Environmental and Social Management Plan (ESMP)

Nepal Urban Governance and Infrastructure Project (NUGIP)

Upgradation of Parasar Marga (Buldikhola-Beltari-Farakchaur-Adheri Bhyanjang-Pokharelfat-Kumalgaun-Samata School Kalesti Road) Length:10.55KM

> Vyas Municipality Office of Municipal Executive Damauli, Tanahu

> > March 2024

EXECUTIVE SUMMARY

Introduction

The upgrading of 10.55km long Parasar marga (Buldikhola Beltari Farakchaur Adheri Bhyanjang Pokharelfat Kumalgaun Samata School Kalesti Road) alignment starts at Buldi khola (ch 0+000, Ghasikuwa of Prithivi Highway), passes through Beltari (ch 2+510) Farakchaur (ch 4+360) Adheri Bhyanjang (ch 7+800) Pokharelfat (ch 8+370) Kumalgaun (ch 9+100) and ends at Kalesti/Narang (ch 10+550). The road under the subproject passes through wards 7, 9, 10 and 11 of Vyas Municipality. Its starting point coordinates are Easting 234900.188 m, Northing 2949266.006 m and elevation 383.052 m, end point coordinates are Easting 230664.752 m, Northing 3103807.371 m and elevation 429.084 m. The subproject is expected to contribute towards the municipal capacity for urban development planning, infrastructure development and institutional development of the municipality.

Baseline Information

The subproject is located in hill area at the altitude of minimum 280 m and 1220m at the height of the level from the sea level. The minimum temperature from 8.40 Celsius to maximum 37.00 Celsius as well as the annual rainfall of 1960.6 mm and annual temperature 22.7 Celsius. The road alignment passes enclosed by the Buldi khola at chainage 0+008, Shivalaya khola (Buldi-2) at chainage 2+125 and Kalesti khola at chainage 8+380. The proposed road alignment lie in the Gangetic Plain. The alluvial river deposit is the most predominant along the road alignment. Most of the area of present land use of Vyas Municipality includes forest 50.87%, cultivated land 38.92%, bush 4.24%, water bodies 1.17%, sandy land 1.05%, barren land 0.97% and built-up area 2.78%. The air and noise quality of surrounding areas is affected by the local city vehicles. The Noise and air of project area were within government Standards. During the construction of the road, vehicular circulation along the road is likely to be disturbed. Sissoo (*Dalbergia Sissoo*), Aanp (*Magnifera indica*), Pipal (*Ficus religiosa*), Bakaino (*Melia azadirach*), Epil (*Leucaena leucocephala*), Kutmero (*Litsea polyantha*) are the major tree species found in the project area.

The total population of Vyas Municipality is 78,939 and total household is 22,585. The average household size of the municipality is 3.50 which is lower than that of district household size (3.63). The sex ratio of the municipality is 84.51 and literacy ratio is 85.28 (91.61 Male & 80.04 female). The total population and household of project affected wards (ward 7, 9, 10 and 11) is 19915 and 5626 respectively. The average household size of the project wards is 3.49. Total male population of the project wards is 9175 and total female population of the project wards is 10740. The sex ratio of the project wards is 84.47. The project area is inhabited by Magar, Brahmin, Chhetri, Gurung, Newar, Bote, Bishwokarma, Darai, Mijar, Thakuri, Pariyar, Musalman, Kumal, Gharti/Bhujel, Tamang and Dura. And in terms of religion, Hindus. Muslims, Christians, Sikhs reside in these communities. There is presence of mixed groups of castes and ethnicities in the project area. The indigenous peoples in project area are Kumal, Gurung, Bhujel, Tamang, Darai, Dura, Bote, Magar and Newar. The total households along the road alignment is 169 with total population 590 having 212 male population and 318 female population. The majority of the people of this area are mainly involved in agriculturally based work, labor work, and foreign employment for livelihood. There is water supply pipelines of Poland lift DWS committee (Ward-11), Ranipani DWS (Ward-11), Sundari Gorha Lift DWSS (Ward-10), Pharakchaur Matepani deep boring water supply and sanitation user committee (Ward-11), Bifre DWSS (ward-6) presence along the alignment but no integrated wastewater disposal system in the municipality.

Legal and Regulatory Requirements

The sectoral and cross-sectoral guidelines and standards promulgated by the Government of Nepal (GoN) in various periods are adequate to mainstream the environmental and social safeguard dimensions in the project preparation and implementation phases. The report has included the applicable GoN plan, policies, act, regulations, guidelines, and standards. Similarly, the report has also included the environmental and social Safeguard requirements of the World Bank.

Screening, Scoping, Impact identification, Prediction and Management

The Direct Impact area of the project is considered as the 12.19m (40Ft.) RoW of the subproject for the entire 10.55km length of the road. Similarly, the indirect impact falls within 50 meters from the edge of the RoW. Environmental and social checklists were used for screening and summarizing the overall impacts. The site-specific impacts in construction and operation phases are included in the ESMP report. Some of the impacts include:

Beneficial Impacts from the Project Implementation

This sub project have beneficial impacts from the project in the construction phase, some of them are

- **Employment Opportunities**: This sub project create job opportunities for local residents. By prioritizing employment for the poor, ethnic minorities, and disadvantaged individuals, these projects contribute to economic empowerment within the community.
- Local Business Enhancement: The influx of construction activities stimulates local businesses. Suppliers, contractors, and service providers benefit from increased demand, leading to economic growth and sustainable development.
- **Improved Accessibility:** This sub project involve in development of road. The improvements enhance accessibility to market centers, healthcare facilities, and educational institutions, making life easier for local residents.
- **Skill Development**: Local people actively participating in construction gain valuable skills and experience. These skills contribute to their personal growth and employability.

Construction practices not only benefit the environment but also have a positive impact on local economies, social conditions, and individual skill development of local people. Once the proposed road is in operation, it will offer comfortable and quick access to markets and to get social services. Increased access and transportation opportunities will improve the quality of life of the people of the area. Moreover this will promote the small agro based industries that uses local resources. Easy access and opportunity of better transportation system will develop education, health, market, tourism, bank and other socio-economic sectors. The better land network will increase land values that will be beneficial to local people.

Adverse Impacts from the Project Implementation

The cutting of slopes and disposal of soil and earth material might result in erosion and landslide during construction and operation phase. The influx of construction worker can put pressure on the social services and basic services of the project area.

During operation phase, vehicular movement, flowing water on the side drain of the road might cause erosion of soil on adjacent agricultural land. Likewise, improved access road will increase possibility of extraction of firewood and timber of nearby forest. The operation of this road may result in expansion of settlement area and market which may increase encroachment of RoW.

Mitigation Measures

The various benefit augmentation measures and adverse impact mitigation measures have been proposed in the report to make this project environment friendly. Local people will be given priority for employment opportunities. Necessary measures will be taken to reduce the adverse effects on environment. At construction site as well as labour camp site, the workers will be insured and provided with, first aid facilities and safety equipments. For plantation, local species of plant will be given priority. Appropriate bio/civil engineering structues will be adopted to protect the environment and to stabilize the slopes along the road as were applicable. Proper drainage system will be provided to prevent accumulation of water on the nearby agricultural lands during operation. Adequate road safety measures like information and warning signs will be estiblished to minimize road accident.

Sexual exploitation/Assault/Harassment Prevention and response Action Plan

Based on the SEA/SH Risk Assessment checklist and assessment carried out for NUGIP by the World Bank, the Project's SEA/SH risks are assessed to be "Low". An SEA/SH Risk Mitigation Action Plan has been developed for NUGIP based on this assessment and includes specific measures that aim to prevent and mitigate GBV, in particular SEA/SH risks that the project activities might trigger. The Plan has also addressed "Table – 1: Recommended actions to address SEA/SH Risks in IPF Projects" as per the "Good Practice Note" published by the World Bank in September 2018.

There are few issues related to the GBV, SEA/SH were identified from field survey and records of nearby District Police Office. Necessary mitigation programs have been planned and will implement during construction of sub project. The most prioritized issues on violence are Domestic violence (physical, mental, financial abuse) and Rape/Sexual violence.

Environment and Social Management Plan

The Environmental and Social Management Plan (ESMP) has been proposed with this report including issues identified, possible effects and impacts, measures for their mitigation, monitoring methods. The mitigation cost for environmental and social impacts in construction and operation phases are included in report. In addition, agencies responsible for executing environmental mitigation measures and monitoring have been identified in the ESMP. Different monitoring indicators on the physical, biological, socio-economic and cultural environment have also been identified. The project along with the stakeholders will monitor during reconstruction and operation phase. Project-related grievances will be addressed through grievance redress mechanism (GRM) established for the project for the uptake and timely response on stakeholders' query and concerns.

Institutional arrangements

The Ministry of Urban Development (MoUD) has set up a Project Coordination Office (PCO) under the Department of Urban Development and Building Construction (DuDBC) to implement NUGIP. The PCO is responsible for overall project compliance including compliance with environmental and social measures. The PCO will be supported by a Project Management Support Team (PMST). A Project Implementation Unit (PIU) will be established in Vyas Municipality for implementation of the subproject at the local level and will be responsible for implementation of the ESMP and other environmental and social instruments. Technical Assistance will be provided through a Design and Supervision Consultancy (DSC) which includes safeguards specialists.

कार्यकारी सारांश

परिचयः

ब्यास नगरपालिकाको १०.५५ कि.मी. लम्बाइको परासर मार्ग (बुल्दिखोला, बेलटारि, फराकचौर, अधेरिभञ्ज्याड, पोखरेलफाँट, कुमालगाउँ, समता स्कुल, कलेस्ती सडक) सडकको स्तरोन्नती कार्य पृथ्वी राजमार्गको घाँसिकुवा-बुल्दिखोला (चेनेज ०+००० मि. र पूर्वान्तर २३४९००.१८८मी. उत्तरान्तर २९४९२६६.००६ मी., उचाई ३८३.०५२ मि.) वाट सुरु भएर बेल्टारि (चेनेज २+५१० मि.), फराकचौर (चेनेज ४+३६० मि.), अधेरिभञ्ज्याङ (चेनेज ७+८०० मि.), पोखरेलफाँट (चेनेज ८+३७० मि.), कुमालगाउँ (चेनेज ९+१०० मि.) हुदै कलेस्ती (चेनेज १०+५५० मि. र पूर्वान्तर २३०६६४.७५२ मि. उत्तरान्तर ३१०३८०७.३७१ मि., उचाई ४२९.०८४ मि.) मा समाप्त हुन्छ । यो सडक ब्यास नगरपालिकाको बडा न. ७,९,१० र ११ हुदै जान्छ । यस आयोजनाको बाटोको वरिपरिका वस्तीका स्थानीयहरुको जिवनस्तर र जीविकोपार्जनमा सुधार ल्याउनेछ। यस उपआयोजनाले नगरपालिकाको शहरी विकास योजना, पुर्वाधार बिकास र संस्थागत विकासमा नगरपालिकाको क्षमतामा सहयोग पुर्याउने अपेक्षा गरिएको छ।

विद्यमान अवस्था:

पहाडी क्षेत्रमा अवस्थित उपआयोजना क्षेत्रको उचाई समुद्री सतहबाट २८० मी. देखी १२२० मी. रहेको छ। आयोजना क्षेत्रको नगरपालिकाको औसत तापक्रम २२.७ ° सेल्सियस (अधिकतम ३७.० ° सेल्सियस र न्युनतम ८.०४ ° सेल्सियस) रहेको छ । ब्यास नगरपालिकामा औसत १९६०.६० मिलिमिटर वर्षा हुन्छ । यो सडकको चैनेज ०+००८ मा बुल्दी खोला, चैनेज २+१२५ मा शिवालय खोला (बुल्दी–२) र चेनेज ८+३८० मा कालेस्ती खोला भइर जान्छ। व्यास नगरपालिकाको हालको भूउपयोगको अधिकांश क्षेत्रफल वन ५०.८७%, खेतीयोग्य जमिन ३८.९२%, झाडी ४.२४%, जलस्रोत १.१७%, बलौटे जमिन १.०५%, बाँझो जमीन ०.९७% र निर्मित क्षेत्र २.७८% रहेको छ। आयोजना क्षेत्रको हावामा स्थानिय सवारी साधनवाट असर पर्ने र उक्त सवारीसाधन वाट ध्वनिमा असर पर्ने भएपनि ध्वनि गुणस्तर सीमा भित्रनै पाइएको छ । परियोजना क्षेत्रको आवाज र हावा सरकारी मापदण्ड भित्र रहेको पाइएको छ । सडक निर्माणको क्रममा सो सडकमा सवारी साधनको आवागमनमा बाधा पुग्ने सम्भावना रहन्छ । सिसौ, आप, पिपल, बकाइनो, इपिल, कुटमेरो परियोजना क्षेत्रमा पाइने प्रमुख रूख प्रजातिहरू हुन्।

व्यास नगरपालिकाको कुल जनसङ्ख्या ७८,९३९ रहेको छ भने कुल घरधुरी २२,५८५ रहेको छ। नगरपालिकाको औसत घरधुरी को आकार ३.५० छ जुन जिल्लाको परिवारको आकार (३.६३) भन्दा कम छ। यस नगरपालिकाको लिंग अनुपात ८४.५१ र साक्षरता अनुपात ८५.२८ (९१.६१ पुरुष र ८०.०४ महिला) रहेको छ । आयोजना प्रभावित वडा (वडा नं ७, ९, १० र ११) को कूल जनसङ्ख्या र घरधुरी क्रमशः १९९१५ र ५६२६ रहेको छ । परियोजना वार्डहरूको औसत घरको आकार ३.४९ रहेको छ। आयोजना प्रभावित वडाहरूको कुल पुरुष जनसंख्या ९१७५ र महिला जनसंख्या १०७४० रहेको छ। आयोजनाको वडाको लिंगअनुपात ८४.४७ रहेको छ। आयोजना क्षेत्रमा मगर, ब्राह्मण, क्षेत्री, गुरुङ, नेवार, बोटे, विश्वकर्मा, दराई, मिजार, ठकुरी, परियार, मुसलमान, कुमाल, घर्ती, भुजेल, तामाङ र दुराको बसोबास छ। धर्मको हिसाबले हिन्दू, मुस्लिम, इसाई, सिखको बसोबास छ। परियोजना क्षेत्रमा जातजातिको मिश्रित समूहको उपस्थिति रहेको छ। यस सडकखण्डमा १६९ घरधुरी रहेका छन् भने कुल जनसङ्ख्या ५९० मध्ये २१२ पुरुष र ३१८ महिला रहेका छन्। यस क्षेत्रका अधिकांश मानिसहरू मुख्यतया जीविकोपार्जनका लागि कृषिमा आधारित काम, पशुपालन, व्यापार, श्रमिक र वैदेशिक रोजगारीमा संलग्न छन्।

iv

पोल्यान्ड लिफ्ट खानेपानी समिति (वडा नं ११), रानीपानी खानेपानी (वडा नं ११), सुन्दरी गोरहा लिफ्ट खानेपानी (वडा नं १०), फराकचौर माटेपानी डिप बोरिङ खानेपानी तथा सरसफाइ उपभोक्ता समिति (वडा नं ११), बिफ्रे खानेपानी (वडा नं ६) को खानेपानी पाइपलाइन एलाइनमेन्टसँगै रहेकोछ तर यस क्षेत्रमा एकीकृत फोहर मैला व्यवस्थापन प्रणाली छैन ।

यौन शोसण तथा दुर्व्यवहार, लैङ्गिक हिंसा सम्बन्धित केही विषयहरू फिल्ड सर्भे र नजिकैको जिल्ला प्रहरी कार्यालयको रेकर्डबाट पहिचान गरिएको छ। घरेलु हिंसा (शारीरिक, मानसिक, आर्थिक दुव्र्यवहार) र बलात्कार/यौन हिंसा आयोजना प्रभावित क्षेत्रमा बिध्यमान रहेको छ।

ऐन तथा नीति, नियमको आवश्यकता

नेपाल सरकारले विभिन्न समयमा जारी गरेका विषयगत तथा बहुविषयगत निर्देशिका तथा मापदण्डहरू आयोजना तयार गर्न तथा कार्यान्वयन चरणहरुमा वातावरणीय एवम् सामाजिक सुरक्षण आयामहरु मूल प्रवाहीकरण गर्न यथेष्ठ छन् । यस प्रतिवेदनले सम्बन्धित नेपाल सरकारका योजना, निति, ऐन, नियम, निर्देशिका एवम् मापदण्डहरु समेटेको छ । त्यसैगरी यस प्रतिवेदनले विश्व बैङ्कको वातावरणीय तथा सामाजिक मापदण्डहरु पनि समेटेको छ।

वर्गीकरण, क्षेत्र निर्धारण, प्रभाव पहिचान, अनुगमन र व्यवस्थापन

परियोजनाको प्रत्यक्ष प्रभाव क्षेत्र सडकको सम्पूर्ण १०.५५ किलोमिटर लम्बाइको लागि उप आयोजनाको सडकको क्षेत्राधिकार १२.१९ मिटर (४० फिट) रहेछ। त्यस्तै, अप्रत्यक्ष प्रभाव सडकको क्षेत्राधिकार किनाराबाट ५० मिटरभित्र पर्छ। प्रभावहरुको वर्गीकरण तथा संक्षेपीकरण गर्न वातावरणीय तथा सामाजिक चेकलिष्ट प्रयोग गरिएको छ । स्थान विशेषको प्रभावहरु वातावरणीय तथा सामाजिक प्रभाव मूल्याङ्कन मा समावेश गरिएका छन् । केही प्रभावहरु निम्नानुसार छन्।

उप आयोजना कार्यान्वयनबाट पर्ने सकरात्मक प्रभाव

यस उप आयोजनाले निर्माण चरणमा लाभकारी प्रभावहरू छन्, तीमध्ये केही निम्न हुन्

रोजगारीका अवसरहरूः यो उप आयोजनाले स्थानीय बासिन्दाहरूको लागि रोजगारीको अवसर सिर्जना गर्दछ। गरिब, जातीय अल्पसङ्ख्यक र पिछडिएका व्यक्तिहरूका लागि रोजगारीलाई प्राथमिकता दिएर आर्थिक सशक्तीकरणमा योगदान पूर्ज्याउँछन्।

स्थानीय व्यवसाय वृद्धिः निर्माण गतिविधिहरूको प्रवाहले स्थानीय व्यवसायिहरूलाई उत्प्रेरित गर्दछ। आपूर्तिकर्ताहरू, ठेकेदारहरू र सेवा प्रदायकहरूले बढ्दो मागबाट लाभ उठाउँछन्, जसले आर्थिक वृद्धि र दिगो विकासको नेतृत्व गर्दछ।

सुधारिएको पहुँचः यस उप आयोजनाले सडक को विकास तथा सुधारहरू गर्दछ जसले गर्दा बजार केन्द्रहरू, स्वास्थ्य सुविधाहरू र शैक्षिक संस्थाहरूमा पहुँच बढाउँदछ ।

सीप विकासः निर्माणमा सक्रिय रूपमा भाग लिने स्थानीय व्यक्तिहरूले बहुमूल्य सीप र अनुभव प्राप्त गर्छन्। यी सीपहरूले उनीहरूको व्यक्तिगत विकास र रोजगारमा योगदान पुर्ज्याउँछन्।

प्रस्तावित सडक सञ्चालनमा आएपछि यसले बजारसम्म सहज र छिटो पहुँच प्रदान गर्नुका साथै सामाजिक सेवा प्रदान गर्नेछ । बढ्दो पहुँच र यातायातका अवसरहरूले यस क्षेत्रका मानिसहरूको जीवनको गुणस्तर सुधार गर्नेछ। यसबाहेक यसले स्थानीय स्रोत साधनको प्रयोग गर्ने साना कृषिमा आधारित उद्योगहरूलाई प्रोत्साहन गर्नेछ । राम्रो यातायात प्रणालीको सहज पहुँच र अवसरले शिक्षा, स्वास्थ्य, बजार, पर्यटन, बैंक र अन्य सामाजिक-आर्थिक क्षेत्रहरूको विकास गर्नेछ। सडकको राम्रो संञ्चालनले स्थानीय जमिनको मूल्य बढाउनेछ जुन स्थानीय मानिसहरूका लागि फाइदाजनक हुनेछ।

उप आयोजना कार्यान्वयनबाट पर्नसक्ने नकरात्मक प्रभावहरु

सडक निर्माणको क्रममा भीरहरु काट्ने र सडक खन्दा निस्केको माटोले भिरालो ठाउँहरुमा कटान र पहिरो को सम्भावना रहन्छ। निर्माण कर्मीहरूको आगमनले परियोजना क्षेत्रको सामाजिक सेवा र आधारभूत सेवाहरूमा दबाब दिन सक्छ। सडक संञ्चालनको चरणमा सवारी आवागमन, सडकको छेउछाउको नालीमा बगेको पानीले छेउछाउको खेतीयोग्य जमिनमा माटो कटान हुन सक्छ । त्यस्तै, सुधारिएको सडक मार्गले नजिकैको जङ्गलको दाउरा र काठ निकाल्ने सम्भावना बढ्नेछ ।त्यस्तै गरी सवारी साधनको बृद्दिले धुलो, धुँवा तता केही मात्रामा ध्वनी प्रदुषण बढ्न सक्छ। यो सडक सञ्चालनमा आएपछि बस्ती क्षेत्र र बजार को विस्तार हुन सक्छ जसले सडकको क्षेत्राधिकारको अतिक्रमण बढाउन सक्छ।

प्रभाव न्यूनीकरणका उपायहरु

यस उप आयोजनालाई वातावरणमैत्री बनाउन सकारात्मक प्रभावका उपायहरू र प्रतिकूल प्रभाव न्यूनीकरणका उपायहरू प्रतिवेदनमा प्रस्ताव गरिएको छ। रोजगारीका अवसरका लागि स्थानीय जनतालाई प्राथमिकता दिइनेछ। वातावरणमा पर्ने प्रतिकूल प्रभावलाई न्यूनीकरण गर्न आवश्यक कदम चालिनेछ। निर्माणस्थल र श्रम शिविर स्थलमा श्रमिकको बीमा गरी प्राथमिक उपचार सुविधा र सुरक्षा उपकरण उपलब्ध गराइनेछ। वृक्षारोपणका लागि स्थानीय जातका बिरुवालाई प्राथमिकता दिइनेछ। वातावरण संरक्षण गर्न र सडकको छेउछाउका क्षेत्रहरूलाई यथास्थितिमा राख्न उपयुक्त बायो/सिभिल इन्जिनियरिङ संरचनाहरू प्रस्ताव गरिएको छ। सञ्चालनका क्रममा नजिकैको खेतीयोग्य जमिनमा पानी जम्न नदिन नालीको पानी निकासको उचित व्यवस्था मिलाइनेछ। सडक दुर्घटना न्यूनीकरणका लागि सूचना र चेतावनी सङ्केतजस्ता पर्याप्त सडक सुरक्षाका उपायहरू अवलम्बन गरिनेछ।

यौन शोसण तथा दुर्वेसन एवम् दुर्व्यवहार रोकथाम तथा सम्बोधन कार्य योजना; विश्व बैङ्कले नेपाल शहरी शासकीय तथा पूर्वाधार उपआयोजनाको लागि गरिएको यौनिक शोषण, दुर्वेसन एवम् यौन दुर्व्यवहार जोखिम मूल्याङ्कनमा आधारमा यस आयोजनाको SEA/SH जोखिमको "न्यून" मूल्याङ्कन गरेको छ । यस मूल्याङ्कनमा आधारित भई आयोजनाको लागि SEA/SH निरोध तथा सम्बोधन कार्ययोजना आयोजनाको लागि <u>SEA/SH</u> रोकथाम तथा सम्बोधन कार्ययोजना बनाइएको छ । यसमा उपआयोजनाको कार्यक्रमले सिर्जना गर्न सक्ने SEA/SH जोखिमहरु निषेध एवम् रोकथाम तथा न्यूनीकरण गर्ने उद्धेश्यका निश्चित व्यवस्थाहरु समावेश गरिएका छन् । यस योजनाले तालिका-१; विश्व बैङ्कले सेप्टेम्बर २०१८ मा प्रकाशित "असल अभ्यास नोट" अनुसार IPF परियोजनाहरुमा <u>SEA/SH</u> जोखिमहरुलाई सम्बोधन गर्न सुझाएको कार्यहरु लाई पनि समावेश गरेको छ। उपआयोजना निर्माणका ऋममा GBV, SEA/SH जोखिमहरुलाई आवश्यक न्यूनीकरण गर्न विदी दायम्भकता दिइ आवश्यक सचेतना तथा तालिमहरुको ब्यवस्था गरिएको छ ।

vi

वातावरण तथा सामाजिक व्यवस्थापन योजना;

पहिचान गरिएका सवालहरू, सम्भाव्य असर एवम् प्रभावहरू, तिनीहरूको न्यूनीकरण गर्ने विधिहरू र अनुगमन विधिहरू समावेश गरी यस प्रतिवेदनले वातावरणीय तथा सामाजिक व्यवस्थापन योजना (ESMP) प्रस्ताव गरेको छ। निर्माण र सञ्चालन चरणहरूमा वातावरणीय र सामाजिक प्रभावहरूको लागि न्यूनीकरण लागत प्रतिवेदनमा समावेश गरिएको छ। यसबाहेक, पर्यावरणीय न्यूनीकरण उपायहरू कार्यान्वयन गर्न र अनुगमनको लागि जिम्मेवार एजेन्सीहरू पनि पहिचान गरिएको छ। भौतिक, जैविक, सामाजिक,आर्थिक र सांस्कृतिक वातावरण सम्बन्धी विभिन्न अनुगमन सूचकहरू पनि पहिचान गरिएको छ । आयोजनाले पुनर्निर्माण र सञ्चालनको चरणमा सरोकारवालासँग मिलेर अनुगमन गर्नछ । सरोकारवालाको जिज्ञासा र चासोको उठान र समयमै जवाफ दिनका लागि गुनासो निवारण संयन्त्र (GRC) मार्फत आयोजनासँग सम्बन्धित गुनासाहरूको सम्बोधन गरिनेछ ।

संस्थागत व्यवस्था;

आयोजना कार्यान्वयन गर्न शहरी विकास मन्त्रालयले शहरी विकास तथा भवन निर्माण विभाग अन्तर्गत एउटा आयोजना समन्वय कार्यालय स्थापना गरेको छ । वातावरणीय तथा सामाजिक विधिको साथै सम्पूर्ण विधिहरु पालना सम्बन्धी जिम्मेवारीको जवाफदेहिता आयोजना समन्वय कार्यालयमा रहने छ । आयोजना समन्वय कार्यालयलाई एउटा आयोजना व्यवस्थापन सहयोग टोलीले सहयोग गर्नेछ । उपआयोजनाहरुको वातावरणीय तथा सामाजिक व्यवस्थापन योजना कार्यान्वयन स्थानीय तहमा गर्न र तथा अन्य वातावरणीय एवम् सामाजिक संयन्त्रहरुको कार्यान्वयनका जिम्मेवार हुने गरी प्रत्येक नगरपालिकामा एकएक आयोजना कार्यान्वयन इकाइ स्थापना गरिनेछ । सुरक्षण विशेषज्ञ सहितको डिजाइन तथा सुपरिवेक्षक परामर्शदाता मार्फत प्राविधिक साहायाता पुऱ्याइनेछ।

Acronym

BoQ	: Bill of Quantity
CBS	: Central Bureau of Statistics
CESMP	: Construction Environment and Social Management Plan
CoC	: Code of Conduct
DPR	: Detailed Project Report
DSC	: Design and Supervision Consultant
DUDBC	: Department of Urban Development & Building Construction
EA	: Environmental Assessment
EHS	: Environment, Health and Safety
EPR	: Environmental Protection Rule
ESMP	: Environmental and Social Management Plan
FGD	: Focus Group Discussion
ILO	: International Labor Organization
NUGIP	: Nepal Urban Governance and Infrastructure Project
OHS	: Occupational Health & Safety
OP/BP	: Operational Policy/Bank Policy
PCO	: Project Coordination Office
PIM	: Project Implementation Manual
PIU	: Project Implementation Unit
PPE	: Personal Protective Equipment
RoW	: Right of Way
SEA/SH	: Sexual Exploitation and Abuse/Sexual Harassment
STD	: Sexually Transmitted Disease
WB	: World Bank
WASH	: Water, Sanitation and Hygiene

Table of Contents

1.	PROJECT INTRODUCTION	- 1 -
2.	DESCRIPTION OF THE PROJECT	SITE
2.1	l Location of the project	- 2 -
2.2	2 Land use	- 2 -
2.3	3 Topography and Hydrology	- 2 -
2.4	4 Landslide and unstable slopes	- 4 -
2.5	5 Climate and Vegetation	- 4 -
2.6	6 Air Quality	- 5 -
2.7	7 Noise Level	- 6 -
2.8	8 Water Quality	- 6 -
2.9	9 Existing infrastructures/ utilities	- 7 -
2.1	10 Demography of the project area	- 10 -
2.1	11 Settlements	
2.1	12 Land availability	
2.1	13 Physical Structures	
2.1	14 GBV, SEA / SH	- 11 -
3.	DESCRIPTION OF THE PROJECT	AND ITS ACTIVITIES 14 -
3.1	1 Salient Features of the Project	- 15 -
3.2	2 Proposed Campsite and Stockpile	- 18 -
3.3	3 Solid Waste	- 19 -
3.4	4 Spoil Management	- 19 -
3.5	5 Quarry Sites	- 20 -
3.6	6 Borrow Pits	- 21 -
3.7	7 Other facilities	- 21 -
4.	ENVIRONMENTAL AND SOCIAL	MANAGEMENT PLAN (ESMP) 23 -
4.1	1 Social and Environmental Screenir	g: 23 -
4.2	2 Scope of Environmental and Socia	Management Plan: 23 -
4.3	3 Implementation of Environmental	nd Social Management Plan 23 -
4.4	4 Objectives of ESMP:	- 24 -
4.5	5 ESMP Matrix:	- 25 -
4.6	6 Summary of costs of ESMP Activi	ies 41 -

	4.7	Environmental & Social Monitoring	44 -
5.	STA	AKEHOLDER ENGAGEMENT AND INFORMATION DISSEMINATION	47 -
	5.1	Stakeholder Engagement	47 -
	5.2	Information Dissemination	50 -
	5.3	Public/Community Consultation Plan	50 -
	5.4	Grievance Redress Mechanism (GRM)	52 -
	5.4.	1 Structure of the GRC	52 -
	5.4.2	2 Processes of the GRM	53 -
	5.4.	3 Further details of the GRM	54 -
	5.4.4	4 Other Mechanisms for Grievance Redress	54 -
6.	LIS	T OF REFERENCES	55 -
7.	LIS	T OF ANNEXES	56 -
	Annex	I: Environmental and Social Screening Checklists	57 -
	Annex	II: Minutes, Public Notice and Letters	62 -
	Annex	III: Proposed Typical Cross Sections	99 -
	Annex	IV: GoN Permissible Environmental limits/standards	102 -
	Annex	V: Air, Noise and Water Quality test Reports	104 -
	Annex	VI: List of Zebra Crossings	107 -
	Annex	VII: Code of Conduct (CoC) on GBV	108 -
	Annex	VIII: Consultation Details	109 -
	Annex	IX: Photographs	120 -

List of Tables

Table 2-1: Hydrology Station of Vyas Municipality 3 -
Table 2-2: Natural Drainage Existed Along The Alignment 3 -
Table 2-3: Major Tree Species Found in the RoW of the Project Alignment 4 -
Table 2-4: Major Wildlife Animal Found in the Municipal Area 5 -
Table 2-5: Major Birds Found in the Municipal Area 5 -
Table 2-6: Major Aquatic Species Found in the Area 5 -
Table 2-7: List of Existing electric pole details 7 -
Table 2-8: List of temples, resting areas and other community owned properties 8 -
Table 2-9: Waiting Station/Chautara along the Road Alignment 8 -
Table 2-10: Schools in and near the road alignment
Table 2-11: Irrigation Canals along the Road Alignment
Table 2-12: Existing Drain Details

Table 2-13: Ward Wise Details of Household and Population of Subproject Area 11 -
Table 2-14: Summary of GBV, SEA/SH case details by Vyas Municipality 12 -
Table 2-15: GBV cases details of Municipality provided by District police Office, Tanahu 12 -
Table 3-1:Details of Proposed Road Upgradation Project 15 -
Table 3-2: Proposed Campsite and Stockpiling Area 18 -
Table 3-3: Spoil Status of Subproject 19 -
Table 3-4: Quantity of Sand, Aggregate and Stone required for the Subproject Construction 20 -
Table 3-5: IEE Approved Quarry site description 20 -
Table 4-1: Roles and responsibility of Stakeholders during ESMP implementation 23 -
Table 4-2: Environmental and Social Management Plan (ESMP) Matrix 25 -
Table 4-3: Summary of Cost of ESMP Implementation 41 -
Table 4-4: Implementation schedule for social measures including GBV, SEA/SH 42 -
Table 4-5: Implementation schedule for Environmental measures 43 -
Table 4-6: Environmental & Social Monitoring Plan 44 -
Table 5-1: People Consulted details disaggregated by Caste/Ethnicity and gender during Field Study 47 -
Table 5-2: Details of Consultations (FGD and meetings) 48 -
Table 5-3: Details of Consultations (KII) 48 -
Table 5-4: Information Dissemination Plan 50 -
Table 5-5: Stakeholder Consultation Plan 51 -
Table 8-1: Details of proposed cross-sectional elements 99 -
Table 8-2: List of Proposed Zebra Crossings Locations 107 -
Table 8-3: List of Public Consultations and their Summary 109 -

List of Figures

Figure 3-1: Index Map	- 14 -
Figure 3-2: Proposed Campsite and stockpiling area	- 18 -
Figure 3-3: Proposed Spoil disposal site	- 19 -
Figure 3-4: Quarries location of Vyas Municipality (Source IEE report 2079)	- 21 -
Figure 8-1: Typical Cross Section of Parasar Marga Road	101 -

1. PROJECT INTRODUCTION

The Department of Urban Development and Building Construction (DUDBC) under Ministry of Urban Development (MoUD) of Government of Nepal has been executing the Nepal Urban Governance and Infrastructure Project (NUGIP) within the strategic framework for urban development envisaged in National Urban Development Strategy since the fiscal year 2077/78 B.S.

The DPR of of *Upgradation Works of Parasar Marga (Buldikhola Beltari Farakchaur Adheri bhyanjang Pokharelfat Kumalgaun Samata School Kalesti Road), Vyas Municipality* has been prepared as per the Contract between the Office of the Municipal Executive of Vyas Municipality; Nepal Urban Governance and Infrastructure Project (NUGIP) (Client) and Joint venture of BOTEK and GOEC Nepal who have entered into the agreement, for performing work REF No: NP-DUDBC-216332-CS-QCBS to provide services on Detailed Engineering Design and Construction Supervision (DSC) covering the upgradation works. The project is expected to contribute towards the municipal capacity for urban development planning, infrastructure development and institutional development of the municipality together with the improvement of livelihood of the local people along the settlement.

The study for Environmental and Social Management Plan of *Upgradation Works of Parasar marga* (Buldikhola Beltari Farakchaur Adheri bhyanjang Pokharelfat Kumalgaun Samata School Kalesti Road), Vyas Municipality was conducted in September/October 2023. The study and preparation of the this ESMP is guided by the Environmental and Social Management Framework (ESMF) for NUGIP.

Name of the Project	Upgradation Works of Parasar marga (Buldikhola Beltari Farakchaur Adheri bhyanjang Pokharelfat Kumalgaun Samata School Kalesti Road)
Estimated Cost:	NPR. 621,649,795.07 (including VAT and contingency)
Estimated ESMP cost	NPR. 1,800,000.00
Start/Completion Date:	March 2024 - July 2025

2. DESCRIPTION OF THE PROJECT SITE

Vyas is an urban municipality established in 1991 (2048 BS). It lies in Tanahu District in Gandaki Province. The municipality office is located in Damauli along the Prithvi Highway. The distance of this municipality is 150 km from Capital city Kathmandu and 50 km from Pokhara. Vyas Municipality is a municipality named after the Maharshi Vedvyas, the writer of 'Veda' a holistic Hindu doctrine, situated at the confluence bank of Madi and Seti River. Geographically, it is located between 28° 7' 28" to 270 52' 39" east longitude and 84° 10' 24" to 840 22' 6" north latitude. This municipality is surrounded by Bhanu Municipality and Bandipur Rural Municipality in the east, Myagde Rural Municipality, and Shuklagandaki Municipality in the west, Lamjung and Kaski district in the North, and Rishing Rural Municipality and Devghat Rural Municipality in the south. The total area of this municipality is 248.00 sq km and has been divided into 14 wards (235 Toles, Source: Municipality profile 2075BS). This municipality is situated minimum 280 m and 1220m at the height of the level from the sea level. The minimum temperature from 8.40 Celsius to maximum 37.00 Celsius as well as the annual rainfall of 1960.6 mm and annual temperature 22.7 Celsius.

2.1 Location of the project

The upgrading of Parasar marga (Buldikhola Beltari Farakchaur Adheri Bhyanjang Pokharelfat Kumalgaun Samata School Kalesti Road) alignment starts at Buldi khola (Ghasikuwa of Prithivi Highway) and ends at Kalesti/Narang. The road under the subproject passes through wards 7, 9, 10 and 11 of Vyas Municipality. The project alignment passes through built up area, agricultural land and some rural settlements. Its starting point coordinates are Easting 234900.188 m, Northing 2949266.006 m and elevation 383.052 m, end point coordinates are Easting 230664.752 m, Northing 3103807.371 m and elevation 429.084 m.

2.2 Land use

The project alignment passes through built up area, agricultural land, rural settlements and open area. The RoW of this road is 12.19m (40 Ft.) which was declared by the municipality in 2058 B.S. in their "Building and Plan Guidelines 2058". The existing road width is 6.8 m to 10 m in different sections. The proposed existing width of the road is already in public use, vehicles are moving throughout the alignment and proposed construction works will be limited within the existing width which is clear in terms of private/public structures. Proposed construction width of the road is 6.6 m to 9.8 m (for exceptional cases, the construction width of the proposed road is reduced to 6 m due to narrow road width and the structures falling within the proposed alignment) which details are presented in Annex III. The municipal clarification letter related to the ROW is attached in the Annex II. During consultation with locals, there were no grievances related issues pertaining to land ownership and availability of land. The proposed road works will not directly change the land use within the project footprint. The project does not run through ecologically sensitive area such as protected area, conservation area, wetland, national parks etc. No historical or archaeological sites are located within the project area.

2.3 Topography and Hydrology

Vyas municipality is located between 28° 7' 28" to 27⁰ 52' 39" east longitude and 84° 10' 24" to 84⁰ 22' 6" north latitude. This municipality is surrounded by Bhanu Municipality and Bandipur Gaupalika in the east, Myagde Rural Municipality, and Shuklagandaki Municipality in the west, Lamjung and Kaski district in the North, and Rishing Rural Municipality and Devghat Rural Municipality in the south. The total area of this

municipality is 248.00 sq km and has been divided into 14 wards (235 tolls, Source: Municipality profile 2075 BS). This municipality is situated minimum 280 m and maximum 1220 m at the height from the sea level.

The relevant DHM established rainfall station for the estimation of the discharges in the natural drains crossing the road is Damauli and Station No. 817. The latitude, longitude and elevations of the nearest station are shown in **Table 2-1** and number of natural drainages existed along the alignment are shown in **Table 2-2**.

Table 2-1: Hydrology Station of Vyas Municipality					
Station No. Stn. Name Latitude Longitude Elevation					
817	Damauli	27.58	84.17	358	

Chainage	Natural	Adopted Structures	Impact and Measures
	Drainage		
0+008	Buldi Khola	Proposed Box Culvert (Size = $4m \times 3m \times $	Impact: landfills and air,
		3No. cell)	water, and noise pollution
0+454	Kholsi	Proposed Pipe Culvert (Dia. = 0.6m)	
0+581	Kholsi	Existing pipe Culvert Replaced by pipe	Measures:
		Culvert (Dia. = 0.9m)	1. Identifying project
1+124	Kholsi	Existing pipe Culvert Replaced by pipe	milestones and
		Culvert (Dia. $= 0.9$ m)	performance targets
1+518	Kholsi	Existing pipe Culvert Replaced by pipe	2. Tracking activities and
		Culvert (Dia. $= 0.9$ m)	troubleshooting problem
2+125	Shivalaya	Proposed Box Culvert (Size = $3m \times 3m \times 3m$)	areas
	Khola	2No. cell)	3. Defining relationships
	(Buldi-2)		
2+630	Kholsi	Proposed Pipe Culvert (Dia. = 0.6m)	4 Schoduling and mosting
3+085	Kholsi	Existing pipe Culvert Replaced by pipe	4. Scheduling and meeting
2 11 7	**1 1	Culvert (Dia. $= 0.9$ m)	completion
3+415	Khola	Existing pipe culvert replace by Box Culvert	completion
2 440	771 1 '	$(Size = 3m \times 2m)$	-
3+448	Kholsi	Proposed Pipe Culvert (Dia. $= 0.6m$)	-
4+256	Kholsi	Proposed Pipe Culvert (Dia. = 0.6m)	-
4+274	Kholsi	Existing slab culvert replace by Box Culvert	
4.025	771 1 •	$(Size = 3m \times 2m)$	4
4+827	Kholsi	Proposed Pipe Culvert (Dia. = 1.2m)	-
4+917	Kholsi	Proposed Pipe Culvert (Dia. $= 0.6m$)	-
5+341	Kholsi	Proposed Pipe Culvert (Dia. = 0.6m)	-
5+375	Kholsı	Existing pipe Culvert Replaced by pipe	
5 440	771 1 .	Culvert (Dia. $= 0.9$ m)	-
5+449	Kholsı	Existing slab culvert replace by Box Culvert	
5 010	771 1 .	$(Size = 3m \times 2m)$	-
5+810	Kholsi	Proposed Pipe Culvert (Dia. = 0.6m)	-
6+032	Kholsi	Proposed Pipe Culvert (Dia. = 1.2m)	-
6+730	Kholsi	Proposed Pipe Culvert (Dia. = 0.9m)	-
7+200	Kholsi	Proposed Pipe Culvert (Dia. = 1.2m)	4
7+444	Kholsi	Existing pipe Culvert Replaced by pipe	
		Culvert (Dia. = 0.9m)	4
7+708	Kholsi	Proposed Pipe Culvert (Dia. $= 1.2m$)	

Table 2-2: Natural Drainage Existed Along The Alignment

Chainage	Natural	Adopted Structures	Impact and Measures
	Drainage		
8+380	Kalesti Khola	Existing Bridge (Span = 26.6m)	
8+441	Kholsi	Existing pipe Culvert Replaced by pipe	
		Culvert (Dia. $= 0.9m$)	
8+837	Kholsi	Proposed Pipe Culvert (Dia. $= 1.2m$)	
9+155	Kholsi	Proposed Pipe Culvert (Dia. $= 0.9m$)	
9+466	Kholsi	Proposed Pipe Culvert (Dia. = 1.2m)	
9+645	Kholsi	Proposed Box Culvert (Size = $3m \times 3m$)	
10+024	Kholsi	Proposed Pipe Culvert (Dia. $= 0.6m$)	
10+048	Kholsi	Existing pipe Culvert Replaced by pipe	
		Culvert (Dia. $= 0.9m$)	
10+214	Kholsi	Proposed Pipe Culvert (Dia. $= 0.9m$)	

2.4 Landslide and unstable slopes

There is one existing landslide at chainage 1+900 which is not active at present and no other disaster-prone area present within the proposed alignment. The road alignment passes through the Indo-Gangetic Plain terai region. To mitigate the existing land slide having not active stage, necessary mitigation measures like breast wall/Retaining wall has been proposed.

2.5 Climate and Vegetation

The landscape of Vyas is very gentle slope from north to south. Vyas is in the northern hemisphere. Summer starts here at the end of June and ends in September. There are the months of summer: June, July, August, and September. The month with the highest relative humidity is July (90.22 %). The month with the lowest relative humidity is March (55.45 %). The month with the highest number of rainy days is July (28.67 days). The month with the lowest number of rainy days is December (1.70 days). Vyas's climate is classified as warm and temperate. The summers are much rainier than the winters in Vyas. The climate here is classified as Cwa by the Köppen-Geiger system. The average temperature in Vyas is 22.2 °C | 72.0 °F. The annual rainfall is 3258 mm |128.3 inch.

The project area is not aligned directly to the forest. The nearby forest of project area is Belghari community forest at distance of 0.6 km from proposed sub-project. The indirect project area (50 m from edge of the road) has built up area and agricultural land. It is not a habitat for terrestrial fauna and avifauna. Buffer zones, protected areas, wetlands, conservation areas and eco-sensitive areas are not affected by the proposed road. Major trees found in the RoW of the project area are presented in **Table 2-3**. However, there is no any trees within the construction width of the proposed road, therefore tree cutting will not necessary at this sub project site.

SN	Local Name (in Nepali language)	Scientific Name	Common Name	Use
1.	सिसौ	Dalbergia Sissoo	Sissoo	Timber
2.	आँप	Magnifera indica	Aanp	Fruit/Fuelwood
3.	पिपल	Ficus religiosa	Pipal	Religious
4.	बकाइनो	Melia azadirach	Bakaino	Fuelwood/Fodder

Table 2-3: Major Tree Species Found in the RoW of the Project Alignment

SN	Local Name (in Nepali language)	Scientific Name	Common Name	Use
5.	ईपिल	Leucaena leucocephala	Epil	Fuelwood
6.	कुटमिरो	Litsea polyantha	Kutmero	Fuelwood

Table 2-4: Major Wildlife Animal Found in the Municipal Area

SN	Local Name (in Nepali language)	Scientific Name	Common Name	Remarks
1	बाँदर	Macaca mulatta	Monkey	
2	लंगुर	Presbytis entellus	Grey Langur	
3	स्याल	Canis lupus	Wolf	
4	रतुवा मृग	Muntiacus muntjac	Indian Muntjac	
5	बदेल	Sus scrofa	Wild Boar	

Table 2-5: Major Birds Found in the Municipal Area

1	काग	Corvus brachrhynchos	Crow	
2	सुगा	Phaethontid Psittaciformes	Parrot	
3	कालिज	Lophura leucomelano	Kalij Pheasant	
4	भगेरा	Ploceidae Passer	Sparrow	
50	बाज	Falco peregrinus	Falcon	

There are three small streams that lie on the alignment. The name of these streams are Buldi Khola (Chainage 0+008), Shivalaya Khola (Buldi-2, Chainage 2+125) and Kalesti Khola (Chainage 8+380). The crossings over these streams include existing vented causeway and RCC bridges. The aquatic species found in these streams are listed below **Table 2-6**.

SN	Local Name (in Nepali language)	Scientific Name	Common Name	Remarks
1	बाम माछा	Monopterus cuchia	Cuchia	Buldi Khola,
2	जुगे माछा	Mystus cavasius	Gangetic mystus	Shivalaya Khola
3	भ्यागुता	Rana tignrina	Frog	(buldi-2) and Kalesti
4	सुन असला	Schizothorax plagiostomus	Golden snowtrout,	Khola lies along the
			Spotted snowtrout	alignment.

Table 2-6: Major Aquatic Species Found in the Area

2.6 Air Quality

The main construction activities that cause air pollution are earthworks excavation, asphalt plants operations and vehicle movement. These activities generate dust, which directly affect the air quality. In addition, vehicles and machinery emit smoke and fine particles. These substances will increase the local air pollution significantly during the construction stage. Burning of fossil fuels will result air pollution due to emission of sulfur oxides (SOx), nitrogen oxide (NOx), carbon dioxide (CO2) and particulates.

For maintaining the quality of air in construction site, during construction, water -will be sprayed on the road surface at Beltari, Farakchaur, Adheri bhyanjang, Pokharelfat, Kumalgaun, Kalesti settlements as well as Blooming Academy (chainage 3+500), Vyash nagar Samata School (9+530) and also personal protective equipment (PPE) for the construction workers will be provided. The construction vehicles will be well

maintained and will strictly comply with the GoN pollution regulation with compulsion in obtaining green sticker. Similarly, all construction plants should adhere to emission regulation. The vehicles carrying construction materials should ensure that it is well sealed and covered so as to avoid littering. The anticipated cost and specific conditions related to air pollution containment are included in the construction contract

Air quality of the project area was tested by instrument. The real time based 24 hours average PM_{10} , $PM_{2.5}$ and CO were tested in two locations which is lesser than $52.6\mu g/m^3$, $8.8\mu g/m^3$, $230\mu g/m^3$ and $62.8\mu g/m^3$, $10.6\mu g/m^3$, $230\mu g/m^3$ respectively at the site. The observed values were significantly lower than NAAQS 2012 for the respective air quality parameters. The detail of air and water quality report is enclosed in **Annex V**.

2.7 Noise Level

The daytime and nighttime observed sound pressure level at the monitoring site were 48.2 dB(A) and 45 dB(A) respectively. Similarly, the observed day and night sound pressure level at the monitoring site were 48.2 dB(A) and 45 dB(A) respectively. The observed daytime and nighttime average sound pressure levels complied the prescribed limits of GoN Noise level standard 2069 for category urban residential area. The details report of noise is summarized in **Annex V**.

Noise impacts will be significant in the RoW and vicinity of the proposed subproject upgradation road during construction periods due to increase of vehicular movements and operation of machinery equipment. Beltari, Farakchaur, Adheri Bhyanjang, Pokharelfat, Kumalgaun, Kalesti settlements as well as Blooming Academy (chainage 3+500), Vyash Nagar Samata School (9+530) area may be impacted by noise pollution. The heavy construction equipment movement in the site should be maintained in the daytime only. Vibrations effects are closely observed and may need to do vibration activities by considering local requirement maintaining prescribed quality. For the safety of construction workers, PPE along with earplugs must be provided while on duty. The anticipated cost and specific conditions related to noise and vibration containment are included in the construction contract.

2.8 Water Quality

The construction debris, paints, oil and grease are likely to create water pollution both surface and subsurface. The dust and silt from the construction sites will also create water pollution of the receiving streams. If workers living in tents/camps do not have access to toilet facilities, open defecation may be practiced, which may contaminate water sources, causing health problems. The anticipated impacts on water pollution such as eutrophication, spreading of water borne diseases, effect on downstream aquatic life will be direct in nature, low in magnitude, local in extent and of short-term in duration.

Spoil should be disposed of at designated spoil sites only which is proposed at 20m from chainage 7+600 having area more than 4 ropani. Also, contractor will propose spoil management site in their C-ESMP and will approve by PIU and DSC and efforts should be made to minimize such waste as far as possible through reuse, reduction, and recycling concepts. Similarly, the contamination of water by the use of cement and bitumen should be avoided and strongly monitored by contractors, PIU and DSC. The Contractor needs to arrange for sufficient water supplies and proper sanitation facilities for its labor force. Separate arrangements are necessary for work camp and labor camps. The anticipated cost and specific conditions related to water pollution containment are included in the construction contract. The water samples were collected from the project affected areas and tested in laboratory. The water quality report was found complied with National Drinking Water Quality Standards /GoN. The detail of water quality test report is enclosed in **Annex V**.

2.9 Existing infrastructures/ utilities

Water supply pipelines

The survey and discussion with the Municipal representatives and water supply users group revealed that there is water supply pipelines present within alignment. Consultation with users of Poland lift DWS committee (Ward-11), Ranipani DWS (Ward-11), Sundari Gorha Lift DWSS (Ward-10), Pharakchaur Matepani deep boring water supply and sanitation user committee (Ward-11), Bifre DWSS (ward-6) were done during the ESMP preparation. The Buldi khola tole (Ghasi kuwa), Pharakchaur, Simaltar and Beltari settlements are likely to face water disturbance during construction work.

In case of disturbance/damage from the construction works, temporary water supply during construction phase will be managed with coordination with water user committee, municipality and other relevant stakeholders and the water supply system will be reinstated as soon as possible. Also, precaution measures such as avoiding pipelines as required will be followed during the construction stage to avoid the damages of such structures. The consultation with water user committee is also conducted during field study and consultation related minutes are attached in **Annex II**.

Existing Electrical Lines

In the whole alignment, the road section has 65 electric poles and 3 transformers within the existing width of road. Chainage wise details of electric poles are presented in below **Table 2-7**. These poles and transformer will be shifted/new installation during construction and necessary consultation with NEA was conducted during field study. The NEA letter related to pole relocation is attached in **Annex II** of this report

SN	Chainage	Direction	Remarks	SN	Chainage	Direction	Remarks
1	0+085	Right		34	4+400	Left	
2	0+520	Left		35	4+430	Left	
3	0+680	Right	Transformer	36	4+475	Left	
4	0+915	Right		37	4+510	Left	
5	1+090	Left	Transformer	38	4+560	Left	
6	1+055	Right		39	4+610	Left	
7	1+415	Right		40	4+665	Left	
8	1+455	Right		41	4+710	Left	
9	1+495	Right		42	4+765	Right	
10	1+560	Right		43	4+810	Right	
11	1+980	Right		44	4+875	Right	
12	2+280	Left		45	5+100	Right	
13	2+310	Left		46	5+160	Left	
14	2+350	Left		47	5+210	Left	
15	2+415	Left		48	6+545	Left	
16	2+615	Left		49	6+650	Right	
17	2+650	Right		50	6+700	Right	
18	2+750	Left		51	6+750	Left	
19	2+830	Left		52	6+900	Right	Transformer
20	3+025	Left		53	6+960	Right	
21	3+145	Left		54	9+115	Left	
22	3+515	Left		55	9+815	Right	

Table 2-7: List of Existing electric pole details

SN	Chainage	Direction	Remarks	SN	Chainage	Direction	Remarks
23	3+550	Left		56	9+895	Left	
24	3+605	Right		57	9+985	Left	
25	3+695	Right		58	10+035	Right	
26	3+780	Left		59	10+080	Left	
27	3+880	Left		60	10+115	Left	
28	3+930	Left		61	10+150	Left	
29	3+980	Left		62	10+200	Left	
30	4+210	Left		63	10+315	Left	
31	4+255	Left		64	10+355	Left	
32	4+310	Left		65	10+545	Left	
33	4+360	Right			Total	65	Nos.

Source: Field survey 2023

Religious places and Play Ground

The details of the public owned properties that lie along the road alignment are presented below. These structures won't be affected by the project upgradation works however necessary precaution will be taken during construction works.

SN	Chainage	Ward no.	Name	Remarks
1	10+170	7	Krishna Mandir, Kumalgaun	Temple
2	9+580	7	Bhager Mandir, Kumalgaun	Temple
3	9+400	7	Kyamin Kot Kalika	Temple
4	9+200	9	Pulimarag Khel Maidan	Play Ground
5	8+900	9	Raja Rani Mandir	Temple
6	7+200	10	Shisaughari Cricket Maidan	Play Ground
7	6+400	10	Chhanga Barahi Mandir	Temple
8	5+800	10	Farakchaur Cricket Maidan	Play Ground
9	1+800	11	Nirbu Baraha Mandir	Temple

Table 2-8: List of temples, resting areas and other community owned properties

Source: Field survey 2023

Waiting Station/ Chautara

Three waiting stations are found along road alignment whose details are presented in **Table 2-9**. The upgradation of road work won't affect these existing structures. Precautionary measures such as careful handling of road construction equipment, awareness to road workers will be followed during the construction stage to avoid the damages of such structures.

SN	Chainage	Ward	Waiting shed/ Chautara Name	Religious trees present	Remarks
		no.		in Chautara	
1	2+750	11	Chautara	Magnifera indica (Mango	Right side
				tree) and Pipal tree	
2	3+150	11	Waiting shed in ward-11 office front		Right side
3	5+500	10	Chautara	Pipal tree	Right side

Table 2-9: Waiting Station/Chautara along the Road Alignment

SN	Chainage	Ward	Waiting shed/ Chautara Name	Religious trees present	Remarks
		no.		in Chautara	
4	7+200	10	Chautara (Newly reconstructed) in	Pipal tree	Left side
			Adheri bhangyang, Pokhrelphat		
5	10+020	7	Shiva Mandir (Sheshamtar) with	Pipal tree	Right side
			Chautara		
6	10+470	7	Chautara	Pipal tree	Right side

Source: Field survey 2023

Schools

There are two schools alongside the road alignment, andthe list of the school is presented in **Table 2-10**. No physical infrastructures of the school will be affected during the road construction. Precautionary measures such as careful handling of road construction equipment, awareness to road workers will be followed during the construction stage to avoid any damage to such structures. Footpath, necessary road safety signages has been proposed.

 Table 2-10: Schools in and near the road alignment

S.N.	Chainage	School Name	Remarks
1	3+500	Blooming Academy	The physical structures of these schools
2	9+530	Vyash Nagar Samata School	won't be affected by upgradation.

Source: Field survey 2023

Irrigation Canal

There are also three irrigation canal that lies within the RoW of the road. The upgradation of road work won't affect the existing irrigation canals. Precautionary measures such as careful handling of road construction equipment, awareness to road workers will be followed during the construction stage to avoid the damages of such structures.

SN	Chainage	Ward No.	Irrigation canal	Remarks
1	0+450	11	Irrigation Canal in left side of the road	Buldi
2	2+163	11	Irrigation crossing	
1	4+250	11	Irrigation Canal in left side of the road	Nareshwor
2	8+250 to 8+360	10	Irrigation Canal Left (narrow road section)	Kalesti
3	8+820 to 8+900	9	Irrigation crossing	Kalesti

 Table 2-11: Irrigation Canals along the Road Alignment

Source: Field survey 2023

Existing drain details

The existing side drain details are presented in **Table 2-12**

SN	Chai	nage	Direction	Domonica	
SIN	FROM	ТО	Direction	Remarks	
1	0+050	0+155	Left		
2	0+460	0+610	Left		
3	1+210	1+230	Left		
4	1+260	1+380	Left		

SN	Chai	nage	Direction	Domorks
511	FROM	ТО	Direction	Nellial KS
5	1+485	1+715	Left	
6	2+550	2+610	Right	Proposed for new
7	2+740	2+780	Right	construction
8	2+820	2+845	Right	
9	2+860	2+910	Right	
10	2+950	3+000	Right	
11	3+035	3+150	Right	
12	3+420	3+565	Right	
13	5+470	5+515	Right	
14	5+615	6+010	Left	
15	6+045	6+130	Right	
16	6+115	6+165	Left	
17	7+060	7+115	Right	
18	8+840	9+145	Right	
19	9+265	9+445	Right	

2.10 Demography of the project area

The total population of the district, according to the National Census, 2021 is 3,21,153 and the number of households is 88,583. The average family size of the district is 3.63, which is lower than that of the national average (4.88). The total population of Vyas Municipality is 78,939 and total household is 22,585. The average household size of the municipality is 3.50 which is lower than that of district household size (3.63). The sex ratio of the municipality is 84.51 and literacy ratio is 85.28 (91.61 Male & 80.04 female).

The total population and household of project affected wards (ward 7, 9, 10 and 11) is 19915 and 5626 respectively. The average household size of the project wards is 3.49. Total male population of the project wards is 9175 and total female population of the project wards is 10740. The sex ratio of the project wards is 84.47. The project area is inhabited by Magar, Brahmin, Chhetri, Gurung, Newar, Bote, Bishwokarma, Darai, Mijar, Thakuri, Pariyar, Musalman, Kumal, Gharti/Bhujel, Tamang and Dura. And in terms of religion, Hindus. Muslims, Christians, Sikhs reside in these communities. There is presence of mixed groups of castes and ethnicities in the project area. The indigenous peoples in project area are Kumal, Gurung, Bhujel, Tamang, Darai, Dura, Bote, Magar and Newar. The total households along the road alignment is 169 with total population 590 having 212 male population and 318 female population. (Field study, September/October, 2023). The necessary consultations with these groups were conducted during field study. The separate consultations with IPs like Kumal were also organized during field study. The minutes of consultation with IPs is attached in the **Annex II** of this report.

	Number of	Total	Рори	lation	Average	a	
Ward	households	Population	Male	Female	household size	Sex ratio	
7	960	3344	1531	1813	3.48	84.45	
9	966	3061	1349	1712	3.17	78.80	
10	1925	7194	3331	3863	3.74	86.23	
11	1775	6316	2964	3352	3.56	88.42	
Total	5626	19915	9175	10740	3.49	84.47	
						Source: NSO 2021	

Table 2-13: Ward Wise Details of Household and Population of Subproject Area

2.11 Settlements

The major settlements that exist along the road alignment in wards 7, 9, 10 and 11 are Buldikhola, Beltari, Farakchaur, Adheri Bhyanjang, Pokharelfat, Kumalgaun, Kalesti and Narang.

2.12 Land availability

The project alignment passes through built up area, cultivated cultural land, rural settlements and open area. The length of the road is 10.55 km. The existing road is blacktopped up to 5.5 km and remaining sections have gravel surface. The existing road width is 6.8 m to 10 m in different sections. Proposed construction width which is the existing width of the road is 6.6 m to 9.8 m (for exceptional cases, road construction width of the proposed road is reduced to 6m due to narrow road width and structures falling within the proposed road alignment) whose details are presented in **Annex III**. For the upgradation of this road, the proposed existing width of the road is already is in public use and vehicles are moving throughout the alignment. There are no impacts on structures, private or public/ temporary or permanent structures due to upgradation works. Thus, no extra land will be necessary for this sub-project for the upgradation works.

2.13 Physical Structures

There are no public as well as private structures existing along the existing width of this sub-project. Therefor the alignment is clear for the upgradation of work.

2.14 GBV, SEA / SH

Field study, available data and consultations have revealed that there is presence of different types of GBV within the municipality and project area. In the informal discussions with locals, people said that some domestic (mental and physical) violence, economic violence, are presence within the project area. The record of the **Vyas Municipality (Women, children, disabled and elderly citizen section)** and **District police office (Women, children and elderly citizen service center)**, **Damauli** shows the violence is present within the Municipality. The recorded details of violence present within the municipality are presented in the **Table 2-14 and 2-15.** The letter of District Police office, Tanahu and Vyas Municipality letter related to violences are attached in **Annex-II.** There are more than forty number of consultations were conducted during preparation of ESMP. The summary of caste/ethnicity the total population consulted by sex are presented below. According to the data, altogether 453 number of the people participated during the consultation. In 453 consulted people, 296 are male and 157 are female. It was also found out that most of the local women were not aware about the provisions of complaint registering through toll free number 1145 provisioned by National Women Commission.

As a part of the project compliance, an Anti-Harassment Cell has been formed in Vyas Municipality with dedicated focal person. **Mr. Bhesh Raj Tiwari** is appointed for focal person who also serves as GBV focal person of the municipality. The letter regarding deputation of the focal person has been attached in **Annex II**. The main purpose of establishment of Anti-Harassment cell is to deal with cases of sexual harassment in a timely manner by providing empathetic support to the victim and ensuring prevention of harassment through proper redressal of the case. The cell process individual complaints and take appropriate action in accordance with the guidelines provided by the respective authorities.

SN	Casa dataila	F/Y 2079/080	Remarks		
511	Case details	Total Report No.			
1	Mental Abuse	15	Record of Short-term Women's Service Centre		
2	Financial Abuse	2	(shelter for victims of violence people who		
3	Physical Abuse	1	suffers from violence) which is managed and		
4	Rape/Sexual violence	3	Government offices.		

Table 2-14: Summary of GBV, SEA/SH case details by Vyas Municipality

Source: Vyas Municipality (F/Y 2079/080)

Table 2-15: GBV cases det	tails of Municipality prov	ided by District police Off	^r ice, Tanahu

		F/Y 077/078			F/Y 078/79			F/Y 079/80		
SN	Types of Report/Cases	Total Report No.	Reconciliati on number	Number of court visits	Total Report No.	Reconciliati on number	Number of court visits	Total Report No.	Reconciliati on number	Number of court visits
1	Domestic violence (physical, mental, financial abuse)	151	122	29	185	143	42	106	73	33

Source: District Police Office, Damauli

According to the above presented data, there is presence of different types of GBV within the municipality and project area. Therefore, most pressing issues on GBV, SEA/SH are taken for planning of mitigation measures. Necessary mitigation programs will be planned and implemented during construction of subproject by both the contractor and PIU/DSC depending on the programs to be conducted. The most pressing issues on GBV based on the above information are:

- Domestic violence (Physical, Mental and Financial Abuse)
- Rape/Sexual Violence

For mitigation of SEA/SH, and GBV during the construction phase, the following activities are proposed and implemented which needs to continue in the operation stage also. For conduction of these activities, the mitigation action plan is prepared, budget is estimated and included in DPR. The responsibility of carrying out these activities will be both contractors and DSC/PIU depending on the activities proposed

- Awareness programs related to women/girls of project area and workers for reduction of **Rape/Sexual Violence.**
- Awareness program for local peoples regarding **domestic violence** (Mental, Physical and Financial Abuse) present in the project area.

- Conduct an orientation program on code of conduct for contractors and subcontractors to manage GBV/SEA/SH risks during construction phase and Implementation of Code of Conduct on SEA/SH behavior and the provision of punishment for breaching of the code of the conduct.
- Establishment of Anti-Harassment Cell in Municipality and assign a Focal Person in the Municipality.

3. DESCRIPTION OF THE PROJECT AND ITS ACTIVITIES

The upgrading of 10.55 km long Parasar Marga (Buldikhola Beltari Farakchaur Adheri Bhyanjang Pokharelfat Kumalgaun Samata School Kalesti Road) section in Vyas Municipality starts from Buldi khola (Ghasikuwa of Prithivi Highway) passes through Beltari, Farakchaur, Adheribhanjang, Pokhrelfat, Kumalgaun and ends at Kalesti . The road under the subproject passes through wards 7, 9, 10 and 11 of Vyas Municipality. The project is the road upgrading for two lane road, black topping, footpath, road furniture and drain construction along with road safety measures. The project alignment passes through Built up area, agricultural land and some rural settlements.

The RoW of this road is 12.19 m (40 Ft.). The existing width of the road varies in different sections. The existing road width is 6.8 m to 10 m in different sections. The proposed construction width of the road is 6.6 m to 9.8 m (for exceptional case road construction width reduced up to 6 m to safeguard the existing houses present within the alignment) whose details are presented in **Annex III.** The minimum gradient of the road is 0.5% and maximum gradient of the road is 12%. The proposed works are improvement of existing carriageway up to two lanes, raised footpath, kerbs, covered RCC drains along the alignment, road crossings and shifting of 65 electric poles and improvement of the road furniture.



Figure 3-1: Index Map

3.1 Salient Features of the Project

Salient features of the proposed road section is presented below. The project is expected to contribute towards the municipal capacity for urban development planning, infrastructure development and institutional development of the municipality.

1	Name	of the Project:	:	Parasar Marga (Buldikhola – Beltari - Farakchaur-Adheri Bhyanjang – Pokharelfat – Kumalgaun - Samata School
	Geographical Location			Kalesti Road) 10+550
	Geogr	aphical Location		
2	2.1	Province:	:	Gandaki
	2.2	District:	:	Tanahu
		Starting Point:	:	Buldikhola, ward 11, Ganshikuwa, Buldikhola
	22	Easting:	:	234900.188m
	2.3	Northing:	:	2949266.006m
		Elevation:	:	383.052m
		Ending Point:	:	Sheshamtar/Kalesti, ward-7
	24	Easting:	:	230664.752m
	2.4	Northing:	:	3103807.371m
		Elevation:	:	429.084m
	Geographical Feature			
3	3.1	Physiography	:	Hilly
	3.2	Terrain	:	Hilly
	3.3	Climate	:	Tropical
	3.4	Geology	:	Mainly Flyschoid Sequence, Shallow Marine Sediments
	Classi	fication of Road		
	4.1	Classification	:	Urban Road/ Collector Road
4	4.2	Existing Surface	:	0+000 to 5+550 Poor Condition black top and remaining Gravel Road
-	4.3	Design Speed	÷	30 kmph
	4.4	Traffic (PCU)	:	2451
	4.5	MSA Value	:	1.43 MSA (Design-5)
5	Lengt	h of Road	÷	10.55 Km
-	Cross	Section of Road		·
6	6.1	Right of Way	:	12.19 m (40 ft)
-	6.2	Existing road width (existing width)	:	6.8 m to 10m

 Table 3-1:Details of Proposed Road Upgradation Project

		Proposed road width (proposed construction width)		6.0m to 9.8m				
	6.3	Carriageway Width*	:	Length	Remarks			
		0+000 to 8+300		5.5m				
		8+300 to 8+360		4 m	Narrow section			
		8+360 to 9+070		5.5m				
		9+070 to 9+110		3.8 m	Narrow section			
		9+110 to 9+200		5.5m				
		9+200 to 9+240		3.8 m	Narrow section			
		9+240 to 10+550		5.5m				
	6.4	Shoulder Width	:	1.0 m				
		Footpath		0.75 m and	1.15 m covered drain total 1.9 m			
		Width of Side Drain						
	- -	Top Width		1.15 m				
	0.3	Bottom Width		1.0 m				
		Depth		0.7-0.8 (clea	0.7-0.8 (clear)			
	6.6	Type of Drain	:	Semi trapez	oidal (Plum Concrete)			
	6.7	Camber Slope	:	2.50%				
	6.8	Minimum Radius of Horizontal Curve	:	10 m (Excej	ptional Radius =10m)			
	6.9	Minimum Value of K for Submit and Valley Curve	:	94 and 42				
	6.1	Maximum Value of K for Submit and Valley Curve	•	231 and 111				
	6.11	Maximum Gradient	:	12% except	ional 13%			
	6.12	Minimum Gradient	:	0.50%				
	6.13	Design Life	:	20 Years				
	6.14	Estimated Construction Period	•	1.5 Years				
	Paven	nent Detail						
-	7.1	Sub-base	:	0.15m				
/	7.2	Base	:	0.15m				
	7.3	Pavement	:	40mm Asphalt Concrete				
0	Structures							
ō	8.1	Culverts						

		Pipe Culverts	:	
		Diameter	:	0.6-1.2
	8.1.1			1.2 dia 8 Nos., 0.9 dia. 14 Nos. and 0.6 dia 8 Nos.
		Number of 12.5m length	:	25 Nos.
		Box Culvert	:	
	812	Length	:	
	0.1.2	Number	:	3*2/3 Nos, 3*3/2 Nos., 3*3 Multicell 1 Nos. and 5*3 multicell 1 Nos
		Bridge	:	existing
	813	Span	:	26.6
	0.1.5	Width	:	4.25
		Number	:	1
	8.2	Retaining Structures		
		Plum Wall	:	
	8.2.1	Height Range	:	1 m to 3 m
		Thickness Range	:	T=0.5 m and B=0.5 m to 1.8 m
		Length	:	2316 m
		Gabion Wall	:	
	822	Height Range	:	3 m to 6 m
	0.2.2	Thickness Range	:	T=1 m
		Length	:	842 m
	8.3	Earth Works		
	8.3.1	Cut	:	38639.47 m3
	8.3.2	Fill	:	16588.84 m3
	8.4	Surfacing		
	8.4.1	Sub-base	:	9445.94 m3
	8.4.2	Base	:	8950.94 m3
9	ESMP	Cost		NRs 1,800,000.00
10	Project	t Cost	•	NRs. 621,649,795.07 (including VAT, Contingency, Price adjustment and PS)
111	Cost p	er Kilometer of Road	:	NRs. 58,924,151.19

* Note:

Right of Way- 12.19 m (40 ft) RoW defined by the municipality; **Carriageway Width-** Black topped road width.

3.2 Proposed Campsite and Stockpile Area

The possible campsite and stockpiling area were identified during field study with consultation with ward chair and locals. The identified site is located in two locations near Ch 2+610 and Ch 8+000 which can be used for contractor's campsite and for stockpiling of the construction materials. The land is private land, and the contractor will lease the land. Necessary consultation with land owners were conducted. The proposed land is barren land with some vegetation. Required facilities like separate male and female camps and toilets will be constructed during camp establishment time. Further details of camp site and stockpiling area is presented below table.

SN	Location	Distance from alignment	Area available (Sqm)	Land status	
1	Ch. 2+610	Outside the alignment (Right Side)	6613.36 (13 Ropani)	Private land (Owner: Bishnu Maya Khanal, Ward-11)	
2	Ch. 8+000	150m far from alignment (Left Side)	2085.75 (4.1 Ropani)	Private land (Owner: Khem Ra Pokhrel, Ward-10)	

 Table 3-2: Proposed Campsite and Stockpiling Area



Figure 3-2: Proposed Campsite and stockpiling area

3.3 Solid Waste

Solid waste generated from the camps will be disposed within the proposed campsite only, away from local water bodies and efforts will be made to minimize such waste through reuse, reduction, and recycling concepts. Soak pits or septic tanks will be established for the sanitation units/latrines at appropriate location within campsite. As the labor camp/stockpiling area is big, contractor will use one corner of the entire area for solid waste management.

Regarding the waste generated during decommissioning of the temporary campsite, the reusable like cardboards, plastics, bins, etc. will be sold, the metal scrap will be sent or sold to scrap dealers, and any residue will be disposed of in coordination with the local ward/municipal authority through the solid waste management (collection & disposal) system of the municipality. The land will be cleared and restored to the satisfaction of the landholder.

3.4 Spoil Management

As per the DPR of the road, the earth cutting is 47,363.36 m3 and earth filling is 19,402.00 m3. The earth cutting is greater than earth filling, 27,961.36 m3 of spoil need to be managed during construction of sub project. Thus, during field study and consultation with ward chair, locals, the spoil management site has been identified which is private land and surrounded by some grasses/bushes. Mostly grade and side cutting are occurred along the alignment. Below table presence the cutting and filling quantity. 27961.36m3 spoil quantity is managed near to the site which is located at chainage 7+600. During the transportation of excavation material, gabion wall on three side of spoil disposed area including plantation is proposed for management of spoil.

	Table 3-3: Spoil Status of Subproject							
SN	Particulars	Cutting (m3)	Filling (m3)					
1	Earthwork	35560.03	16614.77					
2	Structures	11803.33	2787.23					
	Total	47363.36	19402.00					



near chainage 7+600 site near

Satellite view: Proposed spoil management site near chainage 7+600

Source: DPR 2023

Figure 3-3: Proposed Spoil disposal site

3.5 Quarry Sites

In order to upgrade the road, operations like gravelling, construction of retaining walls, cross drainage, side drains, road furniture and other structures will require the use of stones, sand, and aggregates. These construction materials will be brought from the established quarry sites of municipality and also crusher industry nearby the municipality. These construction materials will be brought from the approved quarry sites at the Madi and Seti River which is about 9 km from the project site. IEE of these quarry sites is prepared by municipality and approved by concerned body. The IEE of the Seti and Madi River has been approved by executive committee of municipality which minutes is attached in **Annex II.** The quarry site is shown in below Map (**Figure 3-4**)

SN	Particulars	Quantity (m3)	Remarks
1	Sand	5063.32	
2	Stone	16320.15	
3	Aggregate	14379.49	

Table 3-4: Quantity of Sand, Aggregate and Stone required for the Subproject Construction

The contractor may also obtain required construction materials from the legally operating crusher industries other than proposed quarry sites. So, the direct impact of quarries is not expected in this subproject. However, the quarry sites and amount of quarrying material will be included in Construction Environment and Social Management Plan (CESMP) within 45 days of the contract. PIU will check the site requirements and quality of quarrying material and approve it. DSC will also monitor whether the quarry sites has been legally operating or not.

SN	Quarry Name	Ward	Northing	Easting	Available	Types of	
		No.			Quantity	Materials	in %
					(m3)		
1	Kharghari	13	27°56'7.73''N	84°16'39.14''E	2582.5	Stone	40,
	Setitirko bagar					Aggregate	40
						Sand	20
2	Koidimghat	13	27°56'2.67''N	84°16'39.19''E	423075	Stone	30,
	Bagar (Area 1)					Aggregate	40
						Sand	30
3	Koidimghat	13	27°55'41.92''N	84°17'1.64''E	2953	Stone	30,
	Bagar (Area 2)					Aggregate	40
						Sand	30
4	Jhapu Bagar	14	27°53'35.90''N	84°19'26.56''E	5984.25	Stone	40,
						Aggregate	40
						Sand	20
5	Masdighat Bagar	14	27°53'20.14''N	84°19'27.89''E	13774.5	Stone	30,
	area 1					Aggregate	30
						Sand	40

Table 3-5: IEE Approved Quarry site description

SN	Quarry Name		Ward No.	Northing	Easting	Available Quantity (m3)	Types of Materials in %	
6	Tanahu	Hydro	13	27°56'51.26''N	84°16'25.03''E	3063.75	Stone	40,
	project	Exist					Aggregate	40
	Tunnel	front					Sand	20
	bagar Niureghari							



Figure 3-4: Quarries location of Vyas Municipality (Source IEE report 2079)

3.6 Borrow Pits

As per DPR, the quantity of earthwork cutting 47,363.36m3 is more than earth filling work (19,402.00m3), thus there is no need of borrow pits in this sub project however for ease and future possibility of requirement, borrow pits has been identified. Earth material required for filling on roadway which will be adjusted from cutting quantity. Base (8950.94 Cum.) and sub-base (12,915.74Cum.) will be extracted from borrow pits that will be established quarry site. These construction materials will be obtained to supply and required from the legally operating quarry/crusher industries. Quarry/Crusher Industries must have IEE approval from the concerned authorities. The IEE of the Seti and Madi river has approved by executive committee of municipality which minutes is attached in **Annex II**.

3.7 Other facilities

The facilities like workshop area, concrete batch plant will be established during construction of road. The proposed site is identified during filed study. As the proposed campsite/stockpiling area is large (more than 13

ropani land, (chainage 2+610), It is also proposed as workshop area, concrete batch plant establishment site which is private property and necessary consultation with land owner has been conducted and minutes is attached in **Annex II** of this report. Further, CESMP will be prepared by contractor within 45 days of contract. Thus, facilities like workshop area, concrete batch plant establishment details will also be included in contractors CESMP.

All the construction work should be done by the contractor in these sites as per the satisfaction of the approved Environment and Social Management Plan (ESMP) as presented in **Table 4-2**. It is the responsibility of the contractor to develop its own CESMP to stop or mitigate the impact on various environmental compartment within the permissible range during construction and as guidance given on the below table. The Contractor shall also be responsible to manage and maintain Occupational Health and Safety Administration (OHSA) regulations and system to safeguard the Environment and Health of the crew working in the project as guided by the Occupational Health and Safety (OHS) manual of Government of Nepal.

4. ENVIRONMENTAL AND SOCIAL MANAGEMENT PLAN (ESMP)

4.1 Social and Environmental Screening:

The Environment and Social Management Plan (ESMP) including monitoring plan provides a road map on how to address the anticipated negative environmental and social impacts associated with the implementation of the proposed development project throughout its project life cycle. The outline of the plan considers the anticipated impacts, the mitigation measures, the parties responsible for the action, time frame for the implementation and cost to address them. The monitoring process aims at generating useful information that would be useful in facilitation of the implementation of the mitigation measures.

The implementation of the ESMP solely shall be the responsibility of both the Municipality/PIU/DSC and contractor. Proponent will play both implementor and supervisory role for ensuring that the proposed measures are implemented as outlined on the plan. The frequency of implementation and monitoring of the proposed measures shall be dependent on the nature of the anticipated impact. The cost of implementation of the ESMP especially during the construction phase will be factored in the bills of quantities (BOQ) while the cost after completion will be met by the PIU.

Social and environmental screening of the sub-project has been done to asses any potential risk associated with the road upgradation work. The checklists of screening of social and environmental safeguards are used for screening and provided in **Annex I**. The screening shows that the project area doesn't have major social or environmental risks. The land required for road construction is already available and is in public use. Documents regarding declaration of the RoW by the Vyas Municipality is provided in **Annex II** of this document. As per municipality and people consultation during the field study, there are no any disputes regarding land ownership, existing road width and grievances. As per section B & C of Appendix C of Environmental and Social Management Framework (ESMF, August 2020) of NUGIP, it can be concluded that the proposed road upgradation project falls under 'Low to Medium impact project' under Category B. Hence an abbreviated ESMP is sufficient for the proposed project. This ESMP document has been prepared as per Appendix C of the ESMF.

4.2 Scope of Environmental and Social Management Plan:

The scope covers potential impacts, related mitigations and monitoring aspects related to activities under the proposed road upgradation works in Vyas Municipality. These are summarized in **Table 4-2** below.

4.3 Implementation of Environmental and Social Management Plan

The sub-project ESMP implementation arrangements can be summarized as follows

SN	Stakeholder	Role & Responsibilities for ESMP implementation
1	Vyas Municipality	\checkmark The overall project environmental and social safeguard management is the
	/PIU	responsibility of PIU
		\checkmark The regular monitoring will be carried out by the PIU
2	Contractor	\checkmark The contractor is required to submit C-ESMP within 45 days of contract
		signing.
		\checkmark Implement the mitigation measures and provisions as per ESMP and DPR
		of the Project

 Table 4-1: Roles and responsibility of Stakeholders during ESMP implementation

 Iden
 Role & Responsibilities for ESMP implementation

SN	Stakeholder	Role & Responsibilities for ESMP implementation
3	DSC	✓ Preparation of ESIA/ESMP during DPR phase
		\checkmark Supervision support to the Contractor to implement the ESMP
		✓ Monitoring of implementation of ESMP and its compliance
		✓ The E&S safeguards specialists of DSC will work closely with its technical
		staff to ensure project implementation in accordance to World Bank's
		safeguard standards.
4	PCO & PMST	\checkmark The PCO will have overall responsibility to ensure compliance with
		pertaining laws, policies, regulation for all sub projects
		\checkmark The PCO with support from PMST will review implementation support of
		environmental and social safeguard studies/ management plan prepared by
		PIU/DSC

4.4 **Objectives of ESMP:**

The overall objective is to ensure that the environment and its surrounding areas are protected and developed to meet the needs of the local stakeholders and safeguard the requirements of the local people. The basic objectives of the EMSP are to:

- To ensure that all mitigation measures and monitoring requirements will actually be carried out at different stages of project implementation and operation pre-construction, construction, and operation and maintenance;
- Establish the roles and responsibilities of all parties involved in the project's environmental and social management; and
- Ensure the budget required for implementation of recommended actions aimed at environmental and social management and its enhancement.
4.5 ESMP Matrix:

Following project interventions and related mitigation measures have been planned in relation to the existing status and potentials improvements for the proposed road alignments;

Stage	Impact	Mitigation measures	Responsibility*	Remarks
Physic	al-Construction			
1	Obstruction due to electric poles/ 3 transformers/ (65 nos.) within the construction width	 Coordinate and obtain permission for dismantling and relocation of electric poles from NEA before execution of construction works. Relocate the electric poles along the alignment in coordination with the Nepal Electricity Authority (NEA letter attached in Annex II). The process needs to be completed prior the beginning of the road construction Total 65 noes of electric poles will be installed on both sides of the road. 	Municipality, DSC and Contractor in coordination with NEA.	Included in DPR (BOQ item No.: A-2)
2	Water Supply Pipelines likely to disturbance	 Water supply pipeline will not be impacted directly from the upgradation of proposed works. Coordinate and obtain permission for reinstate the water supply sipe from User Committee. No physical damages, will be protected and reconstructed immediately, if any damage to its physical structure during construction phase. (Details presented in section 2.9) 	Contractor in coordination with Municipality and User Committee	Included in DPR (BOQ item No.: A-2)
3	Irrigation Canal Disturbance	 Coordination with Local user group and respective ward office. No physical damages and will be protected and reconstructed, if any damage to its physical structure during construction phase. (Details presented in section 2.9) 	Contractor (budget) in coordination with Municipality / DSC and User Committee	Included in DPR (BOQ item No.: A-2)

 Table 4-2: Environmental and Social Management Plan (ESMP) Matrix

Stage	Impact	Mitigation measures	Responsibility*	Remarks
4	Land use change	• The land use change is irreversible in this sub-project,	Contractor	It will be the part of
		however, following measures will be undertaken to		Contractor's
		manage top soil. Beltari Farakchaur, Adheri		Responsibility under
		Bhangyang section likely to affected by the sub project.		Contract Cost
		• Save all available top soil from ROW sites and re-use		
		it on completed road formation batters approved by Supervising Consultant.		
		• Strip and stockpile topsoil from all ancillary sites that are to be disturbed.		
		• Keep stockpiled topsoil separate from sub-soil material.		
		• Spread a cover crop on each top soiled batter soon		
		after topsoiling.		
		• Top soil will be used in greenery management,		
		plantation and will be given to farmers upon request		
5	Quarry Operation	• The construction materials will be brought from the	Municipality/DSC,	PIU/DSC monitoring
		established quarry sites (IEE completed and approved	Municipality instructs	cost.
		by concerned authorities) located within or outside the	the quarry operators to	
		municipality. So, the direct impact of quarries is not	reinstate the established	
		expected in this Subproject.	quarry sites as per	
		• The municipality in support of DSC will monitor the	agreed norms during	
		quality of quarrying material and state of quarry sites.	environment clearance	
		• The supplies will only come from authorized	(follow IEE obligations)	
		merchants that have received environmental approval.		
		• Prepare a CESMP to be included in bidding		
		documents and include the details of quarrying		
		activities including required quantity, locations and		
		required mitigation within 45 days of commencement		
		of works and submit to the PIU for approval.		

Stage	Impact	Mitigation measures	Responsibility *	Remarks
		• All the excavated quarry sites will be rehabilitated implementing the measures mentioned in the approved IEE reports.		
6.	Construction Safety	 approved IEE reports. First aid kit including an adequate supply of dressing materials will be provided PPE (helmets, masks, boots, gloves, ear plugs and goggles) should be provided for workers safety Covered drain with footpath must be provided. Storm water collected will be disposed through the nearest culvert sections. Temporary diversions will be provided wherever necessary, with proper drainage facilities including sign and signals. The contractor will assign a safety officer and the PIU's safeguard specialist will monitor the implementation of the OHS measures. Adequate lighting and safety signal devices be installed for work safety. 	Contractor	It will be the part of Contractor's Responsibility under Contractor Cost. NRs 50,000 for worker safety materials.
		 Adequate warning signs, safety barriers, traffic calming measures and persons with flags to control traffic will be provided for work safety. Maintain health care system at construction camps including regular visits by trained medical staff for routine checkup of workers and avoidance of communicable disease. Electrical Equipment will be checked and certified regularly. Provide and install all road signs as per design. Impart road safety education to all community, schools, clubs and drivers of construction vehicles. 		

Stage	Impact	Mitigation measures	Responsibility*	Remarks
		• Hazards will be properly identified and will follow work safety arrangements. Safety signs and information will be provided and the work space will be barricaded to prevent unauthorized entry. Workers and people at the construction site will be provided with proper training, and to help ensure that workers are trained on what to do in the event that an accident occurs on site.		
7	Traffic Management	 Emergency traffic management plan should be included in CESMP by the contractor and approved by the Municipality/DSC. This is required to cope up with the restriction on the vehicular movement due to closure of road for reasons including construction. The plan may include informing about the scheduled road closure and the alternative routes identified to divert the normal traffic flow, transport material during off-peak time. Provide advance notice to stop vehicles by erecting indicator signs at a necessary distance in order to reduce congestion at the site of work, thus enabling of proper security arrangements, or lane wise traffic management. 	PIU/DSC and Contractor	Included in BOQ (BOQ item no: B-7)
8	Issues of stockpiling	 Locate, peg and seek approval from the supervising consultant for the use of stockpile sites. Stockpile will not be located on water courses; should not be within 50 m of schools, hospitals or public standpipes; and should not affect locals and their properties. Proposed location is an open ground near chainage 2+610 and 8+000, having an area of around 13ropani 	Contractor	This will be the part of Contractor's Responsibility under Contractor Cost. This will be included in CESMP

Stage	Impact	Mitigation measures	Responsibility *	Remarks
		 and 4.1ropani in Ward no 11 and 10 respectively. (Further details in section 3.2) Obtain written permission from landowners and local bodies for stockpiling on their land. The consultation/consent from land owner was done with presence of local representatives. Only barren land will be used for stockpiling and proper insulator cover and proper drain will be managed to store the chemical to avoid the leakage of chemicals. Stock of sand will be set wet to prevent it from blowing with the wind; water sprinkler will be used for this purpose. The places used for the stockpiling of construction materials will be cleaned promptly after the completion of the project. The area could be leased or rented based on price not lower than the prevailing market price. 		
9	Air/Dust Management	 Water will be sprinkled regularly for maintaining alignment wet by periodical spray of water (at least 3 times a day). Farakchaur, Kalesti, Samata school and Adheri Bhangyang area will be needed for water spray during construction. Air quality Sampling (at least 2 times during construction period) Delivery vehicles will be covered and mixing equipment will be well sealed and equipped as per existing standards. Repair and maintenance of equipment and vehicles regularly to control air pollution. 	Contractor/PIU/DSC	Included under Contractor's Cost, The cost for the water sprinkling will be borne by the contract package. (NPR 500,000 for Air quality sampling, Noise level monitoring and water quality test)

Stage	Impact	Mitigation measures	Responsibility*	Remarks
		 All construction vehicles will comply with Motor Vehicles and Transportation Management Act as amended – mandatory Green Sticker. Provide temporary hoardings and signs where required to minimize dust impact on locations of temples (chainage 1+800, 6+400, 8+900, 10+020, 10+170) and schools (3+500 and 9+530). Use of speed control devices/signals in settlement (Beltari, Adheri bhangyang and Kalesti) and working areas to limit traffic speed. Air pollutant parameters (TSPM, PM10, Sox, NOx, Cox) will be monitored regularly during construction. Conforming NAAQS of Nepal. 		
10	Noise, vibration	 The noise level of Vehicles and equipment used will be keep at minimum levels and purchase/use equipment/machinery with lower sound power levels. Workers will be provided with appropriate ear muffs/plugs specially at crusher site Sensitive locations i.e., schools (Chainage 3+500, 9+530 will be avoided while placing the noise generating equipment. Awareness raising, information and dissemination about GRM Construction works will be carried out during day time only. Restrict activities with significant noise impacts to outside school Activities involving heavy machinery with significant noise impacts will be restricted to outside school hours. 	Contractor/DSC	Cost of noise level monitoring comes within the Air Quality monitoring cost above. Costs as a result of damage from vibrations will be borne by contactor.

Stage	Impact	Mitigation measures	Responsibility*	Remarks
		• Noise levels (1 hr Leq dB(A)) levels will be monitored regularly conforming WHO standards.		
11	Water Pollution	 Hazardous materials shall not be stored near surface waters sources Plastic sheeting shall be placed under hazardous material storage area to collect and retain leaks and spills. Contaminated runoff from storage areas shall be captured in ditches or ponds with an oil trap at the outlet. Contaminated and worn plastic sheeting shall be packed into drums and disposed off site. Water Quality (EC, PH, DO, TSS, Oil and Grease). Conforming WHO standards. 		Cost of water pollution monitoring comes within the Air Quality monitoring cost included in above SN 8 of this table.
12	Labor Camp Location and Management	 Locate with appropriate markings and get approval from Municipality/ DSC for labor camp sites. Proposed location is an open ground near chainage 2+610 and 8+000, having an area of around 13ropani and 4.1ropani in Ward no 11 and 10 respectively. (Further details in section 3.2) Settlements, water intakes should not near to the camp sites. Also, camps are not close contact with local peoples. Install sanitary facilities for workers to avoid open defecation by construction of temporary toilet. Separate and easily accessible sanitary facilities for working manpower on site. Camp shall not be in the vicinity of landslide and flood plains. 	Contractor	Included in Contractor's Cost, it is the responsibility of Contractor

Stage	Impact	Mitigation measures	Responsibility *	Remarks
		 Provide and maintain proper drinking water, sewerage and waste disposal facilities at the camps. Ensure no wood is burnt by any worker on or off site. Camps shall be provided free of cost, with electricity and regulator & adequate fuel supplies of LPG or Kerosene. After use, sites shall be cleared and restored to near natural or stable conditions with vegetative cover. Location and other details are included in Section 3 of this report. 		
13	Road Safety and Community Safety	 Provide ramps in strategic section of roads as detailed in section Installation of Road markings at all major as well as minor intersections. Road Signs and Markings Road Markings has been provided as per Traffic Sign and Marking manual as per DPR Hand railings: Hand railing to be provided at box culverts and other required section Guard Rails and Safety Barriers: Guard Rails and safety barriers must be provided in places where serious damage to vehicle and people may occur when an out-of-control vehicle may leave the roadway or hit other objects. Installation of Street lights as per need. Retaining/ Breast wall: Stone Masonry Retaining wall has been provided along the alignment where embankment is required. Awareness activities (at least two event, minimum participants 30nos.) will be conducted to inform & aware locals regarding potentials risks and proposed safety measures related to the project activities. 	Contractor	Included in DPR BOQ (BOQ item no: H-43, H-44, H-45, H-46, H- 49, H-51) For awareness activities NRs 50,000.00

Stage	Impact	Mitigation measures	Responsibility *	Remarks
14	Borrow Pits	 Earth material Quantity required of the filling works, sub-grade, base and sub-base. The construction materials will be obtained to supply and borrow pits must be legally operating with IEE approval from the concerned authority. Implementation for the monitoring will be carried through contractor environment mitigation checklist which is prepared before the construction of structures Reclamation of borrow pits, landscaping and tree plantation along the excavated borrow pits. (Borrow pit sites details are included in section 3.6) 	Contractor	This will be the part of Contractor's Responsibility under Contractor Cost. This will be included in CESMP
15	Spoil Disposal	 Disposal of spoil into water bodies will be strictly prohibited and Generated spoil will be disposed only at designated spoil disposal sites. Open burning of solid waste from the Contractor's camps should be strictly banned Implementation for the monitoring will be carried through contractor environment mitigation checklist which is prepared before the construction of structures. All the identified spoil disposal sites will be rehabilitated after disposal adopting natural drainage, and covering vegetation. (Spoil sites details are included in section 3.4) 	Contractor	will be the part of Contractor's Responsibility under Contract Cost
16	Solid waste generation/ Waste from labor camp	 Waste minimization and waste segregation will be prioritized; 3R approach will be promoted. Composting of organic waste generated from the camps will be disposed within the proposed camps. The tentative estimated solid waste generated by the 	Contractor	NRs 150,000 for awareness program, others are Contractor's responsibility under contract cost.

Stage	Impact	Mitigation measures	Responsibility*	Remarks
		 camps is 99kg (for 66people) per day (as assume that a person generates 1.5kg waste a day). Awareness raising event will be carried Coordination with municipality for final disposal into the municipality's waste collection & disposal system Every week, it will be monitored for the management of waste from the camp site. Further detailed plan will also be provided in C-ESMP with in 45days of contract agreement. It has been planned those basic facilities like composting, waste segregation, etc. will be started from first month/quarter of contractor's mobilization; other practices under 3R approach (e.g. waste minimization) will be carried out through out; and awareness events will be carried out every quarter. 		
17	Demobilization of contractor	 construction sites are cleaned from residual waste and fully reinstated; Enabling environment is provided for natural regeneration of work base and construction sites to natural condition. 	Contractor and monitored by PIU/DSC	Contractor cost.
18	Risk associated with others facilities like Crusher, asphalt plant	 The Contractor will develop and maintain emergency response system in order to address any accidents or other emergency situation or disaster at site such as fall of workers from height, collapse of pier, flood, earthquake, accident, etc. The Contractor will dispose all the chemical wastes generated during the time of construction safely without interrupting the existing nearby settlements, water bodies, forests and wildlife. 	Contractor and monitored by PIU/DSC	Contractor cost.
Physic	al-Operation	water bodies, forests and wildlife.		

Stage	Impact	Mitigation measures	Responsibility *	Remarks
1	Road Stability and Drainage Management	• Construction of protection wall and drainage system to mitigate possible inundation in the settlements along the project alignment and ensure proper compaction as per design	Contractor/Municipality	Municipality Regular program during Operation
2	Air pollution and Noise Pollution	 There should be a consensus between municipality, Transportation Entrepreneur, and the local people regarding the operation of conditioned vehicles Maintain signs and speed restrictions on the road section within settlements area to reduce vehicle speed, dust generation, and where horns will not be blown and traffic speed will be regulated Strict enforcement of vehicle emission standards. Maintain road side tree plantation Air pollutant parameters (TSPM, PM10, SOx, NOx, COx, Pb). Conforming NAAQS of Nepal. Noise levels (1 hr Leq dB(A). Conforming WHO standards 	Municipality, transportation entrepreneur, local people	Municipality Regular program during Operation
3	Water pollution	 The operation of proposed work doesn't pose serious threat on water bodies; however, washing vehicles on fresh water streams will be avoided. Water quality (EC, PH, DO, TSS, Oil and Grease). Conforming WHO Standards. 	Drivers, Ward, local people	Municipality will monitor
Biolog	ical-Construction			
1	Vegetation clearing, Slope stabilization/Land slide	 There will be no tree clearance in this sub project however small bushes and road side shrubs will be cleared during construction. But there will be road side plantation to enhance its road side beauty and to reduce air and noise pollution to some extent. 	Contractor	Included in BOQ (BOQ item no G-40, G-41, G-42)

Stage	Impact	Mitigation measures	Responsibility*	Remarks
		• Bio-engineering has been proposed as mitigation for		
		the stabilization of slopes along the road.		
		• Civil structures like masonry wall, gabion walls are		
		constructed during construction		
		• There is no any vegetation loss during construction.		
Social,	economic and cultural- C	onstruction Stage		
1	Pedestrian Safety: General people, children and elderly people.	 Diversions should be safe for children, the elderly, and other pedestrians. School areas (Chainage 3+500 and 9+530) should be emphasized and adjacent transitions should be ensured. Appropriate signs and signage are used during project execution and construction to raise awareness of potential safety hazards of construction 38 number of Zebra crossing and 124 number of Ramps are provided throughout the alignment in certain interval and major crossings. (Details are in 	Contractor	Included in BOQ (BOQ item no: B-7, H- 43, H-44, H-45, H-46, H-49, H-51)
2	Health and Sanitation	Annex VI)	Contractor	NRs 50 000
2	Teatur and Samation	of toilets for workers, and provision of chlorine solutions to purify drinking water for workers	Contractor	1485 50,000
3	Employees safe specially for Child labor and forced labor	 No children (under 16) or forced laborers are employed in this project. Age verification document of workers will be documented and contractor will maintain the record of labour employed. 	Contractor	No cost
4	Occupational Health and Safety	• PPE including mask, gloves and First aid kit will be provided to the worker and also kept in Camp.	Contractor	This will be included in ESMP and

Stage	Impact	Mitigation measures	Responsibility*	Remarks
Stage	Impact	 Mitigation measures Orientation on use of PPE will be provided to workers and in regular basis, Induction and refresher training to the workers will be provided. Safe Drinking water will be provided to the camp for worker use. Provision of insurance to cover physical damage to workers. Provision of insurance to cover physical damage to workers. Contractor will be responsible to maintain the records of each and every accident and incidence and will make available to DSC/PCO/PMST as and when required. Contractor's team, staff and laborers can also make use of the GRM to raise complaints / grievances if 	Responsibility*	Remarks contractor's cost (BOQ item no B-8)
5	Traffic and Transport Management	 any Traffic Safety such as street lights, traffic control devices and other features shall be covered through "Traffic Signs Manuals Vol-I and Vol II" and "Road safety manual" published by the DOR. Provision of alternative routes to ease the congestion and built up of traffic Increase public awareness of safety, health and environmental issues by providing information directly and indirectly through campaign and display appropriate signage for use during construction and awareness creation on the potential hazards of the project. 	Contractor will submit the Traffic and Transportation Plan and approved by the PIU for effective monitoring	Included in BOQ (BOQ item no: B-7 and H-43, H-45, H-51)

Stage	Impact	Mitigation measures	Responsibility *	Remarks
6	Limited Access for elderly and Differently- able People	 Maintain signboards, lights, instructions in strategic locations. Detours and appropriate pedestrian crossings will be available during construction to ensure that the elderly and disabled will not be restricted in their movement during construction. Older people should have opportunities to socialize and meet people and families to support their mental needs and health. 	 Municipality/ DSC Contractor 	Included in BOQ (BOQ item no: H-43, H-51)
7	Grievance Redress, SEA/SH Risks and stakeholder consultation	 Use a grievance resolution process that includes a team or party for negotiation and/or mediation. Clear and timely dissemination of project information, and safeguards aspects including antiharassment cell; Coordination with the local stakeholders Awareness raising, information and dissemination about GRM and GBV (meetings, monitoring and logistic costs@ 1 meeting every month) Production of leaflets, and information dissemination through local media and ESMP document in ward offices. SEA/SH awareness raising activities, trainings and stakeholder engagements such as: community based-awareness program, School based awareness program, Awareness program for women and against the gender-based violence (Domestic violence, Sexual violence) GRM will include mechanism for referring SEA/SH-related grievances Production of leaflets, and information dissemination through local media of ESMP, project provisions including GRM and SEA/SH and ESMP document in ward offices. Signages/noticeboards. 13 awareness/ orientation/ trainings (awareness on domestic violence (4nos.), Rape/Sexual violence 	Municipality/DSC	NRs 1,000,000.00 (Further breakdown presented in table 4-3 below)

Stage	Impact	Mitigation measures	Responsibility*	Remarks
		(4nos.), CoC (5nos.)) with at least 30 participants in each activity and will conduct during first quarter of 1st year and 3rd quarter of first year).		
8	SEA/SH risks	 Separately Camps for man & women and maintain minimum distance from one camp to other camp. Providing female labor-centric facilities such as separate female toilets, separate female camps, separate family camps and mother's rooms on the site. Display signs around workplace on prohibition of SEA/SH Formulating and adopting Code of conduct including sections on the safety of women and girls (CoC should be included in all contracts and training on CoC should be provided to all workers) CoC are understood through orientations and signed by workers 	Contractor,	This will be part of contractor's cost
Social,	economic and cultural: O	peration Stage		
1	Encroachment of ROW	The municipality will work with wards and local bazaar committees/groups to discourage encroachment into the RoW.	Municipality	Cost will be borne by municipality
2	Traffic accidents and associated risks (community members including general public, community, children, elderly people)	 Raise awareness of traffic rules, pedestrian lanes (footpath). Traffic regulations such as speed limits, sign boards are strictly enforced. Further encroachment and squatting within the ROW will be prevented. Do not build schools or hospitals within 50 meters of a road without permission of local government. 	Municipality	Cost will be borne by municipality
3	Limited access for elderly and differently- able people	• Provide training on the use of facilities; maintain signboards, lights, instructions in strategic locations.	Municipality	Cost will be borne by municipality

Stage	Impact	Mitigation measures	Responsibility*	Remarks
	Air and Noise Pollution	• Maintain signs and speed restrictions on the road	Municipality	Municipality will be
		section within settlements area to reduce vehicle		responsible during
		speed, dust generation, and where horns will not be		operation stage.
		blown and traffic speed will be regulated.		
		• Strict enforcement of vehicle emission standards.		
		• Maintain road side tree plantation		
		• Air pollutant parameters (TSPM, PM10, SOx, NOx,		
		COx, Pb). Conforming NAAQS of Nepal.		
		• Water quality (EC, PH, DO, TSS, Oil and Grease).		
		Conforming WHO Standards.		
		• Noise levels (1 hr Leq dB(A). Conforming WHO		
		standards.		

*The DSC team will responsible for monitoring the above-mentioned construction phase works

4.6 Summary of costs of ESMP Activities

The summary of costs for the ESMP activities is outlined in **Table 4-3** below

SN	Items & Headings	Unit	Qty	Rate	Total, NPR	Remarks
	Provisional Sum amount					
1	Water quality test	Samples	4		500.000	
2	Air quality and Noise level monitoring/Sampling	Samples	2		500,000	
3	Awareness/trainings on GBV, SEA/SH and will conduct during first quarter of 1st year and 3rd quarter of first year) with at least 30 participants in each event	Events	13	50000	650,000	
i	Awareness on domestic violence (Physical, Mental and Economic abuse)	Events	4			
ii	Rape/Sexual violence	Events	4			
iii	Awareness/Training on CoC	Events	5			
4	Solid waste management	Events			150,000	
5	Awareness on Health and sanitation of workers and provision of chlorine solution	Events	1		50,000	
6	Awareness on Road safety and community safety	Events	2	25000	50,000	
7	Construction safety (PPE, Protective clothing including helmets, masks, boots, gloves, ear plugs, goggles etc)		1	50000	50,000	
8	Social safeguards (grievance meetings, site monitoring, etc)	Meetings/ Events	18	12500	225,000	
9	Information dissemination materials and medium					
	(a) Leaflets and ESMP document printing				50,000	
	(b) PSA (local media)		3	25,000	75,000	
	Total				1,800,000	

		Nos.																			Remarks/	Responsibility
SN	Activities	of						2	024								20	25			Targeted people	
		event	1	2	3	4	5	6	7	8	9	10	11	12	1	2	3	4	5	6		
1	Awareness/ Orientation/Train	ing on S	EA/	′SΗ,	GE	BV																
i	Awareness on Domestic violence including Physical, Mental and Financial abuse.	4																			Local peoples	DSC/PIU
ii	Awareness on Rape/Sexual violence	4																			Women/girls of project area and workers	DSC/PIU
2	Orientation on Code of conduct for Project staffs and contractors/ sub- contractors to manage GBV/SEA/SH risks	5																			Project staffs, staffs of contractors and sub-contractors	Contractor/ DSC/PIU
3	Awareness on Health and sanitation for workers	1																			Project workers	Contractor/ DSC
4	Awareness on Road safety and community safety	2																			Local people	Contractor/ DSC
5	Regular monitoring and reporting																					DSC/PIU

Table 4-4: Implementation schedule for social measures including GBV, SEA/SH

				2024 2025																
SN	Impact	Mitigation Measures	1	2	3	4	5	6	7	8	9	10	11	12	1	2	3	4	5	6
1	Air Pollution (Dust)	Water Spray																		
2	Other air pollution parameters	Instrumental analysis																		
3	Water pollution	Lab analysis																		
4	Noise pollution	Instrumental analysis																		
5	Spoil disposal	Proper Supervision																		
6	Borrow pits	Excavation as specified, Reclamation and rehabilitation																		
7	Road Traffic safety	Installation of safety sign boards, campaigning																		
8	Campsite monitoring	Supervision																		
9	Occupational Health & Safety	Safety awareness programme, PPE																		
10	Solid Waste Management	Disposal practice, 3R principal awareness for worker																		
11	Loss of vegetation; greenery promotion	Road side plantation																		
12	Quarry sites	Excavation as specified, Reclamation and rehabilitation																		

Table 4-5: Implementation schedule for Environmental measures

4.7 Environmental & Social Monitoring

Environmental and social monitoring is an essential tool to ensure the implementation of mitigation measures and to know the effectiveness of those measures. ESMP monitoring is necessary for the following purposes;

- to track the impacts,
- to evaluate the effectiveness of proposed mitigation measures, and
- to suggest improvements, if any new circumstances arise.

The following table summarizes the plan for environmental and social monitoring for the proposed project;

SN	Monitoring Aspects	Location	Parameters	Methodology	Frequency	Responsibil ity
Α	Construction Pha	se			•	· •
1.	Air quality monitoring	Settlement areas near road alignment	At least TSP; PM ₁₀ /PM _{2.5}	Air Sampler / Detector	Quarterly	DSC
2.	Noise Levels	Settlement areas near road alignment	Average noise levels (L_{eq})	Noise Meter / Android Application	Every Month	DSC
3.	Water Quality	Ninda river near and Camp site	Parameters as per ESMF of the project	Laboratory Analysis	Quarterly	DSC
4.	Spoil Disposal	Along the alignment	Erosion and inundation	Site visit and observation	Every Month	Contractor/ DSC
5.	Road Traffic safety	Along road alignment	Status of road for use; road accidents records, Management of diversion, traffic signboards, flow of existing traffic, accessibility to the locals, grievances etc.	Use of Logs; Records of complaints	Every Month	DSC, PIU
6.	Campsite monitoring	Construction Campsite	Space for workers; Potable water; Sanitation facilities; waste management, First Aid, rehabilitation after closure of the camp sites etc.	Site verification; records of provisions of WASH materials;	Every Month	DSC, PIU
7.	Occupational Health & Safety	Active construction sites; campsite	Provision/Use of PPEs; First Aid/treatment; Awareness/orientatio ns conducted for workers	Site verification; records of supply of PPEs; records of events	Every Month	DSC, PIU
8.	Solid Waste Management	Camp site and along the alignment and other construction areas	Types of waste generation, quantity, disposal practice	Observation	Every Month	DSC, PIU

Table 4-6: Environmental & Social Monitoring Plan

SN	Monitoring Aspects	Location	Parameters	Methodology	Frequency	Responsibil ity
9.	Loss of vegetation; greenery promotion	Active construction sites; road sections passing through vegetated area	Site clearance at vegetated areas; plantation works, maintenance etc. as per EMP.	Site verification; records of trees cut; records of newly planted trees	Every Month	DSC, PIU
10.	Impact upon physical structures	Along the alignment	Public and private structures affected, compensation distributed, loss of business, rehabilitation and relocation, RP preparation etc.	Site verification, observation, documents in place.	Every Month	DSC, PIU
11.	Quarry sites	All the quarry sites	Land slide, water logging, impact upon public, impact upon water bodies, dust, impact upon physical structures, complain and grievances, rehabilitation of the sites etc.	Observation	Every Month	DSC, PIU
12.	Borrow pits	All the borrow pits excavated for the project	Land slide, water logging, dust, and impact upon private land, impact upon physical structures, complain and grievances, rehabilitation of the sites etc.	Observation	Every Month	DSC, PIU
13.	GBV aspects	Work sites; settlement areas near camp site	Laborers' records; Cases of GBV in relation to project works; any unrecorded cases	Community consultation; GRM records	Every Month	DSC, PIU
14.	Other facility sites established by the contractor	Project area		Observation	Every Month	DSC, PIU
B	Operation & Mai	ntenance Phase		1	r	
1	Road stability	Road alignment	Status of slopes along road alignment; status of road components	Site verification; ward records; traffic police office records	Every 3 months - 1 st year; Bi-annually after that	DSC, PIU
2	Water pollution	Surface flows (natural drainages & irrigation canals)	Parameters as per standards (Annex 4)	Laboratory Analysis	Every 6 Months	DSC, PIU
3	Vegetation/tree survival rate	Plantation sites	Number of surviving trees; status of planted trees	Site verification; interaction with	Every 6 Months	DSC, PIU

SN	Monitoring Aspects	Location	Parameters	Methodology	Frequency	Responsibil ity
				road-side		
				communities		
4	Road safety	Road alignment	Road accidents; status	Site verification;	Every Month	DSC, PIU
		and adjacent	of road components	interaction with		
		settlements		road users		

Monitoring activities during O&M Phase will need to be scheduled based and site requirements. Contractor will be responsible for monitoring during DLP period. After the DLP period, Vyas municipality will be responsible for the Operation and Maintenance phase of sub project.

5. STAKEHOLDER ENGAGEMENT AND INFORMATION DISSEMINATION

5.1 Stakeholder Engagement

Regular stakeholder engagement and consultations are necessary to ensure widespread and meaningful participation of key stakeholders with focus on the project affected people. Public consultation and community participation helps to remove uncertainty and at the same time help the project implementation with its methodology as well as work plan.

More than 40 stakeholder consultations were held during the design of the subproject and ESMP to understand project questions and concerns, and to incorporate any concerns and feedback into subproject design. The main objectives of these consultations were to make the public aware on environment and social issues, locate and understand the issues/mitigations to be included in ESMP report. Stakeholder consultations including with vulnerable groups such as women's groups, and indigenous groups, and information dissemination will continue throughout project implementation. The details of design aspects of the road, social & environmental safeguards, and GBV aspects were discussed during the public consultations. The list of people and institutions consulted are given in **Table 5-2** and **5-3**, Consultation minutes are attached in **Annex II** and consultation details including issues raised are presented in **Annex VIII**.

Consultation summary/issues raised during consultations

Consultation with locals and stakeholders were carried out to gather information and interact with local people for implementation process, procedure and community roles and responsibilities during and after construction as well as preparation phase. People in the project area have shown their commitment to supporting the project. There is only concern of people are completion of construction on time and maintaining required quality.

During the consultation, peoples mainly emphasized on the quality of road and the material that will be used during the construction as well as proposed components of the roads, other concerns of locals are summarized below.

- Water must be sprayed during the construction phase near settlements and School.
- Women empowerment must be taken into consideration.
- Should preserve existing environment as where possible.
- Road safety must be taken seriously during construction phase, make zebra-cross near school and public places like chautara/waiting shed.

Table 5-1: Peo	ple Consulted details	disaggregated by	Caste/Ethnicity and	l gender during	Field Study
	1	00 0 2	2	0 0	

C N	Cast/Ethnicity	Parasar Marg					
0.14.		Male	Female	Total			
1	Magar	39	18	57			
2	Brahman - Hill	70	48	118			
3	Kshetri	55	28	83			
4	Gurung	34	11	45			
5	Newa: (Newar)	21	9	30			
6	Bishwokarma	16	8	24			
7	Mijar	12	7	19			
8	Darai	17	7	24			
9	Pariyar	12	4	16			
10	Kumal	20	17	37			
	Total Consulted People	296	157	453			

SN	Date	Organization	Consultation type	Remarks
1	29th September, 2023	Bifre Naranga DWSS Ward - 7	FGD	
2	29th September, 2023	Chhori Buhari Mothers Group Ward - 7	FGD	Women group
3	29th September, 2023	Simaltar Narang Tole Development Committee Ward - 7	FGD	
4	29th September, 2023	Vyas Nagar Samata School Ward - 7	FGD	School
5	29th September, 2023	Kumalgaun Tole Development Committee Ward - 9	FGD	IPs
6	29th September, 2023	Kumalgaun Chandi Bhager Aama samuha Ward - 9	FGD	IPs/women
7	29th September, 2023	Adheribhanjyang-Lamidanda Tole D. C. Ward - 10	FGD	
8	29th September, 2023	Adheribhanjyang Aama Samuha Ward - 10	FGD	Women group
9	30 September, 2023	Jamune Tole Development Committee Ward - 11	FGD	
10	30 September, 2023	Beltari Tole Development Committee Ward - 11	FGD	
11	1st October, 2023	Shrijansil Tole Development Committee Ward - 11	FGD	
12	30 September, 2023	Kalika Beltari aama Samuha Ward - 11	FGD	Women group
13	30 September, 2023	Beltari Ranipani DWSS Ward -11	FGD	
14	29th September, 2023	Farakchaur aama Samuha Ward - 11	FGD	Women group
15	1st October, 2023	Local of Buldi khola, Basanta tole	FGD	
16	29th September, 2023	Farakchaur Tole development Committee Ward - 11	FGD	
17	29th September, 2023	Tole Chairperson and Locals, Kumal tole, ward-9	Meeting	IPs
18	29th September, 2023	Ward No. 7, Ward Chairperson and locals, Simaltar Chowk	Meeting	
19	30 September, 2023	Ward member and Locals, ward-11, Beltari tole	Meeting	
20	1st October, 2023	Ward Chairperson (Ward 11) and Locals, Ghasikuwa tallo Poland tole	Meeting	
21	29th September, 2023	Tole chairperson and locals, Dhairaini tole, Ward-10	Meeting	Dalit/IPs

 Table 5-2: Details of Consultations (FGD and meetings)

Table 5-3: Details of Consultations (KII)

SN	Date	Name	Organization	Consultation type	Remarks
1	29th September, 2023	Radhika Wagle	Vyas -7, Shimaltar Tole, Chairperson: Chhori Buhari Mothers Group	KII	Women
2	29th September, 2023	Shanti Sapkota Wagle	Vyas -7, Teacher: Vyas Nagar Samata School	KII	Women
3	29th September, 2023	Asmita Sunar Kumal	Vyas -9, Kumalgaun, Chairperson Chandi Bhanger Aaama samuha	KII	Women/ IPs

SN	Date	Name	Organization	Consultation	Remarks
DIT	Dute	1 tunite	organization .	type	Remarks
4	30 September, 2023	Nirmala Adhikari	Vyas -11, Shopkeeper, Jamune Tole	KII	Women
5	29 September, 2023	Bimala Adhikari	Vyas – 11, Chairperson Farakchaur Mothers Group	KII	Women
6	29th September, 2023	Indira Adhikari	Vyas – 11, Farakchaur Tole local (Ward Member)	KII	Women
7	1 st October, 2023	Kiran Nepali	Principal, Ward no. 11, Blooming Academy	KII	
8	1 st October, 2023	Suman Raj Poudel	Ward No. 11 Chairperson Shrijansil Tole development Committee	KII	
9	1 st October, 2023	Gopal Bahadur Gharti	Ward No. 11 Chairperson Shera Tole Development Committee.	KII	
10	30 September, 2023	Bir Bahadur Gharti	Ward no: 11, Chairperson Purandi Tole Development Committee	KII	
11	30 September, 2023	Birendra Adhikari	Ward no: 11, Chairperson Jamune Tole Development Committee	KII	
12	29 September, 2023	Ram Bahadur Thapa	Ward No 11, Chairperson, Farakchaur Tole Development Committee	KII	
13	29 September, 2023	Karn bahadur Basnet	Ward No: 10, Formar Chairperson farakchaur Tole Development Committee	KII	
14	1 st October, 2023	Amit Kaini	Ward N0: 11, Local Contractor	KII	
15	29 th September, 2023	Shiva Baniya	Businessmen, Ward No. 10	KII	
16	29 th September, 2023	Gobin Bahadur Adhikari	Ward No. 10, Chairperson Dhaireni-Pokharelfat- adheribhanjyang- Lamidanda Tole Development Committee	KII	
17	29 th September, 2023	Dharme Kami	Ward No. 10, Chairperson Sundari Gaira Lifting DWSS	KII	Dalit
18	29 th September, 2023	Ram Krishna Kumal	Ward No. 9, Chairperson Kumalgaun Tole Development Committee	KII	IPs
19	29 th September, 2023	Krishna Prasad Neupane	Ward No. 7, Ward Chairperson	KII	
20	1st October, 2023	Bharat Raj Naharki	Ward No. 11, Chairperson Poland Lift DWSS	KII	

5.2 Information Dissemination

For the success of the project, all information about the proposed activities and their expected results will be publicly shared with the affected people and interested stakeholder. In collaboration with the relevant local authorities, NGOs and other community groups, the project will disclose all the relevant information in the various stages of project cycle. Agencies working for environmental and social aspects will also be informed about the ongoing and planned activities, to identify jointly appropriate protective or corrective measures. The following approaches will be adopted to make information accessible to all the concerned stakeholders throughout the project cycle;

- Mass Media: Use local media like newspaper, radio and TV.
- Meeting/Workshops

• Distribution of project documents: Certain project documents will be disclosed in Nepali (or other relevant local language). Project-related information materials will be distributed prior to each construction work to local officials, local people, stakeholders and other concerned offices like municipality, Ward, Tole Committee etc.

Point of information will be defined at the municipality office level during implementation to disseminate all the documents related to the project activities. An Information Centre will be established at the municipality office during implementation to disseminate all the documents related to the project activities. Based on the public information disclosure policy, PCO and the municipality will unveil the information through its website. The information dissemination plan for the project is presented in **Table 5-4** below;

Means of Communication	Timeline & Frequency	Responsibility	Resources
Municipality Website	At the start of the project, &	PIU/ Information Officer	Information
(Project details, ESMP,	maintained throughout		Officer
GRM)			
Newspaper and local Radio	Project implementation phase	PIU, municipality	Radio-
(project salient features,	Weekly basis	Information Officer	program, FM
dates, GRM etc.)			Radio Clip
Project leaflets and Fact	Project details, Implementing	PIU, Information Officer	Double-sided
Sheet,	agencies, project period - 2		colour A4
	times		(500 copies)
Face to face engagements -	Project Main Activities,	PIU, Information Officer	
meetings, focus group	Financial Assistance,		
discussion with relevant	Implementing agencies,		
stakeholders	project period etc. 2 time in		
	year		
Ward offices and Municipal	Project period- 2 times	PIU/Municipality	Focal person
social section/Library			
(Hard copy of ESMP)			

Table 5-4: Information Dissemination Plan

5.3 Public/Community Consultation Plan

All consultations on social and environmental issues will be conducted in a way that includes women and vulnerable social groups (such as low-income households, members of certain castes, and people with disabilities, among others). Details of the Project Consultation Plan are presented in **Table 5-4**.

Objective and Target Goal	Method	Responsibility					
I Build Local Ownership							
Introduce Project DPR Report and	Group Meeting/Workshops	DSC/ Municipality					
Maintain efforts for two-way communication with relevant	Face to face meeting with concerned stakeholders	DSC, Ward Level Representatives.					
II. Start Consultation Process of road	with Potentially Affected Comm	unities by construction and operation					
Identify communities to be potential affected by project	Electronic and face to face communication with relevant stakeholders and implementing agencies	DSC, Municipality Ward Representatives					
Consult with community representatives and ensure that their concerns with the proposed project are addressed	Face to face meeting with community representative Meeting will take place following protocol for meeting.	DSC, Municipality Ward Representatives					
Ensure that the views and needs of vulnerable segment (if required) of communities, including but not limited to poor, women, elderly, and are addressed by the subproject	Face to face meeting with affected communities' representative (including social officer of Municipality, women's representative etc.)	DSC, Municipality Ward Representatives.					
III. Implementation Phase							
Maintain effective communication with PIU	Electronic and face to face communication with representative of relevant agency /organization	PCO, Design and Supervision Consultant Municipality Ward Representatives					
Raise awareness of project activities among potential beneficiaries	Media advertisements and targeted campaign	DSC/ Municipality					
Maintain consultation process with a potential affected communities and beneficiaries	Face to face meeting with affected communities' representative (including social officer of Municipality, women's representative etc.)	Design and Supervision Consultant Municipality Ward Representatives					
Monitoring and evaluation community involvement	Face to face meeting with affected communities' representative	Design and Supervision Consultant Municipality Ward Representatives					
Reports outlining progress of activities related to engagement and communication	Collation of progress report, self-evaluation by PCO	PCO					
Agreement on operation and maintenance system	Electronic or face to face communication with relevant stakeholder Face to face meeting with local authority	Design and Supervision Consultant Municipality Ward Representatives					

Table 5-5: Stakeholder	Consultation Plan
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Objective and Target Goal	Method	Responsibility
Implementation of ESMP	The contractor will prepare	The contractor's bid document must
_	the various standalone plans	include the requirements outlined in
	to comply with ESMP	the ESMP. Before work starts, the
	requirements By including all	contractor will draft the stand-alone
	the stand alone plans, the	plans, present them to the PIU, and
	contractor will prepare	get permission. The standalone plan
	Contractor's Environmental	comprises, among other things, a
	and Social Management Plan	management plan for the
	(ESMP) and submit it to PIU.	environment, health, and safety; a
	This requirement will be	strategy for traffic; a plan for
	included in the contract BOQ	handling complaints; a plan for
		managing spoils; a plan for disaster
		readiness; a plan for managing
		camps; a plan for managing labor;
		and a plan for managing air, water,
		and noise.

5.4 Grievance Redress Mechanism (GRM)

As part of the implementation stage the PIU, the project municipality, project engineers and Environment and Social staffs will directly interact and consult with the people of the project alignment. The affected people and groups will be able to raise any grievances related to sub project with the subproject grievance redress mechanism (GRM), to help ensure the successful implementation of resettlement measures. At first instance, the project-affected grievant should raise their grievance with the information office of the project, and the information office will determine whether it can be resolved within the project, at the ward level, or whether another mechanism should be used. PAPs will be exempt from all administrative fees incurred, pursuant to the grievance redressed procedures except for cases filed in court. More details regarding the GRM are discussed in the following sections.

5.4.1 Structure of the GRC

Grievance Redress Committee (GRC) has been formed for the sub-project. The composition of the proposed GRC is given below. The GRC formation related municipality letter is attached in **Annex-II**.

a. The first level of GRC sits at the project site level. It is composed of the following team:

Ward Chair, Ward No:11, Mr. Dal Bahadur Dura	Coordinator
Executive committee member, Shree Nila Ghimire	Member
Ward member, Shree Ishwor Paudel	Member
Ward member, Shree Santosh GC	Member
Social Development branch, Mr. Nabin Parajuli	– Member
NUGIP focal engineer, Er. Rochak Kshetri	Member
Program and planning branch, Senior Er. Dr. Raju Paudel	Member Secretory
Invited Members:	

Representative from the DSC (Supervision Engineer/Social/Environmental Safeguard Specialist) Representative from Construction Entrepreneur Road affected people (Women) representative

It is agreed that the first level of GRC will be reformed. The first level of GRC at the project site level will be composed as below.

Chairperson of ward 7/9/10/11	- Coordinator
Chairperson of ward 7/9/10/11	– Member
Female ward member	– Member
Representative from Tole Land Organization (Project area)	– Member
Representative from the DSC (Supervision Engineer/E&S Safeguard Specialist)	-Member Secretary

b. Similarly, the second level GRC will be established at Municipal level. The GRC will comprise Mayor/Deputy mayor of the municipality as coordinator of the GRC, while the other member may comprise chief administrative officer of the municipality, designated municipal officer responsible for hearing grievances shall also be a member of the GRC, NUGIP focal person, municipal social development officer and team leader or a representative from DSC (member secretary of the GRC).

c. The third level GRC will be established in PCO level.

5.4.2 Processes of the GRM

Grievances shall be submitted through various mediums, including in person, in written form to a noted address, through a toll-free phone line or through direct calls to concerned officials, and emails. The PCO will appoint a person (Operator) at PCO- Kathmandu to receive such calls and online messages. The person (Operator) based on nature of complaint, will forward the same to the information office or ward committee.

A ticket or a unique number will be generated for all such call, messages and letters. The complainant will follow up based that unique number with Operator at PCO-Kathmandu. All complaints will be responded within two weeks at any level. In case response is not received from 1st level within 15 days, the complaint will be escalated to next level. If complaint remains unaddressed at 1st and 2nd within maximum 30 days after registering the compliant, it will be elevated to 3rd level at PCO level. The PCO within 7 days of time should instruct the concerned person at Vyas municipal level to arrange for a hearing within maximum 5 days of time. Effort will be given by all levels of GRCs to conduct hearing and resolve the concern at their level up to the satisfaction of complainant within the stipulated timeframe. In case 1st and 2nd level GRCs are unable to resolve the concern up to the satisfaction of complainant, these GRCs' or Complainant may approach to 3rd level of GRC at PCO Level. After conducting hearing at any level of GRC, the decision will be communicated to complainant within maximum 30 Days of time.

All local contact information and options for complaint submission will be available on site, on Toles, Wards, municipality office, PCO on information boards and the project municipality websites. A half yearly report on Grievance Redress by the subproject project will be prepared and will be sent to the project municipality's GRCs by Wards' GRCs and ultimately to GRC of PCO. The PCO will forward the same to the World Bank.

The project GRM will include a process for addressing any SEA/SH-related grievances, SEA/SH cases and to provide training/orientation on SEA/SH case.

5.4.3 Further details of the GRM

The functions of grievance mechanism include redressing grievances of community / beneficiaries /project affected persons in all project respects, providing rehabilitation and resettlement assistance and related activities, and hearing grievances from workers involved in the project at any level or phase. The system will be established to report back to the concerned community or persons regarding the decision on the complaint. The grievances related to women will be dealt by women officer. As required, the social mobilizers will be recruited. GRC will deal/hear the issues related to Environment, R&R and individual grievances and will give its decision/verdict within 30 days after hearing the aggrieved person. The final verdict of the GRC will be given by the Head of GRC in consultation with other members of the GRCs and will be binding to all other members. No any grievances have been registered till to date. Potential grievances which may need to be addressed are listed below:

- Access to resource /utility/facility
- Ambient air and noise Quality
- Impact on water quality/resource
- Grievance from vulnerable community
- Gender related issues
- Grievances from workers
- Safety and risk repeated to project development

5.4.4 Other Mechanisms for Grievance Redress

All complainants have the option to approach court/judiciary or the World Bank's Grievance Redress Service in case he or she is not satisfied with the verdict provided.

6. LIST OF REFERENCES

- Environment Protection Act, Government of Nepal, 2019
- Environment Protection Regulations, Government of Nepal, 2020 (and amendments)
- Environmental and Social Management Framework, Nepal Urban Governance and Infrastructure Project, August 2020, the World Bank
- Final Detailed Project Report on Upgradation of Parasar Marga (Buldikhola-Beltari-Farakchaur-Adheri bhyanjang-Pokharelfat-Kumalgaun-Samata School Kalesti Road), September 2023
- Nepal Human Rights Year Book 2023, Informal Sector Service Center (INSEC), Kathmandu.
- Project Implementation Manual, Nepal Urban Governance and Infrastructure Project, December 2022, the World Bank
- https://censusnepal.cbs.gov.np
- https://vyasmun.gov.np/en
- IEE REPORT Madi to Kalesti (*あ)*, IEE REPORT Kalesti to Sishaghat (*ᡆ)*, IEE REPORT NIURO GHARI
- Municipality Profile of Vyas Municipality 2075

7. LIST OF ANNEXES

- Annex I: Environmental and Social Screening Checklists
- Annex II: Minutes, Public Notice and Letters
- Annex III: Proposed Typical Cross Sections
- Annex IV: GoN Permissible Environmental limits/standards
- Annex V: Air, Noise and Water Quality Test Report
- Annex VI: List of Zebra crossings, and Ramp
- Annex VII: Code of Conduct (CoC) on GBV
- Annex VIII: Consultation Details
- Annex IX: Photographs

Annex I: Environmental and Social Screening Checklists

Checklist for Environmental Screening

SN	Particulars	Yes	No	Can't Say	Remarks
1	Is the site vulnerable to major or induced hazards such as: Landslides, Flooding, Storm surge, Severe wind damage, Earthquakes, Fire, Explosion, Other (specify)	~			Since some section of road alignment passes parallel to the buldi khola, Shivalaya Khola (Buldi-2) and Kalesti khola, there is chances to flooding and water logging during monsoon and also Possibility of landslide, earthquake and Natural Disaster.
	Is the project area adjacent to or within any of the following environmentally sensitive areas?				
	· Cultural heritage site (historical, religious, traditional, or cultural significance)				
	• Protected Area (National Parks, Wildlife Reserve, Hunting Reserve, Conservation Areas, and Buffer Zones etc.)				
2	· Wetland/Ramsar Site/Simsar		√		
	· Forest				
	Special area for protecting biodiversity/interest				
	• Breeding/nesting ground of wildlife/occurrence of migratory species				
	· Migration route/Wildlife corridor				
	• Any site of national or international importance				
3	Likely impact on trees (including Timber & fruit bearing) and vegetation cover		\checkmark		No any trees should be removed but there are some bushes and vegetation that has to be removed for the site clearance.
4	Possibility of degradation of land and ecosystems of surrounding?		V		Partial settlement area, during field observation, there is no any major unstable surface found but in one section existing land slide (Ch 1+900) were observed and this is not active. The road lies in hill & plane area. Thus, there is less

SN	Particulars	Yes	No	Can't Say	Remarks
					chances to degradation of land and ecosystem.
5	Is the project area densely populated?			Partial	Rural settlement along alignment.
6	Heavy with development activities/big industries nearby & type?		\checkmark		
7	Alteration of surface water hydrology of waterways due to the project resulting in increased sediment in streams affected by increased soil erosion at construction site?		~		
8	Chance of deterioration of surface water quality due to silt runoff and sanitary wastes from worker-based camps and chemicals used in construction		~		
9	Does the sub project require significant extraction of surface or ground water?		\checkmark		
10	Increased risk of water pollution from oil, grease, fuel spills and other materials		\checkmark		Temporary impact during construction/Upgradation
11	Impact on water quality due to release of sewage/sludge?		\checkmark		No sewerage connected to storm water drainage
12	Possibility of flooding due to sewage		✓		
13	Possibility of increased air pollution during preconstruction/ construction/ operation phase?	~			ESMP measure applicable
14	Other pollution concerns relating to inconveniences in living conditions that may trigger cases of upper respiratory problems?	~			ESMP measure applicable
15	Risks and vulnerabilities related to occupational health and safety due to physical, chemical, biological hazards during project construction and operation	~			ESMP measure applicable
16	Noise and vibration due to blasting and/or other civil works?	~			ESMP measure applicable
17	Possibility of poor sanitation and solid waste disposal	~			ESMP measure Applicable
18	Creation of temporary breeding habitats for diseases such as those transmitted by mosquitoes and rodents?		~		
19	Accident risks associated with pre construction, construction & operation phases of project				Temporary impact during construction/Upgradation, ESMP measure Applicable
20	Large population influx during project construction and operation that causes	yes			The rise in outside workers is expected to put strain on

SN	Particulars	Yes	No	Can't Say	Remarks
	increased burden on social infrastructure and services (such as water supply and sanitation systems)				already-existing natural resources including water, food supply, and educational facilities as more people move in during the construction phase. Contractors are requested to use local worker
21	Risks to community health and safety due to the transport, storage, and use and/or disposal of materials such as explosives, fuel and other chemicals during construction and operation?				Only brings short term impact during construction, ESMP measure Applicable
22	interference with other utilities and blocking of access to resource/utility				Only brings short term impact during construction, ESMP measure Applicable
23	Generation of solid waste and/or hazardous waste during construction/ operation of project?				Solid waste and/or hazardous waste during construction/ operation are expected but it has Only brought short term impact during construction

Checklist for Social Screening

SN	Particulars		Details/Remarks	
1	Proposed Site Location		Tanahu district, Gandaki Province of Nepal	
	а	Land requirement for the project	It is an up-gradation of existing road. Existing road width is enough for the upgradation works. So, no additional land is required. (The RoW of this road is 12.19 m (40Ft.). The RoW was declared in 2058 BS by municipality through public dissemination of guideline name as "Building and plan guidelines 2058") For exceptional cases, the construction width of the proposed road is reduced up to 6m due available the narrow road width) the details presented in Annex III.	
	b	Landownership of the project area: Govt. / Private lands	Land within the proposed road construction width is already in use by the public. As per discussion with locals and municipality, there is no any outstanding issues related to grievance, compensation etc.	
	с	Is the project requiring acquisition of Govt. land/structures? If yes please mention the area of land, number of affected structures, Households	No	

SN		Particulars	Details/Remarks	
		Present use of Govt. Land that will be used		
	d	for the project activities with	No	
		Is the project requiring acquisition of private	No	
	0	land/structures? If yes please mention the		
	C	area of land, number of affected structures,		
		Households		
	f	for the project activities with	Public use	
		Persons/Households using		
		ü Agricultural purposes		
		ü Residential purposes		
		ü Commercial purposes		
		ü Other purposes (Indicate)		
		Is the project require relocation of	No	
	g	encroachers/squatters		
		If yes please elaborate number and nature		
		Is the project requires relocation of community facilities/Govt establishment or	Ves (Electric poles and water supply pipelines	
	h	any object that are of religious, cultural and	are likely to affected)	
		historical significance	······································	
		Proposed project located in an area where		
		residents are-		
	i	· All Mainstream		
		· All Indigenous peoples	Majority Mainstream peoples.	
		• Majority Mainstream or Non-indigenous		
		· Majority Indigenous peoples		
2	Pot	ential Social Impacts- Will the Project cause		
		Involuntary resettlement of people?	No	
	a	(Physical displacement and/or economic		
		displacement)		
		Impacts on the poor, women and children,	There is no adverse impact to poor, women, children Indigenous Peoples or other	
	b	Indigenous Peoples or other vulnerable	vulnerable households in the project area.	
		groups?		
	с	Will community facilities require	Yes (Electric poles and water supply pipelines	
		Will the sub project disturb any traditional	are likely to affected)	
	d	activity on adjoining or nearby?	No	
	e	poor sanitation and solid waste disposal in construction camps and work sites	Influx of individuals is expected while	
			construction is underway. The pressure on	
			water, food supply, and the solid waste system	
			is projected to increase as the number of	
			employees rises. Contractors are suggested to	
			use local worker during construction	
SN		Particulars	Details/Remarks	
----	---	---	---	
	f	Possible transmission of communicable diseases (such as STI's and HIV/AIDS) from workers to local populations?	Yes, Orientation and awareness to the workers and community to mitigate the impacts	
	g	Large population influx during project construction and operation that causes increased burden on social infrastructure and services (such as water supply and sanitation systems)?	Pressure upon existing natural resources such as water, existing food availability, existing educational facilities are likely to be affected with the increase in the number of outside workers	
	h	Social conflicts relating to inconveniences in living conditions where construction interferes with preexisting roads	The primary sources of income for the project's people are businesses, agriculture, and livestock. Other activities, except commercial activities, shall not be impacted by excavation and construction activities along the project area during the project construction works. While the commercial operations will be strengthened and multiplied during the implementation phase	
	i	Describe any other impacts that have not been covered in this screening form		
	j	Describe alternatives, if any, to avoid or minimize displacement from private and public lands	No displacement of private and public land is required	
	k	RAP/ARAP Requirement	Not required	

Annex II: Minutes, Public Notice and Letters

ROW Declaration Letter



भूमिका

वित्र शहरीकरणको गतिमा लोग्करहका ज्यान नगरपालिकामा विकिन्न प्रयाजनको निमिन भवन निर्माणका गतिबिधिहरू एव शहरी सुविधाका मागहरू दिनानुषित बच्चे गडरहेको पाइन्ड । ्य सन्दर्भमा सहरका नीशिक विकासलाई योजनावद देगवाट और वदाउन यस और पनि स्थानीय प्रयासद्वारा शाहरी विकास परियोजना (wille) को सहयोगमा व्यास नगरगालिकाको गुकिल्ल कार्यग्रानक गाजना तमार गरी कार्यात्मसम्ब समल गरिशकिएको छ । एफिक्टन कार्यमलक योजनाले दिएका नीतिक विकास सरकान्द्री विविध प्रधानस्ताई याजनाबद्ध इमजाट कार्याल्ययन गरी अधि वजाउम भवन निर्माण एवं योजना सम्बन्धी सापदण्डलक तमार गरी कार्याव्ययन गरिनु आवश्यक हुन अंद्रेवद्धः । शहरभित्रका कुनैपनि जग्गा जववा व्यममा यन्ते जपनका उपनाम या उपनाममा परिवर्तन लगायल करता ठाउँमा करता सालका उपभागका निमिल स्वीकृति दिने वा महिने सरने रालको पाणप्रान योजनाभग्र शाहरी विकासका विभिन्न आपत्र्यक पदेख तन शाहरी क्षेप्रांतल अञ्चयस्थित तथा घनारूपथा भवनारू मात्रे लवभाई स्वच्छ जानावरण मधन तथार गर्भको निधिन थिभिन्न फिसिमका पायधानहरूको पनि आधन्यकता हुन जान्छ । घडरी भित्र धन्ने निर्माणको प्रकृति, भवनका रूपरस्वालाई वियव्यया विदेशन गरी नगरवासीहरूका गाण्यता, सुरक्षा, सुगमता, स्वास्थ्य सरमफाई तथा समुख्य नगरका सुम्बरता आदि जस्ता संवदनशील पक्षलाई भवन निर्माणको कनमा समेहन समत भवन सम्बन्धी मापरण्डका आवश्यकता परेख । मापरण्डमा भविष्यमा रुउफ चौडा गर्न मॉकने पांचपान रहीम एवं सवा सुविधा विस्तार मने संकियोस अन्ताको हैए मंडक अधिकारक्षेत्र लगायलका पावधानहरू पनि संघावेश गौरएको छ । जन्म, सिभिल खोल साधन अगळी परिप्रेक्षमा तर्नपत्री नगर क्षेत्रभित्र जून क्षेत्रमा पूर्वाधार एवं सेवा सुविधा कलकन चरणमा वियनार गर्द जैजाने जसवाट चरणसदा शहरी विकासको निमित्त देवा पुरन सज़राह भग्ने पक्ष सहत्वपूर्ण VICTOR 1

समग्रमा हथा, एकालफं नगर धार्वभित्रका सिमिल एवं भहंगा जग्गा नगरवासीको अवस निर्माण वा जग्गाको उपभोग सम्बन्धी हक संग गरिएको दक्षिन्ध भने अकौलपं जिने नगरवासीहरूको निमित्त स्वच्छु शहरी वागावरण तयार गरी सिमित मान साधनको परिधालनजाह अधिकनम स्था सुविधा प्रदान गर्नुपर्ने ठढ्रवारी आवश्यकता रक्षा पर्दर्छ । लसचे धारत नगरपालिकाको अचक प्रयास तथा विभिन्न सम्बन्धित निरुधय पुढिजीवी, राजनीतिकानी संगजसंबीहरूको सल्ताह सुकाव जनुमार या भवन तथा यात्रचा माध्रवण्ड नयार गरी कार्यान्वयन्छा निर्धयत्र औध सारिएको छ । नगरवासीहरूवार या माध्रवण्ड नयार गरी कार्यान्वयन्छा निर्धयत्र औध सारिएको छ । नगरवासीहरूवार या माध्रवण्डका समुधित पालना भई याजन-दक्ष अन्दर्श विकायमा देवा पुऱ्यादन महत्याग पुग्न छ वस्ते विश्वासका साथ व्यास नगरपालिका यह तपरपालिकालाई 'स्वच्छू, सफा, सुन्दर' बनाउन सद, तरपर हाने पुनिबद्धना जाहर प्रदेष्ठ ।

व्यास नगरपालिका

आभार 🤞

२०४९ सालमा गठित व्यास नगरपालिकाले ४९ वर्ग कि.मी. क्षेत्रफलमा फीलिएको पूर्णतया ग्रामिण क्षेत्रको आधारभूत भीतिक संरचना निर्माण पार्ने र भीतिक सुविधा विस्तार अएका कारण दमौलीमा अद्दै गएको आवादी र वर्गावासले निरत्याएको शहरी समस्याहरू व्यवस्थित इंगले सनाधान गर्ने दुई चुनौतीपूर्ण कार्यको जिम्मेवारी पाएको छ । तमौली पृथ्वीराजमार्यको तल्ता भाग शहरी विकासको अवधारणा अनुसार ठाउं ठाउंमा चीक, गल्ली तथा खुल्ला ठाउँ सहितको योजना बनाई शहरी विकास योजना तपार गरिएको भएतापनि अन्य बांकी सबै भाग आफ खुली आआफूनै सुविधा र रूची अनुसार अनियन्ति ढंगले उपयोग गरको पाइन्छ ।

यस नगरपालिकाको ग्रामिण शेषहरूलाई स्थानीय जनधाहना अनुसारको भौतिक पृयोधार निर्माण गर्ने, स्थानीय श्रोत साधनको अधिकतम परिपालन तथा उषित भू-उपयोगका आधारत स्वाबलग्वी, आत्मनिर्भर, समुदायको निर्माण गर्दै कमिक रूपले शहरी व्यवस्थापनतर्फ उन्मुख दर्न सांच नगरपालिकाको रहेको छ । शहरी व्यवस्थापनमा देखा गरेका बटिलता तथा व्यवधातनाई समयमै हटाई सानै भएपनि सुन्दर, मुविधायुक्त व्यवस्थित नगर निर्माणको सुखद अवधारणाताट यस नगरपालिका अभिग्रेरित छ ।

यस दस्तावेज निर्माणका सन्दर्भमा विगतमा न.पा.ले पारित गरेका निर्णयहरू, श्री १ दो सरकारको नीति निर्देशन भवन तथा योजना मापदण्डका आधारहरू, udle को परामर्श सवा, विभिन्त नगरपालिकाहरूको दस्तावेजहरू तथा समसामयिक अनुभवहरूका आधारमा या दस्तावेज तैयार गरिएको है। । भवन तथा योजना मापदण्ड मार्मित २०१८ को सक्य पहलकदमीमा स्थानीय नगरवामी, जुडिजीवी समाउसेवीहरू, उद्योग वाणिज्य संघ, जिल्ला स्थित विषयविज्ञ अभियनाहरू, न.पा. बोर्ड तथा नगरपारिपट समावसे राय सल्लाह, सुभगवहरू समावेश गरी थे। मापदण्ड २०१८ विमीण गरिएको हो।

मापदण्ड निर्माणका कममा व्यास नगरपालिकाका प्रमुख श्री धुव वाग्लेज्यू तथा उपप्रमुख श्री तमवहादुर दरैज्यू विशेष धन्यवादका पात्र हुनुहुन्छ । त्यसी स्थानीय प्रयासदारा शहरी विकार परियोजना (udle) का प्लानर श्री अर्जुन कांडराला तथा श्री इंज्वर जोशीज्यू पनि धन्यवादका पार हुनुहुन्छ । उहाँहरूको अमुल्य सल्लाह, सुकाव, सहयोगजाह नै यस भवन तथा योजना मापदण्ड २०१६ में मूर्वरूप लिएको हो ।

व्यासं नगरपालिकाका परिषद् मदस्यज्युहरू, मल्लाहकारज्युहरू, बोर्ड मदस्यज्युहरू, विभिन्न मरकारी निकायका प्रमुखन्युहरू, व्यासं नगरपालिका कार्यालयका संचिवज्यू लगायत कर्मचारीहरू पनि धन्यबादका पात्र हुनुहुन्द्र ।

यस दस्तावेजमा देखा पर्न सबने कमीकमजोरी, व्यवहारिक जटिलता, अप्रपटता र विध्लेषण हुन बॉकी रहेका पक्ष तथा आदि थिथिध क्षेत्रमा देखा पर्न सबने समसामधिक व्यवधानहरूलाण आगामी वर्षहरूमा कमिक रूपले सुधार र परिमार्जन गर्दै लैजानु आवश्यक ठानेका छी ।

धन्यवाद !

<u>भवन तथा योजना मापदण्ड गॉर्मात २०१८</u> समुन्द गोदार संयोजक रामचन्द्र वस्तेत सदस्य मायानाथ कोइराला ...

जा.सी. रविन्द्र ताल सुल शहरी थांजना उपशाखा औ.सी.राजेन्द्र अर्थाल पीजना तथा प्राविधिक शाखा नमप्युटर अ. गोकर्णराज वाग्ल (सहयागी)

विषय सूची

भूमिका	
 परिचय १.१. मापदण्डको नाप 	
१.२. मापदण्डको गहण १.३. मापदण्डको अधिकार देख	
९.४. मापरण्डको संशोधन	
१.४. मापदण्ड सम्बन्धी पंशासन्	Ì
२. म्-उपयोग क्षेत्र	
२.१. व्यापारिक आवासीय होत्र (क)	
९.९. व्यापारिक आवासीय क्षेत्र (छ) २.३. आवासीय क्षेत्र (क)	ġ
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२.१०. और्योगिक क्षेत्र	2
 अवन मापदण्ड अवन जावतको निमित्त प्रवेशको माध्यम ५ घंडरीको व्युननम श्रेषफल गढक अधिकार क्षेत्र संदृष्याक १ संदृष्याक 	· UUUUUUUUUUUUUUUUUUUUUUUUUUUUUUUUUUUU

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३.११. पाकिंहत	में व्यवस्था
३.१२. नदी ए	वे कलोको किनाराबाट त्यादवर्ण की
1.92 antit	प्रकारका भवनहरू
३.१४ भवन	बनाउने अनमति लिगेको जामि विकेस कि सम्बद्ध होते
गोजना भाषाला	१३ विंग विंगवेल जागि निवदन दिन सामान्य निदर्शन १३
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ः लागि ल	धत्र विस्तरिको पार्थासकता एवं पुत्रीधार तथा सेवा सुविधाको व्यवस्थाका गानीको जिप्प्रेवारी
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र.७. भन्याङ्का	फ्लाइटको चोडाइ
र.=. मुख्य प्रा	वेशमागका चोडाई
४.९. भवनका	बाहिरी पद्यालदेखि बाहिरपट्टी वार्दली खुला भ-याङ आदि निमाण २०
४.१०. पट्राल	पम्पको निर्माण
२.१९. निमाण	मामग्री
र.१२. विज्ञापन	सम्बन्धी बाइंहरू
र.13. मापरवड	वर्ग व्यास्या
<u>तिल</u> का	
ालका न.भ	सडक अधिकार धेच (यहागन,
गलका न.२	स्वीकृति दिन मंकिन अधिकतम गाउगड कभरेज
ालका मुः	म्बीकृति दिन मॉकन अधिकतम ताला महत्या र भवतको उन्हाले 👘
धलका न ४	मुख्य मृन्यपंगम क्षेत्रमा जग्मा तथा भयनको जपभामको भौतिनेव
ालका न र	शहरी होव विस्तारको पार्शामकता एव प्रयोधार तथा सेवा सुविधाका
वशा	10
बना नं ५	lizzy of thereiner the
2007	गुण्म मुडगयाम द्वी
	ALLEVER, stall allevery software senses

१. परिचय

नगरक्षेत्रको सौन्दर्यकरण तथा चातावरण सुधार गरी व्यवस्थित विकासको लक्ष्य जाल गर्न उक्त क्षेत्रमा गरिने भवन निर्माण कियाकलापहरू तथा भु-उपयोगमा गरिने कियाकलापहरूलाई सुनियोजित गर्नुका साथै नियन्त्रण गर्न आधारभूत साधनको रूपमा भवन र यात्रना मापदण्ड हुन आवश्यक ठानी नगरको सौन्दर्यकरण, चातावरण लगायत नगरचानीहरुको सुरक्षा, स्वास्व्य, सरसफाई तथा गोण्यतालाई समेन ध्यानमा सन्ती या विनियम तयार गर्न चान्द्र्यत्रीय अण्यति:

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नियम कानूनको अभावमा जग्गाधनीहरूले आफुना इच्छा र आवश्यकता अनुसार भवनहरू बनाउने हुँदा बढ्दो जग्गाको मुल्यले गर्दा जग्गाधनीहरूले पाएसम्म सम्पूर्ण रुभिन ढाकिने गरी वा आवश्यकता अनुसारको मात्र त्युनतम साली ठाउँ छोड्ने तथा सकंसम्म बढी तला हुने गरी भवन निर्माण गर्दा वस्तीहरू अस्वस्थकर, असुरक्षित तथा असुर्विधायुक्त हुन उन्ने हुँदा यस्ता किसिमका कियाकलापहरू तथा नगरवासीहरूलाई अनावश्यक लगानीवाट बचाउन वान्छुनीय भएकोले

स्थानीय स्वायत्त शासन एन, २०११ का परिच्छद्व ४ मा नगरपालिकाका सम कर्तव्य र अधिकार अन्तगंत दफा ९६ (ख) मा भौतिक विकास सम्बन्धी कार्यको उल्लेख भाको र परिच्छेद ९ अन्तगंत भवन निर्माण सम्बन्धी व्यवस्था गाँरएका कान्नी पावधानको आधारमा दफा ९१ (१) (ज) बमोजिम व्यास नगरपालिकाको एधारो नगरपरिपदबाट स्थीकृत भई यो भवन तथा योजना मापदण्ड विनियम २०१६ तर्जुमा गरिएको छ ।

१.१ विनियमको नाम

यो विनियमको नाम "भवन तथा याजना मापदण्ड विनियम २०५८, व्यास नगरपालिन्छ" रहेको छ ।

१.२ विनियमको ग्रहण

व्यास नगरपालिका बोर्डवाट सिफारिस भई व्यास नगरपालिकाको ५५ जे नगरपरिषदबाट समेत स्वीकृत भई यो विनियम राहण अएको छ । यो विनियम सार्वजोनक गराई जनसाधारणलाई यसबारे जानकारी गराउने जिम्मेवारी व्यास नगरपालिकाको हुनेछ ।

१.३ विनियमको अधिकार क्षेत्र

या विनियमको अधिकार क्षेत्र व्यास नगरपालिकाका भौगोलिक निमाना भित्र रहेका छ

१.४ विनियमको संशोधन

यस थिनियममा संशोधन गर्न आवश्यक भएमा संशोधनका अंशहरू व्यास नगरपॉलका बोडेमा छलफन भई सा बोर्डको बहुमनद्वारा संशोधनको निमित्त नगर पॉरंग्द्र समज्ञ पेश गर्न संकिन छ ।

१.४ विनियम सम्बन्धी प्रशासन

कुनैपॉन निजी, अर्ध सरकारी वा सरकारी म्यामित्वका घंडरी जग्गामा या सार्वजनिक जग्गामा कुनै प्रकारको भू-उपयोग वा वृत्यात्रज्ञाप प्रसाखना गर्न वा परिवर्तन गर्न, जग्गा, घंडरी टुका गर्न,

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सडक अधिकार क्षेत्र (बडागत रूपमा)

र्गान व	हा नं.९ (ग)	तनहुँ, दमौली सडक अधिकार क्षेत्र			
इ.स.	सडकको नाम	दस्ति ∕ सम्म	संडक अधिकार क्षेत्र (फ्रंट)	कैफियत	
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9	CI	बुल्दीखोला रानीगाउँदेखि पोल्याङ्गसम्म	30.0*	3 1477	सटव्याक
	C2	सेवरको घुम्ती, बोटेखोल्सीबाट रानीगाउंसम्म	2010"	३ फिट	संटब्याक
an .	C3	रानीगाउँबाट शिवालय ऋषि चांक गेडावारी हुरै दर्भ पंधेरा मुल्तिर सम्म	20.0"	३ फिट	संटथ्याक
X	C4	पोल्याङ, घोसीकुवा फराकचौर पोखल फोट मार्गबाट सकण्डे बराइसम्म	30.0*	3 PhZ	संरज्याक
v	CS	रम्मीचौरवार निर्व वराहसम्म	20.0*	३ फिट	संटब्याक
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0	C6	ढकाल खाल्मी (तालघर, दुम्मीचीर पार्खनफाट मार्गवाट) कोकले डाँडा पोर्खरीसम्म	\$0°.0"	३ फिट	संटब्धाक
п.	C7	घासीकुवा फराकचौर पोखेलफाट मार्ग शेरा देखि स्कूल इटै बल्दीखोला न पा. सिमाना सम्म	20:0*	३ फिट	सेटव्याक

- 66 -

Letter from District Police Office (Women, Children cell, citizen service center)



विषयः – विवरण उपलब्ध गराईएको सम्बन्धमा।

श्री व्यास नगरपालिकाको कार्यपालिका कार्यालय,

दमौली,तनहँ।

प्रस्तुत बिषयमा ताहाँ कार्यालयको च.न. ८८६, मिति २०८०।०६।११ गतेको पत्र सम्बन्धमा ताहाँ कार्यालयबाट माग भए बमोजिमको आ.व.२०७७/०७८ देखि आ.व.२०७९/०८० सम्मको घरेलु हिंसा, महिला बालबालिका तथा जेष्ठ नागरिक सम्वन्धी हिंसाको विवरण खुलाई पठाईएको व्यहोरा जानकारीको लागी अनुरोध।

प्रहरी सहायक निरीक्षक

(सिर्जना नेपाली)

१. चालु आ.ब.०८०/०८१ मा घरलुाहसा उजुरा तथा लागा मध्य छला निवेदनको प्रकृति	निधेदन संख्या	मिलापत्र भएको	अदालति प्रकुयामा गएको	काम बांकी
घरेलु हिसा उजुरी (शारिशिक यातना,मानसिक यातना,आर्थिक यातना,यीन	99	6	*	3
त्रन्य वातना) श्रीमान पिडित भएको (श्रीमतीको परपुरुष संगको सम्बन्ध तथा घर छाडि	0	0	0	0
हिड्ने, भनेको नमान्ने)	99	6	8	3
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महिला बालबालिका तथा जेष्ठ नागरिक सेवा केन्द्रबाट सम्पादन गरेको कामकार्बाही विवरण

२. घरेलुहिसा निवेदन तथा अन्य ठाडो उजुरी सम्बन्धी त्रिबर्षिय तालिका

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मिति :-२०८०।०६।११ गते।

Municipal letter related to GBV, SEA/SH cases

व्यास नगरप ांगर कार्यपालिका महिला बालबालिका अपाइगता तथा ज्येष्ठ मागरिक वसाला, तम गण्डकी प्रयेज्ञ मेपाल \$30.020 -: H.P 前日にそっとのにもえを 4.4- 22e थी जिल्ला प्रहरी कार्यालय. महिला बालबालिका तथा ज्येष्ठ नागरिक सेवा केन्द्र, तनहं। विषयः- विवरण उपलव्ध गराईएको सम्वन्धमा। उपर्युक्त सम्बन्धमा जिल्ला प्रहरी कार्यालय तनहुंको मिति २०८०/५/१० च.म. ३६१को पत्र प्राप्त में व्यतीय अनगत भयो सम्बन्धमा यस व्यास नगरपालिका अन्तर्गत जिल्ला सेवा केन्द्रमा (माठीगंगा महिल) बहुउवेस्योप सहकारी सम्प्रा लि । व्यास अच्छालित जिल्ला सेवा केन्द्रमा निम्न आ.व.हरुमा निम्न बमोजिमका सेवाहरु प्रदान गरिएको व्यहीस अनुसेध छ । लैङगिक हिंसा, शोषण, विभेव, कुगैति तथा कुप्रथा पिडित र प्रभावितको महत. उद्दार, पुनरस्थायना, मनोसामादिक प सेवा कार्यक्रम संचालन गर्ने। मनोसामा दिकाला मर्छ । उद्दार गरिएका पिडितको संरक्षण तथा पुनस्थापना राहत प्रदान गरिएका आ.च. प्रदान गरिएका विडितक गरिएका पिडितको संख्या संख्या च्चे ह ज्ये.ना. महिला चा.जा. क्ये,ना महिला बा.बा. महिला बा.बा. ज्ये.ना. 3 22 R 4 \$ 40 23 X ó. 0 055/036 6 5.8 4 43 Ro 9. 8 2 0 8 28 3 8001000 0 ą 8 9.9 あた 3 22 9 4 24 0 038/60 1 0

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Letter from stakeholders (NEA)



श्री व्यास नगरपालिका, दमौली, दमौली मिसि:२०६०/०६/१३

विषय : जानकारी गराईएको सम्बन्धमा ।

प्रस्तुत विषयमा त्यस कार्यालयको मिति: २०६०/०६/१३ गते, प.सं. २०६०/०६९, च.सं. १४६६ को पत्रबाट व्यसोरा अवगत भयो । उक्त पत्रमा उल्लेखित सडक निर्माण गर्दा सडकको बीचमा पर्ने पोलहरु लगायतका बिधुतिय संरचनाहरु स्थानान्तरण गर्न यस कार्यालयबाट ने.बि.प्रा., बिधुतिय संरचना स्थानान्तरण सम्बन्धी कार्यविधि , २०७६ अनुसार सहयोग गरिने व्यहोरा अनुरोध छ ।

ई.विजय राज रेग्मी वितरण केन्द्र प्रमुख ्राज्य मगुरू

Public Notice for ESMP Preparation



सुचना

स्चना

सुचना प्रकाशित मिति:- २०⊂०।०६१९० सुचना

विश्व बैकको आधिंक सहयोगमा शहरी विकास तथा भवन निर्माण विभाग ९मम्बच्च०, नेपाल शहरी शासकीय तथा पुर्वाधार आयोजना (NUGIP) मार्फत स्तोरन्नती हुन लागेको यस तनहुँ जिल्ला व्यास नगरपाक्षिका वढा नं. ७, ९, १०, र ११ मा पर्ने पराशंर मार्ग (बुल्दीखोला, बेल्टारी, फराकचौर, अधेरीभञ्याङ पोखोलफाँट, कुमालगाँउ, शेसम्मटार, कलेस्ती) १०.११० कि.मि. लम्बाई भएको सडक खण्डको स्तरोन्नति गर्ने भएको छ । यसै सिलसिलामा उक्त सडक खण्डको विस्तृत परीयोजना प्रतिवेदन तयारीका घरण गरिने वातावरणिय तथा साकाजिक व्यवस्थापन योजना ९भ्वए० तयाग्रिका लागि परामर्शदाताका म्वस्ट त्मक, नगरपालिका र आयोजनाबाट प्रभावित हुने बासिन्दा/जग्गा धनिहरुका विच निम्न उल्लेखित स्थान र मितिमा हुने विस्तृत छलफल तथा अन्तरकुया कार्यक्रममा उपस्थित हुनका लागि सम्बन्धित सबै सरोकारवालाहरुलाई सुचित गरिन्छ ।

<u>अन्तरक्या हुने भिति र स्थानः</u> मिति: २०८०/०६/१३ समय: १९:०० वजे । स्थान: बेल्टारी

गंगा लाल सुवेदी प्रमुख प्रशासकीय अधिकृत

"পুরুষ্ণ হরিরার্টা সংখনা নির্মাগ गरी, মধ্যমির হার্টাপ্রান্ত মধ্যী र মধ্যার্থ।" Phone No. 055-560162/560163. Fax No : 977-65-560233 Email: vyasmunicipality@gmail.com Web:www.vyasmun.gov.np

Formation of GRM (1st Level)



श्री नेपाल शहरी शासकीय तथा पूर्वाधार आयोजना, शहरी विकास तथा भवन निर्माण विभाग, ववरमहल, काठमाण्डौ ।

बिषय :- प्रथम तहको सुनुवाई समिति (Grievance Redress Committee) गठन सन्यन्धमा ।

महोदय.

उपरोक्त विषयमा यस नगरपालिकामा संचालन हुने नेपाल शहरी शासकीय तथा पुर्वाधार आयोजना (NUGIP) अन्तर्गत निर्माण कार्यन्यवन हुने सडकको निर्माण अधि र निर्माण कममा कुनै पनि प्रकारका समस्याहरु गुनासाहरु आए सो समाधानका लागि आयोजनाको मापदण्ड अनुसार तपसिलमा उल्लेखित प्रथम तहको गुनासो सुनुवाई समिति (Grievance Redress Committee) को गठन यस नगरपालिको मिति २०६०।७२२ को नगरपालिकाको बैठकको निर्णय अनुसार भएको ब्यहोरा जानकारी गराइन्छ ।

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	TT 14 T-14

"अक्रम्य धतिरोधी सरचना निर्माण गरी, सम्भावित प्रकोपमाट मणी र मणाभी"

Phone No. 055-550162/560163. Fax No. 977-65-560233 Email: syasmunicipality or gmail.com. Websweek syasmatigov.np



सुचना

स्चना

मिति २०६०/०७/२२ गतेका दिन यस व्यास नगरपालिकाका नगर प्रमुख वैकुण्ठ न्यौपाने ज्यूको अध्यक्षतामा बसेको बैठकले विश्व बैकको आधिंक सहयोगमा नेपाल शहरी शासकीय तथा पुर्वाधार आयोजना (NUGIP) मार्फत स्तरोन्नति हुन लागेको यस तनहुँ जिल्ला व्यास नगरपालिका बढा नं. ७, ९, १०, र ११ मा पर्ने पराशंर मार्ग (बुद्धीक्षोला, बेल्टारी, फराकचौर, अधेरीभञ्याड पोछोलफाँट, कुमालगाँउ, शेसम्मटार, कलेस्ती। १०,४४० कि.मि. लम्बाई भएको सडक खण्डको निर्माणका अबधिमा आउने गुनासाहरुको अध्ययन गरी स्थानिय स्तरमानै समाधान गर्ने आयोजना स्तरमा बढा नं. ११ का वडा अध्यक्षय श्री दल बहादुर दुरा ज्यूको संयोजकत्वमा निम्न उल्लेखित व्यक्तिहरु रहने गरी एक गुनासो सुनुवाइ समिति (GRC) गठन गरिएको बारे सम्बन्धित सबैलाई जानकारी गराईन्द्र । साथै आयोजना सम्बन्धि कसैलाई कुनै किसिमको गुनासो भए उल्लेखित युनासो सुनुवाइ समितिमा मौखिक वा लिखित रुपमा जानकारी गराउन हुन अनुरोध छ ।

सुचना प्रकाशित मिति:- २०८०।०७२४

स्चना

तपसिल :

 भी दल बहादुर दुरा, बडा अध्यक्षय 	संयोजक
२) श्री नीला धिमिरे, कार्यपालिका सदस्य	सदस्य
३) श्री ईश्वर पौडेल, वडा सदस्य .	सदस्य
४) श्री सन्तोस जि.सि, वडा सदस्य	सदस्य
४) श्री नवीन पराजुली, सामाजिक विकास शाखा	सदस्य
६) ई. रोचक क्षेत्री, NUGIP हेर्न इन्जिनियर	सदस्य
७) डा.राजु पौडेल, सिनियर इन्जिनियर योजना तथा पूर्वाधार विकास शाखा	सदस्य सचिव

आमान्त्रित सदस्य :

सडक प्रभावित व्यक्तिहरुको प्रतिनिधित्व गर्ने महिला प्रतिनिधि १ जना	सदस्य
निर्माण व्यवसायीको तर्फबाट प्रतिनिधि	सदस्य
Consultant Design and Supervision Consultant- वातावरण-विशेषज्ञ	सटस्य
Consultant Design and Supervision Consultant - सामाजिक सरक्षण विशेषज	ALEXT.
Consultant Design and Supervison Consultant, abadant	adda

गंगा लाल सुवेदी प्रमुख प्रशासकीय अधिकृत

"भूकम्प प्रतिरोधी सरपना निर्माण गरी, सम्भावित प्रकोपबाट बभी र बभाओं" Phone No. 055-560162/560163. Fax No. 977-65-560233 Email: vyasmunicipality@gmail.com Web:www.vyasmun.gov.np



Letter of Municipality regarding Anti-Harassment Cell

7 7.363

मितिः- २०८०।०३।२८

श्री नेपाल शहरी शासकीय तथा पूर्वाधार आयोजना, आयोजना समन्वय, कार्यालय, बबरमहल, काठमाण्डौ ।

बिषय :- Anti-Harassement cell को जिम्मेवारी तोकिएको बारे।

नेपाल शहरी शासकीय तथा पुर्वाधार आयोजना बाट मिती २०८०/०३/१० को चलानी-३४१ को पत्र अनुसार उक्त आयोजना सँग सम्बन्धित लैङ्गिक हिंसा तथा यौन जन्य दुर्व्यवहार सम्बन्धी गुनासोहरुलाई अभिलेखिकरण तथा सहजीकरण गर्नका लागी यस नगरपालिकाको लैङ्गिक हिंसा हेर्ने व्यक्ति भेषराज तिवारी लाई Anti-Harassement cell को समेत गुनासो हेर्ने जिम्मेवारी तोकिएको ब्याहोरा अनुरोध छ ।

प्रमुख प्रशासकीय अधिकत

"भूकम्प प्रतिरोधी संरचना निर्माण गरी, सम्भाषित प्रकोषबाट बची र बचाऔ" Phone No. 065-563162/563163, Fax No.: 977-65-563233 Email: vyasmunicipality@gmail.com Web:www.vyasmun.gov.np



विषय: सिफारिस गरिएको सम्बन्धमा ।

श्री नेपाल शहरी शासकीय तथा पुर्वाधार आयोजना, आयोजना समन्वय कार्यालय ववरमहल, काठमाण्डौ

प्रस्तुत विषयमा विश्व वैकको आर्थिक सहयोग र नेपाल शहरी शासकीय तथा पुर्वाधार आयोजना मार्फत व्यास नगरपालिकाको वडा नं. ७, ९, १० र ११ मा आयोजना कार्यान्वयन चरणमा पुगेको र उक्त आयोजना सन्चालन हुने क्षेत्र यस व्यास नगरपालिका वडा नं. १० चरणमा (CH-5+900 to CH-8+500) अधेरीभन्ज्याङ् देखि पोखेलफाट कलेस्तीखोला सम्म सामुदायिक को (CH-5+900 to CH-8+500) अधेरीभन्ज्याङ् देखि पोखेलफाट कलेस्तीखोला सम्म सामुदायिक वन नपर्ने साथै कुनै किसिमको वाधा विरोध नभएको व्यहोरा सिफारिस साथ अनुरोध गरिन्छ ।

Socologiest.

"भूकम्प प्रतिरोधी संरचना निर्माण गरी, सम्भावित प्रकोपवाट वधी र वचावी" Phone No. 977- 9748434910 Email: vyasmun.ward10@gmail.com Web: www.yyasmu

Public Consultation meeting minutes

Stakeholder Consultation Nepal Urban Governance and Infrastructure Project (NUGIP) Vyas Municipality Tahanu

ESIA and ESMP of Ghashikuwa (Buldikhola)-Beltari-Andheribhamjyang-Pokhrelphat-Kumalgau-Sheshamtar (Kalesti) Road.

Attendance Sheet

Date: Loco/0	192 Venue 19 nonz R	Ward No. 0 Co
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Name: 400 400 - 21/2017 Contact No SC 2 50 500 82

Organization/Occupation: 257 STENT

Comments/Suggestions:

· शुंगात्तरीय, आयेदयाभित्र रहेर समय 'भित्र तिम्पन हुनु कर्मा । · वातात्वपूर्णिय पञ्चलार्ट ध्यान दियर ठार्म राम्पन जर्म । · स्थानीयलार्ट रोजगाएग प्राथभिठनामा रात्मि । · स्थानीय श्वर्म. सार्वज्ञालार द्यान दियर परियोजना हान्यात्न जर्म

Nepal Urban Governance and Infrastructure Project (NUGIP) **Vyas Municipality** Tahanu ESIA and ESMP of Ghashikuwa (Buldikhola)-Beltari-Andheribhamjyang-Pokhrelphat-Kumalgau-Sheshamtar (Kalesti) Road. Attendance Sheet Date: 2020-06-92 andon 3 Venue..... Ward No......S..... Contact No SZYEY E0209 Name: 2771 Ch 601 OMFM टोल अह्यम । Conzulat Organization/Occupation: कुमल गाउं होल विकार संस्था Comments/Suggestions: वारो काह जातेर ज्युनेको होरें गानी किर्माण कार्य प्रतिहोस भनेर आस द। मिर्माठामा शेजगारी इस परसी।

Stakeholder Consultation

• कारो तिर्माणामा शैपाणारी इन प्रस्ता। • कारो तिर्माणा गर्दा अरमफाईलाई विशेष ध्यान विद्यपत्वी।

Signature

Stakeholder Consultation Nepal Urban Governance and Infrastructure Project (NUGIP) Vyas Municipality Tahanu

ESIA and ESMP of Ghashikuwa (Buldikhola)-Beltari-Andheribhamjyang-Pokhrelphat-Kumalgau-Sheshamtar (Kalesti) Road.

Attendance Sheet

Date:	2020-08-92	Venue goardang	Ward No. S
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Name: 27 289721 249902 30101 Contact No 82289592 82

Organization/Occupation: 1872मान (अगमा अछह अट्यम] (याक्रिजाजीर आमा अछह)

Comments/Suggestions:

- ताते जुए दलर तन्तु परयो सार्व का हरि हुने अरी क्षामेन अर्ड परयो ।
- are किर्मान अएको अण्डमा फाम्रो वस्तीलाई फोहोर न वाने सार्थ करनो 33ेको स्वत्याउमा हिनको २ वटक पनि हाल्टिक परसो ।
- जारो क्रिलमा रोजगारी जाऊ।
- · वारो हिरो वन्छ परयो।



	Stakeholder Consultation
epal Urb	an Governance and Infrastructure Project (NUGIP)
	Vyas Municipality
	Tahanu

ESIA and ESMP of Ghashikuwa (Buldikhola)-Beltari-Andheribhamjyang-Pokhrelphat-Kumalgau-Sheshamtar (Kalesti) Road.

Attendance Sheet

Date: 2080-0.6-12 Venue AndheriBhandyong Ward No. 10

Name: Dhanne Kami Contact No 9807585716

Organization/Occupation Sundari - Gaura LiPling Khanepain (Adashya)

Comments/Suggestions:

- रवाने पानीला ह अमरप रेको व्वण्डमा स्वानेपानी पारण्लाई नलाई अर्जन्मत्मे ८ यहस्तीत त्र प्रा पुन निर्माण निन्छ जारिक पायी ।
- · अम्राई कापमा श्यानेपानी अभितीले पडपलाइनको ट्याठामाण्न अर्भे जाम्हने हो।
- विहाग 2 वेल्डकाकी समय आ पडपलाई जोडीएह मने इंटाइन पाएन।



Stakeholder Consultation Nepal Urban Governance and Infrastructure Project (NUGIP) Vyas Municipality Tahanu ESIA and ESMP of Ghashikowa (Bohlikhela). Beltari-Andherikhanijyang-Pokhreiphat-Kamalgar Sheehamtar (Kalesti) Boad. Attendance Sheet Core 2010/06/14 Sun venue Vyal-11. Nayabazatwine No 11 Contact No 9806634190 Name Kiron Nepali argumentorracounton Blooming Alademy / Principal Regular sporing of water to reduce dustand surder
 Flexibility of no horn system and speed limit
 In the school area espically during school hours.
 In case of doing contraction and using many machiner and bupments, would be very hulpful if wed during schools off hours and helidays. Stakeholder Consultation Nepal Urban Governance and Infrastructure Project (NUGIP) Vyas Municipality Tahanu ESIA and ESMP of Ghashikuwa (Buldikhola)-Beltari-Andheribhamjyang-Pokhrelphat-Kumalgau (4) Special attentive wourd BAM to JIAM and 3PM to Sheshamtar (Kalesti) Road. Attendance Sheet SPM. Date Birendro 200 06/98 Venue W2151 m 21 m Name: 2 Prozis 913 m Contact No 5582896225 Organization/Occupation AUTS / ASTRIM 20 Paras Comments/Suggestions: 2वाने धानी, पारीपॉना लगायतना ऑग्टिंग र्थस्वनाला िताके उने गरी वारो वागडेने 22-4777 (का (स्वातीपलाहि प्राधनिकेता किने)

Ward No. 99

Stakeholder Consultation Nepal Urban Governance and Infrastructure Project (NUGIP) **Vyas Municipality** Tahanu

ESIA and ESMP of Ghashikuwa (Buldikhola)-Beltari-Andheribhamjyang-Pokhrelphat-Kumalgau-Sheshamtar (Kalesti) Road.

Attendance Sheet

Date: 2000/06/98 Ward No. 99 Name: Tax arige with Contact No CCEEEVE966 Organization/Occupation: JETE/ Jacob 27 m Paging How

Comments/Suggestions:

- Comments/Suggestions: बार्टी गुठार्स्सिए २ न्याडी बन्हु क्यों / रवानेपानी र कुली (दुइस्ए वाप हुनो) नाई दिर्झाण जर्नु क्यों / सडढ वारी रारदन फर्यो / पुरुषण नियन्वन गरी परियोजना सञ्चालक जर्नु क्यों / पिर्वुप्रणेल पार्नुपर्न स्थानीयती रत्य निचार लिई मुाम जर्ति / भएना संस्वनालार्ड विजून महिई मुार्च स्टब्यालक जर्नु पर्ने /

- 200012/12

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Tahanu

ESIA and ESMP of Ghashikuwa (Buldikhola)-Beltari-Andheribhamjyang-Pokhrelphat-Kumalgau-Sheshamtar (Kalesti) Road.

Attendance Sheet

Date: 2080-06-13 Venue Damane Tol Ward No. 77

Name: Normalo Adhikani Contact No 9846853216

Comments/Suggestions:

- धुनो 33 जरिने, धुनो उटेकोग, दिनकी 2-3 परक पानी
- भिर्माण कार्य हुरा वल्ली जाएको ठाउमा सरस्फाई कार्डम हउ
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Stakeholder Consultation Nepal Urban Governance and Infrastructure Project (NUGIP) **Vyas Municipality** Tahanu

ESIA and ESMP of Ghashikuwa (Buldikhola)-Beltari-Andheribhamjyang-Pokhrelphat-Kumalgau-Sheshamtar (Kalesti) Road.

Attendance Sheet

Date: 2080-06-12 tarakchaur To) Venue. Ward No. 77

Name Indina Adhikari Contact No 9805852377

Organization/Occupation: Ward Sadashua

Comments/Suggestions:

• वाडी आहकोविला हामी वाहो सिन्ही नायको क्यो वाही क्रिमेंग जाही अल्दीरकोला, तमा क्रिवालय मा अनावार्य पुलको निर्माण जन्दपरय)

- सिवाइको कुली ट्यावरुआपन असिक पर्यो।
- २वानेपानी तथा विज्डली पोल साइटा इत्रातीय यंठा राघ मला ह (202 ma and 30013) a5730, 422)1
- . इक्राहिप लाई प्रयम प्रायमीकता रोजगाः हियोस



Signature:

Stakeholder Consultation Nepal Urban Governance and Infrastructure Project (NUGIP) **Vyas Municipality** Tahanu

ESIA and ESMP of Ghashikuwa (Buldikhola)-Beltari-Andheribhamjyang-Pokhreiphat-Kumalgau-Sheshamtar (Kalesti) Road.

Attendance Sheet

venue altaga utanos 272 Date: 2000/8/98

Name: PIX dela TEla Contact No 505305 2050

Organization/Occupation: GTENE (97707-) ENNTRY OF

Comments/Suggestions

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Public Consultation: FGD

SN	dees चिक्रे Name	নহন্থা প্রা Aহন্যা প্রা Organization/Title	3 - स्तात्रेली Contact no.	Signature
9.	झारह। प्रसाद वाउले	रक्रनेपानी उन्हेंभग	5076263645	- Indana
	ानेश वाहती	समिव	\$2+6054069	-121
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(S) (S) (S) (S) (S)) वारोबें, स्त वातावत्व लाइ स्तमअमा चोड़ वारोबों दावा स्तरकण जार्न उपमान्धरो रू	गर उत्तम ह दे स्वमेत रख गरा रतम्प्रटम वामा पूर्व पत्र प्रत	र्वने ब्लारारम् इत्रुवने पानीठाफा	জাস চাত ? হব চন্ত্র

Stakeholder Consultation Nepal Urban Governance and Infrastructure Project (NUGIP) Vyas Municipality Tahanu

ESIA and ESMP of Chushikawa (Iluklikhola)-Beliuri-Aadheribhomjyang-Pokkreiphat-Kumalgan-Sheshamtar (Kalesti) Road.

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3 N	Name	Organization/Title	Contact no.	Signature
1.	Viday Adhikan.	Adeshya	35402130872	am
Ø.	Rodhima woogie	Sochib	\$ 846517378	Tres
3	Loxman crimi	Sadashya		aft
н.	honesh wager	3-	9846031071	Xor
5	chandra babadur Dun		9811145187	0
6	Rampohadur porai			131
1.	Jagdish Adhirom		984645500	5-14-721.
8	Santosh wagle	3.	98468404	o what
9	Histor Danai	31	9805895554	and
10.	Bhaginali Davai			Martin
**	Nor Bohadun Adh Yori		· · · · · · · · · · · · · · · · · · ·	1000

Mor Bobadur Adu Yari
 Succession/Recommendations
 बाटे कार्डर जुलाहरूरिय उन्नु पत्यी ।
 बाटे कार्डर जुलाहरूरिय उन्नु पत्यी ।
 प्राते कार्डर छालीयहरूरिय उन्नु पत्यी ।
 पुन पुनेया कार्यडर पालीयहरूरिय उन्नु प्रत्यी कार्य कार्य उन्नि प्रत्यी ।
 पुन पुनेया कार्यडरा पालीयहर्त्व कार्य कार

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Stakeholder Consultation Nepal Urban Governance and Infrastructure Project (NUGIP) **Vyas Municipality** Tahanu

ESIA and ESMP of Ghashikawa (Buildikhola)-Beltari-Andheribhamjyang-Pokhrelphat-Kamalgan-Sheshamtar (Kalesti) Road.

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Venue:	ुमालका र्ड	

Attendance Sheet of FGD

Ward No: 5

SN	Name	Organization/Title	Contact no.	Signature
9-	रामकुठा कुमाल	94031/37100022	AR SCREATOCOG	Luly,
2.	सुविता कुमाल (%)	BALENET	Scorecius	Blow
g	হ্রনিনা কুচাক (হর)	Taran	5098595920	स्तानेग
8-	मन कुमारी काल	aster son st	5598922994	RINTERES
2-	अक्षिमामा कुप्ताल	क्षान्य	STOSGKYASS	-अनार्शा
z-	रण्नु कुमाल	(GFm	\$085608424B	Stard Barty
6	Alter Car Adam (25	M NGE	50665462	3ासिन
C	राज्यत तिमान्सिना	(14(98433855767	Feet
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Suggestions/Recommendations

Date: 2080/ 06/ 1.2-

- · बारेंग किर्माण जवालगीय युद्ध नगाउँने । अजनगारमा स्थात्रीयतार प्राथमिता दिने
- वारी-राडे कार्ड ।
- नातानरगताह शब्दो जोगाइन कर्ये
- मेल्सन का निरुवर
- ' हते तनजाउने

Stakeholder Consultation

Nepal Urban Governance and Infrastructure Project (NUGIP)

Vyas Municipality

Tahana

ESIA and ESMP of Ghashikuwa (Buldikhola)-Beltari-Audheribhamjyang-Pokhrelphat-Kumalgas-Sheshamtar (Kalesti) Road.

Signature	Contact no.	Organization/Title	Name	SN
57d5	98 ouiter 29	Toi Adasya	Globabahedun AlbKari	1
Jus.	980758574	Tol Sothik	Sharme Hami	2
tornu .	5846435423	Badashua	Probina Adhikani	2
143		Sadashua	milhumana Kumal	ч
Suld.	9217128663		Surp Roberty Ormuna	5.
Chiga	9803023638	Toj codeshina	Shive Baning	6.
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Suggestions/Recommendations:

• हिली उडन नहिते।

• जहानावी भोइर म ार्गे । • बर वहतीलाई इसी न इसे जारु वारो निकर्मण ज्ये । • जुरू दूर वारो व मार्गे ।

Stakeholder Consultation Nepal Urban Governance and Infrastructure Project (NUGIP) **Vyas Municipality**

Tahana

ESIA and ESMP of Ghashikawa (Buhlikhola)-Beltari-Andheribhamjyang-Pukhrelphat-Kamalgau-Sheshamtar (Kalesti) Road.

ate: 2080	/ / 06/ 12 Venue: / Dhainy (1786/	Attendance Sheet of FG Avidhum Bhandsong rini Kali Ha, Andrem Bhand alish ka Alama Samud	D pang MJACK,	Ward No: 10
SN	Name	Organization/Title	Contact no.	Signature
1 4	न्यरेन) नजीपन	310-131 / 100 - 100 - 100	SCAX16202T	anuer
2- 3	निता गुरुष्ठ	57 Erge / Santa Blom Sin 6 45	574952246	PATERNT 02
3- 3	JITER BAIL	STEWS/ STIMAT STITUS	5083560469	นามอ
8- 13	GHIHI STOP	सम्ह । ।	560.2728285	24 3
¥. 9	किमा काच्किमरी-	atternense /artis).	SURREZ KOR	- Justan
5- JI	ाता वि. इ.	845-111	5-205292.04	21100
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- Successions/Recommendations ह्रमीट उके 1
- न्ट्याइरवेली, तरहारी हमेति, खिलाइकराई जल्मा तालीमहरु उपलब्ध जहाई रच्छात्रीयको जावनस्तर उकारने ।
- तिखुनिय भो लह्युताई स्थापाल्लरू। जादी स्थानीयलहि जापडारी दिने । भौरति के स्टब्सा हरुजाह त्व्यलाई ने स्वलाइने के भरता पुर मिर्मे अग्रिक जियहिने

Stakeholder Consultation Nepal Urban Governance and Infrastructure Project (NUGIP) **Vyas Municipality** Tahana

Ward No: 31

ESIA and ESNP of Ghashikuwa (Bahlikhola)-Beltari-Andherihhamjyang-Pokhrelplut-Kumalgau-Sheshamtar (Katesti) Road.

Attendance Sheet of FGD Date: 2080/ 06/13 Venue: Bellarri

Bellari Tal Bikash organisolion.

SN	Name	Organization/Title	Contact no.	Signature
1	Bal bahadur uharli	Tol Adashya	9819/69951	gmera.
2-	Amon Bohadur Hhadka	Tol sadashya	984402951	Cat 1
3.	Sanscooli Khanal	11	985122305	242-00
4	Buna whom (i	9 1	9804117951	æ
5	Knishna Aale	46	9856019567	the
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Suggestions/Recommendations

- एम्ड चिस्त्र गरी टोन वि.स. एंग एमत्नम जर्म । 9
- धवा धुनो फुदुस्ततलाई शेक धाम गर्ने । भौतिक श्रांस्थना इंद्रको संनद्भणा गर्ने । de
- 2,
- एउठ निर्णाह गरी जनमाहि डाल्य्यन अरूवर्रे भएमा ह्यानिए खरुदाएनार प्रधानिका हो (मोजगारी क्रानागर्ने) 8
- रकात्रेपातीको स्टेरनना मन्द्रि महिजीते उत्ती हउठ निर्णाठ) गर्दछ 2 a mar D

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' गुरुक्त करी वन्त्र, मही।

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Consultation Minutes for Campsite and Stock Pile

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Minutes of Public consultations

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<u>निर्णय नं.¥</u>: प्रस्ताव नं.¥ का सम्बन्धमा छलफल हुँदा २३औं अन्तर्राष्ट्रिय आदिवासी दिवस ९ अगप्ट(२४ श्रावण) मनाउनका लागि रु. २,००,०००/(दुई लाख) शिर्षक नं. ६२ वाट सहयोग उपलब्ध गराउने र सो दिन व्यास नगरपालिका अन्तर्गतका अत्यावश्यक सेवा याहेकका कार्यालय, विद्यालय, स्वास्थ्य संस्था विदा गर्ने निर्णय गरियो।

निर्णय नं.६: प्रस्ताव नं.६ का सम्बन्धमा छलफल हुँदा व्यास ४ स्थित सितलचोक युवा क्लवले व्यास नगर मेयर कप खुल्ला फुटबल प्रतियोगिता संचालन गर्न प्रस्ताव सहित सहयोग माग गरेकोमा व्यास नगरपालिका खेलकुद विकास समितीको सहमती समेतमा उक्त खेल संचालन गर्न अनुमती दिने र रु. ४,००,०००/(पाँच लाख) बजेट शिर्षक नं. २४९ वाट उपलब्ध गराउने निर्णय गरियो।

तिर्<u>षेष नं.७</u> प्रस्ताव नं.७ का सम्बन्धमा छलफल हुँदा व्यास नगरपालिका अन्तर्गतका मादीसंती नदी व्यास १३ र १४ को व्यास नगरपालिका तर्फको निउरोधारीदेखि खहरे ढांडखोलासम्म ढुङ्गा, गिट्टी, बालुवाको उत्खनन् गर्न मिल्ने श्री डिभा मुस्कान कन्सल्ट प्रा.लि.ले पेश गर्ने प्रारम्भिक वातावरणीय अध्ययन प्रतिवेदन, व्यास ४,४,६,७ र १० अन्तर्गत माधिल्लो भतेरी मादी पुल देखि कलेस्ती सम्मको खण्ड (क) श्री एस.डि. इंन्जिनियरिङ्ग कन्सल्टेन्सी प्रा.लि.बाट पेश हुन आएको प्रारम्भिक वातावरणीय अध्ययन प्रतिवेदन २, कलेस्ती देखि शिसाधाट सम्मको खण्ड (ख) श्री एस.डि. इंन्जिनियरिङ्ग कन्सल्टेन्सी प्रा.लि.वाट पेश हुन आएको प्रारम्भिक वातावरणीय अध्ययन प्रतिवेदन वैठकमा पेश भई प्राप्त सुफावहरु संलग्न गर्ने गरी स्वीकति प्रदान गर्ने निर्णय गरियो।

<u>निर्णय नं.द</u>: प्रस्ताव नं.द का सम्वन्धमा छलफल हुँदा महालेखा परीक्षक कार्यालयवाट यस नगरपालिकाको आ.ब.२०७७/०७८ को लेखापरीक्षण गरी प्राप्त प्रतिवेदन आजको कार्यपालिका बैठकमा प्रस्तुत गरियो । साथै प्रतिवेदनमा देखाईएका वेरुजुहरुलाई नियमानुसार फछ्यौंट अभियानलाई तदारुकता दिन सम्बन्धित शाखालाई निर्देशन दिने निर्णय गरियो ।

<u>निर्णय नं.९</u>: प्रस्ताव नं.९ का सम्बन्धमा छलफल हुँदा व्यास नगरपालिका न्यायिक समिती मार्फत हुने न्याय निरुपण गर्दा अनिवार्य रुपमा मध्यस्थता मार्फत मेलमिलाप प्रकृया पुरा गर्नुपर्ने देखिंदा यस अधि तालिम लिएकाहरु मध्येवाट पुनर्ताजगी तालिम र स्नातक उत्तिर्ण मध्यस्थता तालिम लिन ईच्छुक व्यास नगरपालिकाका १४ वडाहरुबाट सामान्यत: वडाको २ जनाका दरले कुनै वडावाट प्रशिक्षार्थी नआएमा अर्को वडाबाट समावेश हुने गरी २८ जना नयांलाई ४८ घण्टे मध्यस्थता/मेलमिलापकार्ता तालिम विज्ञहरूबाट २०७९ आश्विन भीत्र दिने व्यवस्था मिलाउन न्यायिक समितीलाई जिम्मा दिने निर्णय गरियो।

<u>निर्णय नं.90:</u> प्रस्ताव नं. 90 का सम्बन्धमा छलफल हुँदा व्यास नगरपालिका भित्रका प्रारम्भिक वालवालिका कक्षा अध्यापन गर्ने सामुदायिक विद्यालयका शिक्षकहरुलाई पुनर्ताजगी तालिम व्यवस्थापन गर्न शिक्षा तथा सामाजिक विकास शाखालाई जिम्मा दिने निर्णय गरियो ।

<u>निर्णय नं.99:</u> प्रस्ताव नं.99 का सम्बन्धमा छलफल हुँदा व्यास नगरपालिकाको निम्न वडामा रहेका निम्नानुसारका स्वास्थ्य क्लिनिकहरुको म्याद सकिएको हुँदा म्याद सकिएकै मिति देखि लागू हुने गरी 9 (एक) वर्ष म्याद थप गरी नवीकरण गर्ने तथा नयाँ दर्ता अनुमती दिने निर्णय गरियो ।

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2.	व्यास नगर हस्पिटल प्रा.लि.	नविकरण	व्यास ४
3.	राना स्वास्थ्य क्लिनिक	नविकरण	व्यास २
۲.	कलश डेण्टल	नविकरण	व्यास २

Annex III: Proposed Typical Cross Sections

Table 7-1: Details of proposed cross-sectional elements

SN	Chai	inage	Carriageway	Drain	Tick drain	Kerb stone	Footpath	Shoulder	Construction Width	Remarks
	From	То	m	m	m	m	m	m	m	
1	0+000	0+005	5.5	1.15	0.25	0.15	0.75	1	8.8	Foothpath Cum drain
2	0+005	0+024								4x3 multicell box culvert
3	0+024	0+040	5.5					2	7.5	
4	0+040	1+420	5.5	1.15	0.25	0.15	0.75	1	8.8	Foothpath Cum drain
5	1+420	2+080	5.5	1.15	0.25	0.15		1	8.05	Covered Drain
6	2+080	2+160	5.5	2.3	0.5	0.3	0.75	0	9.35	Foothpath Cum drain
7										3x3 multicell box culvert
8	2+180	2+260	5.5	1.15	0.25	0.15		1	8.05	Covered Drain
9	2+260	2+580	5.5	1.15				1	7.65	Open Drain
10	2+580	2+620	5.5	1.15	0.25	0.15		1	8.05	Covered Drain
11	2+620	2+760	5.5	2.3	0.5	0.3	1.5	0	10.1	Bothside Drain cum Foothpath
12	2+780	2+800								Chautara
13	2+800	2+840	5.5	1.15	0.25	0.15		1	8.05	Covered Drain
14	2+840	3+400	5.5	1.15	0.25	0.15	0.75	1	8.8	Foothpath Cum drain
15	3+400	3+480	5.5	1.15	0.25	0.15		1	8.05	Covered Drain
16	3+480	3+660	5.5	1.15	0.25	0.15	0.75	1	8.8	Foothpath Cum drain
17	3+660	4+260	5.5	1.15				1	7.65	Open Drain
18	4+260	4+320	5.5	1.15	0.25	0.15		1	8.05	Covered Drain
19	4+320	4+400	5.5	2.3	0.25	0.15		1	9.2	open and Covered Drain
20	4+400	4+540	5.5	1.15				1	7.65	Open Drain
21	4+540	4+700	5.5	2.3	0.5	0.3	1.5		10.1	Bothside Drain cum Foothpath
22	4+700	4+780	5.5	1.15	0.25	0.15		1	8.05	Covered Drain
23	4+780	4+960	5.5	1.15				1	7.65	Open Drain
24	4+960	5+120	5.5					3	8.5	Shoulder bothside
25	5+120	5+320	5.5	1.15	0.25	0.15		1	8.05	Covered Drain
26	5+320	6+020	5.5	1.15				1	7.65	Open Drain
27	6+020	6+560	5.5	2.3				2	9.8	both sideOpen Drain
28	6+560	6+640	5.5	1.15	0.25	0.15		1	8.05	Covered Drain
29	6+640	6+820	5.5					2	7.5	Shoulder bothside
30	6+820	6+860	5.5	2.3	0.5	0.3		1	9.6	Bothside Covered Drain
31	6+860	7+000	5.5	1.15	0.25	0.15		1	8.05	Covered Drain
32	7+000	7+100	5.5	2	0.5	0.3	1.5		9.8	Bothside Drain cum Foothpath

SN	Chai	nage	Carriageway	Drain	Tick drain	Kerb stone	Footpath	Shoulder	Construction Width	Remarks
	From	То	m	m	m	m	m	m	m	
33	7+100	7+220	5.5	1.15	0.25	0.15	0.75	1	8.8	Foothpath Cum drain
34	7+220	7+600	5.5	1.15				1	7.65	Open Drain
35	7+600	7+740	5.5	1.75				1	8.25	Open DrainA and Drain D
36	7+740	8+300	5.5	1.15				1	7.65	Open Drain
37	8+300	8+360	4	1.15				0.8	6.00	Carriageway reduced to 4m
38	8+389	8+415								Existing bridge
39	8+415	8+460	5.5					2	7.5	Bothside Shoulder
40	8+460	8+980	5.5	1.15				1	7.65	Open Drain
41	8+980	9+070	5.5	2.3	0.5	0.3	1.5		10.1	Bothside Drain cum Foothpath
42	9+070	9+110	3.8	1.15	0.5	0.3	1.4		7.15	Carriageway reduced to 3.8m
43	9+110	9+200	5.5	1.15	0.5	0.3	1.75		9.2	Bothside Drain cum Foothpath
44	9+200	9+220	3.8	1.15	0.5	0.3	1.4		7.15	Carriageway reduced to 3.8m
45	9+220	9+240	3.8		0.5	0.3	2		6.6	Carriageway reduced to 3.8m
46	9+240	9+260	5.5	2.3	0.5	0.3	1.5		10.1	Bothside Drain cum Foothpath
47	9+260	9+400	5.5	1.15	0.25	0.15	0.75	1	8.8	Foothpath Cum drain
48	9+400	9+520	5.5	1.15	0.25	0.15		1	8.05	Covered Drain
49	9+520	9+580	5.5	1.15	0.25	0.15	0.75	1	8.8	Foothpath Cum drain (schoolarea)
50	9+580	9+620	5.5	1.15				1	7.65	Open Drain
51	9+620	9+660	5.5					2	7.5	Bothside Shoulder
52	9+660	9+720	5.5	1.15				1	7.65	Open Drain
53	9+720	9+820	5.5	2.3				1	8.8	Open DrainA and Drain D
54	9+820	10+220	5.5					3	8.5	Bothside Shoulder
55	10+220	10+550	5.5	1.15	0.5	0.3	1.5		8.95	Bothside Drain cum Foothpath



Figure 7-1: Typical Cross Section of Parasar Marga Road

Annex IV: GoN Permissible Environmental limits/standards

(A) National Drinking Water Quality Standard, 2079 BS

A-1: Mandatory Parameters to be tested

SN	Parameters	Unit	Limits	Remarks
	Physical			
1	Turbidity	NTU	5	
2	pH		6.5 - 8.5	
3	Colour	TCU	5	
4	Taste & odour		Unobjectionable	
5	Electrical Conductivity	µS/cm	1500	
	Chemical			
6	Iron	mg/L	0.3 (3)	
7	Manganese	mg/L	0.20	
8	Arsenic	mg/L	0.05	
9	Fluoride	mg/L	0.50 - 1.50 (Min Max.)	
10	Ammonia	mg/L	1.50	
11	Chloride	mg/L	250	
12	Sulphate	mg/L	250	
13	Nitrate	mg/L	50	
14	Copper	mg/L	1	
15	Zinc	mg/L	3	
16	Aluminum	mg/L	0.20	
17	Total Hardness	mg/L	500	
18	Residual Chlorine	mg/L	0.10 - 0.50 (Min Max.)	
	Microbiological			
19	E-Coli	(CFU/10 ml)	0	

A-2: Additional Parameters to be tested based on Risk and Requirement

SN	Parameters	Unit	Limits	Remarks
	Physical			
1	Total Dissolved Solids	mg/L	1000	
	Chemical			
2	Calcium	mg/L	200	
3	Lead	mg/L	0.01	
4	Cadmium	mg/L	0.003	
5	Chromium	mg/L	0.05	
6	Cyanide	mg/L	0.07	
7	Mercury	mg/L	0.001	
8	Nitrites	mg/L	3	
	Microbiological			
1	Total Coliform	(CFU/10 ml)	0 (In 95% samples)	

Parameters	Units	Averaging Time	Concentration in Ambient Air, Maximum
TSP	µg/m ³	24 - hours	230
PM10	μg/m ³	24 - hours	120
PM2.5	µg/m ³	24 - hours	40
Sulfur Dioxide	μg/m ³	Annual	50
		24-hours	70
Nitrogen Dioxide	μg/m ³	Annual	40
	μg/m³	24-hours	80
Carbon Monoxide	μg/m ³	8hours	10000
Lead	μg/m ³	Annual	0.5
Benzene	μg/m³	Annual	5
Ozone	µg/m ³	8-hours	157

(B) National Ambient Air Quality Standard, 2069 BS

Ref.: Section 62, Number 19, Nepal Gazette, Part 5, 2069/04/29, Notice 2

(C) National Sound Pressure Level, 2069

Microenvironment Sound Pressure Level Daytime 0 dustrial Area 75 ommercial Area 65 aral Settlement Area 45 rban Settlement Area 55 ixed Settlement Area 63	Level, LegdB(A)	
	Daytime	Nighttime
Industrial Area	75	70
Commercial Area	65	55
Rural Settlement Area	45	40
Urban Settlement Area	55	50
Mixed Settlement Area	63	55
Pristine Area	50	40

Ref.: Section 62, Number 30, Nepal Gazette Part 5, 2069/7/13

(D) Diesel Powered Generator Emission Limits (g/kWh), 2069

Category, (kW)	СО	HC	NOx	PM
kW< 8	8	1.3	9.2	1
8 = kW < 19	6.6	1.3	9.2	0.85
19 = kW < 37	6.5	1.3	9.2	0.85
37 = kW < 75	6.5	1.3	9.2	0.85
75 = kW < 130	5	1.3	9.2	0.7
130 = kW < 560	5	1.3	9.2	0.54

Ref.: Section 62, Number 30, Nepal Gazette Part 5, 2069/7/13

The minimum height of the chimney should be maintained not less than 11m for the industrial boiler utilizing solid or liquid fuel.

Annex V: Air, Noise and Water Quality test Reports



Regd No.: 127787/071/72 Jwagal, Lalipur, Napal GPO Box No.: 8975, EPC 5296 Contract No.: 977-01-47690266, 9851126060 Email: emas@emas.com.np Website: emas.com.np

ANALYSIS REPORT FOR AMBIENT AIR QUALITY Report Number 40A/080-81 22A/080/81 Sample Number BOTEK Bosphorus Techinical Consulting Corp. JV with GOEC Nepal (P) Ltd. Client Vyas: Municipality - 9, Parasar Marga GPS point: 28" 2'13.95"N 83"16'23.37"E Sampling location (Buldikhola-Beltari-Farakchaur-Adheri bhyanjang-Pokharelfat-Kumalgaun-Samata school kalesti Road)_ward -7,9,10 and 11, Start Point :Buldi Khola,Ghasikuwas End Point :Sesam Tar, Length : 5+550 Nepal Urban Governance Infrastructure Project (NUGIP) Project Sampled by Environment Management And Analysis Services P. Ltd., Dillibazar, Kathmandu 30 - 31 September 2023 Sampling Date Report Date 12 October, 2023 Instrument used Respirable Dust Sampler (GTI 151) and Combined Sampler (GTI 241)

		PREDMIN	
Parameter	NAAQS	Observed Values	Method
TSP (µg/m ³)	230.0	126.3	IS 5182 (Part 14)-2000 (reaffirmed 2005)
PM10 (µg/m3)	120.0	52.6	IS 5182 (Part -23):2006
PM _{2.5} (µg/m ³)	40.0	8.8	IS 5182: Part 24: 2019
50 ₂ (µg/m ³)	70.0	4.2	IS 5182 (Part 2)-2006
NO ₂ (µg/m ³)	80.0	4.7	IS 5182 (Part 6)-2006
CO (µg/m ³)	10000.0	<230.0	IS 5182 (Part - 10):2006

* - National Ambient Air Quality Standard, 2069, ** - National Ambient Air Quality Standard for TSP for Crusher Industry, is Indian Standard

Remarks: The observed values are within the prescribed limit of NAAQS.

Sampled by

T-og-aleft Checked by

Analysis Services P. Ltd



Regd No.: 127787/071/72 Jwogol, Laitgur, Nepal GPD Box No.: 8975, EPC 5296 Contact No.: 977-01-47690266, 9851128060 Email: emag@encis.com.np, emasurv@gmail.com Website: emag.com.np

Report Number	41A/080-81						
Sample Number	22A/080/81						
Client	BOTEK Bosp	horus Techinical Consulting Corp.	JV with GOEC Nepal (P) Ltd.				
Sampling location	Vyas Municipality - 11, Parasar Marga GPS Point: 27'59'36.30"N 84'18'38.38 (Butdishola-Bettari-Farakchaur-Adheri bhyanjang-Pokharelfat-Kumalgaun-Samata Schodi Kalesti Road)						
Project	Nepal-Urban	Governance Infrastructure Proje	ct (NUGIP)				
Sampled by	Environmen	t Management And Analysis Serv	ces P. Ltd., Dillibazar, Kathmandu				
Sampling Date	30-31 Sept	ember 2023					
Report Date	12 October, 2023						
Instrument used	Respirable D	lust Sampler (GTI 151) and Combi	ned Sampler (GTI 241)				
		Result					
Parameter	NAAQS	Observed Values	Method				
TSP (µg/m³)	230.0	159.1	IS 5182 (Part 14)-2000 (reaffirmed 2005)				
PM ₁₀ (µg/m ³)	120.0	62.8	IS 5182 (Part -23):2006				
PM _{2.5} (µg/m ³)	40.0	10.6	IS 5182: Part 24: 2019				
50; (µg/m ³)	70.0	70.0 3.3 IS 5182 (Part 2)-2006					
NO2 (µg/m ³)	80.0	5.2	IS 5182 (Part 6)-2006				
CO (µg/m ³)	10000.0	<230.0	IS 5182 (Part - 10):2006				

ANALYSIS REPORT FOR AMBIENT AIR OUALITY

* - National Ambient Air Quality Standard, 2069, ** - National Ambient Air Quality Standard for TSP for Crusher Industry, IS Indian Standard

Remarks: The observed values are within the prescribed limit of NAAQS.

Sampled by

Checked by

Analysis Services P. Ltd

	VIRC NA	DNMEN	ERVIC	ES P.	MENT Re Jw GI Co LTD En W	egd No.: 12 ragal, Lalitp PO Box No. entact No.: 9 eall: emas@en ebsite: ema	7787/071 our, Nepal : 8975, Ef 77-01-476 mas.com.np is.com.np	1/72 PC 5296 90266, 9851 o, emosenv@gn	12606 noil co
		ANALYS	SIS REPO	ORT FO	RAMBIEN	IT NOIS	E LEVE	L	
Report Numbe	er	42N/080-8	1		Samp	le Number	23-N/08	30/81	
Sampling Date		30 ; 31 Sep	tember 202	3					
Client		BOTEK Bos	phorus Tech	inical Con	sulting Corp. JV	with GOEC	Nepal (P)	Ltd.	
sampiing local	uon	 Vyas Municipality - 9, Par (Buldikhola-Beltari-Farak bhyanjang-Pokharelfat-K school kalesti Road)_war Start Point :Buldi Khola,G Point :Sesam Tar Leneth 			dheri un-Samata D and 11, vas End D	GPS point: 28" 2"13.95"N 83"16 2 ri iamata id 11, End			
Project		Nepal Urba	n Governan	ce Infrast	ructure Project (NUGIP)			
Sampled by		Environme	nt Managem	nent And A	Analysis Services	P. Ltd., Dill	ibazar, Kat	thmandu	
Report Date		12 October	, 2023					No. 1	_
Instrument us	ed	LUTRON SL	- 4033SD						
Test method		Noise Mea	surement Pr	otocol (Ce	entral Pollution (Control Boa	rd, India)		
	· · · ·	No	ise Level (di	BA)			Noise Level (dBA)		
Hours	Time	Lmax	Lmin	Leq	Hours	Time	Lmax	Lmin	Lee
06:00 - 07:00		56.8	41.0	46.0	18:00 - 19:00	15	51.7	44.9	47.
07:00 - 08:00		58.4	40.2	48.8	19:00 - 20:00		55.1	41.2	43.
08:00 - 09:00		53.2	39.6	47.2	20:00 - 21:00		57.2	40.0	42.
09:00 - 10:00		51.3	41.3	50.4	21:00 - 22:00		61.7	38.9	40.
10:00 - 11:00		62.6	41.6	46.0	22:00 - 23:00		53.5	38.6	•41.
11:00 - 12:00	Davi	58.4	42.1	48.1	23:00 - 00:00	Night	59.3	39.5	44.
12:00 - 13:00	Day	61.3	43.2	51.7	00:00 - 01:00	reight	55.3	40.6	47.
13:00 - 14:00		56.8	44.9	49.9	01:00 - 02:00		57.8	41.2	47.
14:00 - 15:00		65.8	43.3	48.2	02:00 - 03:00		52.5	40.5	44.
15:00 - 16:00	1	56.3	42.2	47.9	03:00 - 04:00		51.6	42.8	46.
16:00 - 17:00		66.5	44.7	46.7	04:00 - 05:00		55.1	41.3	46.
17:00 - 18:00		62,1	44.3	47.9	05:00 - 06:00	14	56.5	44.4	47.
		Leq aver	age (Day)	48.2		+	Leq aver	age (Night).	45.
		Dormicci	hle limit *	55.0			Permi	issible limit	50

dBA - A-weighted decibels, Lmax : Maximum Sound Level, Lmin: Minimum Sound Level

Remarks: The equivalent noise level during day and night hours comply with the permissible limit in reference to noise level standard 2069, under category of urban residential area.

Sampled by

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Roghalofle Checked by

Authorized by

A Environment Management & Analysis Services P. Ltd



Contact No.: 977-01-47690266, 9851126060 Email: emas@emas.com.np, emasenv@gmail.com

		ANALYS	SIS REPO	DRT FO	R AMBIEN	T NOIS	E LEVE	L		
Report Numbe	r	43/N/080-	81		Samp	le Number	23-N/08	80/81	_	
Sampling Date		30 - 31 Sep	tember 202	3						
Client '		BOTEK Bosphorus Techinical Consulting Corp. JV with GOEC Nepal (P) Ltd.								
Sampling location Vyas Municipality - 11, Parasar Marga (Buldikhola-Beltari-Farakchaur-Adheri bhyanjang-Pokharelfat-Kumałgaun-Samata School Kalesti Road)					rasar Marga dheri un-Samata	GPS Point:	27°59'36.	30"N 84*18'3	8.38"E	
Project		Nepal Urba	an Governan	ce Infrast	ructure Project (NUGIP)	_			
Sampled by		Environme	nt Managen	nent And A	Analysis Services	P. Ltd., Dill	ibazar, Ka	thmandu		
Report Date		12 October	r, 2023			-				
Instrument use	ed	LUTRON SI	- 4033SD		in the second second					
Test method		Noise Mea	surement Pr	otocol (Ce	entral Pollution C	Control Boa	rd, India)			
		Noise Level (dBA)					Noise Level (dBA)			
Hours	Time	Lmax	Lmin	Leq	Hours	Time	Lmax	Lmin	Leq	
06:00 - 07:00		47.3	37.3	40.5	18:00 - 19:00		48.7	39.8	41.9	
07:00 - 08:00		45.7	39.9	42.9	19:00 - 20:00		50.6	35.6	38.3	
08:00 - 09:00		51.3	38.5	44.6	20:00 - 21:00		52.3	34.3	37.6	
09:00 - 10:00		.55.5	41.6	46.4	21:00 - 22:00		58.5	35.1	38.3	
10:00 - 11:00		58.1	42.4	45.6	22:00 - 23:00		62.3	36.3	40.5	
11:00 - 12:00		51.2	41.8	46.7	23:00 - 00:00	Nicht	63.7	35.9	41.9	
12:00 - 13:00	Day	58.3	43.7	45.8	00:00 - 01:00	wight	51.3	34.5	39.6	
13:00 - 14:00		56,5	44.4	46.0	01:00 - 02:00		55.5	33.6	38.4	
14:00 - 15:00		62.1	45.2	49.7	02:00 - 03:00		58.1	.35.4	39.6	
15:00 - 16:00		60.3	44.3	46.8	03:00 - 04:00		51.2	31.8	40.7	
16:00 - 17:00		55.0	43.6	45.6	04:00 - 05:00		52.3	38.7	41.8	
17:00 - 18:00		53.8	42.1	43.9	05:00 - 06:00		49.5	36.4	40.0	
Leg average (Day)		46.Z		Leq average (Night)			39.9			
Permissible limit *		55.0	Permissible limit				50.0			

dBA - A-weighted decibels, Lmax : Maximum Sound Level, Lmin: Minimum Sound Level

Remarks: The equivalent noise level during day and night hours comply with the permissible limit in reference to noise level standard 2069, under category of urban residential area.

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Authorized by

Environment Managemen 8 Analysis Services P. Ltd



Regd No.: 127787/071/72 Jwagal, Lalitpur, Nepal GPO Box No.: 8975, EPC 5296 Contact No.: 977-01-47690266, 9851126060 Email: emas@emos.com.np, emasenv@gmail.com Website: emas.com.np

Water Analysis Report

Client: BOTEK Bosphorus Techinical Consulting Corp. JV with GOEC Nepal	Sample Sources: Spring
(P) Ltd.	Source Name: N/A
Sample Location: Kumal Gaun, Vyas Municipality - 9	Sampling Date: 31 September, 2023
GPS Point: 28° 2'12.77"N 83°16'21.22"E	Received Date: 01 October, 2023
Report No: 44/W/080-81 -	Analysis Period: 31 Sept- 05 Oct, 2023
Report Date: 12 October, 2023	Purpose: Drinking
Sampled by: EMAS P. Ltd.	
Project: Nepal Urban Governance Infrastructure Project (NUGIP)	

Parameters	Unit	NDWQS	Observed Values	Test Methods
pH		6.5 - 8.5*	6.8	4500-H ⁺ B, APHA, 22nd EDITION
Colour		5 (15)	<0.1	2120 B, APHA, 22 nd EDITION
Turbidity -	NTU	5 (10)	: <1.0	2130 B, APHA, 22nd EDITION
Electrical Conductivity	µS/cm	1500	152.0	2510 B, APHA, 22nd EDITION
Temperature (Lab)	°C		24.3	2550 B., APHA, 22nd EDITION
Total Hardness	mg/l as CaCO ₃	500	66.0	2340 C, APHA, 22nd EDITION
Chloride	mg/l	250	6.2	4500-CI' B, APHA, 22nd EDITION
Ammonia	mg/l	1.5	< 0.02	4500-NH3 C., APHA, 17TH EDITION
Nitrate -	mg/l as NO3	50	0.63	4500-NO3- B., APHA, 22nd EDITION
Iron	mg/l	0.3 (3)	0.03	3112 B., APHA, 22nd EDITION
Manganese	mg/l	0.2	< 0.02	3112 B., APHA, 22nd EDITION
Arsenic	mg/l	0.05	<0.01	3114 C,APHA, 22nd EDITION
E.Coli	CFU/100 ml	Nil	Nil	9221 C. , APHA, 22nd EDITION

NDWQS: National Drinking Water Quality Standard (2079), * - Values are upper and lower limit, () - Values are acceptable only when alternative is not available. APHA: American Public Health Association., N/A: Not Available

Remarks: Observed values of the parameters are within the NDWQS.

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Checked by

Authorized Signature

& Analysis Services P. Ltd



Regd No.: 127787/071/72 Jwagal, Lalitpur, Nepal GPO Box No.: 8975, EPC 5296 Contact No.: 977-01-47690266, 9851126060 Email: emas@emas.com.np, emoserv@gmail.com Website: emas.com.np

Water Analysis Report

Client: BOTEK Bosphoru (P) Ltd.	is Techinical Consu	Sample Sources: Spring Source . Source Name: Sindre Pani		
Sample Location: Sindro GPS Point: 27°59'34.18'	e Pani, Vyas Munic "N 84*18'39.64"E	Sampling Date: 31 September, 2023 Received Date: 01 October, 2023		
Report No: 45/W/080-8 Report Date: 12 Octobe	31 er, 2023		Analysis Period: 31 Sept- 05 Oct,2023 Purpose: Drinking	
Sampled by: EMAS P. Lt Project: Nepal Urban G	td. overnance Infrastr	ucture Project (NUGIP)	
Parameters	Unit	NDWQS	Observed Values	Test Methods
рH	¥	6.5 - 8.5*	6.5	4500-H* B, APHA, 22nd EDITION
Colour	-	5 (15)	<0.1	2120 B, APHA, 22 nd EDITION
Turbidity	NTU	5 (10)	<1.0	2130 B, APHA, 22nd EDITION
Electrical Conductivity	µS/cm	1500	110.0	2510 B, APHA, 22nd EDITION
Temperature (Lab)	°C		24.3	2550 B., APHA, 22nd EDITION
Total Hardness	mg/l as CaCO ₃	500	32.0	2340 C, APHA, 22nd EDITION
Chloride	mg/l	250	3.2	4500-CI B, APHA, 22nd EDITION
Ammonia	mg/l	1.5	0.04	4500-NH3 C., APHA, 17TH EDITION
Nitrate .	mg/l-as NO ₃	50	0.21	4500-NO3- B., APHA, 22nd EDITION
Iron	mg/l	0.3 (3)	<0.01	3112 B., APHA, 22nd EDITION
Manganese	mg/l	0.2	<0.02	3112 B., APHA, 22nd EDITION
Arsenic	mg/l	0.05	<0.01	3114 C,APHA, 22nd EDITION
E.Coli	CFU/100 ml	Nil	Nil	9221 C. , APHA, 22nd EDITION

NDWQS: National Drinking Water Quality Standard (2079), • - Values are upper and lower limit, () - Values are acceptable only when alternative is not available. APHA: American Public Health Association

Remarks: Observed values of the parameters are within the NDWQS.

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Fosheld Checked by

Authorized Signature

Environment Management & Analysis Services P. Ltd

- 106 -

[Environment Management

CN	Table 7-2: List of Proposed Zebra Crossings Locations								
SIN	Chainage (m)	width (m)	I NICKNESS (M)	Number	Area (sq.m)				
1	0+054	3.25	0.6	4	7.8				
2	0+430	3.25	0.6	4	7.8				
3	0+683	3.25	0.6	4	7.8				
4	0+728	3.25	0.6	4	7.8				
5	0+847	3.25	0.6	4	7.8				
6	0+903	3.25	0.6	4	7.8				
7	1+218	3.25	0.6	4	7.8				
8	1+281	3.25	0.6	4	7.8				
9	2+135	3.25	0.6	4	7.8				
10	2+212	3.25	0.6	4	7.8				
11	2+267	3.25	0.6	4	7.8				
12	2+504	3.25	0.6	4	7.8				
13	2+565	3.25	0.6	4	7.8				
14	2+750	3.25	0.6	4	7.8				
15	2+835	3.25	0.6	4	7.8				
16	2+996	3.25	0.6	4	7.8				
17	3+041	3.25	0.6	4	7.8				
18	3+149	3.25	0.6	4	7.8				
19	3+219	3.25	0.6	4	7.8				
20	3+535	3.25	0.6	4	7.8				
21	3+495	3.25	0.6	4	7.8				
22	3+674	3.25	0.6	4	7.8				
23	4+301	3.25	0.6	4	7.8				
24	4+528	3.25	0.6	4	7.8				
25	4+584	3.25	0.6	4	7.8				
26	5+259	3.25	0.6	4	7.8				
27	5+303	3.25	0.6	4	7.8				
28	5+889	3.25	0.6	4	7.8				
29	6+698	3.25	0.6	4	7.8				
30	6+765	3.25	0.6	4	7.8				
31	7+092	3.25	0.6	4	7.8				
32	7+475	3.25	0.6	4	7.8				
33	8+362	3.25	0.6	4	7.8				
34	9+029	3.25	0.6	4	7.8				
35	9+083	3.25	0.6	2	3.9				
36	9+185	3.25	0.6	4	7.8				
37	9+566	3.25	0.6	4	7.8				
38	10+535	3.25	0.6	4	7.8				
	1	Fotal		38	Nos.				

Annex VI: List of Zebra Crossings

Also, **124nos. of Ramps** has been proposed in this sub project to ease movement of locals.

Annex VII: Code of Conduct (CoC) on GBV

नेपाल शहरी शासकीय तथा पुर्वाधार आयोजना

कार्य स्थलमा हुने यौनजन्य तथा महिला हिंसा सम्बन्धी आचार सहिता

व्याक्तिगत आचार संहिता

म, यो आचार सहिता पालना गर्नु मेरो दाहित्व हो भनी स्वीकार गर्दछु ।म कुनै पनि यौनजन्य तथा महिला हिसा जस्ता कार्यमा सॅलग्न हुने छैन । परियोजना को काम को शिलसिलामा यो आचार सहिता पालना गर्न सहमत छ ।

- म जातजाति धर्म, भाषा, लिङ्ग, उमेर, राजनितीक वा सामाजिक हैसियत, भौगोलिकता, पहुंच, वैवाहिक स्थीती वा अन्य कुनै पनि आधारमा भेदभाव नगरी सवैलाई सम्मानजनक र समान रुपमा व्यवहार गर्नेछ।
- सामाजिक सन्जालको प्रयोग गरी अश्लील शब्द, दुष्य सामाग्री वा कार्यलय समय अधिपछी वार्तालाप मार्फत सहकांमं/ कामदार लाई यौन दब्यांहार गर्ने छैन ।
- कायंस्थलमा सिंही बजाउने, चुम्बन गर्ने, व्यातिगत उपहार दिने आदि जस्ता कार्य गरी कर्मचारी, सहकॉमं/कामदार लाई यौन दुष्यांहार गर्ने छेन ।
- कुनै पनि प्रलोमन धम्की देखाई जस्तै पदील्तती लोभ देखाएर,जागीर नॉदने धम्की दिएर शोषण गरेर आदि। यौन दुव्यांहार पक्षमा सलग्न हुने छैन
- कार्य समयावांध भित्र कुनैपनि मांदराजन्य तथा लागुपदार्थको सेवन गर्ने छैन ।
- परियोजका सरोकारवाला वा वरपरका समुदायका सदस्यहरुलाई कुनैपनि म लैड्रिक हिसा तथा यौनजन्य दुब्बांहार गर्ने छैन ।
- ७. कुनै पनि कर्मचारी श्रांमक विरुद्ध हिंसा गरिएको दोषी ठहरिएमा प्रचलित संघिय, प्रादेशिक, स्थानीय सरकार बल्हें बैक को कानुन , निती नियम अनुसार सजाय दण्डित जरिवाना तिनं तथार हुनेछ ।
- द. कार्य गर्ने शिलशिलामा सम्मानजनक निर्देशनहरुको पालना गर्दछ । वालावरणीय + सामाजिक।
- मेरो जिम्मेवारी कुशलता र लगनशीलता पुर्वक पुरा गर्नेछु।

- सम्बंधित कार्यलय कम्पनीले सन्चालन गरेको विभीन्न प्रशिक्षण कार्यक्रममा संकिय रुपमा भाग लिनेछ ।
- परियोजनाका प्रत्यक्ष लाभदायक सदस्य समुदायमा यीन दुव्यांहार जोषण गर्ने छैन ।
- १२. विश्वासनीयता नैतिक उल्लघनको रिपोर्ट गरेमा कुनै कामदार विरुद्ध वदला लिने छैन ।
- 9३. कार्य स्थलमा लैड्रिक सम्बेदनशिल भाषाको प्रयोग गर्दछ.
- १४. कार्यस्थलमा महिला हिसा तथा यौनजन्य कियाकलाप लाई प्रोत्साहन गर्ने खालका गतिविधी गर्न दिने छैन ।
- 9%. कार्यस्थलमा महिला तथा यौन हिसा गतिविधीहरुलाई प्रोत्साहन गर्ने छैन।
- १६. १८ वर्षभन्दा मुनिका वालिकाहरुमा कुनै डिजीटल मिडीया मार्फत वा कुनै माध्यमवाट /स्वीकृती लिई वा नलिई यौनजन्य कियाकलापमा सहभागी हुनेछैन, यदि नावालिका स्थीकृती लिई यौनजन्य कियाकलापमा गरेमा आमा हुदैन ।
- ९७. परियोजना कार्यन्वयन को बेलामा यौनजन्य दुव्यांहार / यौन शोपण भएमा वा आचार सहिता उल्लंघन गरेमा बढा / नगरपालिका स्तरमा रहेको गुनासो सुनवाई सयन्त्रमा तुरुन्त निवेदन / जानकारी दिनेछ ।
- ९८. कार्यस्थलमा कसैले यौनजन्य दुव्यांहार सम्धन्धी शख्कापद व्यावहार गरेमा वा शख्कापद कार्य गरेमा तुरुन्त टोली प्रमुख प्रबन्धकलाई जानकारी निवेदन दिनेछ ।

माथि उल्लेखित आचार संहिता राग्नरी पढे र वुम्हेको छु र कार्यस्थलमा कडाईका साथ पालना गर्दछु भनी हस्ताक्षर गर्दछु ।

व्यवस्थापक / टोली प्रमुख

कमंचारी कामदार

Annex VIII: Consultation Details

Date	Consultation	Composition of		Issues raised	Response from project
	type	participants			
1st October, 2023	Key Informant Interview	Kiran Nepali Principal, Ward no. 11 Blooming Academy	•	Regular spring water to reduce dust and smoke. Flexibility of no system and speed limit in the school area especially during school hours. In case of doing construction and using heavy machine, and equipment, would be very harmful so construction work would be safe school off hour.	We would like to manage construction work school off hour if possible.
1st October, 2023	Key Informant Interview	Suman Raj Poudel Ward No. 11 Chairperson Shrijansil Tole development Committee	•	No disturb Drinking water and other infrastructure. Priorities local level people for employment.	Priorities local level people for locally employment for his/her skill and no disturbance for DWSS and another infrastructure. If any damage such kinds of infrastructure vendor should re-construed them.
1st October, 2023	Key Informant Interview	Gopal Bahadur Gharti Ward No. 11 Chairperson Shera Tole Development Committee.	•	Infrastructure should be as it is. No disturb Drinking water and other infrastructure. Priorities local level people for employment.	Priorities local level people for locally employment for his/her skill and no disturbance for DWSS and another infrastructure. If any damage such kinds of infrastructure vendor should re-construed them.
30 September, 2023	Key Informant Interview	Mr, Bir Bahadur Gharti Ward no: 11	•	Mr, Gharti mentioned that road should be bulld as fast as possible and quality road. Road light should be placed.	The project assured that all the public infrastructures will be

Table 7-3: List of Public Consultations and their Summary

Date	Consultation	Composition of	Issues raised	Response from project
		Chairperson Purandi Tole Development Committee	 Be aware on environment degradation. DWSS and Irrigation cannel should be safe. While shifting electric pole, must consult with local people. Local people should get employment on road project 	shifted prior the construction of road. The project informed that based on the skills and qualifications the workers/staff will be recruited. The local will get priority in hiring based on skills and qualifications
30 September, 2023	Key Informant Interview	Mr, Birendra Adhikari Ward no: 11 Chairperson Jamune Tole Development Committee	 Road Should be quality maintained and materials should be best quality. DWSS and Irrigation cannel should be safe. While shifting electric pole, must consult with local people. if any infrastructures will be displaced must consult with Jamune Tole Development Committee. 	ESIA has captured these requirements and shall be implemented
30 September, 2023	Key Informant Interview	Mrs, Nirmala adhikari Ward no: 11 Shopkeeper, Jamune Tole	 During the construction phase the control of dust, vehicle speed must be maintained. Constructed area must be clean. she has shown the quality of the construction work 	These issues of construction phase dust control and speed control are addressed in ESIA
29 September, 2023	Key Informant Interview	Mr. Ram Bahadur Thapa , Ward No 11 Chairperson Farakchaur Tole Development Committee	 Street light should be placed. Should be priorities on sanitation. Must be follow cultural value and norms while constriction period. Should regulate drinking water and irrigation. 	This will be prepared and displayed upon the finalization of contractor by the project.

ESMP for the Upgradation of Parasar Marga, Vyas Municipality

Date	Consultation	Composition of		Issues raised	Response from project
	type	participants			
29 September,	Key Informant	Mr. Karn bahadur	•	It is better to build bridge in Ghashikuwa.	All the comment address on
2023	Interview	Basnet	٠	Remove Trees and other structure before	DPR if possible.
		Ward No: 10		work start.	
		Formar Chairperson	•	Street light must be placed.	
		farakchaur Tole	•	Manage DWSS before work start.	
		Development			
		Comittee			
1st October,	Key Informant	Mr. Amit Kaini	•	Road should be wide.	All the comment address on
2023	Interview	Ward N0: 11	•	Knowledgeable laor should be manage.	DPR and ESMP.
		Local Contractor	•	Road should be straight way if possible.	
29th September,	Key Informant	Ms. Bimala Adhikari	٠	She is mention that road should be build both	This will be addressed in ESIA
2023	Interview	Ward N0. 11		side from center point.	
		Chairperson	•	Road should be quality and as fast as	
		Farakchaur Mothers		possible.	
		Group	•	Get employment by local people.	
1st October,	Key Informant	Mr. Bharat Raj	•	Work together for new pipeline laying for	We address it on the working
2023	Interview	Naharki		water and manage already laying pipeline.	time.
		Ward No. 11			
		Chairperson Poland			
		Lift DWSS			
29th September,	Key Informant	Mrs, Indira Adhikari	•	Bridge should be built on Buldikhola and	The suggestion is address on
2023	Interview	Ward No. 11		Shivalaya, we are in trouble in raining	DPR and constructed period.
		Ward Member		season.	
			•	Manage Irrigation cannel.	
			•	Manage DWSS structure and electric pole	
				consult with local people.	
			•	Priorities local people on labour.	
29th September,	Key Informant	Mr, Shiva Baniya	•	If possible prioritize local people on	The suggestion is address on
2023	Interview	Businessmen		skill/non skill labor.	DPR and constructed period.
		Ward No. 10			

Date	Consultation	Composition of		Issues raised	Response from project
	type	participants			
29th September, 2023	Key Informant Interview	Mr, Gobin Bahadur Adhikari Ward No. 10 Chairperson Dhaireni- Pokharelfat- adheribhanjyang- Lamidanda Tole Development	• • • •	 Manage DWSS structure with the help of local people. Manage electric pole. Save environment by dust, noise pollution. Work properly with fairness. Develop local level employment. Avoid environment degradation. Reduce noise pollution. Manage DWSS structure while work progress. Manage infrastructure while conduction construction work. 	The suggestion is address on DPR and constructed period.
29th September, 2023	Key Informant Interview	Committee Mr, Dharme Kami Ward No. 10 Chairperson Sundari Gaira Lifting DWSS	•	If destroyed DWSS structure manage them properly. Manage water for local level.	It will be address on construction phase.
29th September, 2023	Key Informant Interview	Mr, Ram Krishna Kumal Ward No. 9 Chairperson Kumalgaun Tole Development Committee	•	I hope construction work will be start as fast as possible. Priorities local people for labor. Manage sanitation while construction period.	It is sure that all comment address on construction phase.
29th September, 2023	Key Informant Interview	Mrs, Asmita Sumuwar Kumal Ward No. 9	•	I hope construction work will be start as fast as possible.Manage dust while construction period.Priorities local people for labor.Manage sanitation while construction period.	It is sure that all comment address on construction phase.

Date	Consultation	Composition of	Issues raised	Response from project
	type	participants		
		Chairperson Chandi		
		Bhanger Aaama		
		samuha		
29th September,	Key Informant	Mr, Krishna Prasad	• Road must be quality.	Manage all comment while
2023	Interview	Neupane	• make sure environment must be safe	construction work progress.
		Ward No. 7	• Priorities local citizen for labor.	
		Ward Chairperson	• Must follow local Religion and Culture	
			while working on road.	
29th September,	Key Informant	Mrs, Radhika Wagle	Manage DWSS Structure.	Manage all comment while
2023	Interview	Ward No. 7	• Manage dust and smoke.	construction work progress.
		Chairperson Chhori	• Avoid on sensory noise.	
		Buhari Mothers Group	• Speed limit on vehicles.	
29th September,	Key Informant	Mrs, Shanti Sapkota	• Manage dust by spread water.	Manage all comment while
2023	Interview	Wagle	• Speed limit while school opening and	construction work progress.
		Ward No. 7	closing time.	
		Teacher Vyas Nagar	• No horn policy.	
		Samata School	• Manage zebra-crossing in school area.	
			• If any damage school property, please	
			reconstruction.	
29th September,	FGD – Ward	Ward no 7, Bifre	• Road should equally measure from center	The measures will be taken
2023	No. 7	Naranga DWSS	point in both side	during design.
		(5 participants, 4 male	• The road has to be made.	
		and 1 female)	• Should be preserve environment.	
			• Project complete within the time frame.	
			• Drinking water pipeline must be safe.	
			• Project must run consult with local people.	
			• Road construed should be flawless.	

ESMP for the Upgradation of Parasar Marga, Vyas Municipality

Date	Consultation	Composition of	Issues raised	Response from project
	type	participants		
29th September, 2023	FGD – Ward 7	Ward no 7, Shimaltar Tole, Chhoribuhari Woman Group , (4 female Participants with 2 indigenous females)	 Constriction work should be complete in time. Coordinate local people while working. Do not make noise while working. Coordinate with local people while working. 	The measures will be taken during design.
29th September, 2023	FGD – Ward 7	Ward no 7, Shimaltar Tole, Shimaltar Narang Tole Development Committee, (11 participant, 4 indigenous people)	 The project should accomplish with quality as soon as possible. Coordinate with local people while working. Drinking water pipeline must be safe. Bridge should be built according to raining season water flow. Local people must employed on road construction. 	The comment address on construction period.
29th September, 2023	FGD – Ward 7	Ward no 7, Vyas Nagar Samata School, (7 participants with 3 indigenous people)	 Safe environment while working. Speed limit while school starting and closing time. Adopt no horn policy. If infrastructure dismantled make them as soon as possible. 	The suggestion include on ESMP.
29th September, 2023	FGD – Ward 9	Ward No. 9, Kumalgaun, Kumalgaun Tole Development Committee, (8 participants, 7 indigenous people)	 The project should accomplish with quality as soon as possible. Local people must be employed on road construction. Safe environment while working. Adopt no horn policy 	The suggestion includes on ESMP.
29th September, 2023	FGD – Ward 9	Ward No. 9, Kumalgaun, Chandi	• The project should accomplish with quality as soon as possible.	The suggestion include on ESMP.

Date	Consultation	Composition of	Issues raised	Response from project
	type	participants		
		Bhager aama samuha, (7 participants, all participants are indigenous people)	 Local people must employed on road construction. Safe environment while working. If there is policy to provide training, please provide us training such as mushroom farming, tailoring, incense making etc. 	
29th September, 2023	FGD – Ward 10	Ward No. 10, Adheri Bhanjyang, Dhaireni- Pokharelfat- Adheri Bhanjyang- Lamidanda Tole Development Committee (6 participants with 3 indigenous people)	 Dust and smoke control. Keep sanitation. Make road without damaging any infrastructures. Make quality road. 	All the comments are address in DPR and ESMP
29th September, 2023	FGD – Ward 10	Ward No. 10, Adheribhanjyang, Aama Samuha, 6 participants with 4 indigenous people	 If there is policy to provide training, please provide us training such as mushroom farming, tailoring, vegetable farming etc. Notice the public while shifting the electric pole. If infrastructure dismantled make them as soon as possible. Local people must be employed on road construction. 	All the comments are address in DPR and ESMP
30 September, 2023	FGD – Ward 11	Ward No. 11, Jamune Tole, Jamune Tole Development Committee, (8 members with 2 female participants)	 Make quality road in time. The workers will work keeping in mind local lifestyle, religion and behaviors. Spread water minimum twice a day. Insure no disturbance on road. 	All the comments are address in DPR and ESMP

Date	Consultation	Composition of	Issues raised	Response from project
	type	participants		
			• If infrastructure dismantled make them as	
			soon as possible.	
			• In working time, please contact with local	
			people.	
30 September,	FGD – Ward	Ward No. 11, Beltari	• In working time, please contact with local	The comment address on
2023	11	Tole, Beltari Tole	people.	construction period.
		Development	• Dust and smoke control.	
		Committee,	• If infrastructure dismantled make them as	
		5 members with 3	soon as possible.	
		indigenous people	• Local people must be employed on road	
			construction	
			• Make road without dismantle DWSS.	
30 September,	FGD – Ward	Ward No. 11, Beltari	• The project should accomplish with quality	The comment address on
2023	11	Tole, Kalika Beltari	as soon as possible.	construction phase
		Aama Samuha,	• Local people must be employed on road	
		5 Participants with 2	construction priorities female.	
		Indigenous people	• Safe environment while working.	
			• Road construction information must know in	
			time	
			• In working time, please contact with local	
			people including women group.	
30 September,	FGD – Ward	Ward No. 11, Beltari	• Please no disturbance on DWSS.	The comment address on
2023	11	Tole, Beltari Ranipani		construction phase
		DWSS,		
		7 participants with 3		
		indigenous people		
29th September,	FGD - Ward	Ward No. 11,	• Local people must be employed on road	All the comments are address
2023	11	Farakchaur,	construction.	in DPK and ESMP
		Farakchaur Aama	• Constriction work should be complete in	
		samuha,	time.	

Date	Consultation	Composition of		Issues raised		Response from project
	type	participants				
		10 participants with 2	•	Coordinate local people while working.		
		indigenous people	•	Do not make noise while working.		
			•	Coordinate with local people while working.		
29th September,	FGD – Ward	Ward No. 11,	•	Spread water twice a day.		The comment address on
2023	11	Farakchaur Tole, 11	•	Make central point and take both sides		construction period.
		participants with 7		equally.		
		females	•	Local people must be employed on road		
				construction.		
			•	Safe DWSS and Irrigation cannel.		
1st October,	FGD – Ward	Ward No. 11,	•	Make quality road in time.		The comment address on
2023	11	Buldikhola Basant	•	Local people must be employed on road		construction period.
		Tole		construction.		
		10 participants with 1	•	Safe environment while working.		
		indigenous people	•	Must place street light.		
1st October,	FGD – Ward	Ward No. 11,	•	When road wide must use governmental land		The comment address on
2023	11	Shrijansil Tole,		instead of personal land.		construction period.
		Shrijanshil Tole	•	Prepare waiting shade in road edge.		
		Development	•	If infrastructure dismantled make them as		
		Committee,		soon as possible.		
		8 participants with 4	•	Shifting electric pole with the suggestion of		
		indigenous people		local people.		
			٠	Make street light with the suggestion of local		
				citizen.		
29th September,	Meeting	Total Participants	•	Shouldn't damage any existing public	•	Public facilities will not be
2023		22Nos., Simaltar		infrastructure facilities like electric poles,		damaged and proper
		Chowk		water supply pipe lines, and irrigation canals.		relocation will be done.
			•	the air during construction phase	•	will be done during the
			•	Noise level in the project area		construction phase.

Date	Consultation	Composition of	Issues raised	Response from project
	type	participants		
			• Must protect the cultural and religious sites, resting place.	• Speed limit and no horn sign will be placed wherever necessary to minimize noise level.
29th September, 2023	Meeting	Total Participants 27Nos., all IPs, Kumal tole, ward-9	 Road structure must be of high quality. Emphasis for the local labor. Noise level and air pollution must be minimum in the project area Must protect the cultural and religious sites, resting place. 	 The quality of the road and road furniture will be of high quality as per design and there will be close monitoring by the consultant, PIU, pmst, PCO and world bank authorities. Two times water spraying will be done during the construction phase. Speed limit and no horn sign will be placed wherever necessary to minimize noise level.
30 September, 2023	Meeting	Tota Participants 26Nos. (Beltari tole, ward-11)	 Local man power should be used for construction work. Women and marginalized group must be given priority for work Environmental problem such as dust, noise and water pollution must be monitor seriously 	 Contractor will hire local man power for the construction work as far as possible Environmental problem will be monitor closely and precaution will be taken to minimize such problems Training and awareness programs will be conducted for the local people including women and other marginalized groups
1 st October, 2023	Meeting	Tota Participants 24nos., Ghasikuwa	Resting place (chautaro must be saved	• There will be no damage to the resting place and construction will be done

ESMP for the Upgradation of Parasar Marga, Vyas Municipality

Date	Consultation	Composition of	Issues raised	Response from project
	type	participants		
		tallo Poland tole, ward-11	• Physical facilities' such as eater supply, irrigation canal and electricity poles must not be damaged	 protecting such resting places. Physical facilities will not be damaged but if get damaged, it will be repaired accordingly
29th September, 2023	Meeting	Total Participants: 27, Dhairaini tole, Ward- 10	 Spread water over road surface for dust reduction. Local man power should be used for construction work. Safe DWSS and Irrigation canal 	 Contractor will hire local man power for the construction work as far as possible Water will be spray during construction. Precaution measures will be used to safe guard the water supply and irrigation canal.

Annex IX: Photographs

Pictorial highlights of consultations





Community consultation with concern people at
Adheribhanjyang, Vyas - 10After Interaction
Vidhyalaya Vyas - 7Vyas
NagarNagar
Samata





Consultant meeting with Ward no 7 Farakchaur community, the meeting chaired by Krishna Neupane Ward Chair ward no -7.



Consultant meeting with Kumalgaun Vyas- 9, about road, drinking water, safe environment, infrastructure etc.



Consultant meeting with Kusume Kumalgaun DWSS, Vyas- 7 Consultant meeting with Ward no 11 community at Ghashikuwa (starting point of Parasar Marg), the meeting chaired by Dal Bdr. Dura, Ward Chair ward no – 11.