



Design and Supervision Consultant for Nepal Urban Governance and Infrastructure Project

Ref. No: - 15-2024/25

To The Municipal executive Dhankuta Municipality Project : Upgrading of <u>(Shandeshwor Temple)</u> -Bhirgaun-Madhuganga Road (NP-DUDBC-396323-CW-RFB

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Subject: Publication of C-ESMP Report on Municipality web-site

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Ref.: Loan No. /Credit No.: IDA-6778-NP; Nepal Urban Governance and Infrastructure Project (NUGIP); Upgrading of <u>Hile (Shandeshwor Temple)-Bhirgaun-Madhuganga Road, Dhankuta ; Contract Identification No: NP-DUDBC-</u> <u>396323-CW-RFB</u>

Dear Sir

We hereby certified the **C-ESMP Report** prepared by M/S **Ashish /Aashirbad /Swaminarayan JV** on 7th July 2024 and forwarded for your approval and to make necessary action for publication on Municipality web-site. Your consideration will be appreciable.

With Best Regards,

Vijay Chapagain Team Leader (PEA/BN/ST JV) Site Office Hile, Dhankuta



CC

- 1. Er. Migama Dorgee Sherpa (Focal Person) NUGIP, Dhankuta Municipality
- 2. Er. Laxman Acharya. (MD) PEA-BN-ST JV, Kathmandu



Dhankuta Municipality Office of Municipal Excutive Dhankuta Koshi Province, Nepal

Hile (Sadeshwor Temple) – Bhirgaun – Madhuganga Road

Upgradation Project



Contractor's Environmental and Social Management Plan

(C-ESMP)

Nepal Urban Governance and Infrastructure Project (NUGIP)

Credit No. IDA-6778-NP

Submitted To:

Plush Engineers and Architects Pvt. Ltd. (PEA), B.N Consultancy Pvt. Ltd. and Soil Test J.V.

Submitted By:

Ashish- Aashirbad-Swaminarayan J.V. July, 2024

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ACCRONYM

AIDS	Acquired Immune Deficiency Syndrome
BoQ	Bill of Quantity
CBS	Central Bureau of Statistics
CESMP	Construction Environmental and Social Management Plan
Ch	Chainage
CoC	Code of Conduct
COVID	Corona Virus Disease
DO	Dissolved Oxygen
DPR	Detailed Project Report
DSC	Design and Supervision Consultant
DTO	District Transportation Office
DUDBC	Department of Urban Development and Building Construction
EA	Environmental Assessment
EC	Electrical Conductivity
ECOP	Environment Code of Practice
EHS	Environment Health and Safety
EPR	Environment Protection Rules
ESIA	Environmental and Social Impact Assessment
ESMP	Environmental and Social Management Plan
ESO	Environment and Safeguard Officer
FGD	Focal Group Discussion
GRM	Grievance Redress Mechanism
GRC	Grievance Redress Committee
GoN	Government of Nepal
GBV	Gender Based Violence
HIV	Human immunodeficiency viruses
ICT	Information, Communication and Technology
NUGIP	Nepal Urban Governance and Infrastructure Project
OHS	Occupational Health and Safety
OP/BP	Operational Policy/Bank Policy
PCO	Project Coordination Office
pН	Potential of Hydrogen
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
TSPM	Total Suspended Particulate matter
TSS	Total Suspended Solid
WASH	Water Sanitation and Hygiene
WB	World Bank

INTRODUCTIONS

The Contractor's Environmental and Social Management Plan (C-ESMP) has been developed to ensure that any negative environmental and social impacts of the upgradation road project are minimized and any possible environmental, safety and social efficiency benefits are maximized during project in Dhankuta Municipality, Dhankuta District. Ward 1 and Ward 2 lies in the proposed alignment of this project. This CESMP provides practical guidelines for environmental and social management to ensure that all measures undertaken by the Project's Proponent, Contractors, Engineers and supervisors have minimal impact on the environment and surrounding communities and are fully aligned with the policies of the Government of Nepal (GoN) and the World Bank's safeguards requirements, incorporating recent approaches, lessons learned, and past experiences to enhance its effectiveness during construction, operation and completion of the project. The C-ESMP was prepared based on the recommendations and guidelines outlined in the Environmental and social Management Plan (ESMP) along with the findings of the Environmental and Social Impact Assess (ESIA) prepared by Dhankuta Municipality office in 22nd July 2022.

The Upgradation work of this project encompasses Hile bazar at Shadeshwor temple to Bhirgaun in ward number 1 and Gajar chowk in ward number 2 within Dhankuta Municipality of Dhankuta district in Koshi Province of Nepal. Hile Bazar is the main route to other hilly districts like Bhojpur and Shankhuwasabha. Hile bazaar is one of the largest in the area with a breath-taking view attracting Indian/Nepali tourists and people from surrounding villages. Geographically, project alignment starts at a location of 27°2'7.69" N, 87°18'52.41" E and end co-ordinate is 27°1'7.89" N, 87°21'31.06" E. The Overall length of the proposed road is 7Km.

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 of the project alignment. Dhankuta Municipality will lead the planning, preparation, and execution of municipal infrastructure investments, aided by Design and Supervision Consultants (DSC) and the Project Coordination Office (PCO).



Figure 0-1: Location Map showing different road sections within Ward No. 1 and Ward No2 in Dhankuta Municipality

OBJECTIVES

This document is the Contractor's understanding of the safeguards aspects, safeguards requirements and its plan for the project and is used as a guideline for the management of the construction phase of the project. The overall objective of the project is to provide better road infrastructure to the the local communities with improved asesthetic of the existing road. Therefore, the goal of the C-ESMP is to identify possible environmental and socials impacts associated with the construction activities along with suggested mitigation actions and action plans for each impact identified. 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.

Besides, the basic objectives of the plan are as follows:

- i. To address specific environmental and social challenges arising from the road upgradation works.
- ii. To outline site specific strategies and actions to effectively manage and mitigate impacts associated with the ongoing project work.
- iii. To ensure that all mitigation measures and monitoring requirements will be carried out at different stages of project implementation and operation - pre-construction, construction, and operation and maintenance to meet project's commitments to reduce environmental and social adverse effects.
- iv. To ensure sustainable practices, regulatory compliance and the protection of ecosystems and natural resources are upheld.
- v. To coordinate with relevant bodies like ministries, departments, and agencies, identifying unforeseen environmental and social impacts and suggesting mitigation measures to address it.
- vi. To secure top management commitment in the environmental and social safeguard measures in the project area
- vii. To engage local communities addressing their concerns and minimizing socio-economic impacts.

PROJECT INFORMATION

The Upgradation of Hile (Shadeshwor Temple) - Bhirgaun - Madhuganga Road', Dhankuta Municipality is connected to Koshi Highway through urban road network at 0.31km away from starting chainage of proposed alignment (Hile). The proposed road alignment is connected to various settlements by the route from Shadeshwor temple (Hile) to Bhirgaun having various toles and chowks as thing tole, Lakhan chowk, lama tole, siru dada, cross chowk, , Gajar chowk. The road connects ward number 1 and ward number 2. The overall length of the proposed road is 7Km. The settlement of this area is scattered lying in hilly slopes on both sides of the alignment. There are various alternative routes connected to the proposed road.

The ROW was declared in 2055 BS by Municipality with the help of "Eastern area Directorate" under Ministry of Building and Physical planning, Government of Nepal. According to declared criteria-2055 by "Eastern area Directorate", the ROW of this road is 8m throughout. The proposed width of the road is 6m to 6.8m having carriageway width 4 to 5m. The components of the proposed roads are improvement of pavement, footpath, kerbs, covered drains, box culvert, road crossings, retaining wall/breast wall, zebra crossing, shifting of electric poles, shifting of some resting place. The proposed alignment is planned as double lane road with 6m width with right of way of 6.8m throughout.

The bid amount for the road upgrade works is NRs 525903,279.77 for 7 Km (including Vat and contingency) Additionally, the total cost of the Environmental and Social Management Plan (ESMP) is NRs 2,385,000.00(including Vat and contingency) for 7 km package.

Environmental impacts such as dust emissions, noise pollution, occupational health and safety concerns, road safety measures have been identified. There are some landslide prone areas in the proposed alignment. These impacts will be mitigated through the implementation of measures suggested by a site-specific Environmental and Social Management Plan. The main rivers of the project municipality are Nibuwas khola and Madhuganga Khola which will not have direct impacts of the proposed project.

N Des	scription	Description	
Nai	me of the Road	Urban Road	
Roa	ad Types a) Road length	7 Km	
	b) Start Point	Hile (Shadeshwor Temple)- WN1	
	c) End Point	Bhirgaun –WN2	
Rig	tht of Way (ROW)	8m wide throughout the road project	
Nu	mber of Lane	Intermediate	
Mir	nimum Available width	6.0m to 6.8m	
		(There is existing land, beyond existing road	
		width, which can be leveled for further widening of the road)	
Min	mber of Lane	Intermediate 6.0m to 6.8m (There is existing land, beyond ex width, which can be leveled f widening of the road)	

6	Road Attributes	Existing	Proposed
7	Road Width (Road width for design has been taken as per the existing width available and it is in public use at field at present)	 From 0+000 to 0+910 km - 6.05 m From 1+445 to 1+770 km - 6.05 At remaining stretches - 6.55 m 	
	Carriageway Width	5.5m	
	Pavement Surfacing	Asphalt concrete (Flexil (Rigid pavement)	ole pavement) and RCC
8	Terrain Type	Hilly	
9	Climate	Moderate (Ranging throughout the year	from 8°C to 28°C
10	Geology	Sub Himalayan	
11	Wards and Major settlements	Dhankuta Municipality	WN1, Bhirgaun WN2
Design F	Parameters	·	
12	Design speed of Road	30Km/Hr	
13	Maximum Gradient	Exceptional Gradient up	to 12%
14	Minimum Gradient	0.3%	

Note:

Right of Way- RoW defined by the municipality;

Carriageway Width- Black Topped Road Width;

3.1 Existing environmental conditions along road Alignment

The project area encompasses scattered settlements, with major settlements stretched along the alignment of thing tole, Lakhan chowk, lama tole, siru dada, cross chowk, Gajar chowk. Notably, there are no public or private structures within the formation width of this sub-project, nor are there any built-up structures or permanent houses along the road's formation width. There are many small spring sources near the alignment which is the only drinking water source in the area. There are several pipe lines running parallel or crossing the alignment for the supply of drinking water. The average gradient of the road varies from 0.35 to 4%. There are three community forests near the project alignment which will not have direct impact of the project.



Figure 0-1: Organogram of overall C-ESMP Team



Figure 0-2: Contractor's Team for ESMP Implementation

POTENTIAL IMPACTS AND SITE CONDITIONS

4.1 Land Use and Land requirement

The proposed RoW of the road declared by the Dhankuta Municipality is 8m and the formation width of the proposed road is 6m-6.8m for this road upgradation project. The width required for road upgradation works is already available and is in public use. Hence, there will be no issue for additional land requirement. The area of influence does not contain built-in structures and cultivated land. Therefore, site clearance work is not required. There is a temple (Jalkanya Devisthan) in the proposed road alignment which will be preserved as it is. There are two community forest (Chapehit C.F., Dhatkharka C.F.) along the proposed project area, it does not fall under direct impact zone. However, sign board with traffic safety rules, signs with alternative road provision during road obstruction will be installed in such areas. There are very few settlements along the alignment and much of the land are barren or cultivated land. There are few suppressed areas referred as Kholsa at different chainage, there will be few discharges which will be managed by proper construction design.

4.2 Air/Dust Emission, Noise Pollution and water Quality

During the construction and operation phases, it is important to consider potential issues such as dust and vehicular gas emissions caused by the movement of construction vehicles. These concerns will be particularly intense in the vicinity of the construction sites. Dust can have adverse effects on nearby settlements in the project site, and upon construction workers, as well as road-side vegetation and properties along alignment. Since the majority of construction activities will take place during the dry season, localized high levels of dust emissions are expected. To mitigate this, water sprinkling will be carried out to suppress dust during construction. Water sprinkling will be carried out twice a day at active road stretches during the dry season, and as per site requirements under other conditions. Additionally, materials will be covered during haulage of construction materials, and material delivery vehicles will be covered to prevent blowing of dust. Waste burning will be strictly prohibited. Use of fuel wood in the campsite will be strictly avoided and provision of LPGs, electric cook heaters will be used. These measures will be the responsibility of the contractor, and will bear the associated costs.

Furthermore, the movement and operation of heavy construction equipment like breakers, rollers, tippers, and chip spreaders may generate noise that could be a nuisance to nearby residences, school or office areas. Therefore, rush hours are avoided for the delivery of the construction materials. To minimize effect of noise, mixing plants and batching plants will be establish at an acceptable distance from the active areas (chowks) or nearest settlements and the pressure horns near settlement area will be restricted.

The drinking water source of the project area is Spring Source of water managed by community which is only source of water supply in the project area. The water quality of the spring source water used for drinking purpose is satisfactory. There are 470m of pipelines that supplies water to 20 household needs to be reinstated prior to the construction. Therefore, these pipelines for the supply of drinking water lie along the alignment which will be managed properly during the construction.

4.3 Camp Site and Stock piling

The campsite is situated in ward number 2 and agreement has been made with the land owner. There is provision of separate camp sites for male and female. Female camp is situated towards north and male camp site lies to the south of the proposed road alignment. Both the camp sites provide accommodation for labor rooms, kitchen, drinking water facility and proper toilets. Male camp site has offices, laboratory, security room, storage for equipments, first aid area. The camp site has separate stock piling area for the storage of construction materials. To minimize impact of stock piles as fuels, chemicals and paints which could pose accidental risk, they will be stored separately on a concrete base foundation and fire extinguisher will be kept at proper location. Stock materials as sand aggregates which will cause dust problem and have medium impact or site specific impact, will be covered to prevent from blowing. The site will be well fenced, and provided with a full time security. The construction materials will be covered and the site will be provisioned with proper lighting system. Fuel and chemicals/paints will be stored in well container systems with proper book-keeping. Before the commencement of construction activities, the appointed Contractor will be responsible for site preparation.



Figure 0-1 Male camp site and stock piling site

Figure 0-2Female camp site

4.4 Quarry Site

The upgrading of road requires boulders, sand and aggregate for activities like gravelling, construction of retaining walls, side drains and other structures. It is estimated that around 9600 m3 of granular sub-base materials and 3700 m3 of base materials will be required for the project. These construction materials are being brought from IEE approved quarry sites at the Arun River (Leguwaghat) at a distance of 36 Km from the project area.

Transportation of quarry materials is of concern to have dust and air pollution for short period of time with medium impact. To minimize these impacts, quarries will be well covered with plastic while transporting it to the site. The vehicles used for transporting quarries will be maintained timely as per the requirement and will be kept in good condition.



Fig 2.3. Location Map of Quarry site at Arun River

4.5 Solid Waste Management

Solid waste generated from office and labor campsites will be very small in quantity. Therefore, waste will be collected in two separate-colored bins for decomposable and non-decomposable waste and will be managed within the campsites on regular basis. Campsite and work site will be kept clean by brooming regularly.

Soak pits or septic tanks will be established for the sanitation units/latrines at appropriate location within campsites. Debris or construction waste will be managed properly in identified location till it is managed properly. Also, 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 off in coordination with the local ward/municipal authority through existing solid waste management (collection & disposal) system of the municipality.

To ensure proper handling of hazardous materials, separate storage areas will be established specifically for punctured containers such as drums and flasks. These containers will be processed for sale to scrap dealers, following appropriate guidelines and regulations. The project will adhere to 3R principle (Reduce, Reuse and Recycle) of solid waste management wherever it is possible. By adopting these waste management practices, the project will seek to minimize the negative effects associated with solid waste generation including unpleasant odors, visual impacts and health hazards. It underscores the commitment to responsible waste disposal and protection of the local environment.

4.6 Spoil management and Borrow pits

As per the Detailed Project Report (DPR) for the road construction project, there is a surplus of earth cutting over filling work. Following the backfilling, it is estimated the 30,000m³ construction spoil will need to be managed in appropriate site. A designated spoil disposal site has been identified in an open public space and agreement will soon be made. As per DPR, the quantity of earthwork cutting is more than earth filling work, thus there is no need of borrow pits in this sub project however for ease and future requirement, borrow pits will be identified.

4.7 Road Stability

The road crosses a number of depressed areas (kholsa) in the vicinity of spring water source at different chainage. In such areas, certain discharge is prevalent. Therefore, it is important to have cross-drainage practices to protect both the flow of the water and the roads. 42 numbers of pipe culverts and 1 number causeway is suggested in design.

4.8 Occupational Health and Safety

During the construction phase, it is crucial to prioritize the safety and well-being of the workers, considering the potential risks and hazards they may face. There is a possibility of health issues arising from exposure to dust, including respiratory and eye diseases. Risks of injuries and accidents, and health issues of workers is one of the potential impacts. Since road project involves hauling of materials like boulders, excavation works, masonry works and other regular construction related works, the workers are always prone to health risks. In addition to this, if the provisions of drinking water and WASH are not adequate, then water borne and other diseases are likely to affect the health of the workers.

To address these concerns, comprehensive training programs will be conducted for construction workers, focusing on health and safety practices. This training will cover sanitation and various aspects of construction-related injuries and will include First Aid training. Special attention will be given to labor camp management and ensuring labor safety. It is essential to orient the workers about labor camp management guidelines and Occupational Health and Safety (OHS) guidelines to ensure compliance.

The contractor will be responsible for maintaining records of any incidents or accidents that occur during the construction period. These records should be made readily available when requested by the client for review or documentation purposes. To protect the construction workers, Personal Protective Equipment (PPE) such as helmets, gumboots, masks, goggles, and other necessary gear will be provided. Furthermore, the usage of PPE will be closely monitored to ensure compliance with safety regulations. The contractor is expected to strictly adhere to the contractors' clauses as specified in the bid document, emphasizing their commitment to safety protocols and guidelines. By implementing these measures, the project aims to safeguard the health and well-being of the construction workers, minimize accidents, and promote a safe working environment throughout the construction process.

SITE SPECIFIC ESMP (C-ESMP)

5.1 The specific impacts and relevant measures have been provided in table below;

Stage	Impacts	Mitigation Measures	Responsibility
Physica	l Construction		
1.	Shifting of electric poles will be required during construction.	 Coordination with the electricity authority for shifting and installation of the electricity poles will be carried out. The process should be 	Municipality/DSC and Ashish- Ashirbad- Swaminarayan JV in coordination with NEA.
		completed prior the beginning of the road construction.	
2.	Relocate of Water Supply Pipe likely to be affected during construction.	 Water supply pipe lines will be relocated or reinstated in coordination with the <i>Hile Khanepani</i> <i>Tatha SarsafaiUpabhokta</i> <i>Samiti</i>. Agreement is attached in Annex 6 The project will work in close coordination with the Water Supply Management Committee regarding disruption of water supply system in road section Alternative means of supply during the disruption and re- establishment of the system will be done as soonest. (drinking water will be supplied from tanker at the site) 	Municipality/DSC and Ashish- Ashirbad- Swaminarayan JV in coordination with water supply management committee

Table 0-1Site Specific Impacts and Measures

 Land Use Concern
 • Leaseholder or rental contract will be maintained for any temporary land required for the project.
 Ashish-Ashirbad-Swaminarayan JV

Ouarrying Material and Operation	•	Fertile topsoil will be conserved and reapplied as and when possible. All the temporary acquired land will be rehabilitated into previous state or better than the earlier state maintaining natural drainage and acceptable to the land owner/DSC. Spoil disposal sites of WN 1 & WN 2 will be reclaimed to open space with proper grade. Prior notification (2 months before award of construction contract) will be given to prohibit crop plantation within the road RoW.	Municipality/
(Page no.11; para4.4)	•	adverse environmental impacts arising out of quarry construction material exploitation in line with MOFE guidelines/ conditions / recommendations. The construction materials will be brought from quarry sites located at Tamor River, 45km away from project area and will be from licensed vendors having environmental clearance So, the direct impact of quarries is not expected in this project. The municipality in support of DSC will monitor the quality and quality of quarrying material and state of quarry sites.	DSC and Ashish – Ashirbad - Swaminarayan JV
Issues of stockpiling and construction material (Page no.10; Para 4.3)		 The proposed stock piling area is located at (lama tole) Chokrok of WN 2. Proper insulator cover and proper drain will be 	Ashish-Ashirbad- Swaminarayan JV

Borrow Pits (Page no. 12; Para 4.6)	 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 site will be well fenced, and provided with a 24-hour guard. The site will be provisioned with proper lighting system. Obtain written permission from landowners and local bodies for stockpiling on their land. Stock of sand will be set wet to prevent it from blowing with the wind; water sprinkler will be used for this purpose. The area could be leased or rented based on price not lower than the prevailing market price Public land or government land which required filling will be selected for borrow pits, landscaping and tree plantation along the excavated borrow pits. 	DSC/PIU, Ashish- Ashirbad- Swaminarayan JV
Spoil Disposal	 Disposal of spoil into water bodies will be strictly prohibited. Generated spoil will be disposed only at designated spoil 	Ashish-Ashirbad- Swaminarayan JV

	disposal sites.	
	 Designated spoil site will be public land and agreement will be made. All the identified spoil disposal sites will be rehabilitated after disposal, with vegetation covering. 	
Ambient air pollution (Air pollution due to construction in the locality)	 Water sprinkling (at least 3 times a day) at dry exposed surfaces and stockpiles of aggregates as necessary. Require trucks delivering aggregates and cement to have tarpaulin cover. Limit speed of construction vehicles in access roads to maximum of 30 km/Hr All diesel generators, haul trucks, pavers, graders, and rollers, required to comply to regulations prior to use (Motor Vehicles and Transportation Management Act 2049 (Third Amendment) Rules, 2066 (2010). No firewood for cooking and heating bitumen and incineration of wastes will be allowed by the contractor. Burning of waste (from campsite) will be strictly prohibited. 	Ashish- Ashirbad- Swaminarayan JV (Supervision support of Design & Supervision Consultant)
Noise Nuisance	• Involve the local authority and the community in planning the work program so	Ashish- Ashirbad- Swaminarayan JV
	that any particularly noisy or otherwise	(Supervision

	increasing activities and	annant of Design
	he scheduled to sucid	support of Design
	be scheduled to avoid	& Supervision
	sensitive times	Consultant)
•	Restrict noisy	
	construction activities at	
	night-time	
•	Minimize drop heights	
	when loading and	
	unloading coarse	
	aggregates	
	• Workers will be	
	provided with	
	appropriate ear	
	muffs/plugs specially at	
	crusher site	
•	Horns should not be	
	used unless it is	
	necessary to warn other	
	road users or animals of	
	the vehicle's approach	
•	Utilize modern vehicles	
	and machinery with the	
	requisite adaptations to	
	limit noise and exhaust	
	emissions, and ensure	
	that these are	
	maintained to	
	manufactures'	
	specifications at all	
	times	
•	Soft horns to be used,	
	and use silent type	
	generators (if required)	
•	If it is not practicable to	
	reduce noise levels to or	
	below noise exposure	
	limits, the contractor	
	will post warning signs	
	in the noise hazard	
	areas. Identify any	
	building at risk from	
	vibration damage and	
	avoiding any use of	
	pneumatic drills or	
	neavy vehicles in the	
	vicinity	
	Contractor will monitor	
	noise level along the	
	construction site	
	monthly.	
•	Complete work in	
	settlement areas as	
	quickly as possible	

Impact on water bodies	•	Farthworks generating	Ashish-
impact on water boules	•	higher amount of spoil	A shirbad-
(40 nos of kholes situated at		will be conducted	Swominorovon
diferent distance to have direct		during dry season to	Swannnarayan W
different distance to have diffect		avoid the difficult	JV
impact)		working conditions that	(Supervision
		prevail during monsoon	
		season such as problems	support of Design
		from runoff.	& Supervision
	•	Location for stock yards	Consultant)
		for construction	
		materials are identified	
		away from water	
		courses. Place for	
		storage of fuels and	
		lubricants will be away	
		loading to water bodies	
		Washing of project	
	•	vehicles at river banks	
		will be restricted	
	•	Proper storage of	
		chemicals and	
		lubricants, use of	
		spillage kit to avoid	
		spillage. Take all	
		precautions to prevent	
		entering of wastewater	
		into streams,	
		watercourses, or	
		irrigation system. Install	
		temporary silt traps or	
		While working corose or	
	•	close to any water body	
		the flow of water must	
		not be obstructed	
		Ensure no construction	
		materials like earth,	
		stone, are disposed in a	
		manner that may block	
		the flow of water of any	
		watercourse	
	•	Proper and timely	
		implementation of	
		design measures to	
		avoid impact of water	
		point	
		Any disposal on Nibuwa	
		khola & Madhuganga	
		khola will be prohibited	
		fishing by the workforce	
		will be strictly	
I	ı	54144	

	 prohibited; Washing of project vehicles along the river bank will also be prohibited; Awareness activities will be carried out for the workforce (during 1st & 3rd Quarters - Yr. 1; at least 30 participants/event) 	
Solid Waste at camp site and offices/Quarters. (Page no. 12; Para 4.5)	 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. Containment of hazardous waste will be carried out. Awareness raising event will be carried out. Awareness raising event will be re-used, sold to local scrap dealers. Coordination with local municipality team for final disposal into the municipality's waste collection & disposal system. 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 every quarter 	Ashish- Ashirbad- Swaminarayan JV
Ouldis	• Contractor Will	79111911-

	dispose all the chemical wastes generated during the time of construction safely without interrupting the existing nearby settlements, water bodies, forests and wildlife.	Ashirbad- Swaminarayan JV
Physical (Operation & Maintenance Phase))	
Road Stability and Drainage Management	 Regular/periodic maintenance of the road Construction of drainage system to mitigate possible inundation in the settlements along the project alignment Ensure proper compaction as per design Awareness activities to be carried out in community level to reduce the incidences of disposal of waste into road-side drains 	Dhankuta Municipality /Ashish- Ashirbad- Swaminarayan JV
Air pollution and Noise nuisance	 There should be a consensus between municipality, District Transportation Office, Transportation Entrepreneur, and the local people regarding the operation of conditioned vehicles Campaigns like 'No Horn' and use of softhorns can be initiated by the local authority 	DTO, Ashish- Ashirbad- Swaminarayan ,transportation entrepreneur, local people
Water pollution	 Disposal of any septic or construction wastewater into the roadside drains will be strictly prohibited Washing of public and private vehicles at river banks will be restricted 	Dhankuta Municipality / Ashish- Ashirbad- Swaminarayan JV

Biological (Construction Phase)	
Risk of use of forest wood by the workforce	 The workers will be strictly prohibited from entering forest areas and fetching fuel wood Coordination will be carried out with the local representatives and CFUG members Awareness activities will include these aspects as well Ashish-Ashirbad-Swaminarayan JV
Socio-economic and Cultural (Construction	Phase)
Impact on property from vibrations due to the use of heavy machinery and other construction activities	 Establish photographic and video graphic evidences of structures and properties in and alongside proposed road width; cracked walls will be reinstated. A proper plan will be prepared before working in densely population sections along road alignment like Shadeshwor chowk, Lakhan chowk, and Gajar chowk Conducting excavation works at critical sites under close observation of the local representatives Awareness raising, information and dissemination about GRM (meetings, monitoring and logistic costs@ 1 meeting every month) GRC minutes and records will be properly maintained in the camp and communicated to the complainant.
Protection of Chautari, patis and Jalkanya Devithan	One chautari (with Bar- Peepal trees) and 1 public rest place (Pati) will be conserved and additional protection

Difficulties in access & mobility to private properties and premises	 works will be done Similarly, Jalkanya Devithan at chainage 5+180, lying just adjacent to the road alignment will be protected Diversions and proper crossings will be available for elderly, children and differently-able people in the construction phase to ensure their mobility is not impacted during construction. Elderly people should have access to socialize and meeting people and family to nurture their mental need/health. Metal planks and wooden planks will be placed to ease the access to private houses and shops (tentatively 20 sites) In total 19 ramps have been provisioned. Provisioned ramps at different chainage is provided in Annex 13 	Ashish- Ashirbad- Swaminarayan JV
Road safety & Community safety	 'Drive slow' messages will be placed along the active sites. Hard Barricades (ie. wooden, metal, bamboo etc.) will be placed to avoid any accidental falls Sign boards (reflective sign boards where needed) with safety messages and warnings will be placed in local languages all along the alignment at the construction sites and 	Ashish- Ashirbad- Swaminarayan JV

		at the trench excavation	
		area.	
	•	Construction works to	
		consider elderly,	
		women, child &	
		differently able people	
		(EWCD) requirements.	
	•	Trenches will be	
		backfilled with	
		immediate effect.	
	•	Carry out site	
		management practice	
		such as the fencing	
		around work area and	
		road signage.	
	•	Increase public	
		awareness of safety,	
		health and	
		environmental issues	
		by providing	
		information directly	
		and indirectly through	
		campaign.	
	•	Display appropriate	
		signage for use during	
		construction and	
		implementation of the	
		project to enhance	
		awareness creation on	
		the project	
		The contractor will be	
	•	The contractor will be	
		Traffic Management	
		Dian	
		riall.	
		The contractor will	
		assign a safety	
		supervisor and will	
		monitor daily	
		construction works in	
		terms of health and	
		safety.	
		-	
	•	Awareness activities	Ashish-
		will be conducted to	Ashirbad-
		inform & aware locals	Swaminarayan
		regarding potentials	JV
		risks and proposed	
		safety measures related	
		to the project activities	
Occupational Health & Safety	•	Personal Protective	Ashish-
		Equipment (PPEs) will	Ashirbad-
		be provided to the	Swaminarayan

workers and its use	IV
will be monitored	with Supervision
closely	with Supervision
• Benlacement of PDE s	support of DSC,
after 'wear & tear' at	and coordination
least every quarter	of PIU
Eirst aid bayas will be	
• First and boxes will be	
provided at campsites	
working sites (the kits	
to be refilled and	
undated every month)	
• CoC will be	
implemented for the	
operators drivers and	
labors	
• Workers and laborers	
also can approach GRC	
and GRM of the	
project for any project	
related concerns of	
OHS and GBV	
• Proper WASH	
provisions will be	
provided in the labor	
camps	
• Drinking water quality	
monitoring (at least 1	
sample/quarter x - total	
of 6 times)	
• Provision of potable	
water for the workforce	
will be ensured	
• Toilets will be provided	
at the ratio of at least 1	
unit for 15 people.	
• Provision of insurance	
to cover physical	
damage to workers.	
• Drivers with authorized	
license holders will	
only be allowed for the	
operation of	
construction vehicles.	
• Workers and staff at the	
construction site will	
be provided with	
proper training to	
ensure that workers are	
trained on what to do in	
the event that an	
accident occurs on site.	
• The contractor's	
supervisors should	

conduct 'pre-work	
instructions' to the	
workers everyday -	
explaining them about	
the nature of works	
andition of the site	
condition of the site,	
and associated fisks as	
well as safety	
measures.	
• Agreement with nearby	
health institution will	
be in place by the	
contractor	
Contractor will be	
• Contractor will be	
responsible to maintain	
ine records of each and	
every accident and	
incidence and will	
make available to	
DSC/PCO/PMST as	
and when required.	
• Ensure protective	
measures for CoVID is	
followed prepara and	
follow SODa by all	
Ionow SOPS by an	
workers and staff for	
CoVID (social	
distancing,	
immunization, hand	
washing, using	
sanitizer, masks etc)	
including the	
community health and	
safety awareness and	
management	
Health screening of the	
• meaning of the	
workers will be carried	
out before joining them	
into workforce	
• Emergency Response	
Plan will be	
implemented during	
any critical	
circumstances (e.g.	
CoVID spread)	
covid spicad)	

Grievance Redress, Risk of	Grievance Redress	PIU/DSC/
SEA/SH, Human trafficking, GBV,	• Clear and timely	Ashish-
HIV AIDS and Disease X like	dissemination of	Ashirbad-
COVID and Stakeholder	project information,	Swaminaravan
Engagement Plan	and safeguards aspects	IV
Eligagement Flan	including anti-	5 1
	harassment cell;	
	Coordination with the	
	local stakeholders	
	• Awareness raising,	
	information and	
	dissemination about	
	GRM and GBV	
	(meetings, monitoring	
	and logistic costs@ 1	
	meeting every month)	
	• GRM will include	
	mechanism for	
	referring to SEA/SH	
	related grievances	
	Risk of SEA/SH, GBV	
	• Locals will be given	
	due priority for any	
	employment	
	opportunity	
	• CoC will be	
	implemented for the	
	operators, drivers and labourers	
	• Separate toilets will be	
	provided for male and	
	female workers	
	• SEA/SH, GBV	
	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	
	will be conducted for	
	the workers as well as	
	the local community	
	regarding these	
	concerns	
	• orientations/trainings	
	with at least 25 to 30	
	participants in each	
	training; to be	
	conducted during first	

2nd & 3rd Quarter -
Year 1
Risk of Infectious
Diseases (HIV AIDS
TR Covid etc)
<u>IB, Covia etc)</u>
Awareness creation and
sensitization to workers
and other persons post-
project to reduce or
eliminate chances of
infactions of UIV
Infections of HIV-
AIDS and other
sexually transmitted
diseases
• Distribute HIV &
AIDS awareness
matoriala in
inateriais in
collaboration local
health related agencies
• Health screening of the
workers will be carried
out before joining them
into workforce
• Ensure protective
measures for infectious
diseases like CoVID,
prepare and follow
SOPs by all workers
and staff for social
distancing
immunization, hand
washing, using
sanitizer masks etc
including the
community health and
safety awareness and
survey awareness and
management
• Emergency Response
Plan will be
implemented during
any critical
circumstances (e.g.
C LUD S
CoVID spread)
• 2 orientations/trainings
with at least 25 to 30
norticipanta in cash
participants in each
training; 1 event during
1st Quarter-Year 1,
another to be scheduled
as per requirement

	Human trafficking - focused on women & girl trafficking • Awareness program will be developed and implemented • 2 orientations/trainings with at least 30 participants in each training; during 3rd & 4th Quarter-Year 1
--	--

Child labour, forced labour and wage discrimination	•	Child labour& forced labour will be strictly prohibited Contact person's Phone number , address will be kept Citizenship card or other valid personal ID card will be maintained Awareness among the workers and local community regarding CoC Equal wage for male and female workers will be ensured Labor data will be maintained at the camp site	Ashish- Ashirbad- Swaminarayan JV
Traffic Management	•	Traffic sign boards and messages, in local languages, will be placed at main chowks, junctions and start-end points. Emergency traffic management plan should be prepared by the contractor and approved by the Project. 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, speed of transporting vehicles 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 making of proper security arrangements	Ashish- Aashirbad- Swaminarayan J.V.
Others	•	Information dissemination regarding project details, Grievance	Ashish- Aashirbad- Syaminarayan J.V. / DSC

	<u> </u>		
		Mechanism, and	
		environmental & social	
		safeguards aspects will	
		be disseminated to the	
	1	local through leaflets.	
		and local media	
Socio-economic and Cultural (Operation &	k Ma	intenance Phase)	
Traffic Accidents and		Paisa awaranass of	Ashish_
associated Bisks	•	traffic rules and	A shirth a d
associated Risks		installation of anod	Ashirbad-
		installation of speed	Swaminarayan
		numps to control speed	JV
		near pedestrian	
		crossing areas	
	•	Awareness will be	
		raised regarding traffic	
	1	safety	
	•	Speed limits will be	
		defined (20Km/Hr in	
	1	hair pin bends and	
	1	convection areas	
	1	adhering to Nepal Road	
	1	Safaty Standards 2070)	
		Safety Standards 2070)	
	•	Iraffic sign boards and	
		messages, in local	
		languages, will be	
		placed at main chowks,	
		junctions and start-end	
		points	
Community Health and Safety	•	0.7 m high Safety /	Ashish-
	1	Crash barriers with	Ashirbad-
	1	corrugated sheet-metal	Swaminarayan
		beam rail are provided	IV
		at sections with	JΥ
	1	turns/curves and	
	1	slones	
		Ramps are provided in	
		interlinking points and	
	1	merinking points, and	
	1	crossing points of roads	
	•	Installation of Road	
		markings at all major	
		as well as minor	
	1	intersections. Road	
	1	Signs and Road	
	1	Markings has been	
	1	provided as per Traffic	
		Sign & Marking	
		manual as per DPR	
	•	Reinforced Cement	
	1	Concrete covered drain	
	1	will be provided	
	1	throughout the	
	1	alignment in	
		integration	
	1	integration with	

	footpath.	
Impacts due poor maintenance of road-drains	 Awareness activities will be carried to stop disposal of waste into the road-side drains Drainages will be regularly cleaned under periodic maintenance 	Ashish- Ashirbad- Swaminarayan JV

COST ESTIMATE OF C-ESMP MITIGATION MEASURES

6.1. Summary of Cost Estimate

The summary of cost estimate of CESMP mitigation measures is outlined in Table 6-1 below:

SN	Items & Headings	Unit	Qty	Rate	Total, NPR
1	Water Quality Test	Sample	12	20000	240,000
2	Air Quality and Noise Quality Monitoring	Sample	3	70000	210,000
3	Conservation and protection works of 1 Chautari, 1 Pati, and boundary of Jalkanya Devisthan	Units	3	L/S	450,000
4	SWM works				150,000
5	Public safety (planks, etc)				150,000
6	Documentation for any vibration related damages				50,000
7	Awareness on Health & safety, CoC, child labour, environmental conservation		6		210,000
i.	Environmental Awareness (during 1st & 3rd Quarters - Yr. 1; at least 30 participants/event)	Events	2	35,000	

Table 0-2: Summary of cost estimate of CESMP Mitigation Measures

ii.	Road safety & Community HS	Events	2	35,000	
iii.	CoC and Child Labour	Events	2	35,000	
8	Awareness on Communicable Diseases, CovID, Girls/Women Trafficking, SEA/SH risks, GBV (Events will be conducted for workers as well as community)	Events	6		400,000
i.	SEA/SH, GBV (at least 25 participants in each orientation/training, during first 2nd & 3rd Quarter - Year 1)	Events	2	75,000	
ii.	HIV AIDS & CoVID (at least 25 participants in each orientation/training; 1 event during 1st Quarter-Year 1, another to be scheduled)	Events	2	50,000	
iii.	Women/Girl Trafficking (at least 25 participants in each orientation/training; during 3rd & 4th Quarter-Year 1)	Events	2	75,000	
9	Social safeguards (grievance meetings, site monitoring, etc)	Meetings/Events	15		455,000
10	Information dissemination materials and medium				
i.	Leaflets	Pages	500	50	25,000
ii.	PSA (local media)	Package	3	15,000	45,000

Total	2,385,000

The total cost of implementation of ESMP activities is NPR 2,385,000(In words; Twenty Three Lakh and Eighty Five Thousands Only).

The unit will be supported by the Safeguard experts of the DSC so no separate cost will be generated. The breakdown of the costs is given in below tables;

6.2 Break down Cost for C-ESMP Measures

6.2.1 Break down cost for Water Quality Test

S.N.	CESMP Activities Physical and	Unit	Quantity (Qty)	Rate	Total in NRs
	Chemical Parameters				
	Physical Parameters Color, Turbidity, pH,, Taste and odor, TDS, EC	Sample			
	Chemical Parameters Total hardness, Calcium, Zinc, Chloride, Ammonia, Nitrate, Fluoride, Sulphate, Iron, Manganese, Arsenic, Cadmium, Mercury, Chromium, Lead, Copper, Aluminum, Total Hardness, Residual Chlorine		16	13500	216000
2.	<u>Microbiological</u> <u>Parameter</u> E-Coli	Sample	6	4000	24,000
		Total		17,500	240,000

Table 0-3: Break down cost for Water Quality Test

6.2.2 Break down cost for Air Quality and Noise Level Test

S N	EMP Provision/ Activities	Unit	Quantity	Rate	Total (NRs)	Remark s
1	24 —hour continuous air quality monitoring for TSP, PM10 &PM2.5 with LVAS Sampler	Sample	6	20000	120000	
2	Sound Pressure Level monitoring and calculation on the basis of L90, Leq, L10, Ld with laboratory calibrated TYPE 2 SPL meter	Sample	6	5000	30000	
3	Field Monitoring Technician per day (Including DSA ,2 persons x 3 days)		6	10000	60000	Includin g DSA (,2 persons x 3 days)
	Total					

Table 0-4: Break down cost for Air Quality and Noise Level Test

6.2.3 Break down cost for Solid Waste Management works

Table 0-5: Break down cost for Solid Waste Management works

SN	EMP Provision/ Activities	Unit	Quantity	Rate	Total (NRs)	Remarks
1	Large dustbins (SeparateColor Bins for different decomposable, nondecomposable and hazardous)		25	4000	100000	
2	Dust bin stand metal frame		25	1600	40,000	
3	Waste Managing Labor		14	710	9940	(2 Person per a week)
				Total	149,940	
6.2.4 Break down cost for Conservation and protection works of 1 Chautari, 1 Pati, and boundary of Jalkanya Devisthan

SN	EMP Provision/ Activities	Unit	Quantity	Rate	Total (NRs)	Remarks
1	Material cost	unit	3	L/S		
2	Anticipated material needs					
3.	Costofpreparationandcompactionequipment					
4	User delay cost					
5	Number of labor					
				Total	450,000	

Table 0-6: Break down cost for Conservation and protection works of 1 Chautari, 1 Pati, and boundary of Jalkanya Devisthan

6.2.5 Break down cost for Public Safety/Planks

Table 0-6: Break down cost for Public Safety/Planks

SN	Activities	Unit	Quantity	Rate	Total (NRs)	Remarks
1.	Public safety (planks, etc)	LS			150,000	

6.2.6 Break down cost for Documentation for any vibration related damages

 Table 0-6: Break down cost for Documentation for any vibration related damages

SN	Activities	Unit	Quantity	Rate	Total (NRs)	Remarks
1.	Documentation for any vibration related damages	LS			50,000	

S N	Activity	Items	Quantit v	Rate	Amount NRs	Numb er of	Total	Remar ks
1,			5		11115	Events		Rb
1.	Awarenes	s on CoC and	Child Labo	or	1			Ι
Ι		Trainer	1	2500/-	2500/-			
Ii		Lunch	40	150/-	6000/-	-		
iii		Equipment			7000/-	-		
		s						
Iv		Banners,	LS		4500/-	2		
		Pamphlets/						
		Leaflets						
V		Stationary			5000/-			
			Sub Tota	11	25,000/-		50,000/-	
2	Orientatio	on (Road Safet	y and Con	nmunity	Health)			
Ι		Banner	LS	2000/-	2000/-			
		Banners,						
		Pamphlets/						
		Leaflets				-		
Ii		Facilitators	1	2500/-	2500/-	-		
iii		Launch	30	150/-	4500/-			
Iv		Stationary	30	100/-	3000/-	-		
V		Venue			2500/-			
		(Including						
		mike and						
		projector)				-		
Vi		IEC	30	350/-	10,500/-			
		Materials(
		WASH Kit)	~					
			Sub Total 2		25,000/-	2	50,000/-	
3	Environm	ent Awareness	s Rally					
Ι		Playcards	40	150/-	6000/-			
Ii		Audio	2	3,500	7000/-			
		Equipment						
		S						
iii		Banner	LS	2000/-	2000/-	2		
Iv		Launch	40	250/-	10,000/-			
			Sub Tota	13	25,000/-		50,000/-	
			Total				150,000/	
							-	

Tuote o Ti Dieun do thi eost foi i in a che con indiane, ino	Table 0-7: Break down	cost for Awareness	/Training on Road	Safety & Communit	tv HS
	Tuble 0 7. Dreak down	cost for rewareness	i running on Roug	buildy a community	UY 110

6.2.8 Training on awareness about Sexual Exploitation and Abuse and Sexual Harassment (SEA/SH) risks, GBV

	and Sexual Harassr	nent (S	EA/SH) risks, GBV					
S.N.	Particular	No.	Day	Hour/day	Rate	Total			
1	Trainer	1	1	5	2500	2,500	/-		
2	Breakfast	50	1		75	3,750	/-		
	(Tea,Biscuit)								
3	Lunch	50	1		450	22,500	/-		
4	Equipment			LS					
5	Hall			LS					
6	Stationary			LS					
7	Transportation			LS					
8	Dustbin			LS					
9	Signboard			LS					
	Banners,			LS					
	Pamphlets/Leaflets								
10	Program during			LS					
	Occasions								
11	Rally expenses		LS						
12	Miscellaneous		LS						
Gran	nd Total					50,000	/-		

Table 0-8: Break down cost for Training on awareness about Sexual Exploitation and Abuse

a) No. of Participants:

50(Construction workers/laborers/operators,Community people, School Teacher, Students, Ward Personnel etc.) participants in each orientation/training, during 2^{nd} Quarter - Year 1)

b) Activities of Training:

- i. Drama
- ii. Presentation
- iii. Exercise
- iv. Rally

c) Detail of training Expenditure

6.2.9 Training on awareness about Sexual Exploitation and Abuse and Sexual

Harassment (SEA/SH) risks, GBV

Table 0-9: Break down cost for Training on awareness about Sexual Exploitation and Abuse

and Sexual Harassment	(SEA/SH) risks, GBV
-----------------------	---------------------

S.N.	Particular	No.	Day	Hour/day	Rate	Total
1	Trainer	1	1	5	2500	2,500/-
2	Breakfast	50	1		75	3,750/-
	(Tea,Biscuit)					
3	Lunch	50	1		450	22,500/-
4	Equipment			LS		
5	Hall			LS		
6	Stationary			LS		
7	Transportation			LS		
8	Dustbin			LS		
9	Signboard			LS		

	Banners, Pamphlets/Leaflets	LS	
10	Programduring	LS	
	Occasions		
11	Rally expenses	LS	
12	Miscellaneous	LS	
Gra	nd Total		75.000/-

a. No. of Participants:

50(Construction workers/laborers/operators,Community people, School Teacher, Students, Ward Personnel etc.) participants in each orientation/training, during 4th Quarter - Year 1)

b. Activities of Training:

i. Drama

ii. Presentation

iii. Exercise

iv. Rally

c. Detail of training Expenditure

Table 0-7: Break down cost of Awareness Training on Code of Conducts(CoCs)

S.N.	Particular	No.	Day	Hour/day	Rate	Total
1	Trainer	1	2	2	2500	5,000/-
2	Breakfast	50	2		50	5,000/-
3	Lunch	50	2		250	25,000/-
4	Equipment	LS	•			
5	Banners, Pamphlets/Leaflets	LS				
6	Stationary	LS				
Grand	Total					50,000/-

a) No. of Participants:100workers

b) Activities of Training:

i)Drama

ii) Presentation

iii)Exercise

iv) Detail of training Expenditure

6.2.11. Training on OHS and awareness for works on Communicable

Diseases (HIV, AIDS & CoVID)

Table 0-11: Break down cost for Training on OHS and awareness for

	workers on Communicable Diseases (HIV, AIDS & COVID)									
S.N.	Particular	No.	Day	Hour/day	Rate	Total				
1	Trainer	1	1	5	2500	2,500/-				
2	Breakfast (Tea,Biscuit)	50	1		75	3,750/-				
3	Lunch	50	1		450	22,500/-				
4	Equipment	LS								

rkers on Communicable Diseases ((HIV,	AIDS	& Co	VID
----------------------------------	-------	------	------	-----

5	Hall	LS	
6	Stationary	LS	
7	Transportation	LS	
8	Dustbin	LS	
9	Signboard	LS	
10	Banners,	LS	
	Pamphlets/Leaflets		
11	Program during	LS	
	Occasions		
12	Rally expenses	LS	
13	Miscellaneous	LS	
Gran	nd Total		50,000/-

6.2.12. Training on OHS and awareness for works on Communicable Diseases (HIV, AIDS & CoVID)

Table 0-12: Break down cost of Training on OHS and awareness for works on

S.N.	Particular	No.	Day	Hour/day	Rate	Total
1	Trainer	1	1	5	2500	2,500/-
2	Breakfast	50	1		75	3,750/-
	(Tea,Biscuit)					
3	Lunch	50	1		450	22,500/-
5	Equipment			LS		
6	Hall			LS		
6	Stationary			LS		
7	Transportation			LS		
8	Dustbin			LS		
9	Signboard			LS		
10	Banners,			LS		
	Pamphlets/Leaflets					
11	Program during			LS		
	Occasions					
12	Rally expenses			LS		
13	Miscellaneous			LS		
Gran	d Total					50,000/-

Communicable Diseases (HIV, AIDS & CoVID)

a) No. of Participants:50 (At least 25 participants in each orientation/training; 1 event during 1st Quarter-Year 1)

b) Activities of Training:

i. Drama

ii. Presentation

iii. Exercise

c) Detail of Training Expenditure

6.2.13. Training on OHS and awareness for works on Communicable Diseases (HIV, AIDS & CoVID)

Table 0-13: Break down cost of Training on OHS and awareness for works on

Communicable Diseases (HIV, AIDS & CoVID)

S.N.	Particular	No.	Day	Hour/day	Rate	Total
1	Trainer	1	1	5	2500	2,500/-

2	Breakfast	50	1		75	3,750/-
	(Tea,Biscuit)					
3	Lunch	50	1		450	22,500/-
4	Equipment			LS		
5	Hall			LS		
6	Stationary			LS		
7	Transportation			LS		
8	Dustbin			LS		
9	Signboard			LS		
10	Banners,			LS		
	Pamphlets/Leaflets					
11	Program during			LS		
	Occasions					
12	Rally expenses			LS		
13	Miscellaneous			LS		
Gran	nd Total					75.000/-

a) No. of Participants:50 (At least 25 participants in each orientation/training; 1 event during 3rd Quarter-Year 1)

b) Activities of Training:

i. Drama

ii. Presentation

iii. Exercise

c) Detail of Training Expenditure

6.2.14. Training on awareness about girl/women trafficking

Table 0-14: Break down cost of Training on awareness about girl/women

	Trafficking					
S.N.	Particular	No.	Day	Hour/day	Rate	Total
1	Trainer	1	1	5	2500	2,500/-
2	Breakfast	50	1		75	3,750/-
	(Tea,Biscuit)					
3	Lunch	50	1		450	22,500/-
4	Equipment			LS		
5	Hall			LS		
6	Stationary			LS		
7	Transportation			LS		
8	Dustbin			LS		
9	Signboard		LS			
10	Banners,			LS		
	Pamphlets/Leaflets					
11	Program during			LS		
	Occasions					
12	Rally expenses			LS		
13	Miscellaneous			LS		
Gran	d Total					75,000/-

No. of Participants:50Femaleworkers(at least 25 participants in orientation/training; during 3rd Quarter-Year 1)

a) Activities of Training:

- i. Games
- ii. Presentation
- iii. Exercise

b) Detail of training Expenditure

6.2.15. Training on awareness about girl/women trafficking

Table 0-15: Break down cost of Training on awareness about girl/women

	Trafficking					
S.N.	Particular	No.	Day	Hour/day	Rate	Total
1	Trainer	1	1	5	2500	2,500/-
2	Breakfast	50	1		75	3,750/-
	(Tea,Biscuit)					
3	Lunch	50	1		450	22,500/-
5	Equipment			LS		
6	Hall			LS		
6	Stationary			LS		
7	Transportation			LS		
8	Sanitary pads			LS		
9	Signboard			LS		
	Banners,			LS		
	Pamphlets/Leaflets					
10	Program during			LS		
	Occasions					
11	Rally expenses			LS		
12	Miscellaneous			LS		
Gran	nd Total					75,000/-

a. No. of Participants:50Femaleworkers (at least 25 participants in

orientation/training; during 3rd Quarter-Year 1)

b. Activities of Training:

i. Games

ii. Presentation

iii. Exercise

c. Detail of training Expenditure

6.2.16. Training on awareness about girl/women trafficking

Table 0-16: Break down cost of Training on awareness about girl/women

	Trafficking					
S.N.	Particular	No.	Day	Hour/day	Rate	Total
1	Trainer	1	1	5	2500	2,500/-
2	Breakfast	50	1		75	3,750/-
	(Tea,Biscuit)					
3	Lunch	50	1		450	22,500/-
4	Equipment		•	LS		
5	Hall			LS		
6	Stationary			LS		
7	Transportation			LS		
8	Sanitary pads			LS		
9	Signboard			LS		
10	Banners,			LS		
	Pamphlets/Leaflets					
11	Program during		LS			
	Occasions					
12	Rally expenses			LS		
13	Miscellaneous			LS		
Gran	nd Total					75,000/-

a. No. of Participants:50Femaleworkers (at least 25 participants in orientation/training; during 4th Quarter-Year 1)

b. Activities of Training:

- i. Games
- ii. Presentation
- iii. Exercise

c. Detail of training Expenditure

6.2.17. Social safeguards (grievance meetings, site monitoring, etc)

Table 0-17: Break down cost of Social safeguards (grievance meetings, sin	down cost of Social safeguards (grievance meetings, site
---	--

	monitoring, etc)		
S.N.	Particular	No.	Day
1	Grievance Ballet	LS	
2	Meeting on Grievance Discussion(Tea, breakfast, allowance etc)	15	
3	Miscellaneous		
Grand	Total		455,000/-

OTHER SAFEGUARD ASPECTS

Recognizing paramount importance of environmental and social responsibility following safeguards is proposed for implementation.

7.1. Grievance Redress Mechanisms

To address and mitigate adverse impact of this project in the environment and communities before starting the project till its completion, Grievance Redress mechanism (GRM) has been

developed. GRM will be committed to address environmental and social issues, GBV, SEA/SH and provide justice to the victim within committed timeframe. Under GRM, a committee (GRC) and anti- Harrassment cell has been formed in Dhankuta Municipality that will play a vital role in facilitating dialogue, mediating disputes, and implementing solutions that align with the principles of fairness, sustainability, and community engagement. The record of municipal social section shows no records of GBV within the municipality (Annex 9) but taken in consideration of future scenario, Anti-Harassment cell has been formed and focal person from municipality has been appointed to serve as GBV focal person. Anti-Harrassment cell deals with cases of sexual harassment and abuse and resolve it timely by providing support to the victim and ensures prevention of harassment through proper redressal of the case. The cell lodge individual complaints and take appropriate action in accordance with the guidelines provided by the respective authorities.

The potential grievances to be address are listed below:

- Rehabilitation & Resettlement and Compensation issue
- Loss of livelihood
- 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

The contractor will also appoint a SEA/SH focal person. Sociologist or social mobilizer of the Contractor's team will be the focal person at site level for the handling of SEA/SH under GRC.

Various activities will be carried to raise awareness on GBV, SEA/ SH grievances. PIU/DSC and contractor are responsible to carry out all these activities. 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. Mitigation action plan will be prepared and implemented throughout construction and operational phase of the project.

As a Plan to mitigate GBV, SEA and SH grievances following concerns are outlined:

- Ø Awareness programs related to community and workers, for reduction of sexual violence/rape cases.
- Ø Awareness program for physical/mental abuse in the project area.
- Ø Awareness program in schools about various aspects of environment, development, probable impacts of construction and operation, road safety rules and traffic management.
- \emptyset Ensure fair treatment, safe working conditions, and timely resolution of grievances.
- Ø Establishment of Anti-Harassment Cell in Municipality and assign a Focal Person in the Municipality.
- Ø Reduce labor influx by using local manpower and prioritizing eccentrically through the local wards, municipality, district, province and federal state.
- Ø Awareness program related to community and workers on trafficking, sexually transmitted disease to be conducted (for workers and community) for social harmony

Ø 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. COC will be signed by all involved in the project.

7.2 . Grievance Redress Process



Figure 0-1: Grievance Redress Process

7.3. Grievance Redress Committee

A Two-level Grievance Redress Committee (GRC) has been formed for the project. The GRC formation related municipality letter is attached in Annex.7

7.3.1. First Level GRC

Grievances are first addressed at the subproject level, where they are promptly lodged and resolved within the specified timeframe. In the event that a grievance remains unresolved within the stipulated time frame at the first level GRC, it is then escalated to the second level GRC for further attention and resolution. The composition of the proposed GRC is given below.

SN	Members	Designation	Remarks
1	Chandara Lal Tamang	Coordinator	Chairperson - Ward 2
2	Ongda Tamang	Member	Chairperson - Ward 1
3	Rama Baral	Member	Female Member - Ward 2
4	Sita Devi Tamang	Member	Coordinator, School Danda Tole

Table 0-1: Details of 1st Level GRC

			Development Committee, WN 2
5	Chhatra Bahadur Karki	Member	Secretary - Ward 2
6	Radha Krishna Lal Deo	Member Secretary	DSC Representative

7.3.2. Second Level GRC

Second level GRC has been formed at the municipal level under coordination of the deputy mayor of Dhankuta Municipality office together with a representative of DSC. The committee will address environment and social issues and concerns with the E/S section of the municipality to promptly redress grievances to gender, vulnerable communities in an effective and transparent manner within the scheduled time frame. The second level GRC at the municipality comprises of the following team as stated below:

Minute has been attached in Annex 12

Table 0-2: Details of 2nd Level GRC

SN	Members	Designation	Remarks
1	Bhima Devi Khanal	Coordinator	Deputy Mayor - Dhankuta
			Municipality
2	Dashrath Rai	Member	CAO - Dhankuta Municipality
3	Nushraj Shrestha	Member	Social Development Officer -
			Dhankuta Municipality
4	Mingma Dorji Sherpa	Member	Engineer (Focal Person - NUGIP) -
			Dhankuta Municipality
5	Vijay Chapagain	Member Secretary	DSC - TL

7.3.3. Third Level GRC

The third level GRC will be formed at PCO level. The PCO will forward it to the World Bank .Only grievances that cannot be resolved at first and second level is forwarded to third level of GRC where grievances are redress within allocated time schedule.

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, Rest & Recuperation 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. Potential grievances which may need to be addressed are listed below:

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

TRAFFIC MANAGEMENT FOR ROAD SAFETY

Raising awareness on traffic safety rules, pedestrian / cycle lanes and installation of speed humps to control speed near pedestrian crossing areas will be done. Set up signs and clearly mark routes inside and around the construction area, to provide warning and guidance for all works. Speed limits will be established and enforced at the site by putting signage. To avoid road obstruction during preparation of precast drainage at the site, area demarcation will be done allowing easy movement of vehicles and locals along the alignment. Alternative routes will be prescribed to control road congestion at the project sites. Construction materials at the site will be kept at proper location so as to not block pedestrian's passage. Site transport during rush hours will be avoided. Signage boards with traffic safety rules and messages in Nepali as well as local language will be placed at main chowks, junctions, starting and end points. Reported casualty will be dealt through GRM.

REPORTING AND DOCUMENTATION

A monthly progress report will be submitted by the contractor. This will include a section on environmental and social safeguards requirements, and status. The checklist to be included in the MPR has been provided in Annex 1 of this Contractor's Environmental and Social Management Plan (C-ESMP) document. Documents including meeting minutes, records of workers, records of accidents, records of awareness events, implementation of Code of Conduct (CoC) and other relevant aspects will be compiled and included in the monthly progress report.

The contractor will submit quarterly ESMP compliance report to the Supervision Consultant office. This will be reviewed for improvement of safeguards practices by safeguards experts of the Supervision Consultant's team. The contractor will report to the supervision team, and will make available all required information on monthly basis, and as-and-when required. The contractor will provide any and all documents as well as information required for and during monitoring activities carried out by the Supervision Consultant.

	Table 9.1. Implementation Schedule for Environmental Measures N Impacts Mitigation																			
SN	Impacts	Mitigation									Ye	ar								
		Measures						2	2024	ļ							20	25		
			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 Parameter	Instrumental Analysis																		
3	Water Pollution	Lab Analysis																		

Implementation Schedule for Environmental Measures

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	Camp Site Monitoring	Supervision									
9	Occupation Health & Safety	Safety Awareness Program, 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									

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, August2020, the World Bank
- Final Detailed Project Report on Upgradation of Different inter connected Road (9.929Km) Sections, DhankutaMunicipality Road, September 2023
- Nepal Human Rights Year Book 2023, Informal Sector Service Center (INSEC), Kathmandu.
- Nepal Road Safety Action Plan 2011-2020
- Project Implementation Manual, Nepal Urban Governance and Infrastructure Project, December 2022, the WorldBank
- <u>https://censusnepal.cbs.gov.np</u>
- IEE Report of Tamor and Arun River
- Municipality Profile of Dhankuta Municipality 2019
- https://Dhankutamun.gov.np/

Annex 1: Checklist for Environment and Social Monitoring

SN	Particulars	Yes	No	Can't Say	Remarks
1	Is the site vulnerable to major natural or induced hazards such as: Landslides, Flooding, Storm surge, Severe wind damage, Earthquakes, Fire, Explosion, Other (specify)				
2	Is the project area adjacent to or within any of thefollowing 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.) • 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				

Table 0-1: Overall Environmental and Social Safeguard Aspects

	importance		
3	Likely impact on trees (including Timber & fruit bearing)and vegetation cover		
4	Possibility of degradation of land and ecosystems of surrounding?		
5	Is the project area densely populated?		
6	Heavy with development activities/big industries nearby & type?		
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 requires significant extraction Of surface or ground water?		
10	Increased risk of water pollution from oil, grease, fuel spills and other materials		
11	Im pact on water quality due to release of sewage/sludge?		
12	Possibility of flooding due to sewage		
13	Possibility of air pollution during preconstruction/construction/Operating Phase		
14	Other pollution concerns relating to inconveniences in living		
	conditions that may trigger cases of upper respiratory		
	problems?		
15	Risks and vulnerabilities related to occupational health and		
	safety due to physical, chemical, biological hazards during		

	project construction and operation		
	project construction and operation		
16	Noise and vibration due to blasting and/or		
	other civil works?		
17	Possibility of poor sanitation and solid		
	waste disposal		
18	creation of temporary breeding habitats for		
	diseases such as those transmitted by mesonitoes and		
	rodents?		
19	Accident risks associated with pre		
	construction, construction		
	& operation phases of project		
20	large population influx during project		
	construction and		
	operation that causes increased burden on social		
	infrastructure and services (such as water		
	supply and		
	sanitation systems)		
21	Risks to community health and safety due		
	storage and use and/or disposal of materials		
	such as		
	explosives, fuel and other chemicals during		
	construction and		
	operation?		
22	Interference with other utilities and		
	blocking of access to		
	resource/utility		
23	Generation of solid waste and/or hazardous		
	waste during		
	construction/operation of project?		
24	Conduct of medical health screening and		
	testing to identify		
	the presence of suspected covid-19 positive individuals		
	among the construction workers in the		
	workers' labor camps		
	or among the community members that		
	might infect the		
	construction workers		
L			1

Table0- 2: Construction Activities and Involvement of Workers

S N	Activities	Dat	t Involvement of worker (man/days)												Vulne				
1		dur atio n Gende		nvolve Skill nent by labo Gender ur		Unski lled labou r			Invo	olve	men	t by	y ca	ste		To tal	grou p		
		MF		T	Μ	F	Μ	F	Bra min /Ch etri	rah Jana in jati Chh ri		Da t	ali	Ot ers	h S				
										Μ	F	Μ	F	Μ	F	Μ	F		
Wo	ork site 1: (Na	me of tl	ne si	te/C	Chair	nage	e, W	N)											
1	(describe the work) ork site 1: (Na (describe the work	me of tl	ne si	te/C	Chaiı	nage	e, W	'N)											
)																		
Wo	ork site 1: (Na	me of th	ne si	te/C	Chair	nage	e, W	'N)	1	<u> </u>	<u> </u>	I	<u> </u>	I	L	I			
3.	(describe the work 																		
	Total																		

Table 0-3: Provision and Use of PPEs

S N	Site Descri ption	No. of Helmets		No. Glov	of ⁄es	No. of I	boots	No. Masi	of ks	No. Gogg	of les	Othe	ers	Rema rks
	P	Provi ded	Us ed	Provi ded	Us ed	Provi ded	Us ed	Provi ded	Us ed	Provi ded	Us ed	Provi ded	Us ed	
1	Nature of													

	works &							
	No. of workers							
2	Nature of works & No. of workers							
3	Nature of works & No. of workers							
	Total =							

Table 0-4: List of Meetings/ Awareness/ Trainings/ Workshops/ Events

			Participants															
S.N.	Activities	Cluster/Site	Date	Par	ticip	ants by			Parti	cipan	ts by	Cast	e				Total	Vulnerable
0.1 \	i cu vines	/ Location	Dute	м	Gen	uer Total	Brohmin	Chhotri	Ione	viati	Da	lit	Oth	ore	Mueli	me		group
				IVI	г	10141	M	F	M	ijau F	M	F	M	F	M	F		
1	Meeting on	Ward no.																
		, location																
2																		
3																		
4	Awareness	Ward no.																
		, location																
5																		
	Total																	

SN	Name	M/F	Cast /Ethnicit v	Age	Education	Contact Number	Nationality	Identity Card No.	Contact Person's Name and Address	Remarks
			5							

Table0-6: Accident Reporting

Incident/Accident Reporting Template (NUGIP)

Project Name: Upgradation of Hile(Shadeshwor)-Bhirgaun-Madhuganga Road Project, Dhankuta Municipality Site In-charge:

Name of Report Collector:

Time/Date of Incident:

Summary of the records

1. Contractors' records of accidents / incidents submitted to Client/PCO on a monthly basis?	
2. Contractors provided Client/PCO with a	
notification/incident report of any accident(s) within 24	

SN	Description	Remarks
1	Details of the Incident;	
	(i) Name of the victim:	
	(ii) Nature of incident/accident (tick mark and describe)	
	(a) Minor cut/wound	
	(b) Major injury	
	(c) Fatal	
	(iii) Cause of the incident	
	(iv) Immediate response/treatment	
	(v) Long-term solution	Photograph/s
2	Other details	

 Report Prepared by
 Report Signed by

 (date and sign)
 (date and sign)

Annex 2: Water Quality Report



नेपाल वातावरणीय सेवा केन्द्र NEPAL BATAWARANIYA SEWA KENDRA 1483

Morang Merchants' Association Complex

Pdt. Meghraj Marga (Goshwara Road), Biratnagar-7 Nepal Tel: +977-21-576887

Date: 10th 4shar 2081 <u>Test Report</u> ninarayan J.V Name of the Client Ashish/Aashirbad /Swa Hile, Dhankutta Location Source of Sample Spring Sample Receiving Date 31-02-2081 Type of Sample Drinking Water Test Performance Date 02-03-2081 **Condition of Sample** Ok Test Completion Date 10-03-2081 SN-320 A (W),2080 Sample code No Sampled by Client _____ -----SN Parameters WHO guideline NDWQS (MCL) Results Method Units Fluoride as (F) 1.5 0.5-1.5 0.51 APHA-2500 D 1 mg/L 2 Ammonia as (NH₄-N) mg/L 1.5 1.5 < 0.05 APHA-4500 50 50 < 0.05 3 Nitrate as (NO3-N) APHA-4500 mg/L 250 250 Chloride as (CI) mg/L 3 APHA-2500 B 4 500 500 232 Total Hardness as mg/L APHA-2340 5 200 48.90 Calcium mg/L APHA-3500 6 0.3 < 0.05 0.3(3) Iron (Fe) APHA-3111 B mg/L 7 0.1 < 0.05 Manganese (Mn) 0.2 APHA-3111 B mg/L 8 0.01 0.05 <0.005 Arsenic (As) mg/L APHA-3500-As 9 <0.05 APHA-3111 B Zinc as (Zn) mg/L 3 10 0.01 < 0.01 Lead as (Pb) mg/L APHA-3111 B 11 0.003 < 0.003 Cadmium as (Cd) mg/L APHA-3111 B 12 T- Chromium as (T-Cr) 0.05 < 0.05 mg/L APHA-3111 B 13 mg/L <0.01 1 APHA-3111 B Copper 14 0.2 <0.01 mg/L APHA-3500-AI Aluminum 15 250 mg/L 28 Sulphate 16 Gravimetric **Residual Chlorine** mg/L 0.1-0.2 0.1-0.2 0 APHA-4500 17 E-Coli CFU/100 ml Nil Nil Nil 18 APHA-9215 18 E-Coli Control Cont amiles offer ... In Analyst Authorized signature Lab In-charge

P.O. Box 104, Email: nenscbrt@gmail.com/seamnmmaesc@gmail.com



जेपाल वातावरणीय सेवा केन्द्र NEPAL BATAWARANIYA SEWA KENDRA - 1484 Morang Merchants' Association Complex Pdt. Meghraj Marga (Goshwara Road), Biratnagar-7 Nepal Tel: +977-21-576887

Date: 10th Ashar 2081

	he Client Ashish/Aashi	rbad /Swaminarayan	J.V Loce	ation	Hil	le, Dhankutta
Source of Sample Overhead Tan		1 <i>k</i>	Sample Receiving Date		31-02-2081	
			<i>T</i>	Budanna Dar	,	1905 2021
ype of Sa	mple Drinking Wa	ter	Test	rerjormance Date		2-03-2087
Condition	of Sample Ok .		Test	Completion Date	1	0-03-2081
ample co	de No SN-320 B (W	0.2080	Sam	pled by		Client
SN	Parameters	Units	WHO guideline	NDWQS (MCL)	Results	Method
1	Fluoride as (F)	mg/L	1.5	0.5-1.5	0.29	APHA-2500
2	Ammonia as (NH,-N)	mg/L	1.5	1.5	<0.05	APHA-450
3	Nitrate as (NO ₃ -N)	mg/L	50	50	<0.05	APHA-450
4	Chloride as (CI)	mg/L	250	250	5	APHA-2500
5	Total Hardness as	mg/L	500	500	25	APHA-234
6	Calcium	mg/L	-	200	4.01	APHA-350
7	Iron (Fe)	mg/L	0.3	0.3(3)	<0.05	APHA-3111
8	Manganese (Mn)	mg/L	0.1	0.2	<0.05	APHA-3111
9	Arsenic (As)	mg/L	0.01	0.05	<0.005	APHA-3500-A
10	Zinc as (Zn)	mg/L	-	3	<0.05	APHA-3111
11	Lead as (Pb)	mg/L	-	0.01	<0.01	APHA-3111
12	Cadmium as (Cd)	mg/L		0.003	< 0.003	APHA-3111
13	T- Chromium as (T-Cr)	mg/L		0.05	<0.05	APHA-3111
14	Copper	mg/L		1	0.05	APHA-3111
15	Aluminum	mg/L		0.2	<0.01	APHA-3500-
16	Sulphate	mg/L	-	250	32.10	Gravimetr
17	Residual Chlorine	mg/L	0.1-0.2	0.1-0.2	0	APHA-450
18	E-Coli	CFU/100 ml	Nil	Nil	Nil	APHA-921

P.O. Box 104, Email: nenscbrt@gmail.com/seamnmmaesc@gmail.com

Annex 3: Air Quality Report



नेपाल-वातावरणीय सेवा केन्द्र NEPAL BATAWARANIYA SEWA KENDRA

Morang Merchants' Association Complex Pdt. Meghraj Marga (Goshwara Road), Biratnagar-7 Nepal Tel : +977-21-576887

Date: 11th Ashar 2081

Ambient Air Analysis Report

Name of the Client	Ashish/Aashirbad /Swaminarayan J.V	Location	Hile, Dhankutta
Sampled by	NBSK	Date of Monitoring	06-03-2081
Sample code No	SN-12 (Air),2080	Date Of completion	09-03-2081

SN	Sample Location	Parameter	Method	Guideline Value (NAAQS 2012)	Result (µg/m³)
		Total Suspended Particles		230 µg/m3	14.62
		PM 10	HVAS & Gravimetric	120 µg/m3	81.51
1	Gajar Chowk	PM 2.5		40 µg/m3	24.36
		SOx	West & Geake	70 µg/m3	Not Detected
		NOx	Chemilumi nesance	80 µg/m3	Not Detected

Note: NAAQS: National ambient air Quality standard, 2012

Analys

Authorized signature Lab In-charge

P.O. Box 104, Email: nenscbrt@gmail.com/seamnmmaesc@gmail.com



नेपाल वातावरणीय सेवा केन्द्र NEPAL BATAWARANIYA SEWA KENDRA

Morang Merchants' Association Complex Pdt. Meghraj Marga (Goshwara Road), Biratnagar-7 Nepal Tel : +977-21-576887

Date: 11th Ashar 2081

Ambient Air Analysis Report

Name of the Client Ashis		sh/Aashirbad /Swaminarayan J.V	Location		Hile, Dhankutta	
Sampled by NBSK		ĸ	Date of Monitoring		07-03-2081	
Sample	e code No SN -	13 (Air),2080	Date Of co	ompletion	09-03-2081	
SN	Sample Location	Parameter	Method	Guideline Value (NAAQS 2012)	Result (µg/m	
		Total Suspended Particles		230 µg/m3	50.20	
		РМ 10	HVAS & Gravimetric	120 µg/m3	81.25	
1	Near Office	PM 2.5	-	40 μg/m3	20.97	
		SO _x	West & Geake	70 μg/m3	Not Detected	
		NOx	Chemilumi nesance	80 µg/m3	Not Detected	
U Pr	epared by	Analyst	J	Authoriz Lab In-c	H ed signature harge	
	P.O. Box 1	04 Email: nenschrt@gm	ail.com/seamn	mmaesc@gmail.c	om	

Annex 4 : Municipal Notice to Community Forest

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"धनकुटा नगर: स्वच्छ सुन्दर समुन्नत शहर"



चलानी नं. **८८**6

मितिः २०८०।८।९

श्री आयोजना प्रमुख ज्यू, आयोजना समन्वयकार्यालय, NUGIP, शहरी विकास तथा भवन निर्माण विभाग (DUDBC), बबरमहल, काठमाण्डौ ।

विषयाहिले - भिरगाँऊ - मधुगंगा सडक खण्डमा पर्ने सामुदायिक वनका सम्बन्धमा ।

उपरोक्त बिषयमा यस नगरपालिकाको वडा नं. १ र २ मा पर्ने हिले (षडेश्वर मन्दिर) - भिरगाँऊ -मधुगंगासडक खण्डको शहरी विकास तथा भवन निर्माण विभाग (DUDBC) अन्तर्गत नेपाल सहरी शासकीय पूर्वाधार आयोजना (NUGIP) मार्फत विश्व बैंकको आर्थिक सहयोगमा स्तरोन्नति हुन लागेको शन्दर्भमा उक्त सँडक खण्डको क्षेत्रा धिकार मिति २०७२/०६/०९ मा बसेको नगर परिषदको बैठक र मिति २०७४/०८/१८ मा बसेको पहिलो नगर सभाको दोस्रो बैठकले निर्धारण गरे अनुसार प्रस्तावित सडकको क्षेत्राधिकार भित्रको साइट (Site) अहिले खुल्ला रहेको छ । उक्त प्रस्तावित सडक खण्ड चाँपेहित सामुदायिक वन र ढाँडखर्क सामुदयिक वन भएर जाने हुदाँ उक्त सामुदायिक वनको क्षेत्रभित्र पर्ने सडकको क्षेत्राधिकार बि.सं. २०५८ सालपूर्व देखि नै मटर चलन चल्तिमा रहेको छ । साथै चाँपेहित सामुदायिक वन उपभोक्ता समितिले मिति २०८०/०६/२४ च.नं. ०५ को पत्र र ढाँडखर्क सामुदयिक वन उपभोक्ता समुहको मिति २०८०/०६/२५ च.नं. ०३ पत्र मार्फत हाल कायम रहेको द मिटरको बाटो चलन चल्तिमा रहेको भनि सडक निर्माणमा सहमति जनाएको छ । उक्त सडक खण्डमा पर्ने सामुदायिक वन क्षेत्रमा बाटो स्तरोन्नतीका लागि कुनै अतिरिक्त जमिन नचाहिने र क्नै अबरोध समेत नरहेको व्यहोरा जानकारी लागि अन्रोध गर्दछ।

2000

दशरथ राई प्रमुख प्रशासकीय अधिकत प्रमुख प्रशासकीय अधिकृत

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Annex 5: Letter of Community Forest confirming no harm i. Letter of Chapehit Community Forest

14 - 2 - 11 हेत सामुदायिक वन उपभोक्ता समिति भिरगाउँ-१ 3085 1419 20 50 10 E 122 1 HEAT : 20 CO1009 चलानी नम्बर - 02 बिषय:- यो जो संग सम्वन्धीत ही उपरोक सम्वन्धमा हिले घडेरवर मधुर्जामा स्डब् विञत २०२८ साल देखि कच्ची सडढ को रूपमा र मीटर न्योंग भई संपालन भई रहेको र उठ सडढ स्वरडन्नती जर्द यस सामुदायिके वन को भिन्न कुने हानी नोक्सानी नहुने आत्छारी जाबाउद ही (अञ्चत राना मात 3122101

ii. Letter from Dhatkharka Community Forest 51-1 ढाँड खर्क सामुदायिक वन उपमोक्ता समूह ध.न.पा. - २, भिरगाउँ, धनकुटा पत्र संख्या:- ०८०१०८ १ स्थाः २०५६ चलानी नम्बर:- 0 G 間日かの10日は火 विषय :- यो जो जो संज सम्वाल्धा हा प्रस्तुत सम्याधा धनकुरा नगरपालिका जडा नं 2 मा रहेने यस हांडरनर्ड सामुदायिडे जन केन भिन्न जाट जिति २०२६ साल देसि हिले घडेरवर वडा डायांलय मन्धुरांजा सडड अच्ची अएकनी ट भीरए योंडा में प्रयोग भई रहेडो र उक्त स्डड मर्मत वा हता-रोक्नती जनडा आगी जन दोन्न भिन्न कुने अवरोध नरहेडोव्य-होरा आनवारी जाराउंद हा (STOTE) 17210

Annex 6: Code of Conduct (CoC) i. World Bank Approved Code of Conduct (CoC) for the Project

नेपाल शहरी शासकीय तथा पुर्वाधार आयोजना

कार्य स्थलमा हुने यौनजन्य तथा महिला हिंसा सम्बन्धी आचार सहिता

ब्याक्तिगत आचार सहिता

म,यो आचार सहिता पालना गर्नु मेरो दाहित्व हो भनी स्वीकार गर्दछु ।म कुनै पनि यौनजन्य तथा महिला हिसा जस्ता कार्यमा सँलग्न 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, पहुच, वैवाहिक स्थीती वा अन्य कुनै पनि आधारमा भेदभाव नगरी सबैलाई सम्मानजनक र समान रुपमा व्यवहार गर्नेछु।
- सामाजिक सन्जालको प्रयोग गरी अश्लील शब्द, दृष्य सामाग्री वा कार्यलय समय अघिपछी वार्तालाप मार्फत सहकर्मि/कामदार लाई यौन दुर्ब्याहार गर्ने छैन ।
- कार्यस्थलमा सिट्ठी बजाउने, चुम्बन गर्ने ,ब्यात्तिगत उपहार दिने आदि जस्ता कार्य गरी कर्मचारी, सहकर्मि/कामदार लाई यौन दुर्ब्याहार गर्ने छैन ।
- ४. कुनै पनि प्रलोभन∕ धम्की देखाई (जस्तै पदोन्नती लोभ देखाएर,जागीर नदिने धम्की दिएर शोषण गरेर आदि) यौन दुर्ब्याहार पक्षमा सलग्न हुने छैन
- ५. कार्य समयावधि भित्र कुनैपनि मदिराजन्य तथा लागुपदार्थको सेवन गर्ने छैन ।
- ६. परियोजका सरोकारवाला वा वरपरका समुदायका सदस्यहरुलाई कुनैपनि म लैङ्गिक हिसा तथा यौनजन्य दुर्ब्याहार गर्ने छैन ।
- ७. कुनै पनि कर्मचारी/श्रमिक विरुद्ध हिँसा गरिएको दोषी ठहरिएमा प्रचलित सघिय, प्रादेशिक, स्थानीय सरकार वर्ल्ड बैक को कानुन , निती नियम अनुसार सजाय/ दण्डित जरिवाना तिर्न तयार हनेछ ।
- ८. कार्य गर्ने शिलशिलामा सम्मानजनक निर्देशनहरुको पालना गर्दछु (वातावरणीयं + सामाजिक)
- ९. मेरो जिम्मेवारी कुशलता र लगनशीलता पुर्वक पुरा गर्नेछु।

- सम्बधित कार्यलय / कम्पनीले सन्चालन गरेको विभीन्न प्रशिक्षण कार्यक्रममा संक्रिय रुपमा भाग लिनेछ ।
- 99. परियोजनाका प्रत्यक्ष लाभदायक सदस्य/समुदायमा यौन दुर्ब्याहार/शोषण गर्ने छैन।
- १२. विश्वासनीयता नैतिक उल्लघनको रिपोर्ट गरेमा कुनै कामदार विरुद्व बदला लिने छैन ।
- 9३. कार्य स्थलमा लैङ्गिक सम्बेदनशिल भाषाको प्रयोग गर्दछ
- 9४. कार्यस्थलमा महिला हिसा तथा यौनजन्य क्रियाकलाप लाई प्रोत्साहन गर्ने खालका गतिविधी गर्न दिने छैन ।
- 9×. कार्यस्थलमा महिला तथा यौन हिसा गतिविधीहरुलाई प्रोत्साहन गर्ने छैन ।
- ९६. ९८ वर्षभन्दा मुनिका बालिकाहरुमा कुनै डिजीटल मिडीया मार्फत वा कुनै माध्यमबाट ⁄स्वीकृती लिई वा नलिई यौनजन्य क्रियाकलापमा सहभागी हुनेछैन, यदि नाबालिका स्वीकृती लिई यौनजन्य क्रियाकलापमा गरेमा क्षमा हुदैन ।
- 9७. परियोजना कार्यन्वयन को बेलामा यौनजन्य दुर्ब्याहार /यौन शोषण भएमा वा आचार सहिता उल्लघन गरेमा वडा/ नगरपालिका स्तरमा रहेको गुनासो सुनवाई सयन्त्रमा तुरुन्त निबेदन/जानकारी दिनेछु।
- ९८. कार्यस्थलमा कसैले यौनजन्य दुर्ब्याहार सम्बन्धी शख्कापद ब्याबहार गरेमा वा शख्कापद कार्य गरेमा तुरुन्त टोली प्रमुख ∕प्रबन्धकलाई जानकारी∕निबेदन दिनेछु।

माथि उल्लेखित आचार सहिता राम्ररी पढे र बुफ्तेको छु र कार्यस्थलमा कडाईका साथ पालना गर्दछु भनी हस्ताक्षर गर्दछु।

व्यवस्थापक/टोली प्रमुख

कर्मचारी/कामदार



मितिः २०८०।

श्री आयोजना प्रमुख ज्यू, आयोजना समन्वयकार्यालय, NUGIP, शहरी विकास तथा भवन निर्माण विभाग (DUDBC), बबरमहल, काठमाण्डौ ।

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विषय हिले - भिरगाँऊ - मधुगंगा सडक खण्डमा पर्ने सामुदायिक वेनका सम्बन्धमा ।

उपरोक्त बिषयमा यस नगरपालिकाको वडा नं. १ र २ मा पर्ने हिले (षडेश्वर मन्दिर) - भिरगाँऊ -मधुगंगासडक खण्डको शहरी विकास तथा भवन निर्माण विभाग (DUDBC) अन्तर्गत नेपाल सहरी शासकीय पूर्वाधार आयोजना (NUGIP) मार्फत विश्व बैंकको आर्थिक सहयोगमा स्तरोन्नति हुन लागेको शन्दर्भमा उक्त सडक खण्डको क्षेत्रा धिकार मिति २०७२/०६/०९ मा बसेको नगर परिषदको बैंठक र मिति २०७४/०८/९८ मा बसेको पहिलो नगर सभाको दोस्रो बैंठकले निर्धारण गरे अनुसार प्रस्तावित सडकको क्षेत्राधिकार भित्रको साइट (Site) अहिले खुल्ला रहेको छ । उक्त प्रस्तावित सडक खण्ड चाँपेहित सामुदायिक वन र ढाँडखर्क सामुदयिक वन भएर जाने हुदाँ उक्त सामुदायिक वनको क्षेत्रभित्र पर्ने सडकको क्षेत्राधिकार भित्रको साइट (Site) अहिले खुल्ला रहेको छ । उक्त प्रस्तावित सडक खण्ड चाँपेहित सामुदायिक वन र ढाँडखर्क सामुदयिक वन भएर जाने हुदाँ उक्त सामुदायिक वनको क्षेत्रभित्र पर्ने सडकको क्षेत्राधिकार बि.सं. २०४८ सालपूर्व देखि नै ५ मिटर चलन चल्तिमा रहेको छ । साथै चाँपेहित सामुदायिक वन उपभोक्ता समितिले मिति २०६०/०६/२५ च.नं. ०४ को पत्र र ढाँडखर्क सामुदयिक वन उपभोक्ता समुहको मिति २०६०/०६/२५ च.नं. ०३ पत्र मार्फत हाल कायम रहेको द मिटरको बाटो चलन चल्तिमा रहेको भीने सडक निर्माणमा सहमति जनाएको छ । उक्त सडक खण्डमा पर्ने सामुदायिक वन क्षेत्रमा बाटो स्तरोन्नतीका लागि कुनै अतिरिक्त जमिन नचाहिने र कुनै अवरोध समेत नरहेको व्यहोरा जानकारी लागि अनुरोध गर्दछ ।

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दशरथ राई प्रमुख प्रशासकीय अधिकृत प्रमुख प्रशासकीय अधिकृत

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website: www.mundhankuta.gov.np

Annex 8: Agreement Letter of Hile Water supply Committee



पत्र संख्या : - २०८०।०८९ चलानी नम्वर : २४ मिति : २०८०।६।२४

विषय : सहमति सम्बन्धमा ।

श्री नेपाल शहरी शासकिय पूर्वाधार आयोजना, बबरमहल, काठमाण्डौ ।

उपरोक्त सम्बन्धमा विश्व बैकको आर्थिक सहयोगमा नेपाल शहरी शासकिय पूर्वाधार आयोजना मार्फत धनकुटा नगरपालिकाको वडा नं. १ र २ मा स्तरोन्नति हुन लागेको हिले (षडेश्वर मन्दिर)-भीरगाउँ मधुगंगा सडकको शन्दर्भमा मिति २०८०।६।२४ गतेका दिन धनकुटा नगरपालिकाका पदाधिकारी, वडाध्यक्षहरु र वि.एन. कन्सल्टेन्सीका परामर्श टोली संग भएको छलफल अनुसार यस हिले खानेपानी तथा सरसफाई उपभोक्ता समिति उक्त सडक खण्डको निर्माण कार्यमा सहजिकरण एव समन्वय गर्न पूर्ण सहमत रहेको व्यहोरा जानकारीको लागि अनुरोध गर्दछु।

निरन तामाङ अध्यक्ष

Annex 9: Public Notice Regarding GRC formation "धनकुटा नगर: स्वच्छ सुन्दर समुन्नत शहर" कटा गरपालिका नगर कार को कार्यालय 9 デ पत्र संख्या : ocoloc q MAGE चलानी नं. **८८**6 20.53 मिति: २०८०।८१ श्री आयोजना प्रमुख ज्यू, आयोजना समन्वयकार्यालय, NUGIP, शहरी विकास तथा भवन निर्माण विभाग (DUDBC), बबरमहल, काठमाण्डौ । विषयःहिले - भिरगाँऊ - मधुगंगा सडक खण्डमा पर्ने सामुदायिक वनका सम्बन्धमा । उपरोक्त बिषयमा यस नगरपालिकाको वडा न. १ र २ मा पर्ने हिले (षडेश्वर मन्दिर) - भिरगाँऊ -मधुगंगासडक खण्डको शहरी विकास तथा भवन निर्माण विभाग (DUDBC) अन्तर्गत नेपाल सहरी शासकीय पूर्वाधार आयोजना (NUGIP) मार्फत विश्व बैंकको आर्थिक सहयोगमा स्तरोन्नति हुन लागेको शन्दर्भमा उक्त संडक खण्डको क्षेत्रा धिकार मिति २०७२/०६/०९ मा बसेको नगर परिषदको बैठक र मिति २०७४/०⊏/१⊏ मा बसेको पहिलो नगर सभाको दोस्रो बैंठकले निर्धारण गरे अनुसार प्रस्तावित सडकको क्षेत्राधिकार भित्रको साइट (Site) अहिले खुल्ला रहेको छ । उक्त प्रस्तावित सडक खण्ड चाँपेहित सामुदायिक वन र ढाँडखर्क सामुदयिक वन भएर जाने हुदाँ उक्त सामुदायिक वनको क्षेत्रभित्र पर्ने संडकको क्षेत्राधिकार वि.सं. २०५८ सालपूर्व देखि नै मटर चलन चल्तिमा रहेको छ । साथै चाँपेहित सामुदायिक वन उपभोक्ता समितिले मिति २०८०/०६/२४ च.नं. ०५ को पत्र र ढाँडखर्क सामुदयिक वन उपभोक्ता समुहको मिति २०८०/०६/२५ च.नं. ०३ पत्र मार्फत हाल कायम रहेको ६ मिटरको बाटो चलन चल्तिमा रहेको भनि सडक निर्माणमा सहमति जनाएको छ । उक्त सडक खण्डमा पर्ने सामुदायिक वन क्षेत्रमा बाटो स्तरोन्नतीका लागि कुनै अतिरिक्त जमिन नचाहिने र क्तै अबरोध समेत नरहेको व्यहोरा जानकारी लागि अनुरोध गर्दछ । 2000 दशरथ राई प्रमुख प्रशासकीय अधिकत प्रमुख प्रशासकीय अधिकृत Fax: 026-520586 Email : info@mundhankuta.gov.np website: www.mundhankuta.gov.np

Annex 10: Establishment of Anti Harassment Cell





मितिः - २०⊏०/०६/२९

पत्र सङ्ख्या २०८०/०८९ च. नं. ठ्रेट्ठि-

श्री शहरी विकास तथा भवन निमार्ण विभाग, नेपालशहरी शासकीय तथा पूर्वाधार आयोजना बबरमहल काठमाडौँ ।

विषय :- Anti- Harasment Cell को जिम्मेवारी तोकिएको सम्बन्धमा ।

धनकुटा कोशी प्रदेश, नेपाल ।

प्रस्तुत विषयमा विश्व बैक्को अनुदान सहयोगमा सन २०२३ देखी सञ्चाशन हुने लैड्रिक हिंसा रोकंथाम तथा प्रतिकार्यको लागि एकिंक्त सेवा पहुंच (Insitutionalizing GBV response in Federal Nepal) परियोजना हेनंकोलांगि यस धनकुटा नगरपालिका महिला, बालवालि तथा ज्येष्ठनागरिक शाखाको श्री पूलमाया तामाइलाइ तीकिएकोमा नेपाल शहरी शासकीय तथा पुर्वाधार आरोजनावाट मिति २०६०/०३/४० को ए.स. २०७९/६० को च.नं. ३४५ को प्राप्त पत्र अनुसार प्रहेश्वर मन्दिर हिने देखि मिरगाउँ मधुगंगा सडक आयोजना सग सम्वधित थेक्त्रिक हिंसा तथा यौन दुर्थहार सम्बन्धी गुनानोहनलाइ अभिनेखिकरण तथा सहभोकरण गर्नकालांगि रोहि व्यक्तिलाई थप Anti-Harassment Cell को रषमा प्रतिश्चित (नं हुन अनुरोध गलिन्छ भनि लेखि प्राएको हुदा सोहि बमोफिम प्रतिस्थापित गरिएको ब्यलिंग अनुरोध छ ।

-नगेन्द्रमणी श्रेष्ठ

्नि प्रमुख प्रमासकिथ अधिकृत नि प्रमुख प्रमासकिथ अधिकृत

Annex 11: Municipal Letter about GBV/SEA/SH

"धनकुटा नगरः स्वच्छे, सुन्दर, समुन्नत शहर" धनकुटा नगरपालिका नगर कार्यपालिकाको कार्यालय धनकुटा कोशी प्रदेशह नेपाइ मिति : २०८०/०६/२३ पत्र संख्या : ०८०/०८१ DER The fatterent चलानी नंम्बर: 222 धनकुहा 2053 विषय : सिफारिस सम्बन्धमा । यो जो जस सँग सम्बन्धित छ। प्रस्तुत विषयमा धनकुटा जिल्ला, धनकुटा नगरपालिका वडा नं. १ र २ मा पर्ने (षडेश्वर मन्दिर) भिरगाउँ-मधुगंगा सडक खण्डको आयोजना प्रभाव क्षेत्र (सडक छेउवाट ४०० मिटर पडरवर मान्दरा ामरगाउ-मथुगगा सडक खण्डका आवाजना प्रमाव वत्र (सडक छडवाट २००) महर दाँयावाँया) भित्र बसोवास गर्ने समुदायका बासिन्दाबाट यस धनकुटा नगरपालिकाको न्यायिक समितिमा विगत २ वर्ष देखी हालसम्म महिला हिंसा तथा यौनजन्य दुर्व्यवहार (GBV,SEA/SH) सम्बन्धि कुनै पनि गुनासा एवं घटनाहरु दर्ताहुन नआएको व्यहोरा सम्बन्धित सबैका जानकारीको लागि अनुरोध गरिन्छ। 119 0 भिमादेवी खनाल संयोजक Hars फोन नं: : ०२६-४२२२६९ ईमेन : dktmun@gmail.com

Annex 12: Letter from OCMC Hospital about GBV/SEA/SH, Dhankuta

"धनकुटा नगरः स्वच्छे, सुन्दर, समुन्नत शहर" धनकुटा नगरपालिका नगर कार्यपालिकाको कार्यालय धनकुटा प्रदेशन नेपाल मिति : २०८०/०६/२३ पत्र संख्या : ०८०/०८१ चलानी नंम्बरः 228 নন্দুরা ২০১৪ विषय : सिफारिस सम्बन्धमा । यो जो जस सँग सम्बन्धित छ। प्रस्तुत विषयमा धनकुटा जिल्ला, धनकुटा नगरपालिका वडा नं. १ र २ मा पर्ने (षडेश्वर मन्दिर) भिरगाउँ-मधुगंगा सडक खण्डको आयोजना प्रभाव क्षेत्र (सडक छेउवाट ४०० मिटर दांयावांया) भित्र वसोवास गर्ने समुदायका वासिन्दावाट यस धनकुटा नगरपालिकाको न्यायिक समितिमा विगत २ वर्ष देखी हालसम्म महिला हिंसा तथा यौनजन्य दुव्यवहार (GBV,SEA/ SH) सम्बन्धि कुनै पनि गुनासा एवं घटनाहरु दर्ताहुन नआएको व्यहोरा सम्बन्धित सबैका जानकारीको लागि अनुरोध गरिन्छ । 3pila 0 भिमादेवी खनाल संयोजक संयोजक फोन नं : ०२६-४२२२६९ इंगेन : dktmun@gmail.com
Date 101627:-3 EARS JANG Star Andrenti Brisi Dan 2000/6/98 21 2 31 12722 Sterrante Intra later שישבבשו שנגבות מעשו שעשו שנה שנישות העולמאין अनेखिन केंद्राहर उपर 19 र त्राहला जल गर) य के रामनी ते मिर्हाहर जारित आरे के / 10142t To ander grow and growing a formal GRC a) Brant ST2+ Quarterin 1 20 191225 341221012. 444/3220020 EENIGIZ P.R. 431+ HHOTL Starran - Bala 0) 938 Horan S.an. 542 27 Emili STREPGOTT 2) BA Carso ars Jame SHARD STREAMER BARE ASCX2025999 S- BULLINITASIS 200, 957-9 BC82908355 3.)89 37661 8.) 817 20000 200,931-2 5082036828 ent X. Shi Parent ETARGAMERA LEXEDXUGSS E) SA Jones Bias Erraiste A.S. STX20 X060% Saus AZARASTE STRADLASS 6. Sh - 2 ar 2/5100 CISITIE STATES SIGIAR STRONKODB9 5.)8A 1800 2012 1600 de versioner STX20X08CC Profesters :-יו ואו אות האותיה העוכולבוצ בלותר ולכל הבוא (ה क्रांब्लर अल्ब्लाकान्य स्ट्राईते क्रायेन्त्र हत लोग 31 -131-1. - 2 2 2010 - 18 - 193 BEI -PSIZUMA 5 N 11 225 2 2 0 5 31 1-710 HIREN. an

Annex 13 A: Minutes regarding GRC Meeting

Date ! שריבו שרובים באיור עריבי בגיר שריביר שריבים HER EMPISIS EL ALERTAN SRA (ESMF.) PT उननेर्व अए अनुस्तर उनस्तेनन्त स्तरम् नडान-25 asi are and bir - mg and any sy a allows-כעור וארירו מוצאה בבריהבי בבאיריבן עושיותו and server and (GRC) JILA STA Fronso 20 work שות או איריזי וביוברוריו איינייו איינייו איינייי בוקראום נובוובים אבוליובים והיארים העוצר वर्मार्डस रहेरेहि। 2) 2122 20 8/1 3 25 CI 0 1413; , 93/31 210 951-9 25-2 CM 3.) र दरम की रसना कराता , वडा र दिर्घ चडा न - 2 צין עדעיבו אל היהיבים אישיון, בתחשובוביה ועשוב לאוש עייייי א א) ארבי באיצה בי הצוא בוצר, משו אביה מ משור ב भार अगरीकानां सत्तर शुन्तार्द्री सुनु नाई स्टाम्नी केंद्र ा विमित्त הוציאים או ובל שונשו ארוצובשמיוב הכשומ strene sin anna anna lare is servicies as a service and (ESME) For 3 and 20 suches ברובי היובי האיניבי בייר בייר ב ברובי איל לאיי ביירי בוריציורי היות האות ביבה הוא היות היות אין אייל सामिगतेम्न प्राहने परिकोलान्डे लगाई। यह शानाई שישמיע ביציי ב ישריבי בינביי ביציי עוביי בייביי Tar 13 - moise a wwwww auth siles

Annex 13 B: Minutes regarding GRC Meeting

Dale Dage 3+13+18-18 2000/6/98 21 18+ 200 रतन्त्रले ड्रम् के कर्स्यात्मा बर्स्डे बेट्डम्न मिन्त ואיזה יצור בצו של שבי אבריבים אירי אירי אירי אירי שהאוציה פיבוצי שניב ואבתה בהישהי שיל נילצייםה From outrat TOTOTER en zinter tomas atimin (GRC) STER 21200 2) 1912011 34122001 46/ 3RAAL 6.2. Stara 2 -177 A.Q. SRIGIES YAN STREWOTT 9. Shistarical 29HIM 2100 Stra Della Part Stand Scarost 2) 27 42122 272 0 als181227,4812.9 452905363 a) shares and - all 10 25-1957-2 5582026898 8) Brengannames 2.91.9. 3. AND CX2020865 2)Shipmon Shan MANGA A.S. SCHADYDGOX E) Shorter Shes STATION STRADX0039 6) BA ISASATA GIST BA T.) \$ 9 34 4 2 2 ----MIGION STRADADLOS AZTIGATER STYLEDX0223 4.)817 -12 01F192 2510 90.) AUDIERES :-NEN STRAIL BARASIEN LATER 200 POIL LAINESIS

אינטיד מרובי אייי אייי אייי אייי איייי איייי איייי איייי איייי איייי אייייי איייי אייייי אייייי אייייי אייייי עואו אירוק הצויב ותנשושים וליתריו ובבידה אוריים איזיאי ארב ב ואחול וביותו בותר ביא אייבי לייוב לא שוובולבי לבי וביה וביה אים בסובובו אי בי לבייליו ביו ביוע היווצר עד ואראיי ביוצי ביויב היינב היווציו בובר אוייב ביבושאמאיו האוג במצובר בי צוריוביו ארואיו בריבידא בירובי ושיאישובינה בחינה ביונים אוציו 212 מדתומצוטובר נים מוגווהים בבימוניו עוד אונ Find (ESME) HI Sanda and atting the अन्योजन्म र स्वर्ग्न रहेडो हानासे स्तुन्याई स्वाधितीत איריי איישיאי איישיאין איישיובי וצביאייי אייב אייביאי मा बहेडी रुग्नि सुनु न, ई स्लिने सम्लाह राजे-प्रे र उन्त कर की के कार के का के का कर के के באבו בצורי לב היצור בורבן באוצר איו אייל איי איייניים ובר והב מי בערות בעיםי בעי שיש מעורו ובדר ה-ולעה בבידהנוש בדהיוש עו המים בחלבר בוהיאי ते पारित आरेके । नगर्या त्र तरीक शन्मसा सुन. 7412 283 ET a) भेटोन्ड - धार्रियोद्यो रणनाल, 34 440, ER. त. . 2.) - - 21 - 21 - 212 - 212 , שור בי שבוצה בא אייר בי אביים און בא אייר בי אייר 8) xaxes - 8h graversias, x12,15 8 21 25, 2x + CA 8) 4444- BA Borners Singer Sugarse 29.4.07. 2) are contras - Bit rage 21 anerois, Tour Leader, Saistargini 2) भर राम्यो सुनुवाई सामित अग्योतन स्तरम יו שיובי אישיאי אישובי איי איי איי שיונשו בווארובי נק שיושיי FIEZOLA

Pate : Sing wind Bulk Si Stan Sing and a cash star שותו מעומונוטובד עם ביואר ואין בברמו באירה שוביראא (ESME) 201 322 29 STRES 2002 12 12 12 12 12 בור שוליים בריובויים הי ביצובה צוחוציוצער ל मेपाल आहरी आस्ति २० तरन पुर्वा सार आदित का मान मेपाल आहरी आस्ति २० तरन पुर्वा सार आत्मि सुनुन्द स्मितिडी मान्यानित बेर्ड प्रत्ये ड स्मरिलाडी पाहेली आहरू गर्वस्ने A BUNATER BUTT STATE Toward and IT ALSO

Annex14: List of Zebra Crossings and Ramps

Zebra Crossings locations along the road alignment

S.N.	Proposed Chain-age
1	0+100.00
2	0+360.00
3	0+720.00
4	1+420.00
5	2+510.00
6	5+270.00
7	6+620.00

Ramps locations along the road alignment

S.N	Chain-age	Nos			
1	0+060	1			
2	0+180	1			
3	0+280	1			
4	0+300	1			
5	0+720	1			
6	0+800	1			
7	0+960	1			
8	1+060	1			
9	1+120	2			
10	1+280	1			
11	1+500	1			
12	1+620	2			
13	1+880	1			
14	3+540	1			
15	4+900	1			
16	5+360	1			

S.N	Chain-age	Nos
17	5+860	1
18	6+220	1
19	6+480	1

Annex 15: Land ownership Certificate of Landowner at Campsite

-		भूमिसुध	भूमि व्यवस्था भूमिः व्यव भूमिः व्य गर तथा माह जरगा	स्थाप्र संस्थाप्र संत मुख्	पान स तथा हासे हासे हासे हासे हासे	रकार गरिबी निवारण म ान्ध्रमिसेख विस् ग कार्यालय प्रमाण-पूज	त्त्रालय ज्ञा	जग्गा	मी सकेत	तम्बर् :	PFI	000009 ¥¥
अौठा छाप जग्गाधनीको नाम धरः राम कुमारी तामाइ ठेगानाः बिल्लाः धनकुटा गा.पा. / न.पा. / गा.वि.स.: भिरगाउं वार्ड नं.: २ वेषा बाबु/पतिको नामः दोर्ड बहादुर तामाइ/वन्द्र लोल तामाइ ससुराको नामः जीत बहादुर नागरिकता न.: ०७३०२४।४८ जारी मिति: २०६३/१०/२८ वारी गर्ने कार्यालयः बिल्ला प्रशासन कार्यालय.धनकुटा									•			
साविक कित्ता नं.	प्रमाण संकेत कारोबार व्यहोस		जिल्ला / गा. वि. स. / न _. पा.	बार्ड नं./ नक्सा सीट नं.	कित्ता नं./ खण्डे नं.	विवरण (घर,आबादी,इत्यादि)	जग्गाधनी को हकहिस्सा	मोहीकी नाम 'थर	किसिम वा वर्ग	क्षेत्रफल7 व.मि.	कैफियत	प्रमाणित गर्नेको दस्तखत
323	२०७८/०४/२१ Loo राजिनाम तिखत पारित	00983	धनकुटा भिरगाउं	. 9 9	9 X U	आवादी रैंकर निजी	एकलौटी 、	7	भिट/पाखो/ बारी दोयम मा क्षेत्रफल	११-११-१- (रोपनी) ४९४३.७८ ४९४३.७८	- वर्ग मिटर	44
गम कुमारी तामाइ फ़िल्ट सनेको दस्ता फ़िल्ट सनेको नाम राज कु	धन पट काल गीडेल काम्प्रस्ती	÷	्रे प्रिन्ट मिति :	1 2035/0	8/29		<i>रु</i> नु	गर्नेको दस्तखत	Y	Pad 429		नायव स्टब

Annex 16: Lease Agreement paper between Land owner and Contractor

लिखितम आशिष - आशीर्वाद - स्वामीनारायण जे भी त्रियुगा- ७ उदयपुर (Upgradation of Hile Shadeshwor Temple- Bhirgaun – Madhuganga Road), Nepal Urban Governance and Infrastructure Project (NUGIP) को ठेकका नम्बर NP- DUDBC- 396323-CW-RFB साइट लाई प्रथम पक्ष भनिनेछ र जिल्ला धनकुटा , धनकुटा नगरपालिका वार्ड न २ निवासी ३६ को रामकुमारी तामाङ्ग दोस्रो पक्ष भनिएको छ का बीच को दोश्रो पक्षको जिम्मा रहेको धनकुटा नगरपालिका वार्ड न -२ स्तिथ कि न ७७२ अएको ११-११-१-०- रोपनी जग्गा पहिलो पक्ष निर्माण सामग्री राखन, स्टोरे , लेबर क्याम्प संचालन गर्न लगायत अन्य निर्माण सम्बन्धी काम गर्नको लागि सडक निर्माण योजना अबधिभर (निर्माण सम्पन्न मर्मत संभार अबधिभर) को लागि उपयोग गर्ने गरि तपसिल मा उलेखित सर्तहरुको अधिनमा राख्ने एक एक प्रति लियो दियो |

सम्झौताको सर्तहरु

- १. यो सम्झौता मिति २०८१/०२/०८ गते बाट सुरु भई माथि उलेखिति ठेकका अबधि भरको लागि लागु हुने छ |
- २. प्रथम पक्षले दोश्रो पक्ष लाई जग्गा भाडा बापत योजना अबधि भर रु १२०००० | (रुपैयाँ एक लाख बिस हजार मात्र) भुक्तान गर्ने छ |
- प्रथम किस्ता बापत रु ६०००० (साठी हजार मात्र) सो रकम सम्झोता समयमा दिने ।
- दोस्रो किस्ताम बापत रु ६०००० ।(साठी हजार मात्र) सो रकम आयोजना सकिने बेला दिने सहमति भयो |
- जग्गा भाडा लाग्ने कुनै पनि करको जिमेबारी दोस्रो पक्षको हुनेछ ।
- ६. सम्झौता अबधिमा कुनै समस्या आइ परेमा दुवै पक्षको आपसी समझदारीमा समाधान गर्ने छौ अन्यथा प्रचलित कानुन बमोजिम सहौला बुझौला |

प्रथम पक्ष लव कुमार चौधरी



दोस्रो पक्ष रामकुमारी तामाङ्ग जग्गाधनी TTA ATTI

Annex 17: Land owner's Citizenship Certificate

नेष य, धनकुटा जिल्ला प्रशासन माणपत्र नेपाली नागा H THEFT 06300 नाम, धर-राम ना.प. जन्मस्थान जिल्ला 231 2 गा,वि.स मजःमःनः स्थायी वासस्थान रवडा झ गा.वि.स. / ज.म.न. र......महिना. 90. गते जन्ममिति ि & D. ATHISR बाबुको नाम थर गरिकता : ठेमाना जिन्द्र जन आमाको नाम घर गगरिकता ठेगाना :..... TOTAL MAN पति मानीको नेतर बर टेडि टे लाल तो मेरे 55, नामुरिकताकालकि सिमे प्रसारणित कार्यन बेस्तखतः चितरण सठाको छाप दायाँकहत्र मुमाणपत्र दिने अधिकारीको : बायाँ attan: 2,211 2 नाम, बर : . जनादेन नेपाल दर्जाः टोली प्रमुख मिति : 0.6.5 f. f. राम कुमरी

Annex 18: Photographs



Figure 0-1:Start Point of Road at Hile (Shadeshwar Temple)



Figure 0-2 :End point of the Road



Figure 0-3: Lab set up at Camp Site



Figure 0-4: Consultation with Sunita Katwal ,health assistant at Bhirgaun health post



Figure 0-5: ShriJalkanya Primary School along the proposed alignment



Figure 0-6: Workers wearing PPE at the site



Figure 0-7: Consultation with Chairperson of WN2 Mr. Chandralal Tamang

Figure 0-8:Drinking Water Supply facility managed by Community



Figure 0-9: Female Toilet at Female Campsite



Figure 0-10: Male Toilet at Male Campsite



Figure 0-11: Stockpile at Campsite



Figure 0-12: Official Quarter of this road project at lamatole, Bhirgaun WN2





Figure 0-15: Public Forest along the alignment with RoW clearance