोध गरिन्छ।

राय सुझाबको लागि पत्राचार गर्ने ठेगाना:

प्रस्तावकको नाम र ठेगाना	परामर्शदाताः
राष्ट्रिय प्रहरी प्रशिक्षण प्रतिष्ठान महाराजगञ्ज, काठमाण्डौ फोनः ०१-४४२०५१७ ईमेलः при_kavreproject@nepalpolice.gov.np	रिसर्च इन्क्लेव प्रा. लि. का. म. न. पा. ३१, हनुमान मार्ग, शंखमुल काठमाडौँ, बागमती प्रदेश, नेपाल टेलिफोन: ०१-५२४२९१८/ ९८५१०९७०३६ ईमेल: researchenclave@gmail.com





महाराजगञ्ज, काठमाण्डी

राष्ट्रिय प्रहरी प्रशिक्षण प्रतिष्ठान पनौती, काभ्रेपलान्चोक आयोजनाको वातावरणीय प्रभाव मूल्याङ्कन प्रतिवेदन तयारी सम्बन्धी सार्वजनिक सूचना

(वातावरण संरक्षण नियमावली, २०७७ को नियम ७ को उप-नियम (२) सँग सम्बन्धित)

(प्रकाशित मिति: २०७९/१०/०५ गते)

बागमती प्रदेश, काभ्रेपलान्चोक जिल्ला, पनौती नगरपालिकामा राष्ट्रिय प्रहरी प्रशिक्षण प्रतिष्ठान महाराजगञ्ज, काठमाण्डौंद्वारा निम्न बमोजिमको प्रस्ताव कार्यान्वयन गर्न लागिएको छ।

प्रस्तावकको नाम र ठेगाना	राष्ट्रिय प्रहरी प्रशिक्षण प्रतिष्ठान, महाराजगञ्ज, काठमाण्डौं फोनः ०१-४४२०५१७, ईमेलः nps_kavreproject@nepalpolice.gov.np
प्रस्तावको व्यहोरा	बागमती प्रदेश, काठमाण्डौं जिल्ला, काठमाण्डौं महानगरपालिका, वडा नं. ३, महाराजगञ्ज स्थित राष्ट्रिय प्रहरी प्रशिक्षण प्रतिष्ठान (तालिम केन्द्र) को व्यावसायिकता एवं प्रभावकारिता अभिवृद्धि गर्ने उद्श्यले भौतिक पूर्वाधार विस्तार गर्नका लागि प्रस्तावकद्वारा बागमती प्रदेश, काभ्रेपलाञ्चोक जिल्लाको पनौती नगरपालिका वडा नं. ६ मा रहेको देवीस्थान सामुदायिक वन क्षेत्र तथा प्रस्तावकको आफ्नो स्वामित्वमा रहेको गरी करिव ४१.८६ हेक्टर (वन क्षेत्र: ६.७ हेक्टर र प्रस्तवाक: ३५.१६ हेक्टर) क्षेत्रफल जिमनमा राष्ट्रिय प्रहरी प्रशिक्षण प्रतिष्ठान पनौती, काभ्रेपलान्चोक आयोजना निर्माण गर्न लागिएको छ। प्रस्तावित आयोजनाको मुख्य संरचनाहरूमा प्रशासनिक भवन, ब्यारेक, मेस, अध्ययन भवन, सेमिनार हल, मोटर ट्रान्सपोर्ट कक्ष, सवारी साधन पार्किंग क्षेत्र, चमेना गृह, अडिटोरियम हल, स्पोर्ट्स कम्प्लेक्स गरी ५८ वटा भवनहरू निर्माण हुनेछन् भने सबै भन्दा अस्लो भवन ३८ मि. उचाईको हुनेछ।
प्रभाव पर्न सक्ने जिल्ला, न.पा./गा.पा.	काभ्रेपलान्चोक जिल्ला, पनीती नगरपालिका वडा नं. ६

माथि उल्लिखित प्रस्तावको वातावरणीय अध्ययन (वातावरणीय प्रभाव मृल्यांकन) प्रतिवेदन तवार गर्ने क्रममा सो क्षेत्रको प्राकृतिक भौतिक प्रणाली, जैविक प्रणाली, सामाजिक प्रणाली, सांस्कृतिक प्रणाली र आर्थिक प्रणालीहरूलाई के कस्तो प्रभाव पर्दछ भनी यकिन गर्न आयोजना रहने पनौती नगरपालिका तथा त्यस क्षेत्रका विद्यालय, अस्पताल, स्वास्थ चौकी, तथा सरोकारवाला व्यक्ति वा संस्थाको लिखित राय सुझाव लिन आवश्यक भएकोले यो सार्वजनिक सूचना प्रकाशन भएको मितिले सात (७) दिनभित्र निम्न ठेगानामा आई पुग्ने गरी लिखित राय सुझाव उपलब्ध गराई दिनुहुन अनुरोध गरिन्छ।

राय सुझाबको लागि पत्राचार गर्ने ठेगानाः

प्रस्तावकको नाम र टेगाना	परामर्शदाताः
राष्ट्रिय प्रहरी प्रशिक्षण प्रतिष्ठान महाराजगञ्ज, काठमाण्डीं फोनः ०१-४४२०५१७ इंमेलः npa_kavreproject@nepalpolice.gov.np	रिसर्च इन्क्लेब प्रा. लि. का. म. न. पा. ३१, हनुमान मार्ग, शंखमुल काठमाडौँ, बागमती प्रदेश, नेपाल टेलिफोन: ०१-५२४२९१८/९८५१०९७०३६ ईमेल: researchenclave@gmail.com

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गृह मन्त्रालग

#### राष्ट्रिय प्रहरी प्रशिक्षण प्रतिष्ठान

महाराजगञ्ज, काटमाण्डी

# राष्ट्रिय प्रहरी प्रशिक्षण प्रतिष्ठान पनौती, काभ्रेपलान्चोक आयोजनाको वातावरणीय प्रभाव मूल्याङ्कन प्रतिवेदन तयारी सम्बन्धी सार्वजनिक सूचना

(वातावरण संरक्षण नियमावली, २०७७ को नियम ७ को उप-नियम (२) सँग सम्बन्धित)

(प्रकाशित मिति: २०७९/१०/०५ गते)

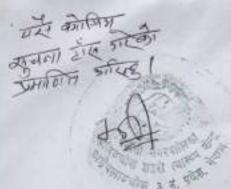
बागमती प्रदेश, काभ्रेपलान्चोक जिल्ला, पनौती नगरपालिकामा राष्ट्रिय प्रहरी प्रशिक्षण प्रतिष्ठान महाराजगञ्ज, काठमाण्डौंद्वारा निम्न बमोजिमको प्रस्ताव कार्यान्वयन गर्न लागिएको छ ।

प्रस्तावकको नाम र ठेगाना	राष्ट्रिय प्रहरी प्रशिक्षण प्रतिष्ठान, महाराजगञ्ज, काठमाण्डी फोनः ०१-४४२०५१७, ईमेलः npa_kavreprojecti@ncpalpolice.gov.np
प्रस्तावको व्यहोस	बागमती प्रदेश, काठमाण्डों जिल्ला, काठमाण्डों महानगरपालिका, वडा नं. ३, महाराजगञ्ज स्थित राष्ट्रिय प्रहरी प्रशिक्षण प्रतिष्ठान (तालिम केन्द्र) को ज्यावसायिकता एवं प्रभावकारिता अभिवृद्धि गर्ने उद्श्यले भौतिक पूर्वाधार विस्तार गर्नका लागि प्रस्तावकद्वारा बागमती प्रदेश, काभ्रेपलाञ्चोक जिल्लाको पनौती नगरपालिका वडा नं. ६ मा रहेको देवीस्थान सामुदायिक वन क्षेत्र तथा प्रस्तावकको आफ्नो स्वामित्वमा रहेको गरी करिव ४१.८६ हेक्टर (वन क्षेत्र: ६.७ हेक्टर र प्रस्तवाक: ३५,१६ हेक्टर) क्षेत्रफल जिमनमा राष्ट्रिय प्रहरी प्रशिक्षण प्रतिष्ठान पनौती, काभ्रेपलाञ्चोक आयोजना निर्माण गर्न लागिएको छ। प्रस्तावित आयोजनाको मुख्य संरचनाहरुमा प्रशासनिक भवन, ब्यारेक, मेस, अध्ययन भवन, सेमिनार हल, मोटर ट्रान्सपोर्ट कक्ष, सवारी साधन पार्किंग क्षेत्र, चमेना गृह, अडिटोरियम हल, स्पोर्ट्स कम्प्लेक्स गरी ५८ वटा भवनहरू निर्माण हुनेछन् भने सबै भन्दा अग्लो भवन ३८ मि, उचाईको हुनेछ।
प्रभाव पर्न सक्ने जिल्ला, न.पा./गा.पा.	काभ्रेपलान्चोक जिल्ला, पनौती नगरपालिका वडा नं. ६

माथि उल्लिखित प्रस्तावको बातावरणीय अध्ययन (बातावरणीय प्रभाव मृल्यांकन) प्रतिवेदन तथार गर्ने क्रममा सो क्षेत्रको प्राकृतिक भौतिक प्रणाली, जैविक प्रणाली, सामाजिक प्रणाली, सांस्कृतिक प्रणाली र आर्थिक प्रणालीहरूलाई के कस्तो प्रभाव पर्दछ भनी यिकन गर्ने आयोजना रहने पनौती नगरपालिका तथा त्यस क्षेत्रका विद्यालय, अस्पताल, स्वास्थ चौकी, तथा सरोकारवाला व्यक्ति वा संस्थाको लिखित राय सुझाव लिन आवश्यक भएकोले यो सार्वजनिक सूचना प्रकाशन भएको मितिले सात (७) दिनभित्र निम्न ठेगानामा आई पुम्ने गरी लिखित राय सुझाव उपलब्ध गराई दिनुहुन अनुरोध गरिन्छ।

राय सुझाबको लागि पत्राचार गर्ने ठेगाना:

प्रस्तावकको नाम र ठेगाना	परामर्शवाताः
राष्ट्रिय प्रहरी प्रशिक्षण प्रतिष्ठान महाराजगञ्ज, काठमाण्डी फोनः ०१-४४२०५१७ ईमेलः apa_kavreproject@nepalpolice.gov.np	रिसर्च इन्क्लेव प्रा. लि. का. म. न. पा. ३१, हनुमान मार्ग, शंखमुल काठमाडौँ, बागमती प्रदेश, नेपाल टेलिफोन: ०१-५२४२९१८/ १८५१०९७०३६ ईमेल: researchenclave@gmail.com





महाराजगञ्ज, काठमाण्डी

## राष्ट्रिय प्रहरी प्रशिक्षण प्रतिष्ठान पनौती, काभ्रेपलान्चोक आयोजनाको वातावरणीय प्रभाव मूल्याङ्कन प्रतिवेदन तयारी सम्बन्धी सार्वजनिक सूचना

(वातावरण संरक्षण नियमावली, २०७७ को नियम ७ को उप-नियम (२) सँग सम्बन्धित)

(प्रकाशित मिति: २०७९/१०/०५ गते)

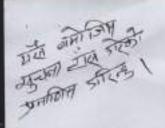
बागमती प्रदेश, काभ्रेपलान्चोक जिल्ला, पनौती नगरपालिकामा राष्ट्रिय प्रहरी प्रशिक्षण प्रतिष्ठान महाराजगञ्ज, काठमाण्डीँद्वारा निम्न बमोजिमको प्रस्ताव कार्यान्वयन गर्न लागिएको छ ।

प्रस्तावकको नाम र ठेगाना	राष्ट्रिय प्रहरी प्रशिक्षण प्रतिष्ठान, महाराजगञ्ज, काठमाण्डी फोनः ०१-४४२०५१७, ईमेलः npa_kavreproject@nepalpolice.gov.np
प्रस्तावको व्यहोरा	बागमती प्रदेश, काठमाण्डौं जिल्ला, काठमाण्डौं महानगरपालिका, वडा नं. ३, महाराजगञ्ज स्थित राष्ट्रिय प्रहरी प्रशिक्षण प्रतिष्ठान (तालिम केन्द्र) को व्यावसायिकता एवं प्रभावकारिता अभिवृद्धि गर्ने उद्श्यले भौतिक पूर्वाधार विस्तार गर्नका लागि प्रस्तावकद्वारा बागमती प्रदेश, काभ्रेपलाञ्चोक जिल्लाको पनौती नगरपालिका वडा नं. ६ मा रहेको देवीस्थान सामुदायिक वन क्षेत्र तथा प्रस्तावकको आपनो स्वामित्वमा रहेको गरी करिव ४१.८६ हेक्टर (वन क्षेत्र: ६.७ हेक्टर र प्रस्तवाक: ३५.१६ हेक्टर) क्षेत्रफल जिल्लामा राष्ट्रिय प्रहरी प्रशिक्षण प्रतिष्ठान पनौती, काभ्रेपलान्चोक आयोजना निर्माण गर्न लागिएको छ। प्रस्तावित आयोजनाको मुख्य संरचनाहरूमा प्रशासनिक भवन, व्यारेक, मेस, अध्ययन भवन, संमिनार हल, मोटर ट्रान्सपोर्ट कक्ष, सवारी साधन पार्किंग क्षेत्र, चमेना गृह, अडिटोरियम हल, स्पोर्ट्स कम्प्लेक्स गरी ५८ वटा भवनहरू निर्माण हुनेछन् भने सबै भन्दा अग्लो भवन ३८ मि उचाईको हुनेछ।
प्रभाव पर्न सक्ने जिल्ला, न.पा./गा.पा.	काभ्रेपलान्चोक जिल्ला, पनौती नगरपालिका वडा नं. ६

माथि उल्लिखित प्रस्तावको वातावरणीय अध्ययन (वातावरणीय प्रभाव मूल्यांकन) प्रतिवेदन तथार गर्ने क्रममा सो क्षेत्रको प्राकृतिक भीतिक प्रणाली, जैविक प्रणाली, सामाजिक प्रणाली, सांस्कृतिक प्रणाली र आर्थिक प्रणालीहरूलाई के कस्तो प्रभाव पर्दछ भनी यिकन गर्ने आयोजना रहने पनौती नगरपालिका तथा त्यस क्षेत्रका विद्यालय, अस्पताल, स्वास्थ चौकी, तथा सरोकारवाला व्यक्ति वा संस्थाको लिखित राय मुझाव लिन आवश्यक भएकोले यो सार्वजनिक सूचना प्रकाशन भएको मितिले सात (७) दिनभित्र निम्न ठेगानामा आई पुन्ने गरी लिखित राय सुझाव उपलब्ध गराई दिनुहुन अनुरोध गरिन्छ।

राय सुझाबको लागि पत्राचार गर्ने ठेगानाः

प्रस्तावकको नाम र ठेगाना	परामर्रादाताः
राष्ट्रिय प्रहरी प्रशिक्षण प्रतिष्ठान महाराजगञ्ज, काठमाण्डौं फोनः ०१-४४२०५१७ इंमेलः npa_kavreproject@nepalpolice.gov.np	रिसर्च इन्क्लेव प्रा. लि. का. म. न. पा. ३१, हनुमान मार्ग, शंखमुल काठमाडौँ, बागमती प्रदेश, नेपाल टेलिफोन: ०१-५२४२९१८/ ९८५१०९७०३६ इमेल: researchenclave@gmail.com





#### राष्ट्रिय प्रहरी प्रशिक्षण प्रतिष्ठान

महाराजगञ्ज, काटमाण्डी

#### राष्ट्रिय प्रहरी प्रशिक्षण प्रतिष्ठान पनौती, काभ्रेपलान्चोक आयोजनाको वातावरणीय प्रभाव मूल्याङ्कन प्रतिवेदन तयारी सम्बन्धी सार्वजनिक सूचना

(बातावरण संरक्षण नियमावली, २०७७ को नियम ७ को उप-नियम (२) सँग सम्बन्धित)

(प्रकाशित मिति: २०७९/१०/०५ गते)

बागमतो प्रदेश, काभ्रेपलान्चोक जिल्ला, पनौती नगरपालिकामा राष्ट्रिय प्रहरी प्रशिक्षण प्रतिष्ठान महाराजगञ्ज, काठमाण्डौंद्रारा निम्न बमोजिमको प्रस्ताव कार्यान्वयन गर्न लागिएको छ ।

प्रस्तावकको नाम र ठेगाना	राष्ट्रिय प्रहरी प्रशिक्षण प्रतिष्ठान, महाराजगञ्ज, काठमाण्डौं फोन: ०१-४४२०५१७, ईमेल: npa_kavreproject@nepalpolice.gov.np
प्रस्तावको व्यहोग्र	बागमती प्रदेश, काठमाण्डीं जिल्ला, काठमाण्डीं महानगरपालिका, वडा नं. ३, महाराजगञ्ज स्थित राष्ट्रिय प्रहरी प्रशिक्षण प्रतिष्ठान (तालिम केन्द्र) को व्यावसायिकता एवं प्रभावकारिता अभिवृद्धि गर्ने उद्श्यले भौतिक पूर्वाधार विस्तार गर्नका लागि प्रस्तावकद्वारा बागमती प्रदेश, काभ्रेपलाञ्चोक जिल्लाको पनौती नगरपालिका वडा नं. ६ मा रहेको देवीस्थान सामुदायिक वन क्षेत्र तथा प्रस्तावकको आफ्नो स्वामित्वमा रहेको गरी करिव ४१.८६ हेक्टर (वन क्षेत्र: ६.७ हेक्टर र प्रस्तवाक: ३५.१६ हेक्टर) क्षेत्रफल जिमनमा राष्ट्रिय प्रहरी प्रशिक्षण प्रतिष्ठान पनौती, काभ्रेपलाञ्चोक आयोजना निर्माण गर्न लागिएको छ। प्रस्तावित आयोजनाको मुख्य संस्थनाहरूमा प्रशासनिक भवन, ब्यारेक, मेस, अध्ययन भवन, संभिनार इल, मोटर ट्रान्सपोर्ट कस, सवारी साधन पार्किंग क्षेत्र, चमेना गृह, अडिटोरियम इल, स्पोर्ट्स काण्लेक्स गरी ५८ वटा भवनहरू निर्माण हुनेछन् भने सबै भन्दा अग्लो भवन ३८ मि. उचाईको हुनेछ।
प्रभाव पर्न सक्ने जिल्ला, न.पा./गा.पा.	काभ्रेपलान्चोक जिल्ला, पनौती नगरपालिका वडा नं. ६

माथि उल्लिखित प्रस्तावको वातावरणीय अध्ययन (वातावरणीय प्रभाव मूल्यांकन) प्रतिवेदन तयार गर्ने क्रममा सो क्षेत्रको प्राकृतिक भौतिक प्रणाली, जैविक प्रणाली, सामाजिक प्रणाली, सांस्कृतिक प्रणाली र आर्थिक प्रणालीहरूलाई के कस्तो प्रभाव पर्दछ भनी यिकन गर्न आयोजना रहने पनौती नगरपालिका तथा त्यस क्षेत्रका विद्यालय, अस्पताल, स्वास्थ चौकी, तथा सरोकारवाला व्यक्ति वा संस्थाको लिखित राय सुझाव लिन आवश्यक भएकोले यो सार्वजनिक सूचना प्रकाशन भएको मितिले सात (७) दिनभित्र निम्न ठेगानामा आई पुग्ने गरी लिखित राय सुझाब उपलब्ध गराई दिनुहुन अनुरोध गरिन्छ।

राय सुझाबको लागि पत्राचार गर्ने ठेगाना:

प्रस्तावकको नाम र ठेगाना	परामर्शदाताः
गुरिय प्रसी पुणिला पुलिला	रिसर्च इन्क्लेव प्रा. लि.
राष्ट्रिय प्रहरी प्रशिक्षण प्रतिष्ठान महाराजगञ्ज, काठमाण्डी कोनः ०१-४४२०५१७	का. म. न. पा. ३१, हनुमान मार्ग, शंखमुल काठमाडौँ, बागमती प्रदेश, नेपाल टेलिफोन: ०१-५२४२९१८/ ९८५१०९७०३६
इमलः nps_kavreproject@nepalpolice.gov.np	ईमेलः researchenclave@gmail.com



Jan 1

# APPENDIX 18: PUBLISHED PUBLIC NOTICE FOR EIA REPORT PREPARATION





#### नेपाल सरकार

गृह मन्त्रालय

मिहदरबार, काठमाण्डी

राष्ट्रिय प्रहरी प्रशिक्षण प्रतिष्ठान पनीती, काम्रेपलान्सोक आयोजनाको

#### वातावरणीय प्रभाव मृल्याङ्कन प्रतिवेदन तयारी सम्बन्धी सार्वजनिक सूचना

(वातावरम संरक्षण नियमावली, २०४० को नियम ७ को उप-नियम (२) सँग सम्बन्धित)

(प्रथम पटका प्रकाशित मिति: २०७९/१०/१३ गते)

protection and a paper.	वर्षपुर प्रशी प्रतिभाग परिवास वरतामाञ्चन कारामानी कोतः चर १९५४ च र ४ विमः चर्च अल्यानुसार संस्थानिक (साथ वर्ष
see a see and the	वारावर्त क्रिक, बाव्याच्ये विकास, वक्ताच्ये वाराव्याचिका, स्थान है के क्षाराव्याच्या क्षिण क्षाप्त विकास विवास (तरिक क्षेत्र) के वार्व्याधिका एवं अध्यानकारिया अधिकृति पर्ते वेद्याचा प्रियम विकास क्षाराव्याच्या कार्याच्या कार्याच्याच्या कार्याच्याच्या कार्याच्याच्याच्याच्याच्याच कार्याच्याच कार्याच्याच कार्याच्याच कार्याच्याच कार्याच्याच कार्याच्याच कार्याच्याच कार्याच का
प्रशास करें काले जिल्हा, रूपा /पा म	अव्योगमान्त्रोक जिल्ला, वर्गीओ नामप्रतिका कहा ग. ६

नावि वरिकामिक असामधी मात्रकारोच अध्यक्ष (भागवान प्रथान कृत्याकन) प्रतिकेदन तथारी गर्ने क्रमण सो बेंग्बर प्रभृतिक प्रमानी, विकेश प्रणाली, शांतांकक प्रभावी, सारकृतिक प्रमानी । आर्थिक ्राच्या निवासे स्वामी प्रशास पर्वत पर्वत मार्था करा प्रयोग सामानिका एक स्वाम केवल विकास स्वास्त्र सहस्था वीली, तथा महत्वासा व्यक्ति या संस्थाको निवास एक सुवास हिन्द अपवास स अपनीते यो सार्वजनिक क्षत्रा प्रकाश काओ विक्ति सार (७) विशेषा दिन वेटनामा नाई पुणे गाँ तिथित रात मुद्राम जातम्य वर्ज विनुहुन अयोध तीवतः।

STREET STATE S PORT S P	- matter		
राष्ट्रित क्रमी प्रशिक्षण क्रीतकार, महाराज्यान्त, काठमणकी क्षोत्रः ११-११२२४५१वः सिन्तः तथ्य (१४-१४) १०००० व्यवस्थान्य (१४-१४)	The party of the or of the order of the orde		

# **APPENDIX 19:** RECOMMENDATION LETTER FROM STAKEHOLDERS



प्रा.प.स. :

पत्र संख्या :२-०४-०१(०७९)०८०)

जेपाल सरकार गृह मन्त्रालय जिल्ला पहरी कार्यालर प्रशासन शाखा ) कोन: ०११४९०१००-०११४९०२३०-

धुलिखेल, काभ्रेपलाञ्चोक। मिति:- २०७९।११।०२ गते।

विषय:- राय सुझाव सहित सिफारिस गरिएको बारे।

श्री राष्ट्रिय प्रहरी प्रशिक्षण प्रतिष्ठान,

(काञ्रे परियोजना उप-शाखा) महाराजगंज काठमाण्डौं ।

उपरोक्त सम्बन्धमा तालुक प्रतिष्ठानको च.नं.१७२ मिति २०७९।१०।२५ गतेको पत्रद्वारा माग भई आएको बिबरण तपशिल बमोजिम खुलाई पठाईएको ब्यहोरा सादर अनुरोध गरिएको छ ।

#### (क) सकारात्मक प्रभाव:

- १. स्थानीय स्तरमा रोजगारीको अवसर सुबना।
- २. आन्तरिक बजार प्रवर्द्धन ।
- ३. स्थानीय स्तरमा उत्पादित बस्तुहरुको बजारीकरण।
- ४. स्थानीय मानिसहरुको आय आर्जनमा बृद्धि ।
- ५. प्रहरी र स्थानीय बीचको सम्बन्धमा सुधार।
- ६. स्थानीय जनतामा शान्ति सुरक्षाको प्रत्याभुती।

#### (ख)नकारात्मक प्रभाव:

१.प्रशिक्षणको क्रममा फायरिङ लगायतका प्रशिक्षणका दैनिक गतिबिधीहरुवाट स्थानीय मानिसहरुलाई असहज महशुस हुन सक्ने।

उल्लेखित प्रभावको आधारमा सकारात्मक प्रभावलाई बढोत्तरी र नकारात्मक प्रभावलाई न्युनिकरण गर्ने वातावरणीय व्यवस्थापनको योजना कार्यान्वयन गर्दा उल्लेखित प्रस्तावको सकारात्मक प्रभाव बढि हुने देखिएकोले उल्लेखित प्रस्ताव निम्न आधारमा कार्यान्वयन गर्ने मिल्ने व्यहोरा उल्लेख गरी यो सिफारिस गरिएको छ ।

#### प्रस्ताव कार्यान्वयन गर्न मिल्ने आधार

१.कानुन कार्यान्वयन गर्ने प्रमुख दायित्व रहेको नेपाल प्रहरी संगठनको राष्ट्रिय प्रहरी प्रशिक्षण प्रतिष्ठानमा अन्तराष्ट्रिय स्तरको भौतिक पुर्वाघारको विकास भई दक्ष प्रहरी जनशक्ति उत्पादन गरी आन्तरिक सुरक्षा व्यवस्था मजबुद भई अन्तराष्ट्रिय स्तरमा समेत राष्ट्रको गरिमा बढ्ने।

२.राष्ट्रिय प्रहरी प्रशिक्षण प्रतिष्ठान स्थापना हुँदा स्थानीय तहको स्तरियता झल्काउनुको साथै सहरीकरण भई आम जनजीवनमा सकारात्मक परिवर्तन हुने।

३.सामाजिक, आर्थिक एवं सास्कृतिक विकास हुने।

प्रस्ताव कार्यान्वयन गर्न नमिल्ने आधार

१.सकारात्मक प्रभावलाई मध्यनजर राख्दा प्रस्ताव कार्यान्वयन गर्न नमिल्ने आधार नदेखिएको ।

कार्यालय प्रमुख (भाग्येन्द्र पुरुष ढकाल) प्रहरी उपरीक्षक सिफारिसपत्रको ढाँचा | वातावरण संरक्षण नियमावर्ता ५०५० को अनुसूची १४ बमोजिमको ढाँचा)

> कार्यासयको हाम, ठ्रेगाना कार्यासयको छाप

PAR 2065199/03

劇	साद्रिष	.तिहर	90008	75.,	कार्यलय	
	MEKNA					

#### विषयः राय सङ्गाब सहित सिफारिस गरिएको बारे ।

प्रस्तुत विषयमा त्यस कार्यालयको मिति 🕹 🐧 🐧 📜 . . . . . . को प्रकाशित सूचना र २०७९/०९/१६ को सार्वजनिक सुनुवाई अनुसार कार्यान्चयन हुने "राष्ट्रिय प्रहरी प्रशिक्षण प्रतिष्ठान पनौती, काभ्रेपलान्छोक आयोजना" विषयको प्रस्तावबाट यस क्षेत्रमा निम्नानुसारको वातावरणीय प्रभाव पर्न जाने देखिन्छ:-

(क) सकारात्मक प्रभावः । स्थानिम् वाधिकाले द्रीण जारि पाउने । आतिष्ठ प्रकाराहरूको निकालमा देवा । (क) नकारात्मक प्रभावः । १८०१ने पुरुषण, फोहोरोंना खद्रन दानो । अवस्था पुरुषण, फोहोरोंना खद्रन दानो । अस्मातको भाषामा प्रकार ।

उल्लिखित प्रभावको आधारमा सकारात्मक प्रभावलाई बढोतरी र नकारात्मक प्रभावलाई न्यूनीकरण गर्ने वातावरणीय व्यवस्थापनको योजना कार्यान्वयन गर्दा उल्लिखित प्रस्तावको सकारात्मक प्रभाव/नकारात्मक प्रभाव बढी हुने देखिएकोले उल्लिखित प्रस्ताव निम्न आधारमा कार्यान्वयन गर्न मिल्ने/नमिल्ने व्यहोरा उल्लेख गरी यो सिफारिस गरिएको छ ।

त्रस्ताव कांद्राब्ववंश शंग भिरुष आसार वा	Ascid didieddu su ululeu mais
<ul> <li>ह्लाते. प्रक्षपाकेत्रायण्यापा, शेरा</li> </ul>	₹.
२. फोहो दर्भेणाको अचितः वयवस्थला	٧.
3. पारिको पुराग लंबरद्यन गर्म. द्रुख विक्याके खुणवर्स गोर	3.
v. वाषु. प्रद्वाणा किस्त्रण जोत्द,	W.
	Josh :
	दस्तखतः र्
	नामः गद्राकु ज्यार
	पदः कि - अ-हे-प
बोधार्थं श्री,	., कार्यातय/विभाग/मन्त्रातय

सिफारिसपत्रको हाँचा (वातावरण संरक्षण नियमावली २०७७ को अनुसूची १४ वमोजिमको ढाँचा ) 46.01810CD पनौती जगरपालिका नगर कार्यप्रानिकाको कार्यालय 0801. mg पनीता कास नित्र नगरपालिक मिति: २०७९/१९/४ क्रिक्रान्यानां सार्वार्थ भी राष्ट्रिय प्रहरी प्रशिक्षण प्रतिस्थान Spinishing and May अभे परियोजना उप शाखा काठमाडौँ २०<sub>०७</sub> विषयः राय सुकाव सक्रित सिफारिस गरिएको बारे । प्रस्तुत विषयमा त्यस कार्यालयको मिति,२०७९।६०।२४ को प्रकाशित सूचना र २०७९/०९/१६ को सार्वजनिक सुनुवाई अनुसार कार्यान्वयन तुने "राष्ट्रिय प्रहरी प्रशिक्षण प्रतिष्ठान पनीती, काग्रेपसान्त्रोक आयोजना" विषयको प्रस्ताववाट यस क्षेत्रमा निम्नानुसारको वातावरणीय प्रभाव पर्न जाने देशिन्छ-(क) सकारात्मक प्रमानः रोजगारीको अवसर ,आधिक कारोबार बहने देश की गहना बीजना नगरमा हुँदा नगर कै शान बढ़ने शान्ति सुव्यवस्था कायम राख्न सहयोग हुने स्थानिय उत्पादनहरको बजारी करण हुने (स) नकारात्यक ग्रभावः निर्माण कमना ध्वनी, बाबु , जल प्रदुषण, यातायात अस्त व्यस्त हुन सक्ने, निर्माण पश्चात संशासन भै सके पश्चि फोहोर मैला तथा sewerage निर्माणमा कामदारको नुरक्षा व्यवस्था तथा कामदार कट समाजमा केहि नकारात्मक असर सानेपानी मुहान , गोरेटो बाटो , वश्चिरण नाइ असर उञ्जिखित प्रभावको आधारमा सकारात्मक प्रभावलाई बद्योत्तरी र नकारात्मक प्रभावलाई न्यूनीकरण गर्ने वातावरणीय व्यवस्थापनको बोजना कार्यान्वयन गर्दा उल्लेखित प्रस्तावको सकारात्मक प्रभाव / तकारात्मक प्रभाव वडी हुने देखिएकोसे उल्लिखित प्रस्ताव निम्न आधारमा कार्यान्वयन गर्न मिल्ने / निमल्ने ।यहाँग उत्लेख गरी यो विकारिस गरिएको छ । प्रस्ताव कार्यान्वयन गर्न मिल्ने आधार वा प्रस्ताव कार्यान्वयन गर्न निमल्ने बाधार १. रोजगारीको अवसर 9. ध्वनी, वायु प्रदूषण हुन सक्ने, २ स्थानिय उत्पादनहरूको बजारी करण हन २. खानेपानी मुहान , गोरेटो बाटो , चरिचरण ३. देशमा उच्च स्तरको सुरक्षाकर्मी तयार हुने ४ देशकै प्राथमिकता प्राप्त योजना कम्पाउण्ड वाल वरिपरि आवत जावतको लागि ५२ फिट वाटी छोडनु पर्ने सामाजिक उत्तरदायित्व अन्तर्गतः विचारी पाटि , शिव मन्दिरको निर्माण शैक्षिक गुगस्तर अन्तर्गत छिमेकी सामुदायिक विध्यालय मा सहयोग पुन्यमाता खोवा सरवफाड पनौतीको सम्पदा भत्कते प्रवेशदवारको निर्माण नामः रामशरच बोधार्य श्री, कार्यालय/विभाग/ मन्त्रालय



#### बागमती प्रदेश सरकार वन तथा वातावरण मन्त्रालय वन निर्देशनालय डिभिजन वन कार्यालय



घुलिखेल, काभेपलाञ्चोक

प प.सं.: २०७९/०८० च.नः: १९९४

मिरिा:२०७९।१९।०४

#### विषय:- सिफारिस सम्बन्धमा ।

श्री प्रहरी प्रशिक्षण प्रतिष्ठान, काम्रे परियोजना उप-शाखा, महाराजगंज, काठमाण्डौ

पस्तूत विषयमा ताहा प्रतिष्ठानको च.न.१७६ मिति २०७९/१०/२५ को पत्र साथ पत्र प्राप्त भई व्यहोरा अवगत भयो सो सम्बन्धमा यस कार्यालय अर्न्तग रहेको सब डिभिजन वन कार्यालय खोपासीलाई राय सुभाव सहित सिफारिस गर्न पत्राचार गरिएकोमा सब डिभिजन वन कार्यालय खोपासीको च.न.३९४ मिति २०७९।११।०३ को पत्र साथ सहायक वन अधिकृत रनिता बरालले पेश गरेको प्रतिवेदन यससाथ सलग्न छ प्रतिवेदनमा उल्लेख गरीएका बिषय समेत लाई समावेश गरी बाताबरणीय प्रभाव मुल्याङकन तयार गरी सम्बन्धीत निकायमा पेश गनुहुन अनुरोध छ ।

> देविचन्द्र पोखरेल (डिमिजनल वन अधिकृत) स्वी सन्दर्भ हो स्वित्त्

Email: dfokavre1@gmail.com, Ph.No.: 011-490175, 011-490586, website: www.dfckavre.gov.np.



प्रदेश सरकार वागमा वागम

4.前:099 120

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मिति: २०७९/११ /०३

विषय: राय प्रतिवेदन सम्बन्धमा |

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श्री डिभिजन वन कार्यालय धुलिखेल , काभ्रे |

प्रस्तुत विषयको सम्बन्धमा ताहा कार्यालयको च.नं १९९६ मिति २०७९/०३/०३ को पत्रानुसार यस सब डिभिजन वन कार्यालयको राय प्रतिबेदन यसै पत्र साथ संलग्न राखी पेश गरेको व्यहोरा सदर अनुरोध छ |

Parts.

Buch.

### श्री डिभिजन वन कार्यालय काभ्रेपलान्चोकमा खोपासी सब डिभिजन वन कार्यालय का सहायक वन अधिकृतले पेश गरेको राय प्रतिबेदन

प्रस्तुत विषयमा ताहाँ कार्यालवको च.नं. १९१६ मिति २०७९/०३/०३ गतेको पत्रादेश वमोजिम पनौती नगरपालिका वडा नं ६ स्थित वन क्षेत्रमा रास्ट्रीय प्रहरी प्रतिष्ठान आयोजनाको वातावरणीय प्रभाव मुन्याकन नगरपालिका वडा नं ६ स्थित वन क्षेत्रमा रास्ट्रीय प्रहरी प्रतिष्ठान आवोजनाको प्राकृतिक ,भौतिक ,प्रणाली जैविक प्रणाली अध्ययन सम्बन्धि क्षेत्र निर्धारण गर्ने क्रमममा आयोजना क्षेत्रको प्राकृतिक ,भौतिक ,प्रणाली जैविक प्रणाली समाजिक प्रणाली संस्कृतिक र आर्थिक प्रणालीमा के कस्तो असर पर्छ र तिनका न्युनिकरण उपाय यिकन गरि सामाजिक प्रणाली संस्कृतिक र आर्थिक प्रणालीमा के कस्तो असर पर्छ र तिनका न्युनिकरण उपाय यिकन गरि लिखित राय सुझाव सहित पेश गर्न पत्राचार भएकोमा सो स्थलमा गइ स्थलगत निरीक्षण गर्दा तपसिल बमोजिम पाइएको व्यष्टीरा अनुरोध छ ।

#### तपसिल

			赤
से.न	बसर	यूनीकरण को उपाय	70
		वृक्षारोपण	
2	बन्यजन्तुको वासस्थानमा क्षेत्रो , निमाण क्रममगा बन्धजन्तुको श्रिकार,पासो यप्रे	वृक्षारोपण,कामदारलाई बन्यजन्तु समात्रे पानी श्रेष्ठ कार्य गर्न नदिने	
è	जस्ता कार्य हुन सक्ने पहिरो मूक्षय को जोखिम	भरि निर्माण सामग्री प्रयोग नगर्ने वातावरण मैत्री निर्माण सामग्री र साधनको प्रवोग मा जोड दिने	
Y	निर्माणका क्रमममा हुने उत्खनन लगायतका कार्यबाट बायु ध्वनी प्रदुषण, हुने	भारि निर्माण सामग्री प्रयोग नगर्ने बातावरण मैत्री निर्माण सामग्री र साधनको प्रयोग मा जोड दिने	
8	प्रतिष्ठानसे माग गरेको क्षेत्र भित्र स्थानीयने प्रयोग गर्दै आएको २ वटा पानीको मूल पर्ने इदा मूल मासिन सक्ने सम्भावना	मूल मुक्र नदिने व्यवस्था मिलाउन	
Ę	उत्खनन कार्यबाट मजिकको वस्ती जाखिममा		
ŧ	drainage pattern परिवर्तन हुने हुदा समग्र पुण्यमाता नदि प्रणालीलाई असर पुग्ने		
19	समग्र पुण्यमाता नोंद प्रणालालाई असर पुष्र प्रतिष्ठान निर्माण पश्चात पनि त्यहाँ बसोबाद उत्पादन हुने फीहर मैला व्यवस्थित नघएम बाताबारेमा नकारात्मक अमर पर्ने	delige artification of the	+15



#### सिकारिसपत्रको ढाँचा

वातावरण संरक्षण नियमावली २०७७ को अनुसूची १४ बमोजिमको दाँचा।

कार्यालयको नाम, ठेगाना कार्यालयको छाप

Ma 2062-40-22

क. प्राहित प्रदेश प्रशासका प्रतिकात काळा परिकोष्ट्राचा समाजा शहादावाम काठमाव

#### विषयः राय सुझाब सहित सिफारिस गरिएको बारे ।

प्रस्तुत विषयमा त्यस कार्यालयको मिति २०.६५ - १०.८५ .......को प्रकाशित सूचना र २०७९/०९/१६ को सार्वजनिक सुनुवाई अनुसार कार्यान्वयन हुने "राष्ट्रिय प्रहरी प्रशिक्षण प्रतिष्ठान पनौती, काम्रेपलान्थोक आयोजना" विषयको प्रस्तावबाट यस क्षेत्रमा निम्नानुसारको वातावरणीय प्रभाव पर्न जाने देखिन्छ:-

(ख) नकारात्मक प्रभाव: उनामी जारा स्थालमा न्योगित प्रवाच्यात्मी जिमीण हुए। समाग्र अविवदा जिमीण जिमाण वार्मी जी किया जी दिन उद्भार अविवदा किया जी प्रवाद के प्रभाव: उनामी जारा स्थालमा जिमाणा के माना वार्मिम जोट विद्याकी जिमाणा हुन है। दिन्द व

उन्निस्थित प्रभावको आधारमा सकारात्मक प्रभावलाई बढोत्तरी र नकारात्मक प्रभावलाई न्यूनीकरण गर्ने वातावरणीय व्यवस्थापनको योजना कार्यान्वयन गर्दा उन्निखित प्रस्तावको सकारात्मक प्रभाव/नकारात्मक प्रभाव बढी हुने देखिएकोले उन्निखित प्रस्ताव निरून आधारमा कार्यान्वयन गर्न मिल्ने/निमल्ने व्यहोरा उन्निख गरी यो सिकारिस गरिएको छ ।

प्रस्ताव कार्यान्वयन गर्न मिल्ने भाषार् वा प्रस्ताव कार्यान्वयन गर्ने नमिल्ने आधार	
" अभिक प्रकारका क्रिकाण र विकास " ×	
े निष्टि न अमिहिक निकास के मुनिष्टिला र 🗡 🥞 /	
"लुझारी पणाबी" कार्म अई रख बराक के मीर्शि हैं . X	
असि हैंगाल अर्था नादा मिगी भिरासका	
कि द्वान्स कार्य अवाकाम्बक अदी हुन पर्ने । दस्तवतः क्रिक्य क्रार्टि	37
बोधार्थःश्री, कार्यालय/विभाग/मन्त्रालय प्रमुख नापी अधिकृत	

#### रिफारिसण्डको ढाँचा (वातचरण संस्थाण जिवमायली २०७३ को अनुसूची १४ बमोजिमको दाया)

कार्यालयको साप न नादिश्या पटारी प्रातिकशत काक्षे पार्योजना आर्था प्राष्ट्रराप्तरान्य मारमार्थ विषयः एथ सङ्घास सहित सिपारिस असिएको सारे । प्रस्तुत विषयमा त्यास कार्याक्षयको क्षिति 2003.190 १८५ ......... वर्ष प्रकाशित एउ २०७९/०९/१६ को सार्वजनिक सुनुकई अनुसार कार्याक्वयम हुने "प्राप्ट्रिय प्रक्ष्मे प्राप्तिका ।। प्यतिती, काञ्चेषत्वाच्योक अत्योकनाः विषयको प्रस्तावकाट यस क्षेत्रमा जिल्लानुसारको कानावरणीय (म) समायत्मक प्रधाव रोजारी स्थानिय स्थानिया की जायार - अवस्याम क्रम् अहा लगायका स्वापियका अन्याद । स्वय (य) मजासम्बद्ध प्रभाव स्टारि साह्यमुक्ते -स्यूप -स्टास्ट्रिस्ट्रा स्ट्रास्ट्रिस्ट्रा स्ट्रास्ट्रिस्ट्र अहमाराम प्रमाणका स्वास्ता स्वास्ता स्वास्ता है। ज्या स्वास्ता है अस्तात्मक प्रमाणका ज्यानिक्ष प्रमाणका स्वासिक व्यवस्थापनको योजना कार्यान्यथः गटा अस्तिष्ठित प्रस्तावको सकारात्नकः प्रभावत्वकारात्मक प्रथम कर् देखिएकोते उत्तिवित प्रस्ताव विकत आधारमा कार्यास्थयन ग्रांन किल्ले/निमिल्ले व्यक्तरा उत्तरेख गरी थो हिए। परतास माराज्यसम् वर्ग मिल्से गामा । ॥ प्रकृत कार्यस्यका वर्ग विकास आगार न्यडम विस्तार काएता सुन्धार विदेश " लोजजारी सिजीना द्वीता। े स्थानियकी लाउरहोत करि वा खिला की स र्थानेय साधादीत की स्वयत भारताल मामाना हुन वोपार्थःओ, .....



#### श्री गोवळानाथ आधावभूत विद्यालय SHREE GORAKHNATH BASIC SCHOOL

पनौती-६, दलिञ्चोक, काभ्रेपलाञ्चोक, नेपाल

पद सं...०७९/ ८० चनानी न Panauti- 6, Dalinchok, Kavreplanchok, Nepal भिति :-२०७१/१०/ २७ गरे

स्था : २०३२

(बातागरण संरक्षण निपमावली २०७७ को अनुसूचि १४ बगोजिय)

श्री कार्यकारी निर्देशक ज्यू राष्ट्रिय प्रहरी प्रशिक्षण प्रतिष्ठान काठमाडौँ नेपाल ।



विषय Sub) : राय सुकाव सहित सिफारिस गरिएको बारे ।

महोदय.

प्रस्तुत विषयका सम्बन्धमा त्यस कार्यालयको मिति २०७९ माघ १० गतेको पत्र तथा मिति २०७९/०९/१६ को सार्वजानि सुनुवाई अनुसार कार्यान्वयन हुने "राष्ट्रिय प्रहरी प्रशिक्षण प्रतिष्ठान पनौती, काभ्रेपनाञ्चोकको बायोजना" विषयको प्रस्तावबाट यस क्षेत्रमा निम्नानुसारको वातावरणीय प्रभाव पर्न जाने देखिन्छ।

#### क) सकारात्मक प्रभाव :

- १ प्रतिष्ठान सँगै जोडिएको विद्यालय भएको कारण विद्यालयसँग सम्बन्धित वातावरणीय पक्ष विकास तथा सुदृढिकरणका लागि प्रतिष्ठानबाट सामाजिक समन्वय स्वरुप आवश्यक सहयोग प्राप्त हुने ।
- २) विद्यालय क्षेत्रमा सिकाईमैत्री वातावरण निर्माण, वातावरणीय जोखिम न्यूनिकरण तथा पर्यावरण संरक्षणमा संघाउन पुरने ।
- ३) बृहत क्षेत्र तथा विशाल संरचना निर्माण हुँदा पनि विद्यालय क्षेत्रमा प्रकाश लगायतको क्षेत्र गलत प्रभाव नपर्ने ।

#### ख) नकारात्मक पक्ष

- १) हाल विद्यालयले प्रयोग गर्दै आएको खानेपानीको खोत(इनारबाट पम्प गरि विद्यालय सम्म पाइपलाइन) निर्माणाधिन प्रतिष्ठान हाता भित्र नै रहेको र जिमन खन्ने कममा मुहान दक्ने वा क्षति पुग्ने भएको खण्डमा विद्यालयसँग खानेपानीको वैकल्पिक व्यवस्था नभएको ।
- २) प्रतिष्ठान निर्माण पछि तालिम, सामान ढुवानी, सवारी साधन प्रयोग जस्ता कार्यले ध्वनी प्रदुषण हुन सक्ते ।

उल्लेखित प्रभावको आधारमा सकारात्मक प्रभावलाई बढोत्तरी र नकारात्मक प्रभाव न्यूनीकरण गर्ने बाताबरणीय व्यवस्थापनको योजना कार्यान्वयन गर्दा उल्लेखित प्रस्तावको सकारात्मक प्रभाव बढी हुने देखिएकोले उल्लेखित प्रस्ताव निम्न आधारमा कार्यन्वयन गर्न मिल्ने व्यहोरा उल्लेख गरि सिफारिस गरिएको छ ।

#### प्रस्ताव कार्यान्वयन गर्न मिल्ने बाधारहरु

- 9) अवस्थितिका आधारमा विद्यालय माथि र निर्माणाधिन प्रतिष्ठान तल्लो क्षेत्रमा रहेको कारण प्रतिष्ठानबाट उत्पन्न हुन सक्ने ठोस तथा तरनजन्य विकारयुक्त पदार्थहरूले विद्यालयलाई न्यून असर गर्ने ।
- २) प्रतिष्ठान भित्र रहेको खानेपानी मुहान यथासक्य संरक्षण गरी विद्यालयमा शुद्ध, स्वच्छ खानेपानी निरन्तर उपलब्ध गराउन निर्माण पक्षले समेत जिम्मेवारीका रूपमा बहन गर्ने प्रतिबद्धता व्यक्त गरेको ।
- ३ निर्माण पछि प्रतिष्ठान भित्र बन्ने विभिन्न भौतिक पूर्वाधार र त्यसको प्रयोग गर्दा उत्पन्न ध्वनी तथा फोहरजन्य पदार्थको उचित व्यवस्थापन तथा विद्यालय हाता क्षेत्रमा पर्खाल घेराबन्दी गरिएको खण्डमा नकारात्मक प्रभाव नपर्ने ।

निमल्ने आधारहरु

प्रधानाध्यापक ईश्वर बहादुर भण्डारी

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सिफारिसपत्रको ढाँचा |वातावरण संरक्षण नियमावली २०७७ को अनुसूची १५ बमोजिमको ढाँचा)

#### कार्यालयको नाम, ठेवाना कार्यातयको छाप

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#### सिफारिसपत्रको ढाँचा

(वातावरण संरक्षण नियमावली २०७७ को अनुसूर्यी १४ बमोजिमको ढाँचा)

कार्यातयको नाम, ठेगाना कार्यालयको छाप

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मान्याद्भी प्रहा प्रति प्राप्ति । ज्ञान्याडी । ज्ञान्याडी प्रिक्ति । ज्ञान्याडी ज्ञान्याडी ज्ञान्याडी ज्ञान्याडी ज्ञान्याडी । ज्ञान्याडी ज्ञान्याडी ज्ञान्याडी ज्ञान्याडी ज्ञान्याडी ज्ञान्या । ज्ञान्याच्या स्वाप्ति सिकारिस गरिएको बारे ।

का सकारात्मक प्रमादः मानिस्टबर्गा के विमान ट बार्ट सिर्ध्यामा मानिसर करो उपास्ति गार्थ विधानीय स्ति भ आणि वे बहुत प हैन (ख) नकारात्मक प्रमादः विकि

उल्लिखित प्रभावको आधारमी सर्वारात्मक प्रभावलाई बर्दोर्त्स र नकारात्मक प्रभावलाई न्यूनीकरण गर्ने वातावरणीय व्यवस्थापनको योजना कार्यान्वयन गर्दा उल्लिखित प्रस्तावको सकारात्मक प्रभाव/नकारात्मक प्रभाव वदी हुने देखिएकोले उल्लिखित प्रस्ताव निम्न आधारमा कार्यान्वयन गर्न मिल्ने/नमिल्ने व्यहोरा उल्लेख गरी यो तिकारिस गरिएको छ ।

प्रस्ताव कार्यान्वयम गर्न मिल्ने आधार

भागित प्रमाणिका कार्या वा प्रस्ताव कार्यान्वयम गर्न मिल्ने आधार

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#### सिफारिसपत्रको ढाँचा

(वातावरण संरक्षण नियमावली २०७७ को अनुसूची १४ बनोजिनको धाँचा।

कार्यालयको नाम, ठेगाना कार्यालयको छाप

ma 2063/94/02

का ब्राह्मिन प्रहरी प्रात्वेशन कार्क परियोक्तिन आखाः प्राष्ट्रयाज्यान्त काठमाडी विषयः राग्य मुझाव सहित शिकारिस गरिएको बारे ।

प्रस्तुत विषयमा त्यस कार्यालयको मिति २०६५ । १८८ । १५ को प्रकाशित सूधना र २०७९/०९/१६ को सार्वजनिक सुनुवाई अनुसार कार्याल्ययन हुने "राष्ट्रिय प्रहरी प्रशिक्षण प्रतिष्ठान पनीती, काञ्चेपलाल्योक आपोजना" विषयको प्रस्तावबाट यस क्षेत्रमा निम्लानुसारको वातावरणीय प्रणव पने जाने देखिलक:-

का सम्मारम् प्रमावः रोक्रारी म्याजीतः स्थानिय की क्यापार् व्यवस्था च्यू महा लगायता स्थानियका उत्पादन स्वयन

(छ) नकारात्मक प्रभावः स्पारि साराम्को - ट्राप - जार्-ट्राण व स्वानेपानि छहरा नार स्थानित साइ हाका सो जा त्यक्ति हा वर्ने अन्तिवित प्रभावको आधारमा सकारात्मक प्रभावको ब्रावरी र नकारात्मक प्रभावको हर्ग्नकरण गर्ने वातिवरणीय व्यवस्थापमको योजना कार्योक्वयम गर्दा अन्तिवित प्रस्तावको सकारात्मक प्रभाव/नकारात्मक प्रभाव बढी हुने

देखिएकोले उल्लिखित प्रस्ताव निम्न आधारमा कार्योनवयन नर्न मिल्ने/नमिन्ने व्यक्तीस उल्लेख गरी यो सिणारिस गरिएको छ ।

प्रस्ताय कार्योन्दरम् गर्ने भिल्ने आधार	वा प्रस्ताव	कार्यान्वयन गर्न ममिल्ले ।	
स्तरक विस्तार लगाएत	स्मिद्यए वि	केर्य	
रोजजार किजीना	SA !		य सत्पृतांचे
े स्थानियकी भाग्रकी	म हारू		य स्थानित्र हा को खनेण
र्थानिय सार्यप्रात को	न्वपत	7.83	प उजावित
	र प्रमान विकास	the second second	स्प हा क्षे
	का <sub>विभिनाञ्चीय</sub>	वडा क्रिक्स स्थापितः ह्र बागमी नामः	11 12
बोधाशं:श्रो,	· · · · · · · · · · · · · · · · · · ·	२०७५ पद रालय/विभाग/मन्त्रालय	आचारा
		भूति प्रसाद विभाग मन्त्रालय सिति प्रसाद	याद्वा

#### सिफारिसपत्रको ढाँचा

(वातावरण संरक्षण नियमावली २०७७ को अनुसूची १४ बमोजिमको डाँचा

कार्यालयको नाम, ठेगाना कार्यालयको छाप

ma 1065/99/18

भा, त्राहिर्य प्रदेश प्रक्रिका प्रतिस्थान ...काक्षे प्रदिलीमना कार्यवा स्टार्थिम काठमाडाँ

विषयः राय सङ्गाव सहित सिफारिस गरिएको बारे ।

पस्तुत विषयमा त्यस कार्यालयको मिति ३.०६१ १० ३.५ . . . . . . . को प्रकाशित सूचना र २०७९/०९/१६ को सार्वजनिक सुनुवाई अनुसार कार्यान्वयन हुने "राष्ट्रिय प्रहरी प्रशिक्षण प्रतिष्ठान पनीती, काभ्रेपलान्चोक आयोजना" विषयको प्रस्तावबाट यस क्षेत्रमा निम्नानुसारको वातावरणीय प्रभाव पर्न जाने देखिन्छ:-

क सकारात्मक प्रभाव: भौतिक पूर्व चार् की निर्माताकी बाताबरहामा Absolute Positive मान्य पर्य देखिक तर पाने तहाँ प्रम्वन्ति स्रीकार बालापा।
पाने अवस्य पाने आर्थिक, यापानिक, वापानिक न्यान्तरामा सहनीत्रवा
वा नकारात्मक प्रभावः अति विशेषक ।
वा नकारात्मक प्रभावः अति वार्षाः ।

2) Global Warming of your once Are

उल्लिखित प्रभावको आधारमा सकारात्मक प्रभावलाई बढोतरी र नकारात्मक प्रभावलाई न्यूनीकरण गर्ने वातावरणीय व्यवस्थापनको बोजना कार्यान्वयन गर्दा उल्लिखित प्रस्तावको सकारात्मक प्रभाव/नकारात्मक प्रभाव वदी हुने देखिएकोले उल्लिखित प्रस्ताव जिस्न आधारमा कार्यान्वयन गर्न मिल्ने/नमिल्ने व्यहोस उल्लेख गरी यो सिफारिस गरिएको छ ।

प्रस्ताव कार्यान्वयन गर्न मिल्ने आधार वा १. आप्रिक श्राह्म र प्राप्ति विकास	प्रस्ताव कार्यान्वयम गर्न निमल्ने भाषार
ः बीडिडे तथा अविधिक निकास	
3. ETA की concept पालाना गरेना	
शतामाण. सन्तुलात.। दिने विकास ४.	Where the second of the second
***************************************	market .
	दस्तवतः ।
बोधार्यभी,	नामः निर्माप्रपाद पाइवहत्त
	50

## **APPENDIX 20:** SUMMARY OF EIA REPORT

पनौती नगरपालिका वडा नं. ६, काभ्रेपलाञ्चोक जिल्ला, वागमती प्रदेशमा प्रस्तावित राष्ट्रिय प्रहरी प्रशिक्षण प्रतिष्ठान निर्माणका लागी तयार पारिएको वातावरणीय प्रभाव मूल्याङ्कन प्रतिवेदन



पेस गरिएको निकाय नेपाल सरकार वन तथा वातावरण मन्त्रालय सिंहदरबार, काठमाडौं, नेपाल

<u>मार्फत</u> नेपाल सरकार **गृह मन्त्रालय** सिंहदरबार, काठमाडौं, नेपाल

पेश गर्ने निकाय राष्ट्रिय प्रहरी प्रतिष्ठान महाराजगन्ज, काठमाडौं, नेपाल

जुलाई, २०२३

#### परिच्छेद १: प्रतिवेदन तयार गर्ने संस्थाको नाम र ठेगाना

#### १.१ प्रस्तावकको पूरा नाम, ठेगाना

यस आयोजनाको नाम राष्ट्रिय प्रहरी प्रशिक्षण प्रतिष्ठान, पनौती, काभ्रेपलान्चोक रहेको छ। प्रस्तावकको ठेगाना निम्नानुसार छः

नामः राष्ट्रिय प्रहरी प्रशिक्षण प्रतिष्ठान, महाराजगञ्ज, काठमाण्डौ ठेगानाः महाराजगञ्ज, काठमाण्डौ टेलिफोनः ०१-४४२०५१७

इ-मेलः npa\_kavreProject@nepalpolice.gov.np

वेब साइटः <a href="https://npa.nepalpolice.gov.np">https://npa.nepalpolice.gov.np</a>

#### १.२ परामर्शदाताको पूरा नाम, ठेगाना

प्रस्तावक रा.प्र.प्र.प्र.ले प्रतिवेदन तयार गर्नका लागी "रिसर्च इनक्लेभ प्राइभेट लिमिटेड" लाई परामर्शदाता नियुक्त गरेको थियो । परामर्शदाताको पूरा नाम र ठेगाना निम्नानुसार छः

नामः रिसर्च इनक्लेभ प्राइभेट लिमिटेड (Research Enclave Pvt. Ltd) ठेगानाः काठमाडौं महानगरपालिका-३१ हनुमान मार्ग शंखमूल, नेपाल।

टेलिफोनः ०१-५२४२९१८/९८५१०९७०३६

ईमेलः researchenclave@gmail.com

#### १.३ वातावरणीय प्रभाव मूल्याङ्गनको औचित्य

वातावरण संरक्षण ऐन, २०७६ को दफा ३ र वातावरण संरक्षण नियमावली, २०७७ को नियम ३ मा भएको व्यवस्था बमोजिम अनुसूची ३ मा सूचीकृत प्रस्तावका लागी वातावरणीय प्रभाव मूल्याङ्कन अनिवार्य गरिएको छ ।

तालिका १: वातावरणीय प्रभाव मल्याङ्गनको काननी औचित्य

	., ,,, ,,
वातावरण संरक्षण ऐन, २०७६ र वातावरण संरक्षण नियमावली,	यस आयोजनाको हकमा
२०७७ को व्यवस्था	वा.प्र.मू. को औचित्य पुष्टि
	हुने अवस्था
वातावरण संरक्षण नियमावली, २०७७ को अनुसूची ३को (क) वन	यस आयोजनाका लागी ६.७
क्षेत्र (५) को अनुसार "विधुत प्रसारण लाइन निर्माण बाहेक अन्य	हेक्टर आवश्यक पर्ने हुनाले
प्रायोजनको लागी ५ हेक्टरभन्दा बढी 'वन क्षेत्र, वन संरक्षण क्षेत्र,	
संरक्षण क्षेत्र, मध्यवर्ती क्षेत्र तथा वातावरण संरक्षण क्षेत्रको जग्गा	
प्रयोग गर्ने"	
वातावरण संरक्षण नियमावली, २०७७ को नियम ३ मा भएको	यस आयोजनाका लागी
व्यवस्था बमोजिम अनुसूची—३ (ज) आवास, भवन तथा बस्ती विकास	१०९२१५ वर्गमिटर
तथा शहरी विकास क्षेत्र (२) मा "१०,००० वर्गमिटर क्षेत्रफ़लभन्दा	आवश्यक पर्ने हुनाले
बढीको Built Up Area वा Floor Area भएको आवासीय, व्यासायिक	•
वा आवासीय र व्यासायिक दुवै प्रकृति भएको संयुक्त भवन निर्माण गर्ने"	
अनुसूची ३ को (ज) आवास, भवन तथा बस्ती विकास तथा शहरी	यस आयोजनाका लागी
विकास क्षेत्र (६) मा"२०,००० लिटर भन्दा बढी दैनिक भूमिगत	निर्माण चरणमा ३६,५३०
पानीको प्रयोग हुने भवन निर्माण तथा संचालन गर्ने"	लिटर र संचालन चरणमा
	६३५,००० लिटर पानीको
	प्रयोग हुने भएकोले

#### १.४ वातावरणीय प्रभाव मूल्याङ्गनको उद्देश्य

वातावरण संरक्षण ऐन, २०७६ अनुसार वातावरणीय प्रभाव मूल्याङ्गनले कुनै प्रस्तावको कार्यान्वयन गर्दा सो प्रस्तावले वातावरणमा उल्लेखनीय प्रतिकूल प्रभाव पार्ने वा नपार्ने सम्बन्धमा यिकन गर्नुको साथै त्यस्तो प्रभावलाई कुनै उपायद्वारा निराकरण वा न्यूनीकरण गर्नका लागी अवलम्बन गरिने उपायको सम्बन्धमा विस्तृत रुपमा अध्ययन गर्दछ। यस आयोजनाको वातावरणीय प्रभाव मूल्याङ्गनको उद्देश्यहरु निम्नानुसार छन्:

- आयोजना क्षेत्रमा विद्यमान भौतिक, जैविक, सामाजिक-आर्थिक र सांस्कृतिक वातावरणको विभिन्न घटकहरूको पहिचान र मूल्याङ्कन गर्ने र सोको दस्ताबेज तयार गर्ने:
- आयोजना सम्बद्ध कानूनी र नीतिगत व्यवस्थाहरुको समीक्षा गर्ने;
- आयोजनाको विभिन्न विकल्पहरूको मूल्याङ्कन गर्ने र वातावरणीय रुपमा दिगो, सामाजिक रूपले स्वीकार्य र आर्थिक रूपमा व्यवहारिक सबैभन्दा उत्तम विकल्प सिफारिस गर्ने;
- वातावरणीय प्रभावको परिमाण, अवधि र सीमाको मूल्याङ्कन गर्दै भिबष्यमा हुनसक्ने सम्भावित सकारात्मक र नकरात्मक वातावरणीय प्रभावको आँकलन गर्ने;
- नकारात्मक वातावरणीय प्रभावहरू रोक्न वा न्यूनतम राख्न र दिगो वातावरणीय विकास, सामाजिक-आर्थिक विकास सुनिश्चित गर्दे वातावरणमा पर्ने सकारात्मक प्रभावहरूको सम्बर्द्धन गर्न वातावरणीय व्यवस्थापन योजना तयार गर्ने;
- वातावरणको अनुगमनको लागी सूचकको रुपमा छानिएका वातावरणीय मापदण्डहरुको आधारभूत जानकारी लिने; र
- वातावरणीय अनुगमन, निरीक्षण तथा परिक्षण योजना र संस्थागत संयन्त्र तयार गर्ने।

#### १.५ अध्ययनको सीमा

यस आयोजनाको वातावरणीय प्रभाव मूल्याङ्गन अध्ययन अन्तर्गत जम्मा एकपटक हावा, ध्वनी, पानीको गुणस्तर सम्बन्धि तथ्यांक संकलन गरिएको छ। प्रस्तावित आयोजनाको फुटप्रिन्ट क्षेत्रभित्रका रुख गणनाको तथ्याङ्क र काट्नुपर्ने रुखको मात्रा (volume) लाई विस्तृत आयोजना प्रतिवेदन (डीपीआर) तयार गर्दा सब-डिभिजन वन कार्यालय, खोपासीबाट संकलन गरिएको तथ्याङ्कलाई आधार मानेर लिईएको छ। वन्यजन्तुका सम्बन्धी तथ्यांकहरुको सङ्कलन एकपटक स्थलगत अध्ययनका ऋममा सव-डिभिजन वन कार्यालय, खोपासी र देवीस्थान (ख) सामुदायिक वनका उपभोक्तासँग गरिएको सार्वजनिक परामर्श, र दित्तीय स्रोतमा आधारित छन्। वन्यजन्तु, जलचर र हर्पेटोफाउना (herpetofauna) प्रजातिहरूको जानकारी स्थलगत अध्ययनका ऋममा गरिएको छैन र प्रजातीको प्रजाति विविधता लगायत अन्य आवश्यक तथ्यांकहरु प्रभाव क्षेत्र भित्रका स्थानीयसंग गरिएको छलफल तथा अन्य अनुसन्धान रिपोर्टबाट साभार उद्धत गरिएको छ।

अनुसूची २ मा समावेश गरिएको स्वीकृत कार्य सूची बमोजिम यो वातावरणीय प्रभाव मूल्याङ्कन प्रतिवेदन तयार गरिएको हो।

#### परिच्छेद २: प्रस्तावको परिचय

#### २.१ भूमिका

सन् १९५६ मा स्थापना भएको केन्द्रीय प्रहरी तालिम केन्द्र सन् १९९३ पश्चात राष्ट्रिय प्रहरी प्रिशक्षण प्रतिष्ठानका रूपमा रूपान्तरण भएको यस संस्था नेपालको प्रहरी अधिकारीहरूलाई तालिम प्रदान गर्ने एक मात्र सर्वोच्च संस्था हो। यस संस्थाको मुख्य उद्देश्य भनेको संस्थागत सुदृढीकरणका लागी विद्यमान तालिमका कार्यक्रमहरूलाई समयानुसार परिस्कृत र आधुनिकरण गर्नु र प्राविधिक रूपले सम्पन्न पूर्वाधार निर्माण गरी यस संगठनमा आवद्ध हुने प्रहरी अधिकारीहरूको क्षमता अभिवृद्धि गर्नु रहेको छ। साथै सुधारिएको प्रशासनिक अभ्यासहरू, अनुसन्धान र समग्र सुधार ल्याउन गुणात्मक प्रशिक्षकहरूको आबद्धता सँगै फौजदारी न्याय प्रणालीमा आफ्नो भूमिका सुधार गर्ने उद्देश्यका साथ मानव संसाधन विकासका पक्षहरूमा पनि केन्द्रित रहेको छ।

राष्ट्रिय प्रहरी प्रशिक्षण प्रतिष्ठानमा नेपाल प्रहरीलाई सशक्तीकरण गर्न र बढ्दो विश्वव्यापी सुरक्षा चिन्ता, देश भित्र शान्ति र सद्भाव कायम गर्नका लागी अत्याधुनिक, नवीनतम प्रविधि सिहतको भौतिक पूर्वाधारको आवश्यकता रहेको छ। सम्माननीय प्रधानमन्त्रीको भारत भ्रमणका क्रममा नेपाल सरकार र भारत सरकारबीच नेपाल प्रहरीको क्षमता अभिवृद्धि गर्न सन् २०१७ नोभेम्बर २५ (९ मंसिर २०७१) मा एक समझदारी पत्रमा हस्ताक्षर भएको थियो। भारत सरकारद्वारा राष्ट्रिय प्रहरी एकेडेमीलाई स्तरोन्निति गर्न प्राविधिक तथा आर्थिक सहयोग उपलब्ध गराउन तयार रहेको छ। तसर्थ, नेपाल सरकारले राष्ट्रिय प्रहरी प्रतिष्ठानको अत्याधुनिक सुविधासम्पन्न र व्यवस्थित भवन निर्माणका काभ्रेपलाञ्चोक जिल्लाको पनौतीमा उपयुक्त ठाउँको पहिचान गरेको छ।

राष्ट्रिय प्रहरी प्रतिष्ठानको अत्याधुनिक सुविधासम्पन्न र व्यवस्थित भवन निर्माणका लागी आवश्यक सबै प्रशासनिक प्रिक्रियाहरू मिलाउने र सरकारको कानुनी बन्धनहरू बमोजिम सबै कानुनी आवश्यकताहरू पूरा गरी वातावरणीय अनुमित प्राप्त गर्नु सरकारको प्रमुख जिम्मेवारी (नेपाल सरकार र भारत सरकारबीच समझदारीको धारा ६.१.४) हो।

प्रस्तावित आयोजनाको नाम राष्ट्रिय प्रहरी प्रशिक्षण प्रतिष्ठान भवन निर्माण, काभ्रेपलान्चोक हो। यस आयोजनाको लागी वातावरणीय मूल्याङ्कन आयोजना कार्यान्वयन हुनु अघि नेपाल सरकारको वातावरण संरक्षण नियमावली (EPR), २०२० बमोजिम पूरा गर्नुपर्ने अनिवार्य प्रावधान छ। यस आयोजनाको कुल लागत ने.रु.  $\varsigma$ ,७९,१३, $\varsigma$ 0,००० अनुमान गरिएको छ भने सम्पूर्ण लगानी रकम भारत सरकारको रहने छ।

#### २.२ आयोजनाको विवरण

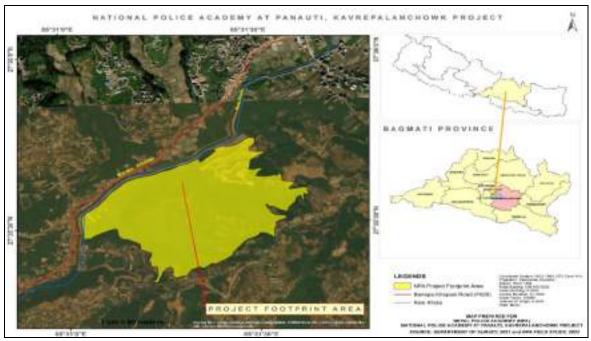
राष्ट्रिय प्रहरी प्रशिक्षण प्रतिष्ठानको संचालन गर्न कार्यकारी निर्देशक अतिरिक्त प्रहरी महानिरीक्षक बाट हुने गर्दछ। प्रतिष्ठानमा रहने कुल ६७० जना दक्ष जनशक्तिबाट प्रशिक्षण व्यवस्थापनको विविध पक्षहरू जस्तै प्रशासनिक, व्यवस्थापकीय, जिन्सी व्यवस्थापन, बिषयगत सेवाहरू र अन्य जिम्मेवारीहरू लगायतमा तालिमहरू प्रदान गर्ने गर्दछ। प्रतिष्ठानमा आयोजना

हुने विभिन्न तालिममा देशभरका वरिष्ठ प्रहरी अधिकृत तहको, सहायक प्रहरी अधिकृत र अन्य प्रहरीहरूको सहभागिता रहने गरी आयोजना गर्दछ । रा.प्र.प्र.प्र.ले हालसम्म गरेका आधारभूत कार्यक्रमहरू र गतिविधिहरूको संक्षिप्त निम्नानुसार छः

- १. प्रहरी कर्मचारीहरूको लागी तालिम कार्यक्रमहरूः नेपाल प्रहरीको शीर्ष तालिम संस्थाको रुपमा रा.प्र.प्र.प्र.ले देशभरका प्रहरी कर्मचारीहरुलाई तालिम दिने गर्दछ। यसले प्रहरी अधिकारीहरूका चार प्रमुख क्षेत्रहरूमा अपराध अनुसन्धान, प्रशासन, व्यवस्थापन, सुरक्षा, र अपरेशनहरू गरि सेवा-भित्रे तालिम कार्यक्रमहरू सञ्चालन गर्दछ। देशका विभिन्न क्षेत्रहरूमा विभिन्न चुनौतीपूर्ण परिस्थितिहरूमा कार्यरत हजारौं प्रहरी अधिकारीहरू यस एकेडेमीद्वारा सञ्चालित विशेष प्रशिक्षण कार्यक्रमहरूका प्रमुख लाभार्थी हुन्।
- २. निजामती कर्मचारी र अन्य सुरक्षा एजेन्सीहरूको लागी प्रशिक्षण कार्यक्रमहरूः रा.प्र.प्र.प्र.ले निजामती कर्मचारी र अन्य सुरक्षा निकायहरूलाई तालिम कार्यक्रमहरू पिन प्रदान गर्दछ। राष्ट्रिय अनुसन्धान विभागका अधिकारीहरूको लागी अनुसन्धान अधिकारी आधारभूत प्रशिक्षण कार्यक्रमहरूमा रणनीतिक व्यवस्थापन, परिचालन कमाण्ड र नेतृत्व विकास समावेश छ। त्यस्तै, रा.प्र.प्र.प्र.ले प्रमुख जिल्ला अधिकारी पाठ्यक्रम र सहायक प्रमुख जिल्ला अधिकारी पाठ्यक्रमको सुरक्षा चरण आफ्नो परिसरमा सञ्चालन गर्दछ।
- ३. खेलकुद गितविधिको विकासः तालिमको जिम्मेवारी बाहेक रा.प्र.प्र.प्र.ले नेपाल प्रहरीको खेलकुद गितविधिको विकासमा पिन अग्रणी भूमिका खेलेको छ । रा.प्र.प्र.प्र.को खेलकुद शाखा संगठन भित्र र बाहिरबाट उत्कृष्ट प्रतिभाहरूको पिहचान, छनोट र प्रिशिक्षणमा सिक्रिय रूपमा संलग्न छ। एकेडेमीमा अनुशासन, कडा पिरश्रम र गुणस्तरीय खेल संस्कृति कायम राख्दै नेपाल प्रहरीले फुटबल, भिलबल, मार्सल आर्ट (तेक्वान्दो, कराते, जुडो), एथलेटिक्स लगायतका विविध खेलकुद प्रतियोगितामा नेपाली खेलकुद क्षेत्रको विकासमा ठूलो योगदान पुराएको छ

#### २.३ आयोजनाको अवस्थिति र पहुँच

आयोजना स्थल नेपालको वाग्मती प्रदेशको काभ्रेपलाञ्चोक जिल्लाको पनौती नगरपालिका वडा नम्बर ६ मा अवस्थित छ। आयोजना स्थलको भौगोलिक स्थान पश्चिममा २७°३४'३९.३६"N, उत्तरमा २७°३४'३४.९८"N, दक्षिणमा २७°३४'२७.५३"N र पूर्वमा २७°३४'१९.८४"N अक्षांश र देशान्तर अनुसार पश्चिममा ८४°३१'१२.३४"E, उत्तरमा ८४°३१'३७.८४"E, दक्षिणमा ८४°३१'१.३४"E र पूर्वमा ८४°३१'१३.८३"E रहेको छ।



नक्शा १: आयोजनाको अवस्थिति

स्रोतः विस्तृत अध्ययन प्रतिवेदन, २०१९

आयोजना स्थल देशको राजधानी काठमाडौंबाट बर्ष भिरने (सवै मौषममा) निर्वाध रूपमा संचालन हुने सडक संजालसँग जोडिएको छ। आयोजना स्थलबाट निकटतम विमानस्थल उत्तर पश्चिम दिशामा अवस्थित देशके सवैभन्दा पुरानो त्रिभुवन अन्तर्राष्ट्रिय विमानस्थल (TIA) लगभग २७ किलोमिटर रहेको छ। आयोजना स्थल राजधानी काठमाडौंबाट करिब २८.८ किलोमिटर दक्षिण पूर्वमा अरनिको राजमार्गको मदन भण्डारी सडक, बनेपा-खोपासी सडक हुँदै दिलनचोक, पनौती बजार पुग्न सिकन्छ।



नक्शा २: आयोजनाको क्षेत्र र पहुँच

२.४ <mark>आयोजनाको मुख्य अववयहरू</mark> आयोजना का मुख्य विशेषताहरूलाई निम्न तालिकामा प्रस्तुत गरिएको छः तालिका १: आयोजनाको विवरण

	<u> </u>	भायाजनाका विवरण	
ऋ.स	विषय	विवरण	
٩.	प्रस्तावक	राष्ट्रिय प्रहरी प्रशिक्षण प्रतिष्ठान, महाराजगञ्ज,	
		काठमाण्डौ	
٦.	आयोजनाको नाम	राष्ट्रिय प्रहरी प्रशिक्षण प्रतिष्ठान भवन निर्माण,	
	जानाज प्रमान	काभ्रेपलान्चोक	
₹.	आयोजना निर्माण स्थल		
٧.	प्रदेश	बागमती	
	जिल्ला	काभ्रेपलान्चोक	
	स्थानीय तह	पनौती नगरपालिका	
	वडा	६	
ሂ.	- <del> </del>	अक्षांशः २७॰३५'३३.४६" उत्तर	
	भौगोलिक अवस्थिति	देशान्तरः ८५°३१'६.०५" पूर्व	
ξ.	2 ~ ~	मध्यपहाडी, १४४२ देखि १५७४ मि. समुन्द्री	
	भौगर्भिक क्षेत्र	सतह देखि	
૭.	नजिकको खोला	पश्चिमी भाग रहेको पुण्यमाता खोला	
۲.	आयोजना पहुँच मार्ग र पुल		
٩.		अरनिको राजमार्ग (H03): सिंहदरबार, काठमाण्डौ	
	मुख्य सडक	देखि बनेपासम्म २३.७ किलोमिटर बनेपा—खोपासी	
	अन्तरिक पहुँच मार्ग	सडक (F029): बनेपादेखि आयोजना क्षेत्रसम्म ५.९	
	· ·	किलोमिटर कुल दूरीः २८.८ किमी	
90.	, आयोजना क्षेत्र		
99.	कुल क्षेत्रफल	४१.८६ हेक्टर	
	Plinth क्षेत्र	३१९१४ वर्ग मिटर	
	आयोजनाको Built Up Area	१०९,२१५ वर्ग मीटर	
	खुल्ला क्षेत्रफल	<b>९२.३</b> ८%	
٩٦.		प्रत्येक भवनसम्म रहने पहुँच मार्ग	
		आपतकालीन सिँढी	
		आगलागी साइरन प्रणाली (Fire Alarm System)	
	आपतकालीन तयारी	२००,००० लिटर पानीको व्यवस्था सहितको	
		अग्नी नियन्त्रण प्रणाली	
		आपतकालीन उद्दार व्यवस्था	
		खुला स्थानहरू	
		आपाङ्गमैत्री पैदल यात्री मार्ग	

ऋ.स		विषय	विवरण
			भवनको कोरिडोरमा स्वचालित बत्तिको व्यवस्था
			विशेषज्ञ चिकित्सकहरूको सुविधा
٩٦.	पानीको अ	ावश्यकता	
	स्रोत		नगरपालिकाबाट वितरण गरिने पानी र भूमिगत
			स्रोत (Deep Boring)
	निर्माण च		४०००० कि.लि. (३६५३० लिटर प्रतिदिन)
		परिमाण	६३५,००० लिटर प्रतिदिन
		भूमिगत पानी ट्यांकी	
	संचालन	(कुल)	६३५,००० लिटर 
	चरण	आगलागी नियन्त्रण प्रणाली	२००,००० लिटर
		Overhead ट्यांकी	२०२,००० लिटर
		खानेपानी प्रशोधन (RO)	२०,००० लिटर
98.	आवश्यक	 उर्जा	<u>I</u>
	श्रात  Electrical Substation  वैकल्पिक उर्जा श्रोत  तातो पानी (सौर्य उर्जा)  फोहर उत्सर्जन		नेपाल विधुत प्राधिकरणको राष्ट्रिय ग्रिड प्रणाली
			मार्फत
			२*१५०० के.भी.
			२*७५० के.भी. क्षमताका डिजेल जेनेरेटर सेट
			३८७ ,००० लिटर (प्रति व्यक्ति दैनिक २०
			लिटर)
	निर्माण च	रण	अनुमानित कुल उत्सर्जन : ५९.५ के.जी प्रतिदिन
			जैविक फोहर (५१%) : ३०.४ के.जी प्रतिदिन
	संचालन चरण		अनुमानित कुल उत्सर्जन : ४२४.३५ प्रतिदिन
αυ	त्रभाषा	7\1	जैविक फोहर (५१%) : २१६.४२ के.जी प्रतिदिन २४२०० लिटर (४८४ श्रमिक * ५० लिटर
<b>ባ</b> ሂ.			पानी प्रतिदिन) को ८०% का दरले १९३६०
	ढल प्रशोध	<b>प्र</b> न प्रणाली	लिटर फोहर पानी प्रतिदिन Soak Pit को माध्यमद्वारा
	निर्माण च	रण	प्रशोधन
			४४०००० लिटर पानीको ८०% पानी
	•		३५०००० लिटर फोहर पानी <sub>STP (</sub> MBBR
	संचालन चरण		Technology) द्वारा (पूर्ण रूपमा ३४५० जनाका
			लागी संचालनमा आउँदा)
٩٤.			<b>बनस्पतिः</b> सल्लो, चिलाउने, उत्तिस, काफल, मयल,
	मुख्य बन	स्पति, बन्यजन्तु र चराहरु	आदि
	5	•	बन्यजन्तुः जंगली बिरालो, बँदेल, स्याल, रतुवा मृग,

ऋ.स	विषय	विवरण
		आदि
		चराहरुः सुगा, भंगेरा, काग, डांग्रे, आदि
૧૭.	प्रक्षेपित जनसंख्या (कुल ३४५०	३२२५ जना (प्रहरी जवानहरूको बसोबास)
	संचालन चरण)	१२५ जना (पाहुना)
٩٣.	आयोजनाको अनुमानित लागत	ने.रु. ८,७९,१३,८०,०००
99.	आयोजना निर्माणका लागी लाग्ने	३ वर्ष
	अनुमानित समय	२ वर्ष

स्रोतः नेपाल प्रहरी प्रतिष्ठान निर्माणको विस्तृत आयोजना प्रतिवेदन, काभ्रेपलाञ्चोक,२०१९

#### २.५ आयोजना अवयवहरूको बारेमा जानकारी

नेपाल प्रहरीको सुदृढीकरण र सहयोगका लागी काभ्रेपलाञ्चोकको पनौतीमा नयाँ, आधुनिक र सुविधासम्पन्न प्रहरी प्रतिष्ठान स्थापना गर्न रा.प्र.प्र.प्र.ले आफ्नो कार्यक्षेत्रभित्र देहायका सुविधाहरू प्रस्ताव गरेको छ।

- १. प्रशासन ब्लक
- २. Tutorial ब्लक
- ३. पुस्तकालय + बिग्रन क्षेत्र
- ४. चमेना गृह
- ५. सहायता सेवा ब्लक
- ६. कुकुर (Kennel) ब्लक
- ७. घोडा तबेला
- ८. सभागृह १ (५७२ क्षमता)
- ९. सभागृह २ (३५२ क्षमता)
- १०. सम्मेलन हल १ (२४० क्षमता)
- ११. सम्मेलन हल २ (४८० क्षमता)
- १२. खेलकुद परिसर (भित्रि)/अन्य सुविधाहरू
- १३. भण्डारण ब्लक
- १४. हतियार स्टोर
- १५. चिकित्सा सुविधा
- १६. भोजन सहित ट्रेनी अफिसर ब्यारेक
- १७. प्रशिक्षार्थी JCO को भोजन संग ब्यारेक
- १८. भोजनको साथ प्रशिक्षार्थी अन्य रैंकको ब्यारेक
- १९. भोजनको साथ आधारभूत प्रशिक्षार्थी ब्यारेकहरू
- २०. भोजन संग महिला ब्यारेक
- २१. विविध (शपिंग कम्प्लेक्स) / बैंक / एटीएम / हुलाक कार्यालय
- २२. परेड ग्राउन्ड/ २०० मिटर एथलेटिक द्रयाक/ दर्शक ग्यालेरी
- २३. २००मि. फायर दायरा

- २४. मोटर ग्यारेज
- २५. गार्ड रुम/कन्ट्रोल रुम/रिसेप्शन
- २६. Indoor Firing (इनडोर फायरिङ) ब्लक (५० मिटर)
- २७. पौंडी पोखरी. व्यायामशाला र स्वास्थ्य क्लब
- २८. वरिष्ठ अधिकारीको अतिथि गृह
- २९. जुनियर अफिसरको गेस्ट हाउस
- ३०. गैर-रैंक अफिसर्स गेस्ट हाउस
- ३१. वरिष्ठ अधिकारीको निवास कार्यकारी निर्देशक (प्रकार VI)
- ३२. वरिष्ठ अधिकारीको निवास निर्देशक (प्रकार v)
- ३३. वरिष्ठ अधिकारीको निवास संयुक्त निर्देशक र सुपरिटेन्डेन्ट (प्रकार ١٧)
- ३४. इन्स्पेक्टर / JCO / HC क्वार्टर ४ ब्लक (प्रकार III)
- ३५. कन्स्टेबल/फलोवर्स क्वार्टर ५ ब्लक (प्रकार ॥)
- ३६. Obstacle / बाहिरी प्रशिक्षण मैदान
- ३७. बाहिरी खेलकुद परिसर
- ३८. पम्प कोठा र पानी भण्डारण ट्यांकी
- ३९. मलजल प्रशोधन प्लान्ट (Sewage Treatment Plan)
- ४०. बिधुतिय सबस्टेशन
- ४१. आगन्तुक पार्किंग
- ४२. स्टाफ र परिवारको लागी खेल मैदान
- ४३. हेलिप्याड
- ४४. प्रशिक्षणको लागी अतिरिक्त मैदान
- ४५. गोला बारुद स्टोर र अन्य सुविधाहरू (क्वार्टर गार्ड, परेड ग्राउन्ड, पीटी ग्राउन्ड, फायरिङ दायरा, घोडा सवारी प्रशिक्षण मैदान )

#### २.६ आयोजनाको मुख्य निर्माणका गतिविधिहरू

यस आयोजनाका लागी पूर्विनर्माण, निर्माण तथा सञ्चालन तथा मर्मतसम्भार गरी तीन चरणहरू प्रस्तावित छन्। सबै आयोजना गतिविधिहरू यी चरणहरूको आधारमा वर्गीकृत गरिएको छ। क. पुर्व निर्माण चरणः

यस चरण अन्तर्गत मुख्य गतिविधि यस प्रकारका हुनेछनः

- आयोजना स्थलको सिमानाको सिमाङ्कन र बार लगाउने।
- EIA अध्ययनको तयारी र स्वीकृति
- निर्माण सम्झौता तथा स्वीकृति ।
- पानीको स्रोतको पहिचान
- सम्बन्धित विभाग बाट सबै कानुनी प्रक्रिया सम्पन्न

#### ख. निर्माण चरण :

यस आयोजना निर्माण चरणमा आयोजना कार्यान्वयनको मुख्य कार्यहरू समावेश छन्। २.२.४ मा सूचीबद्ध प्रमुख अववयहरु यस चरणमा निर्माण गरिनेछ।

#### ग. संचालन तथा मर्मतसंभार चरण

यस चरणमा, परिच्छेद २.१ मा उल्लेख भए बमोजिम रा.प्र.प्र.प्र.को उद्देश्य पूरा गर्न आयोजना सञ्चालन गरिनेछ। साथै यस चरणमा ढल, पानी र फोहोर पानी प्रशोधन प्लान्ट, चारैतिर पर्खाल, आन्तरिक मर्मतसम्भार आदिको नियमित सरसफाई र मर्मतसम्भार गरिनेछ।

#### २.७ आयोजनाका उद्देश्यहरू

हाल आयोजनाको मुख्य उद्देश्य संस्थागत सुदृढीकरणका लागी विद्यमान तालिम कार्यक्रमहरूलाई लागी अत्याधुनिक, नवीनतम प्रविधि सिहतको सुसज्जित पूर्वाधार र वातावरणमा स्तरोन्नति र आधुनिकीकरण गर्नु रहेको छ। यसले रा.प्र.प्र.प्र.लाई देशभित्रका प्रहरी कर्मचारीहरूका लागी विभिन्न विशेष प्रशिक्षण पाठ्यक्रमहरू विस्तार गर्न मद्दत गर्नेछ। रा.प्र.प्र.प्र आयोजना का मुख्य उद्देश्यहरू यस प्रकार रहेका छन् :

- वरिष्ठ प्रहरी अधिकारीहरू र प्राविधिक प्रहरी अधिकारीहरूलाई आधारभुत प्रशिक्षण पाठ्यक्रमहरू सञ्चालन गर्नः
- प्रहरी प्रशिक्षण वातावरणको लागी आवश्यक योग्य प्रहरी प्रशिक्षकहरू विकास गर्न र परामर्श सेवाहरू प्रदान गर्न:
- अपराध अनुसन्धान, सुरक्षा, व्यवस्थापन र प्रशासन, सञ्चालन, प्रहरी पहुँच, इत्यादिको क्षेत्रमा वरिष्ठ प्रहरी अधिकारीहरूको लागी विशेष प्रशिक्षण पाठ्यक्रमहरू सञ्चालन गर्न
- प्रहरी प्रधान कार्यालयलाई मानव संसाधन विकास नीति तर्जुमा गर्न सहयोग गर्न
- प्रहरी र सुरक्षा सम्बन्धी मामिलामा अनुसन्धान गतिविधिहरू सञ्चालन गर्ने।

#### २.८ आयोजनाका आवश्यकताहरू

#### १. निर्माण सामाग्री

आयोजना निर्माणका लागी तयार गरिएको DPR मा निर्माण सामग्रीको वृस्तृत लागत उपलब्ध नभएता weightage value का आधारमा अनुमानित लागत तलको तालिकामा प्रस्तुतु गरिएको छः

	(11)(14) (-11)(11)(11)(14)(14)(11)(14)(11)				
S.N.	Description	Unit	Weightage		
1	Brick (Ash Fly)	1000no	8.00		
2	Cement (OPC)	Quintal	14.50		
3	TMT Steel	Quintal	19.50		
4	Aggregates (20mm)	cum	6.50		
5	Sand (Coarse Sand)	cum	3.00		
6	Flooring Items	sq.m	5.00		
7	Paints	liter	3.00		
8	Doors/Window/Frame (uPVC-Al-Steel)	sq.m	7.00		
9	Pipes	meter	2.50		

तालिका २: निर्माण सामग्रीको आवश्यकता

S.N.	Description	Unit	Weightage		
10	Lamps and Fans	each	4.50		
11	Electrical Machinery	each	2.50		
12	Wires and Cables	100metre	4.00		
13	Labor (Skilled-50% & Unskilled-50%)	each	20.00		
	Total				

Source: Detailed Project Report of Construction of National Police Academy at Kavrepalanchowk, Nepal,

आयोजना निर्माणका लागी आवश्यक सामग्री कानुन सम्मत रूपमा आयोजना नजिकका बजारबाट खरिद गरिने छ। निर्माण

#### २. आवश्यक निर्माण ऊर्जा/इन्धनको आपूर्ति

ऊर्जाको मुख्य स्रोतमा नेपाल विद्युत प्राधिकरण (NEA) द्वारा आपूर्ति गरिएको विद्युत हुनेछ। निर्माणको अविधमा प्राधिकरणले राष्ट्रिय ग्रिड जडान मार्फत आयोजनास्थलमा २\*१५०० केभी विद्युतीय सबस्टेसन राखिनेछ। विद्युत लोडसेडिङका समयमा २\*७५० केभिए क्षमताको आवाज कम निकाल्ने डिजेल जेनेरेटर प्रयोग गरिनेछ।विद्युतिय इन्धन बाहेक कर्मचारी र कामदारलाई खाना बनाउन एलपी ग्यास उपलब्ध गराइनेछ भने पेट्रोल, डिजेल, मिट्टतेल जस्ता पेट्रोलियम पदार्थहरु एलपीजी, बिटुमिन नेपाल आयल निगमबाट खरिद गरिनेछ।

#### ३. निर्माण शिविर र सामग्री भण्डारण स्थल

सिमेन्ट,बालुवा, रोडा, स्टिल बार, ढुङ्गा/बोल्डर, पाइप, जेनेरेटर, एसिड, ट्रान्सफर्मर, लुब्रिकेन्ट र भारी मेसिनरी तथा एक्काभेटर, बुलडोजर, लोडर, टिपर, ट्रक, द्रयाक्टर, स्क्रिन प्लान्ट, वाटर ट्याङ्कर, भाइब्रेटर जस्ता निर्माण सामग्रीहरू, रोलरहरू, कंकीट मिक्सरहरू सहज र सुरक्षित् स्थानहरूमा अवस्थित हुनेछन्।

#### ४. बिग्रन (muck/spoil) व्यवस्थापन क्षेत्र

आयोजना निर्माण अन्तर्गत खन्ने र जिमन सतह मिलाउनका लागी पुर्ने कार्य दुवै हुनेछ। DPRको प्रारम्भिक अनुमानबाट, जगको कामबाट लगभग ६७,१८०.५ cum spoil उत्पन्न हुनेछ। यसका व्यवस्थापनका लागी बाहिरी खेल मैदान, पार्किङ एरिया, रिटेनिङ पर्खालको ब्याकिफिलिंग, प्रवेशद्वार निजेकैको जग्गा समतल गर्ने र आन्तरिक पहुँच सडक निर्माण कार्यमा यो Spoil प्रयोग गरिनेछ।

#### आवश्यक जनशक्ति

३ वर्षको निर्माण अविधमा ५३००० (प्रतिदिन ४८४ जनशक्ति) जनशक्ति वा २४२ (५०%) प्रत्येक दक्ष र अदक्ष जनशक्ति आवश्यक पर्नेछ। निर्माणको ऋममा ठूलो मात्रामा श्रमशक्ति प्रयोग हुने भएकाले स्थानीय जनशक्तिको अभाव दैनिक रूपमा हुन सक्छ। यस्तो अवस्थामा निर्माण व्यवसायीले बाहिरबाट पनि कामदार ल्याउन सक्छ।

#### ६. जग्गाको आवश्यकता

प्रस्तावित आयोजना निर्माणका लागी कुल ४१.८६ हेक्टर जिमन आवश्यक पर्ने देखिन्छ। जसमध्ये १०.९२ हेक्टरमा पूर्वाधार निर्माण र ३०.९४ खुल्ला जिमन रहने छ। यस मध्ये देवीस्थान सा.वनको ३.६हेक्टर र राष्ट्रिय वनको ३.१हेक्टर वनको क्षेत्र आवश्यक पर्ने देखिन्छ।

तालिका ३: आयोजनाको लागी आवश्यक जिमन

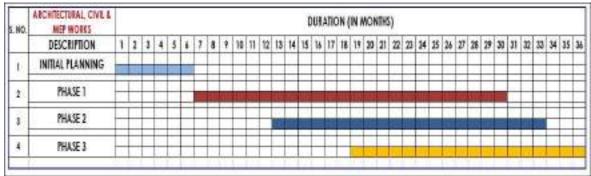
S.N.	Land Ownership	Area of Land (ha)
1.	Forest Area	6.7
	Devithan (Kha) Community Forest	3.6
	National Forest	3.1
2.	NPA Owned Land	35.16
	Total	41.86

Source: Documents of NPA Project

#### ७. आयोजना कार्यान्वयन तालिका

नक्सांकन/सीमांकन, vegetation clearance, अस्थायी पर्खाल निर्माण जस्ता पूर्व निर्माण चरणमा गरिने कार्यहरू सम्पन्न भएपछि निर्माण व्यवसायीहरूलाई परिचालन गरिनेछ। पहुँच सडक, आन्तरिक प्रवेशद्वार पुलको निर्माण, भवन निर्माण २०२३ मा सुरु गरी २०२६ मा सम्पन्न गर्ने योजना छ।

तालिका ४: आयोजना कार्यान्वयन तालिका



श्रोतः वि.अ.प्र.. २०१९

#### द. प्रस्तावको कार्यान्वयनको लागी आवश्यक लागत

सहरी विकास तथा भवन निर्माण विभाग (DUDBC) द्वारा स्वीकृत जिल्ला दर र मापदण्ड (राष्ट्रिय भवन संहिता, २०२०) को परिधि भित्र रहेर लागत अनुमान गरिएको छ। आयोजना निर्माणका लागी कुल लागत लागत रु. ने.रु.  $\varsigma$ ,७९,१३, $\varsigma$ 0,००० रहेको छ।

#### २.९ आयोजना सम्बन्धित/ सहायक सुविधाहरू (Ancillary Facilities)

#### १. फोहर व्यवस्थापनका विकल्पहरू

सामान्यतया, फोहोरहरु दुइ प्रकारका हुनेछनः

- जैविक फोहोर (कुहिने)
- अजैविक फोहोर (नकुहिने)

रा.प्र.प्र.प्र.को निर्माण चरणमा दैनिक कुल ५९.५ के.जी (३०.४० जैविक) र संचालन चरणमा ४२४.३५ के.जी (२१६.४२ के.जी जैविक) फोहर सिर्जित हुनेछ। यसरी दुवै चरणमा सिर्जित जैविक फोहरलाई रा.प्र.प्र.प्र.को क्षेत्र भित्र वागवानीमा व्यवस्थापन गरिनेछ। फोहोरमैला व्यवस्थापनको लागी आधारभूत ठोस फोहोर व्यवस्थापन नियमावली २०७० र यसका सिद्धान्तहरूलाई विधिवत रूपमा लागू गरिनेछ:

- पुनः प्रयोग गर्न मिल्ने फोहोरहरू, जस्तै छाडिएको/उपयोग गर्न नसिकने reinforcement बारहरू र प्याकिङ सामग्रीहरू कवाडी विकेताहरूलाई पठाइने/बेचिनेछ।
- ग्यारेजबाट उत्पन्न हुने रासायनिक फोहोरलाई चुहावट, क्षयरिहत, र विशेष रूपमा डिजाइन गरिएको कन्टेनरमा संकलन गरी सावधानीपूर्वक भण्डारण गरिनेछ ।
- निर्माण अविधमा फोहोरमैलाको उचित व्यवस्थापनका लागी स्थानीय तहसँग प्रभावकारी समन्वय गरिने व्यवस्थापन गरिनेछ।

#### २. पानी भण्डारण र आपूर्ति प्रणाली

प्रारम्भिक अनुमानबाट निर्माण चरणमा ४०००० KL (प्रतिदिन ३६५३० लिटर) पानी आवश्यक हुनेछ। कूल दैनिक आवश्यकता मध्ये श्रमिकका लागी २४२०० लिटर पानी (स्वच्छता कायम राख्न र ५० लिटर प्रतिदिन खाना पकाउन) र निर्माण कार्यमा १२३३० लिटर पानी प्रयोग हुनेछ।

सञ्चालनको चरणमा, कुल ६३५,००० लिटर क्षमता भएका भूमिगत पानी ट्याङ्कीहरू जसमध्ये २,००,००० लिटर भूमिगत पम्प कोठा सिहतको स्थिर फायर वाटर ट्याङ्कीको रूपमा व्यवस्था गरिनेछ। रा.प्र.प्र.प्र.का लागी २ लाख २ हजार लिटर क्षमताको ओभरहेड ट्याङ्की पनि प्रस्ताव गरिएको छ।

#### ३. आकाशे पानी भण्डारण र पुनर्भरण

रा.प्र.प्र.प्र.ले कूल ३३८,१९६.०५ वर्गमिटर क्षेत्रफलबाट वर्षाको पानी सङ्कलन गर्ने प्रणाली स्थापना गरी पुनर्भरण गर्ने कार्य गर्नेछ।

#### परिच्छेद ३: प्रतिवेदन तयार गर्दा अपनाइएको विधि

वातावरण संरक्षण ऐन, २०७६ तथा वातावरण संरक्षण नियमावली, २०७७ मा व्यवस्था भएका कानुनी प्रिक्रियाहरूको अनुसरण गरी यो वातावरण प्रभाव मुल्यांकन प्रतिवेदन तयार गरिएको छ। प्रतिवेदन तयार पार्न चाहिने प्रथम तथा दोस्रो क्रमको जानकारीहरू (Primary and Secondary Information) क्रमशः स्थलगत अध्ययन र सन्दर्भ सामग्रीहरूको पुनरावलोकनबाट संकलन गरिएको छ।

सामाजिक,आर्थिक, सास्कृतिक, भौतिक वातावरण र जैविक वातावरण क्षेत्रहरूको गुणात्मक र संख्यात्मक सुचनाहरूको संकलनका लागी सन्दर्भ सामाग्रीहरूको पुनरावलोकन, स्थलगत सर्वेक्षण अवलोकन, सूचीकरण, सर्वेक्षण, र मुख्य सूचनादातासंगको अन्तर्वार्ता र सरोकारवाला व्यक्ति/निकायहरूसंगको छलफल आदि कार्य गरिएको छ।

- सम्बन्धित सामाग्री/प्रतिवेदनहरुको पुनरावलोकन (प्रकाशित/अप्रकाशित),
- प्रस्तावको प्रभाव क्षेत्र निर्धारण
- प्रस्ताव कार्यान्वयन हुने क्षेत्रको नक्साको अध्ययन तथा विश्लेषण
- चेकलिष्ट/म्याट्रिक्स, तथा प्रश्नावलीको निर्माण गरी आवश्यक तथ्याङ्क सङ्कलन
- स्थलगत अध्ययन/आधारभूत सर्वेक्षण
- प्रस्तावकबाट प्रदान गरिएको स्वीकृत सूचना टाँस्ने
- दैनिक राष्ट्रिय पत्रिकामा ७ दिने सार्वजनिक सूचना प्रकाशन
- सार्वजनिक सुनुवाइ र सरोकारवाला छलफल
- आयोजना क्षेत्रको आधाररेखा तथ्यांक सङ्कलन गर्न स्थलगत अध्ययन
- सार्वजनिक परामर्श बैठकहरू, लक्षित समूह छलफल र मुख्य सूचनादाता अन्तर्वार्ता
- प्रभावको पहिचान, आँकलन तथा उल्लेखनीय प्रभावको मूल्याङ्कन गर्दा अपनाइएको विधि
- EIA अध्ययन प्रतिवेदनको मस्यौदा तयारी
- प्रस्तावक र MoHA मार्फत MoFE मा पेश गर्ने
- प्रतिवेदन खुलासा, प्रस्तुति र टिप्पणी समावेश
- अन्तिम मस्यौदा EIA अध्ययन प्रतिवेदन तयारी र स्वीकृतिको लागी MoFE मा पेश गर्ने
- EIA अध्ययन प्रतिवेदनको स्वीकृत

आयोजनाको स्थलगत अध्ययनका ऋममा गरिएका छलफल, अन्तरिक्रया तथा सार्वजनिक सुनुवाईको संछिप्त विवरण।

तालिका ५: अन्तरिक्रयाको विवरण

ऋ.स	प्रकार	मिति	स्थान	प्रतिनिधि⁄ संस्था	संख्या
٩.	अन्तरिक्रया	१६ जेष्ठ २०७९	पनौती न.पा	नगर प्रमुख, नगर उपप्रमुख, वार्ड	9

ऋ.स	प्रकार	मिति	स्थान	प्रतिनिधि⁄ संस्था	संख्या
		৭৩ जेष्ठ		अध्यक्ष्, रा.प्रा.प्र प् र	
		२०७९		परामर्शदाता प्रतिनिधि	
٦.	सामुहिक	२७ माघ	पनौती न.पा	वार्ड अध्यक्ष् ,	אכ
	छलफल	२०७९	४, ५,६	सरोकारवाला	२४
n.	मुख्य सूचनादाता अन्तर्वार्ता	पनौती न.पा	पनौती न.पा	नगर प्रमुख, नगर उपप्रमुख, वार्ड अध्यक्ष्, सामाजिक अगुवा	8
٧.	लक्षित समुह छलफल	२८ माघ २०७९	दलिंनचोक, पनौती न.पा-६	देवीस्थान सा.व.उ.स र आमा समुह	sx m

तालिका ६: सार्वजनिक सुनुवाई सम्बन्धि विवरण

ऋ.स	प्रकार	मिति	स्थान	प्रतिनिधि⁄ संस्था	संख्या
٩	सार्वजनिक सुनुवाई	१६ पौष २०७९	आयोजना क्षेत्र् ,पनौती न.पा -६, दलिनचोक	जी.स.स प्रमुख, नगर प्रमुख, जिल्ला प्रहरी कार्यालय, वातावरण विभाग प्रतिनिधि, जिल्ला प्रशासन कार्यालय प्रतिनिधि, वार्ड अध्यक्ष्, देवीस्थान सा.ब.उ.स., रा.प्र.प्र.प्र. प्रतिनिधि, परामर्शदाता प्रतिनिधि तथा स्थानीयवासी	88

#### प्रभावको पहिचान, आँकलन तथा उल्लेखनीय प्रभावको मूल्याङ्कन

स्थलगत अनुसन्धान तथा सन्दर्भ सामग्री पुनरावलोकनबाट प्राप्त जानकारीका आधारमा प्रस्ताव कार्यान्वयनका कारण हुने सम्भाव्य सकारात्मक र नकारात्मक प्रभावहरूको पहिचान गरी जैविक, भौतिक र सामाजिक-आर्थिक तथा साँस्कृतिक गरी तीन शीर्षक अन्तर्गत प्रभावको अर्थपूर्ण स्तर अनुमान तथा मूल्याङ्कन गरिएको छ।

तालिका ७: प्रभावको पहिचान, आँकलन तथा उल्लेखनीय प्रभावको मूल्याङ्कन

विवरण (परिमाण, सीमा र समयावधि योगफल)	प्रभाव स्तर
७५ भन्दा माथि	अति सार्थक
५० देखि ७५ सम्म	सार्थक
५० भन्दा मुनि	नगण्य

# वातावरणीय प्रभाव मुल्यांकन (वा.प्रा.मु) अध्ययन प्रतिवेदनको तयारी

वा.प्रा.मु अध्ययन प्रतिवेदनको तयारी अन्तर्गत प्रभाव (अनुकुल/प्रतिकुल) व्यवस्थापन योजना, अनुगमन योजना र वातावरण व्यवस्थापन योजना निर्माण गरी प्रतिवेदन तयार गरिएको थियो । आयोजनाले स्थानीय वातावरणमा पर्न सक्ने नकारात्मक वातावरणीय प्रभावहरूको विश्लेषणबाट प्रभाव न्यूनीकरण उपायहरू पहिचान गरिएको थियो र वातावरण संरक्षण नियमावली २०२० को अनुसूची-१२ अनुसार वातावरणीय अध्ययन प्रतिवेदनमा समावेश गरिएको थियो।

#### परिच्छेद ४ः प्रस्तावसँग सम्बन्धित नीति, कानुन तथा मापदण्डहरु

प्रस्तावित राष्ट्रिय प्रहरी प्रतिष्ठान भवन निर्माणका कार्यावन्यनका ऋममा नेपाल सरकारको निम्न नीति, कानून, निर्देशिका, नियमावली र मापदण्डहरुलाई आकर्षित गर्दछ। नेपाल सरकारका नीति, कानून, दिशानिर्देश र मापदण्डका अलावा यो आयोजनाले नेपालले हस्ताक्षर गरेको अन्तर्राष्ट्रिय महासन्धि सन्धिहरूलाई पनि आकर्षित गर्नेछ।

#### ४.१ नेपालको संविधान

#### ४.२ आवधिक योजना. नीति तथा रणनीति/कार्यनीति

- १. राष्ट्रिय अनुकूलन योजना (NAP) २०२१ -२०५० सन्
- २. वन क्षेत्र रणनीति (२०७३-२०८२) वि.सं.
- ३. पाँचौं योजना (आर्थिक वर्ष २०७६/७७-२०८०/८१) वि.सं.
- ४. राष्ट्रिय जलवायु परिवर्तन नीति, २०७६ वि.सं.
- ५. राष्ट्रिय वातावरण नीति, २०७६ वि.सं.
- ६. राष्ट्रिय वन नीति, २०७६ वि.सं.
- ७. भूमि उपयोग नीति, २०७५ वि.सं.
- ८. राष्ट्रिय शहरी विकास रणनीति, २०७४ वि.सं.
- ९. निर्माण क्षेत्रका लागी राष्ट्रिय रोजगार नीति, २०७१ वि.सं.
- १०. सार्वजनिक पूर्वाधार निर्माण तथा सञ्चालन नीति २०५७ वि.सं.

## ४.३ ऐनहरु

- १. वातावरण संरक्षण ऐन, २०७६ वि.सं.
- २. वन ऐन, २०७६ वि.सं.
- ३. भूमि प्रयोग ऐन, २०७६ वि.सं.
- ४. भवन निर्माण ऐन, २०७५ वि.सं.
- ५. विदेशी लगानी र प्रविधि हस्तान्तरण ऐन, २०७५ वि.सं.
- ६. सार्वजनिक स्वास्थ्य सेवा ऐन, २०७५ वि.सं.
- ७. बाल ऐन, २०७५ वि.सं.
- ८. रोजगारीको हक ऐन, २०७५ वि.सं.
- ९. राष्ट्रिय नागरिक (संहिता) ऐन, २०७४ वि.सं. BS
- १०. अपाङ्गता भएका व्यक्तिको मानव अधिकार ऐन, २०७४ वि.सं.
- ११. नागरिक अधिकार ऐन, २०७४ वि.सं.
- १२. श्रम ऐन, २०७४ वि.सं.
- १३. विपद् जोखिम न्यूनीकरण तथा व्यवस्थापन ऐन, २०७४ वि.सं.

- १४. स्थानीय सरकार सञ्चालन ऐन, २०७४ वि.सं.
- १४. लोपोन्मुख प्रजातिको वन्यजन्तु र वनस्पतिको अन्तर्राष्ट्रिय व्यापार ऐन, २०७३ वि.सं.
- १६. कार्यस्थलमा हुने यौन उत्पीडन रोकथाम ऐन, २०७१ वि.सं.
- १७. ठोस फोहोर व्यवस्थापन ऐन, २०६८ वि.सं.
- १८. बिरुवा संरक्षण ऐन. २०६४ वि.सं.
- १९. बाल श्रम (निषेध) ऐन, २०५६ वि.सं.
- २०. जलस्रोत ऐन. २०४९ वि.सं.
- २१. माटो र जलाधार संरक्षण ऐन, २०३९ BS
- २२. राष्ट्रिय निकुञ्ज तथा वन्यजन्तु संरक्षण ऐन, २०२९ वि.सं.
- २३. जलीय संरक्षण ऐन, २०१७ वि.सं.
- २४. प्रहरी ऐन. २०१२ (संशोधन २०६६) वि.सं.

# ४.४ अन्तर्राष्ट्रिय महासन्धि, सम्झौता र सन्धिहरू

- 9. Convention on the Continuously Increasing Permanent Pollutantsमहासन्धि, २००१
- २. जलवायु परिवर्तन सम्बन्धी संयुक्त राष्ट्र फ्रेमवर्क कन्भेन्सन, १९९७ को क्योटो प्रोटोकल
- ३. जलवायु परिवर्तनमा संयुक्त राष्ट्र फ्रेमवर्क कन्भेन्सन, १९९४
- ४. जैविक विविधतासम्बन्धी महासन्धि. (CBD) १९९२
- ५. बासेल (Basel) महासन्धि, १९८९
- ६. लोपोन्मुख प्रजातिहरूमा अन्तर्राष्ट्रिय व्यापार महासन्धि (CITES), १९७४
- ७. ILO महासन्धि. १९६९

## ४.५ पनौती नगरपालिकासँग सम्बन्धित विनियमहरू

- १. भवन निर्माण २०७७
- २. पनौती नगरपालिका क्षेत्र भित्रको वन व्यवस्थापन सम्बन्धमा बनेको ऐन, २०७७
- ३. विपद जोखिम व्यवस्थापन ऐन, २०७७
- ४. वन व्यवस्थापन ऐन, २०७७
- ५. पनौती नगरपालिकाको भूमि विकास निर्देशिका २०७६
- ६. जलस्रोत प्रयोग नियमावली, २०७६
- ७. पनौती नगरपालिकाको सडक मापदण्ड, २०७४

#### परिच्छेद ४: विद्यमान वातावरणीय अवस्था

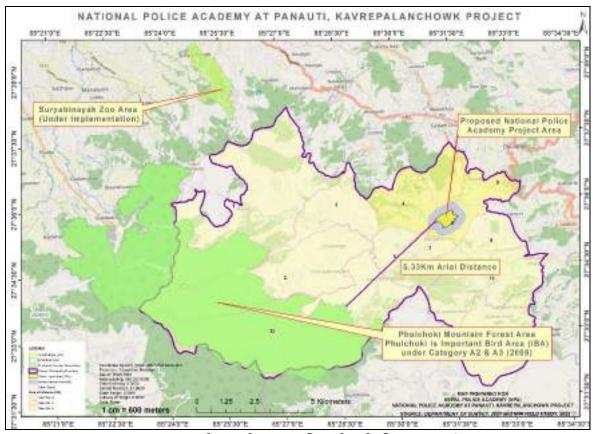
#### ५.१ भौतिक वातावरण

प्रस्तावित आयोजना बागमती प्रदेश, काभ्रेपलाञ्चोक जिल्लाको पनौती नगरपालिका वडा नं. ६ मा अवस्थित रहेको छ। भौगोलिक हिसाबले प्रस्तावित आयोजना क्षेत्र मध्य-पहाडी भू-भाग (२७°३४'३३.४०"उत्तर ८४°३१'८.३९"पूर्व) मा पर्दछ भने सामुन्द्रिक सतहबाट १४४२ मि. देखि १४७४ मि. को उचाइ सम्म अवस्थित रहेको छ । कोशी निद जलाधार क्षेत्र भित्र रहेको रोशी खोला उप-जलाधार क्षेत्रमा प्रस्ताव गरिएको यस आयोजना स्थलको पश्चिम पिट्ट पुण्यमाता खोला पर्दछ । आयोजनाको भौगोलिक विशेषता भनेको यस क्षेत्र काठमाण्डौं समुहको फुलचोकी उप-समूह अन्तर्गत पर्दछ जहाँ तल्लो पश्चिमी पुण्यमाता खोलासँगैको भागहरूमा फिका हरियो-खैरो रङ्गको फिलाइट्स, गुलाबी बैजनी रङ्गको स्याण्डस्टोनहरू, रिपल चिन्हहरू र माटो-ढुङ्गा मिश्रित बलौटे विशेषता रहेको पाईयो। त्यसैगरी माथिल्लो भागमा मोटो दाना भएको गाढा खैरो गार्नेटिफेरस मस्कोभाइट बायोटाइट क्वाट्जं सिस्ट, खरानी रङको क्वार्टजाइट र हल्का हरियो क्वार्टजाइट एकआपसमा मिलेर रहेको पाईयो। यस क्षेत्रमा वर्षा मुख्य रूपमा मनसूनले ल्याउने गर्दछ र सामान्यतया जुलाईमा बढी मात्रामा वर्षात हुने गर्दछ (कूल वार्षिक वर्षाको ७४-८०% पानी जुलाईमा पर्दछ)। आयोजना स्थलको औसत अधिकतम बार्षिक तापक्रम ३२° सेल्सियस जुलाई महिनामा रहेको पाइयो। भने औसत न्यूनतम बार्षिक तापक्रम ०.०° सेल्सियस जनवरी महिना रहेको पाइयो।

#### ५.२ जैविक वातावरण

आयोजनाका संरचनाहरू रहने क्षेत्र उपोष्ण जलवायु (Subtropical Climate) भएको क्षेत्रमा अवस्थित छ। आयोजना निर्माण गर्ने क्रममा ६.७ हेक्टर (देवीस्थान (क) सा.व. को ३.६ हेक्टर र राष्ट्रिय वनको ३.१ हेक्टर) वन क्षेत्र आवश्यकता पर्दछ। आयोजना क्षेत्रबाट सबै भन्दा नजिकमा पर्ने संरक्षित क्षेत्र फुलचोकी वन क्षेत्र जुन महत्वपूर्ण पंक्षी क्षेत्र (IBA) पनि हो र यो लगभग ५.३३ किलोमिटरको दूरीमा अवस्थित छ।

राष्ट्रिय वन क्षेत्र पर्दछन्। प्रस्तावित आयोजना क्षेत्र भित्र पाइने वनस्पतिका प्रमुख प्रजातिहरुमा लप्सी, उत्तिस, काफल, गोब्रे सल्ला, खोटे सल्ला, मयल, चिलाउने, दवदबे, शिरिष, भलायो, घ्यू कुमारी, असुरो, जामुन/क्यामुन आदि हुन्। वन्यजन्तुको स्थलगत अध्ययनका आधारमा आयोजनाको प्रभाव क्षेत्र र वरपरमा ४ प्रजातिका स्तनधारी जनावरहरू जस्तै रतुवा मृग, जंगली बिरालो, स्याल, बँदेल, ८ प्रजातिका पन्छीहरू जस्तै काग, कालिज, भँगेरा, सुँगा, ढुकुर, कोइली, गौथली, चिल, ३ प्रजातिका सरीसृप/उभयचरहरू जस्तै छेपारो, भ्यागुता, सर्प, आदि रहेको पाइयो। आयोजनाको प्रभाव क्षेत्र नजिकमा अवस्थित पुण्यमाता खोलामा प्रदुषणका कारणले स्थलगत गर्ने समयमा कुनै पनि माछाका प्रजातिहरू पाइएन।



नक्शा ३: आयोजना क्षेत्र र संरक्षित क्षेत्रको निकटतम दुरी

#### सामाजिक-आर्थिक वातावरण

आयोजना प्रभावित पनौती नगरपालिका एउटा पुरानो शहरका रुपले प्रशिद्ध अनि परिचित छ । पनौतीको मुख्य क्षत्र रोशी र पुण्यमाता खोलाको संगमस्थलमा अवस्थित छ । हरेक बाह वर्षमा लाग्ने मकर मेला, हरिसिद्धि नाँच, पनौती जात्रा, पनौती जलविद्युत आयोजना (नेपालकै तेस्रो) जस्ता इतिहास बोकेका विषयहरुले गर्दा पनौती क्षेत्रको महत्व अतिनै पृथक रहेको छ । यस पालिकाको कूल जनसंख्या ५१५०५ मध्ये पुरुष २५०१५ र महिला २६४८९ रहेका छन्। जस अन्तर्गत वार्ड नं. ६ को कूल जनसंख्या ३५४७ मध्ये पुरुष १८०७ र महिला १७४० रहेको छ।

प्रभावित पालिकामा क्षेत्रीहरूको बाहुल्यता रहेको छ जसको कुल जनसंख्या १२९०२ रहेको छ । पालिका भित्र ८९२५ (८८.१४%) घरधुरीमा खानेपानीको व्यवस्था सरकारी/उपभोक्ता समिति मार्फत वितरण गर्ने गरिएको छ । धर्म अनुसार ३२२६७ जनसंख्याले हिन्दु धर्म मान्दछन् भने बोलीचालीको भाषा भने नेपाली, तामाङ र नेवार भाषाको प्रयोग भएको पाईन्छ । स्वास्थ्य सुबिधाको लागी त्यस क्षेत्रका बासिन्दाहरू बनेपा र धुलिखेल जाने गरेको पाईएको छ । काठमान्डौबाट मदन भण्डारी राजमार्ग, अरिनको राजमार्ग हुँदै बनेपा-खोपासी सडक हुँदै २८.८ कि.मि. दुरीमा प्रस्तावित आयोजना क्षेत्र पुग्न सिकेन्छ ।

प्रस्तावित आयोजना कार्यान्वयन गर्दा कुनै पिन सार्वजिनक तथा निजि जग्गा तथा संरचनाहरूमा असर नगरेतापानी यस अघि आयोजनाको क्षेत्र भित्रको स्रोत बाट खानेपानी खाईरहेका घरधुरी तथा आवतजावत गर्ने स्थानीयवासीलाइ असुविधा पुग्न जाने देखिन्छ। आयोजना निर्माणका लागी प्रस्ताव गरिएको ४१.८६ हेक्टर मध्ये ३५.१६ हेक्टर आयोजनाकै नाउँमा रहेको छ भने ६.७ हेक्टर वन क्षेत्रबाट भोगाधिकार लिनु पर्ने हुन्छ ।

## परिच्छेद ६: प्रस्तावको विकल्प विश्लेषण

प्रस्तावित आयोजना नेपाल सरकार र भारत सरकारबीच नेपाल प्रहरीको क्षमता अभिवृद्धि गर्नमा राष्ट्रिय प्रहरी प्रतिष्ठानको अत्याधुनिक सुविधासम्पन्न र व्यवस्थित भवन निर्माणका लागी काभ्रेपलाञ्चोक जिल्लाको पनौतीमा उपयुक्त ठाउँको पिहचान गरि मिन्त्रपरिषद्को निर्णयबाट जग्गा अधिग्रहण र भोगाधिकार लिई भारत सरकार संग आयोजना को डिजाइन र कार्यान्वयनमा समझदारी पत्रमा हस्ताक्षर गरि छनोट भैसकेको अवस्थामा यसको स्थानको विकल्प दिन कठिन छ । वा.प्रा.मु प्रतिवेदन तयारीको अध्ययनका ऋममा पिहचान गरिएका उपयुक्त न्यूनीकरण र अनुगमनका उपायहरू लागू गरिएमा आयोजना ले गम्भीर प्रतिकूल वातावरणीय प्रभाव पार्ने छैन भनी गरिएका विभिन्न विचारहरूले आयोजनाको विकल्पहरूको तुलना देखाएको छ।

त्यसकारण, यो विकल्प प्रस्ताव कार्यान्वयनको अवधारणा भित्र अध्ययन गरिएको छ। प्रस्ताव कार्यान्वयन गर्दा देहायका क्षेत्र लगायतका विकल्पहरुको विश्लेषण गरिएको छ।

- १. डिजाइन( design)
- २. आयोजना स्थान
- ३. प्रविधि, सञ्चालनको प्रक्रिया, समय तालिका
- ४. प्रयोग गरिने कच्चा पदार्थ
- प्र. वातावरणीय व्यवस्थापन योजना (FMP)
- ६. अन्य मामिलाहरू वा केही नगर्ने विकल्पहरू

#### परिच्छेद ७ः प्रस्ताव कार्यान्वयन गर्दा वातावरणमा पर्ने प्रभावहरू

#### १. सकारात्मक प्रभावहरू

- निर्माण चरणमा दैनिक ४८४ जनशक्ति वा २४२ (५०%) प्रत्येक दक्ष र अदक्ष जनशक्तिले दैनिक रूपमा अवसर पाउनेछन् ।
- स्थानीय रूपमा उपलब्ध उत्पादनको प्रयोग, प्राविधिक सीप अभिवृद्धिलाई प्राथमिकता दिएर स्थानीय जनताको आम्दानी वृद्धि गर्न सहयोग पुग्नेछ ।
- स्थानीयहरूलाई तालिमसँगै रोजगारीको अवसरहरू सृजना गरिनेछ ।
- सञ्चालनको चरणमा, रा.प्र.प्र.प्र.प्र.लाई आधुनिक र सबै खालको तालिमहरू संचालन गर्न आवश्यक पूर्वाधारहरूको उपलब्धता भई समग्र नेपाल प्रहरीको सीप र क्षमता अभिवृद्धि गर्न सहज हुने।
- स्थानीय बजार क्षेत्रको वृद्धि, वातावरणीय अवस्थामा सुधार, विरपरीका क्षेत्रका जग्गाको मूल्य वृद्धि हुने जस्ता सकारात्मक प्रभावहरू हुन सक्नेछन् ।

#### २. भौतिक वातावरणमा पर्ने प्रतिकूल प्रभावहरू

- माटो कटान र निर्माण कार्य गर्दा पुण्यमाता खोला र आयोजना क्षेत्रको पश्चिमी तल्लो भागको छेउछाउमा भूक्षय र पिहरोको जोखिमलाई बढाउन सक्नेछ।
- निर्माण जन्य फोहोरको अनियन्त्रित व्यवस्थापनले पुण्यमाता खोलामा प्रदुषणको मात्र बढाउन सक्नेछ।
- उत्खनन, बिग्रन ढुवानी र व्यवस्थापन तथा अन्य निर्माण सामग्री ढुवानी कार्यको लागी अत्यधिक सवारी साधनको संचालन गर्नुपर्ने हुँदा त्यस ऋममा उत्सर्जन हुने धुलो र सवारी र DG सेटबाट निस्कने COx, SOx र NOx जस्ता प्रदूषक ग्याँसहरू उत्सर्जन भई वायुको गुणस्तरमा ह्रास आउन सक्छ ।
- भारी मेसिनरीको प्रयोग र त्यसबाट उत्सर्जन हुने ध्विनले आयोजना क्षेत्रमा निजकै बसोबास गर्ने मानिसहरूलाई असर पुर्याउन सक्छ।
- प्रशोधन नगिरएको पानी सिधै जिमनको पानीमा र फोहोर पानी निजकैको पुण्यमाता खोला र कुवामा मिसाउँदा पानीको गुणस्तरमा ह्रास निम्त्याउन सक्छ ।
- सिसामा आधारित पेन्ट अवशेषहरू, रंग, घोलक, डिजेल र ग्रीज, भारी धातुहरू, ठोस फोहोर आदि खुल्ला जिमनमा छोड्दा सतहको माटो प्रदुषित हुन सक्छ।
- भूमिगत पानीको श्रोत अत्याधिक प्रयोग गर्नाले श्रोतमा ह्रास आउन सक्छ ।
- भण्डारण गरिएका निर्माण सामग्रीहरूहरूलाई उचित व्यवस्थापन नगरेमा नजिकैका पानीका स्रोतहरू प्रदूषित हुनेछन्।
- निर्माण र सञ्चालनको ऋममा उत्सर्जन हुने फोहोर (ठोस र तरल) को सिह व्यवस्थापन हुन् नसकेको खण्डमा दलिनचोक र पनौती क्षेत्र प्रदुषित हुन सक्छ ।

## ३. जैविक वातावरणमा पर्ने प्रतिकूल प्रभावहरू

- प्रस्तावित आयोजनाको लागी दलिन्चोक (ख) सामुदायिक वन क्षेत्रको ३.६ हेक्टर र राष्ट्रिय वन क्षेत्रको ३.१ हेक्टर गरी कूल ६.७ हेक्टर क्षेत्रफल आवश्यक पर्ने देखिन्छ ।
- प्रस्तावित आयोजनाको कार्यान्वयनबाट २९९ वटा रुखहरु काट्नुपर्ने हुन्छ ।
- आयोजना निर्माण तथा संचालन चरणमा निस्कासन हुने फोहोर जन्य पानी र ढल
   आदि निजकैको पुण्यमाता खोलामा प्रशोधन नगरी मिसाउन बन्देज गरिनेछ ।
- खुल्ला तथा प्रज्वलनशिल पदार्थका कारण हुन् सक्ने आगलागिका घटनाहरु बढ्न सक्छ ।

## ४. सामाजिक, आर्थिक र सांस्कृतिक वातावरणमा पर्ने प्रतिकूल प्रभावहरू

- प्रस्तावित आयोजनाको सिमानाभित्र अवस्थीत कुवावाट खानेपानीको प्रयोगमा असर, रा.प्र.प्र.प्र.ले अधिग्रहण गर्नुअघि प्रयोग गरिएको आन्तरिक पहुँच सडकको प्रयोगमा अवरुद्ध हुने, बनेपा-खोपासी सडक छेउमा रहेको आयोजनाको प्रवेशद्वार क्षेत्रमा हुने ट्राफिक जामहरू लगायतका प्रभावहरू प्रमुख सामाजिक समस्याहरू हुन्। अन्यमा, पुण्यमाता करिडोर सडकको स्तरोन्नति र विस्तार, खोला पारी रहेका मुक्तिनाथ मन्दिर र बिचारी पाटीको पुनर्निर्माण र शवदाह स्थलको संरक्षणमा पर्ने प्रभावहरू यस अन्तर्गत पर्दछन्।
- गोरखनाथ प्राथमिक विद्यालय र स्वास्थ्य चौकीसिहत १५ घरधुरीका लागी कुवाबाट भैरहेको खानेपानीको आपूर्ति प्रभावित हुनेछ।
- दिलन्चोक समुदायबाट आवतजावतको लागी पिहले सामुदायिक वन क्षेत्र भित्र प्रयोग गिरएको गोरेटो आयोजना संचालन पश्चात अवरुद्ध हुनेछ ।
- निर्माण चरणमा बालश्रमको प्रयोग र श्रमिक र समुदाय बिच द्वन्द्व बढ्न सक्नेछ।
- आयोजना क्षेत्र सँगैको पुन्यमता खोला पारि पट्टि रहेको मुक्तिनाथ मन्दिर, बिचारी पाटी
   र घाट स्थलहरू निर्माण कार्यको ऋममा प्रभावित हुन सक्नेछन् ।
- अपर्याप्त पार्किङ क्षेत्र र आयोजना स्थल (प्रस्तावित पुल क्षेत्र) को प्रवेश द्वारमा सवारी ट्राफिक जाम बढाउनेछ ।

## परिच्छेद दः प्रभाव न्यूनीकरण गर्ने उपायहरू

### १. भौतिक वातावरण

भौतिक वातावरण अन्तर्गत पहिचान भएका प्रतिकूल प्रभावहरूको न्यूनीकरणका लागी निम्न उपायहरू प्रस्ताव गरिएका छन्ः

- भू-स्खलन हुन सक्ने क्षेत्रमा बायोइन्जिनियरिङ प्रविधि अपनाउने, रुख रोप्ने र साथै उपयुक्त खुला ठाउँमा हरियाली कायम गरिनेछ ।
- माटोको उत्खननबाट उत्पन्न हुने माटोलाई पुनःप्रयोग वा आयोजनाको सीमाभित्र तोकिएको क्षेत्रमा व्यवस्थापन गर्नुपर्नेछ।
- निर्माण व्यवसायीले साइट क्लियरेन्स, र भवन निर्माण कार्यबाट उत्सर्जन हुन सक्ने धुलो र सँगै रहेको बनेपा-खोपासी सडक खण्डमा जोडिएको मूल प्रवेशद्वार लगायतका क्षेत्रमा दिनको कम्तिमा दुई पटक पानी स्प्रे गर्नुपर्नेछ, निर्माण सामग्री ढुवानी गर्दा त्रिपालले छोप्ने व्यवस्था गर्नुपर्नेछ ।
- निर्माणमा कार्यका लागी परिचालित श्रमिकलाई सम्भावित ध्विन प्रदुषणबाट हुने प्रभावलाई न्यूनीकरण गर्न कान मफलर उपलब्ध गराइनु पर्नेछ ।
- निर्माण कार्य स्थलहरूबाट उपयुक्त दूरीमा पर्याप्त शौचालय र सरसफाई सुविधाहरूको व्यवस्था सुनिश्चित गरिन् पर्नेछ ।
- कुवा र पुण्यमाता खोला क्षेत्र निषेध गरिनेछ ।
- ढल तथा फोहोर पानीको व्यवस्थापनको लागी निर्माण चरणमा सोक पिट प्रयोग गरिनेछ र सञ्चालन चरणमा सम्भावित कुल ३४५० व्यक्तिहरूबाट उत्पन्न हुने ढल र अन्य तरल फोहोरहरू प्रशोधन गर्न प्रति दिन ३५००० लिटर प्रशोधन गर्न MBBR प्रविधि जडान गरिनेछ ।
- भूमिगत पानी प्रयोग पश्चात पुनर्भरण गर्न रिचार्ज पिटहरू निर्माण गरिनेछ । यसको लागी कूल ३३८,१९६.०५ वर्गमिटर क्षेत्रफलमा बर्षातको पानी संकलन गर्ने रेन वाटर हार्वेस्टिङ सिस्टम (RWHS) को निर्माण गरिनेछ । त्यस क्षेत्रमा १२०० मिलिमिटर औषत वार्षिक वर्षाको तथ्यांक हेर्दा भूमिगत पानीको प्रयोग र पुनर्भरणको अनुपात १:२.०४५ का दरमा हुने अपेक्षा गरिएको छ।
- भण्डारण स्थलहरू खेती योग्य जिमन र वस्तीहरू, पिउने पानीका मुहानहरू, सार्वजिनक स्थानहरू, विद्यालय र स्वास्थ्य केन्द्रहरू र निजेकैको पुण्यमाता खोलाबाट टाढा व्यवस्थापन गर्नुपर्नेछ ।

#### २. जैविक वातावरण

जैविक वातावरण अन्तर्गत पहिचान भएका प्रतिकूल प्रभावहरूको न्यूनीकरणका लागी निम्न उपायहरू प्रस्ताव गरिएका छन्:

- आयोजना निर्माणको क्रममा काटिने २९९ वटा रुखहरुको १:१० को अनुपातमा २,९९० रुखहरु क्षतिपूर्ति स्वरुप र प्रयोग हुने ६.७ हेक्टर वन क्षेत्र प्रयोग गर्दा गर्नु पर्ने प्रति हेक्टर १६०० का दरले १०,७२० गरी १३,७१० बिरुवा वृक्षारोपण गरी ५ वर्ष सम्म संरक्षणका लागी देवीस्थान (ख) सा.वन र डिभिजन वन कार्यालय, खोपासीसँगको समन्वयमा प्रभावित देवीस्थान (ख) सामुदायिक वनको बाँझो क्षेत्र भित्र पुनःवृक्षारोपण गरिने छ ।
- आयोजना क्षेत्रका उपयुक्त खुल्ला क्षेत्रमा वातावरण मैत्री बनाउन बगैचा, हरियाली क्षेत्र निर्माण गरिनेछ ।
- सव डिभिजन वन कार्यालय, खोपासीको समन्वयमा देवस्थान(ख) सा.वनका उपभोक्ताहरूलाई वन व्यवस्थापन र वन स्रोतको विकल्प सम्बन्धिमा क्षमता विकास तालिमहरू उपलब्ध गराइनेछ ।
- अत्यधिक प्रज्वलनशील इन्धन र तेलको भण्डारण व्यवस्थित वातावरणमा उचित स्थानमा गर्नुपर्नेछ।
- अनपेक्षित रुपमा जङ्गलमा हुन सक्ने सम्भावित आगो जोखिमहरुबाट हुने क्षिति कम गर्न कम्तिमा ५० हजार लिटरको पानी भण्डारण सुनिश्चित गर्नुपर्नेछ ।
- पुन्यमाता खोलामा प्रशोधन नगिरएको फोहोर पानी मिसाउन कडाईका साथ निषेध गरिनेछ ।
- फुल्चोकीमा अवस्थित जैविक विविधता र बासस्थानमा अन्य कुनै पनि विशेष न्यूनीकरणका उपायहरू आवश्यक पर्ने देखिदैन किनिक यो अप्रत्यक्ष प्रभाव क्षेत्र भन्दा बाहिर अवस्थित रहेको छ।

## ३. सामाजिक, आर्थिक र सांस्कृतिक वातावरण

सामाजिक, आर्थिक र सांस्कृतिक वातावरण अन्तर्गत पहिचान भएका प्रतिकूल प्रभावहरूको न्यूनीकरणका लागी निम्न उपायहरू प्रस्ताव गरिएका छन्ः

- आयोजना कार्यान्वयनबाट कुनै पनि निजी सम्पत्ति र घरपरिवार प्रभावित हुने छैन।
- आयोजना प्रभावित समुदाय, स्थानीय विपन्न, सीमान्तकृत समूह र महिला लगायतका स्थानीयलाई निर्माण कार्यमा सहभागी हुन र काममा पहिलो प्राथमिकता दिन प्रोत्साहित गरिने सुनुश्चितता गर्नु पर्नेछ।
- आयोजना क्षेत्र भित्र रहेको कुवाको पानीको उपयोगमा पहुँच पुऱ्याउन रा.प्र.प्र.प्र. को कम्पाउन्ड बाहिर छुट्टै पानी भण्डारण ट्याङ्की निर्माण गरी वितरण गर्ने वातावरण मिलाइनु पर्नेछ।
- पनौती नगरपालिकासँग सम्बन्ध कायम गरी पालिकालाई निर्णय प्रिक्रयामा संलग्न गराई निर्माण कार्यमा संग्लग्न गराउनुपर्नेछ ।

- बालबालिकाहरूलाई काममा रोक लगाउन र निर्माण चरणमा महिलाका लागी समान अवसरहरू सुनिश्चित गर्न स्पष्ट र निष्पक्ष रोजगारी नीतिहरू अवलम्बन गरिन् पर्नेछ ।
- सामुदायिक स्तरका समस्याहरू समाधान गर्न उपभोक्ता प्रतिकार्य समिति (URC) को गठन गरी सिक्रिय बनाइन् पर्नेछ ।
- आयोजना क्षेत्रमा गित सीमा र निर्माण गितिविधि क्षेत्रसँग सम्बन्धित सुरक्षा साइन बोर्ड स्थापना गिरिनेछ।
- डाइभर्सन, सुरक्षित र सुविधाजनक लेन चिन्हहरू र पैदल यात्री ऋसिङहरू स्थापना गरिनेछ।
- आयोजना स्थलको छेउ पुण्यमाता खोलापारी रहेका मुक्तिनाथ मन्दिर, बिचारी पाटी र घाट स्थलको पुनर्स्थापना/संरक्षण गर्न सहयोग गरिनेछ ।
- पनौतीमा रा.प्र.प्र.प्र. स्थापना भएपछि त्यस क्षेत्रमा बढ्न सक्ने सवारी चाप न्यूनीकरण गर्न पुण्यमाता खोला करिडोर सडकको स्तरोन्नित गरी सम्भव भएसम्म फिडर रोड मापदण्डमा स्तरोन्नित गर्दा उपयुक्त हुनेछ ।
- पूर्व, दक्षिण र उत्तरमा हाल विद्यमान सडकलाई स्तरोन्नित गरी वन क्षेत्र भित्र पिहले
   प्रयोग गिरएको सार्वजिनक गोरेटो बाटो उपयुक्त विकल्पहरू हुनेछन् र यसलाई नै
   स्तरोंनिती गर्दा दिलनचोकबाट आवतजावत गर्न उपयुक्त र सहज हुने देखिन्छ।

#### परिच्छेद ९ः वातावरणीय व्यवस्थापन योजना

आयोजनाबाट सिर्जित हुने अवसरहरु स्थानीयले अधिकतम उपयोग गर्नलाई प्रोत्साहित गिरनेछ। आयोजना कार्यान्वयनबाट आर्थिक गितिविधि बढ्ने, सिर्जित रोजगारीमा स्थानियलाई प्राथमिकता, प्राविधिक शिप सिक्ने अवसर, सामुदायिक बिकास कार्यक्रम जस्ता अनुकुल प्रभावहरु बढाउनको लागी प्रस्तावकले यस प्रतिवेदनमा उल्लेख गिरएका सुझावहरु कार्यन्वयन गर्नेछ। यसैगिर प्रदुषण, भुक्षय, बाढी, बनस्पित क्षति, पर्यावरणमा देखिने परिवर्तन, जनसंख्यामा चाप, सवारी चाप, लगायतका प्रतिकुल प्रभाव न्यूनीकरण गर्न सरोकारवाला निकाय, स्थानीय तह, वडासँग समन्वय गिर अधि बढ्नेछ। प्रतिकुल प्रभाव न्यूनीकरण तथा अनुकुल प्रभाव बढोत्तरी कार्यका लागी कुल रु १९,७९५,००० लागत अनुमान गिरएको छ।

तालिका ८: प्रभाव न्यूनीकरण तथा अनुकुल प्रभाव बढोत्तरी कार्यका लागी अनुमानित लागत

ऋ.स	विवरण	मात्रा	रकम रु
٩	पुण्यमाता खोलाको तटबन्धन बायो- इन्जिनियरिङ	LS	३,५०,०००
२	निर्माणजन्य फोहर व्यवस्थापन	LS	५००,०००
n	वायु प्रदुषण व्यवस्थापन	LS	३,५०,०००
γ	ध्वनी प्रदुषण व्यवस्थापन	LS	9,000,000
ሂ	क्षति हुने रुखको बृक्षारोपण	LS	३,२९५,०००
Ę	बनको क्षति	LS	२,५००,०००
9	जंगलमा लाग्ने आगो व्यस्थापन	LS	२,००,०००
ζ	सचेतना तालिम (महिला, बालबालिका)	LS	٩,٥٥٥,٥٥٥
9	द्वन्द व्यस्थापन	LS	٩,٥٥٥,٥٥٥
90	पेशागत स्वास्थ सुरक्षा	LS	9,000,000
99	ट्राफिक सचेतना	LS	५००,०००
कुल		१९,७९५,०००	

प्रस्तावित आयोजना कार्यान्वयन बाट पर्न जाने अनुकुल प्रभाव अधिकतम अभिवृद्धि गर्ने तथा प्रतिकूल प्रभाव न्यून गर्न प्रस्तावकले आयोजना निर्माण तथा संचालान चरणमा विभिन्न उपयाहरु अवलम्बन गर्नेछ। वा.प्र.मु प्रतिवेदनमा आयोजना निर्माणले पार्ने सकारात्मक प्रभाव अभिवृद्धि तथा नकारात्मक प्रभाव कम गर्न विभिन्न नीतिहरु तर्जुमा गरिएको छ जुन प्रस्तावकले कार्यान्वयन गर्नु पर्नेछ ।

## ९.१ विपद् जोखिम व्यवस्थापन योजना (DRMP)

कुनै पनि अप्रत्याशित प्रकोपबाट बच्न रा.प्र.प्र.प्र.ले नेपालको राष्ट्रिय भवन संहिता (NBC) र उत्कृष्ट अभ्यासहरूको अन्तर्राष्ट्रिय मापदण्ड (IS) लाई पूर्ण रूपमा अवलम्बन गर्नेछ। आपतकालीन घोषणाका लागी उचित सुरक्षा प्रणाली, अलार्म र Public Announcement प्रणाली, आपतकालीन तयारीका लागी लिफ्ट र आवश्यक उचित आकस्मिक निकास सबै भवन संरचना भित्र अपनाइनेछ। आयोजना निर्माण तथा संचालन चरणमा घट्न सक्ने घटना, देखा पर्न सक्ने प्राकृतिक प्रकोप रोक्नको लागि, सूचीबद्ध कार्यहरू सञ्चालन गरिनेछः

- आकस्मिक तयारीको बारेमा योग्यतामा आधारित तालिम कार्यक्रमहरू सबै कर्मचारीहरूलाई दिइनेछ, र सबै कामदारहरू परिचित छन् र आपतकालीन व्यवस्थापन प्रक्रियाहरूसँग सक्षम भएको मानिनेछ।
- आगो, चिकित्सा, र उद्धार उपकरणहरू समावेश गरि Emergency Response क्षमता लाई चुस्त दुरुस्त राखीनेछ।
- राष्ट्रिय विपद् जोखिम न्यूनीकरणका नीति २०१८ लाई विधिवत रूपमा अपनाई व्यक्तिको जीवन र सम्पत्ति, स्वास्थ्य, जीविकोपार्जन र उत्पादनका साधन, भौतिक तथा सामाजिक पूर्वाधार, सांस्कृतिक र वातावरणीय सम्पदामा हुने क्षतिलाई पर्याप्त रूपमा घटाइने छ।

## ९.२ ट्राफिक व्यवस्थापन योजना (<sub>TMP</sub>)

प्रस्तावित आयोजना कार्यान्वयनबाट त्यस क्षेत्रमा ट्राफिक चाप बढ्नेछ।यस बाट पर्न सक्ने प्रभावलाई कम गर्न ट्राफिक व्यवस्थापन योजना (TMP) निर्माण व्यवसायीद्वारा तयार गरिनेछ र निर्माण चरणको प्रारम्भिक चरणमा रा.प्र.प्र.प्र.बाट स्वीकृत हुनेछ। यस योजनाको मुख्य उद्देश्य यातायात प्रणाली व्यवस्थापनका समस्याहरूलाई व्यापक रूपमा सम्बोधन गर्नु र सुरक्षित यातायात सञ्चालन गराउनु हुनेछ।

# ९.३ गुनासो निवारण संयन्त्र (GRM)

आयोजना निर्माण तथा संचालन चरणमा देखा पर्न सक्ने गुनासा तथा समस्याहरु निराकरण गर्न गुनासो निवारण संयन्त्र निर्माण गरिनेछ। आयोजना व्यवस्थापन इकाई (पीएमयू) बाट प्रहरी निरीक्षक (PI) को नेतृत्वमा गुनासो निवारण समिति गठन गर्नेछ। व्यक्ति वा अन्य सरोकारवालाहरूले रा.प्र.प्र.प्र. को कार्यालय वा गुनासो बक्समा आफ्नो गुनासो गर्न सक्छन्। PI ले आफ्ना कर्मचारीहरू मार्फत मुद्दाहरू प्रमाणित गर्दछ र कार्यालयमा गुनासो दर्ता भएको ७ दिन भित्र आफ्नो निर्णय सुनाउनु पर्नेछ। यदि समस्या समाधान भयो भने, प्रक्रिया समाप्त भएको मानिनेछ । सन्तोषजनक रूपमा समस्या समाधान नभएमा, गुनासो NPA को वरिष्ठ व्यवस्थापन समिति (SMC) लाई पठाइनेछ।

## परिच्छेद १०ः वातावरणीय अनुगमन योजना

वा.सं.नि. २०७७ का अनुसार अनुसार, वातावरणीय अनुगमन आवश्यक छ। आयोजनाको भौतिक, जैविक, सामाजिक आर्थिक, र सांस्कृतिक परिणामहरूको मूल्याङ्कन गर्ने उद्देश्यका लागि, प्रस्तावकले प्रारम्भिक अवस्थाको अनुगमन (Baseline Monitoring), प्रभाव अनुगमन (Impact Monitoring), नियमपालन अनुगमन (Compliance Monitoring) पूर्ण अनुगमन योजना बनाउनेछ। प्रस्तावक उद्देश्य-आधारित अनुगमन प्रणाली लागू गर्न प्रतिबद्ध छ जसले प्रतिवेदनमा सिफारिस गरिएका न्यूनीकरणका उपायहरू सही रूपमा कार्यान्वयन भइरहेको छ वा छैन भनी अवलोकन गर्न अनुमति दिनेछ। अनुगमन उद्देश्यका लागी आधारभूत, अनुपालन, र प्रभाव अनुगमन सबै गरिन्छ। EIA प्रतिवेदनमा वातावरणीय अनुगमनको लागी अनुमानित लागत रू ५४,३०७,००० प्रस्ताव गरिएको छ । प्रस्तावकले निर्माण र सञ्चालन चरणमा प्रत्येक छ महिनामा स्वयम् अनुगमन गरी सम्बन्धित निकायमा प्रतिवेदन पेश गर्नेछ।

#### १०.१ आयोजना कार्यान्वयनमा सरोकारवालाको निकाय

तर्जुमा गरिएको वातावरणीय व्यवस्थापन र अनुगमन योजनालाई प्रभावकारी ढंगले कार्यान्वयन गर्नको लागी उचित संगठनात्मक संरचना निर्माण गर्न आवश्यक छ। वातावरणीय न्यूनीकरण उपायहरूको कार्यान्वयनका लागी EMP मा प्रस्ताव गरिएको बजेट आवश्यक पर्दछ। आयोजना कार्यन्वयनमा तपशिलका निकायहरूको प्रमुख भूमिका तथा संलग्नता रहन्छ।

- 9. वातावरणीय निकायः वन तथा वातावरण मन्त्रालय (MoFE)
- २. जिम्मेवार निकायः गृह मन्त्रालय (MoHA)
- ३. कार्यान्वयन गर्ने निकायः राष्ट्रिय प्रहरी प्रशिक्षण प्रतिष्ठान (NPA)
- ४. डिभिजन वन कार्यालय (DFO)
- ५. दातृ निकायः भारत सरकार (Gol)
- ६. स्थानीय सरकारः पनौती नगरपालिका
- ७. NPA अन्तर्गत आयोजना व्यवस्थापन इकाई (PMU)
- द्र. निर्माण सुपरिवेक्षण परामर्शदाता (csc)
- **९.** आयोजना व्यवस्थापन परामर्शदाता (PMC)
- **१०.** वातावरणीय परामर्शदाता (EC)
- 99. आयोजना निर्माण निर्माण व्यवसायी निर्माण कम्पनी (PCC)

# 90.२ वातावरणीय व्यवस्थापन योजना तथा अनुगमनका लागी आवश्यक अनुमानित लागत वातावरणीय अध्ययन प्रतिवेदनले सुझाइएका उपायहरूको कार्यान्वयनका लागी अनुमानित लागत तालिका ख मा उल्लेख गरिएको छ। यस कार्य अन्तर्गत क्षति भएका रुख

विरुवाहरुको क्षतिपूर्ति स्वरुपको वृक्षारोपण र ५ वर्ष सम्मको व्यवस्थापन खर्च, प्रभावित हुने सार्वजनिक सम्पत्तिको प्रभाव न्यूनीकरण तथा सामाजिक सहयोग कार्यक्रम अन्तर्गत क्षमता अभिवृद्धि लगायत रहेका छन् ।

तालिका ९: वातावरणीय व्यवस्थापन योजना तथा अनुगमनका लागी आवश्यक अनुमानित लागत

ऋ.सं.	विवरण	रकम (ने.रु.)
	नकरात्मक प्रभाव न्यूनीकरण (क्षतिपूर्ति स्वरुपको बृक्षारोपण	१९,७९५,०००
	सहित) लागत	
	आनुमानित वातावरणीय अनुगमन लागत	५४,३०७,०००
	वातावरणीय परिक्षण लागत	२,९६५,०००
कुल वातावरणीय व्यवस्थापन लागत		७७,०६७,०००

#### परिच्छेद ११: निष्कर्ष र प्रतिबद्धता

प्रस्तावक भौतिक, रासायनिक, जैविक, सामाजिक, र सांस्कृतिक घटकहरू सिहत सबै वातावरणीय कारकहरूमा आयोजनाको प्रभावहरूलाई कम गर्न प्रतिवद्ध रहेको छ। आयोजना कार्यान्वयनबाट नेपाल प्रहरीका अतिरिक्त विभिन्न प्रकारका फाइदाहरू प्रदान गर्दछ जस्तै रोजगारीको अवसर, सीप विकास, र सामुदायिक बिकास कार्यक्रम, आदि। प्रस्तावकले वातावरणीय सवालहरूको कार्यान्वयनका लागी कुल रु. १,९७,९५,०००, रु. ५४,३०,७००० अनुगमन कार्यका लागी र रु. २९,६५,००० वातावरणीय परिक्षणका लागी गरि कुल रू. ७७,०६,७००० (कुल आयोजनाको ०.८७६%) वातावरणीय व्यवस्थापन योजनाको कार्यान्वयनका लागी प्रस्ताव गरिएको छ।

#### प्रतिवद्दता

- वा.प्रा.मु. अध्ययन प्रतिवेदनका निष्कर्षहरूलाई आयोजना कार्यान्वयन गर्दा दिशानिर्देशको रूपमा प्रयोग गरिनेछ। निर्माण र सञ्चालन चरणमा EMPको पूर्ण रूपमा पालना गरिनेछ।
- प्रस्तावको निर्माण र सञ्चालनको चरणमा, यसले वातावरणीय समस्याहरूसँग सम्बन्धित विद्यमान नीति र कानून र मापदण्डहरूको अनुपालनमा प्रतिवेदनमा उल्लिखित वातावरण संरक्षण उपायहरू अवलम्बन गर्ने प्रतिबद्धताका साथ गुणस्तरीय सेवा प्रदान गर्नेछ।
- नियमित मूल्याङ्कन र अनुगमनका लागी PMU अन्तर्गत छुट्टै वातावरण अनुगमन कर्मचारीहरू (आंशिक वा पूर्ण अवधि) खटाइनेछ।
- EPA 2019 र EPR 2020 अनुसार वातावरणीय लेखापरीक्षण गरिनेछ।

# **APPENDIX 21:** PHOTOGRAPHS RELEVANT TO THE FIELD



Image 1: Briefing about Land Plot from NPA to Stakeholders at Project Site



Image 2: Study Team During Consultation Meeting at Ward no. 6, Dalinchowk



Image 3: Stakeholders during Consultation Meeting at Panauti Municipality Office



Image 4: Women Participants at the Time of FGD Meeting



Image 5: Proposed Labor Camp Site



Image 6: Stakeholders in Joint Observation of Kuwa within the Project Boundary



Image 7: Field Visit from NPA and Study Team at Project Site



Image 8: Northern View of Project Site



Image 9: Study Team during Consultation Meeting and KII, Dalinchowk



Image 10: Forest Stand of Dalinchowk (Kha) Community Forest



Image 11: Study Team and Stakeholders during Public Hearing Program, Dalinchowk



Image 12: Dhunge Dhara (Kuwa) within the Premises of Project Boundary