Building Design Authority (P) Ltd



in joint Venture with

B.N. Consultancy Pvt. Ltd and PLUSH Engineering & Architects (P) Ltd Kathmandu.

Semi-Annual Environmental Monitoring

Report (Jan-June 2021)

Regional Urban Development Project (RUDP)
Project Implementation Unit
Biratnagar, Nepal
ADB Loan 47252- NEP



July, 2021

Biratnagar Metropolitan City (BMC), Nepal

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1. Environmental Monitoring Checklist

ABBREVIATIONS

ADB = Asian Development Bank

AP = Affected Persons

BMC = Biratnagar Metropolitan City

BS = Bikram Sambat

CDP = Community Development Program

CRIPPF = Combined Resettlement and Indigenous Planning Framework

DDR = Due Diligence Report

DSC = Design and Supervision Consultant

DUDBC = Department of Urban Development and Building construction

EMP = Environmental Management Plan
EPR = Environment Protection Regulation
IEE = Initial Environmental Examination

GoN = Government of Nepal

GRC = Grievance Redress Committee

ISWM = Integrated Solid Waste Management

MoUD = Ministry of Urban Development

NRs = Nepalese Rupees

NGO = Non-Government Organization
PCO = project coordination office
PIU = project implementation unit
PPE = Personal Protection Equipment

PPTA = Project Preparatory Technical Assistance

ROW = right of way

RP = resettlement plan

R&R = resettlement & rehabilitation

RUDP = regional urban development project

SDS = social development specialist

STIUEIP = Secondary Town Integrated Urban Environmental Improvement Project

SPS = Safeguard Policy Statement

SD = Safeguard Desk

WEIGHTS AND MEASURES

Ha. = Hectare Kg. Kilogram =m. meter =sqft. Square fit sqm. Square meter = 1 ha 1.47 bigha =

I. INTRODUCTION

- 1. The Regional Urban Development Project (RUDP) is designed with the aim to improve livability and urban services in the municipalities of Godawari, Bhimdatta, Biratnagar, Birgunj, Dhangadhi, Shuklaphanta, Nepalgunj and Siddharthanagar in the Terai Region of Nepal through planning, infrastructure investments, and institutional strengthening. The eight cities have high population growth rates, are severely lacking investment, and are experiencing a high level of environmental degradation. The project is also in line with ADB's Nepal Country Partnership Strategy (2013-2017), which supports the government's development objective of accelerated, sustainable, and inclusive economic growth, and with the Asian Development Bank's (ADB) water and urban operational plans.
- 2 Biratnagar is one of the eight municipal towns included in the RUDP. The subcomponent of the RUDP covers the construction and improvement of sewerage, drainage and roads and design of Integrated Solid Waste Management System (ISWMS) for Biratnagar Municipality. Building Design Authority (P) Ltd (Nepal), B.N. Consultancy Pvt.ltd and PLUS Engineers & Architects (P) Ltd Kathmandu as a design and supervision consultant (DSC) and have entered for a Contract of Consulting Services with Regional Urban Development Project (RUDP), Project Implementation Unit (PIU), Biratnagar Metropolitan City (BMC) on 28th August 2017 and design and supervision were commencement on September 6, 2017.
- 3 RUDP, the Department of Urban Development and Building Construction (DUDBC), under the Ministry of Urban Development(MoUD) through the Government of Nepal (GoN) has received the loan from ADB.
- 4 In line with ADB's Strategy 2020 and based on Nepal's fundamental long term needs and on the GoN's priority, the ADB is continuing to support the Government in(i) improving urban infrastructure; improving access to water supply and sanitation (ii) supporting urban environmental improvement(iii) strengthening the operation and management skills of local governments. The RUDP will forward to promote healthy cities by creating healthier urban environments and was formulated under the PPTA 2010. Figure 1 presented below shows project location of BMC.
- 5 This Semi-annual Environmental Monitoring Report (EMR) Jan-June, 2021 of RUDP, Biratnagar has been prepared on the basis of results of the regular environmental monitoring activities undertaken by the Contractor during the reporting period as required by the Environmental Management Plan (EMP).
- 6 Similarly regular monitoring visits by DSC Environmental Expert have been made and standard environmental monitoring checklist has been used to note the status of EMP compliance.

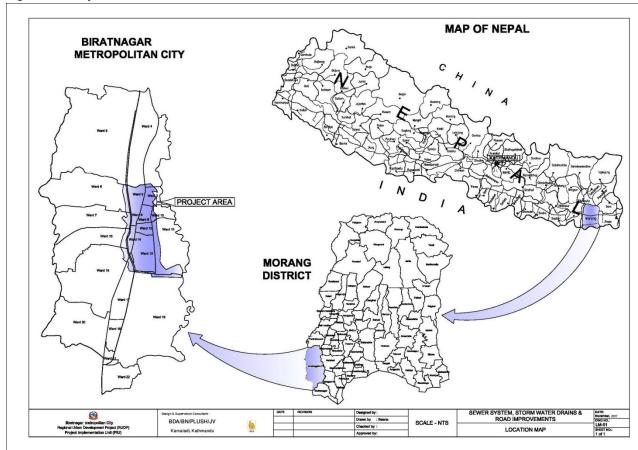


Figure 1: Project location of RUDP

II. DESCRIPTION OF SUB PROJECT

- Since 2012 STIUEIP is implementing (i) drainage and sanitation including wastewater treatment plants (facultative and anaerobic pond), public and school toilets, and storm water drainage; and (ii) roads and lanes including upgrading of roads, footpaths, side drain and walkways in BMC. In most of the sections the drainage construction and earthen works of the roads has been completed but pavement improvements could not be done under STIUEIP due to cost overrun.
- 8 The additional works under RUDP are expected to complement STIUEIP and lead to increased efficiencies, greater improvement in service delivery, and higher impact on the livelihood outcomes of inhabitants of BMC. The pre-project construction activities, including land

acquisition including construction activities except outstanding and some minor repairs works have been almost completed by the RUDP. In many cases, RUDP is working on the same alignment as STIUEIP. STIUEIP installed the drain and RUDP has been rehabilitating the road and construct a footpath. The table 1 provides a summary of the proposed alignments where STIUEIP is also working to show synergies between the two projects. The shaded rows denote new/additional alignments under RUDP.

Table 1: Summary of Project Components in Regional Urban Development Project
Biratnagar

11	Description of the	Quantification of major construction items/	
Components	Activities	activities	Location
Drainage and	sanitation		
Sewerage network	Sewerage pipe supply and installation; manhole; sewer inlet; house connections	Installation of 18.559 km sewerage pipeline; construction of 606 manholes; 1,010 sewer inlets and 2874 house connections	At the central line of the existing roads within clear road width
Storm water	RCC drains	Construction of Chyangbari Nala = 585 m. Construction completed.	Within the clear width of existing Nala
Roads and La	nes		
Road improvements	Asphalt concrete, footpath and roadside drains	Road improvements with asphalt concrete: 66.718 km, including footpaths and roadside drains: 35.42km	Existing roads and footpaths

9 As indicated in design and drawings there will be 4 types of trunk and secondary sewerage system. Overall layout plan of the sewerage system as proposed for RUDP is given in *Figure 2*.

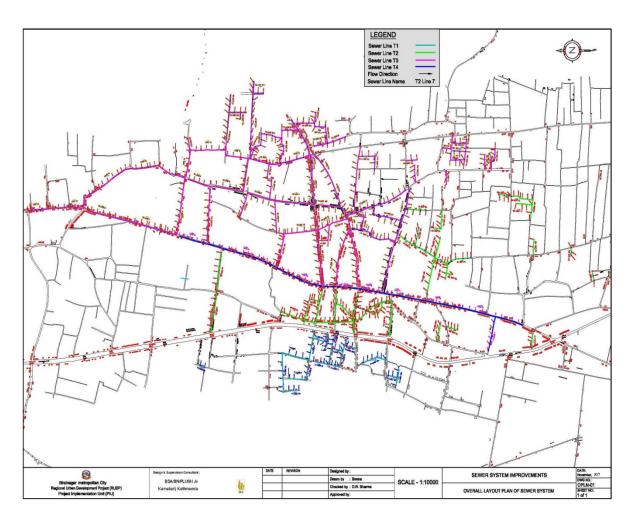


Figure 2: Sewerage Layout Plan

The construction of the storm drainage has already been completed. *Figure 3* presented below shows overall storm water drainage plan for BMC. All planned storm drainage system has already been constructed which passes through the existing Chyangbari Nala (Sagarmatha tole to Sukrabare Hatiya). The right side of blue shaded area in the *Figure 3* is proposed under the RUDP and constructed. The existing ROW of the drainage will be sufficient to improve the proposed section. There are no registered private lands, tenants and sharecroppers or seasonal encroachers at either site of the proposed drain.

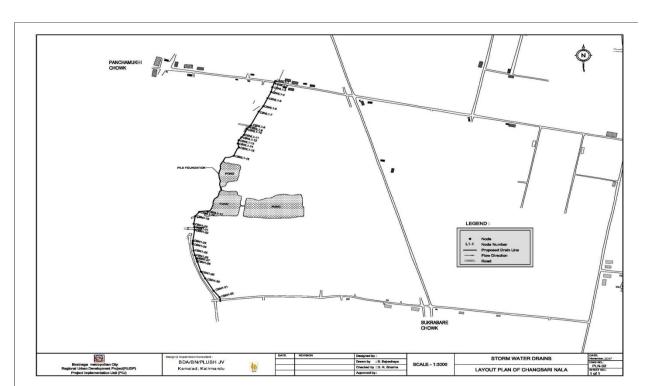


Figure 3: Storm Water Drainage Layout Plan

11 A total of 66.718km road improvement has been proposed in the RUDP. The roads included for improvements are those roads which were damaged due to pipeline installation, storm drain construction and other project related works of STIUEIP and couldn't be restored due to unavailability of funds. The overall road network layout plan is shown in *Figure 4a and 4b*.

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Figure 4a: Overall Layout Plan of Road Improvement Networks (Northern part/main road)

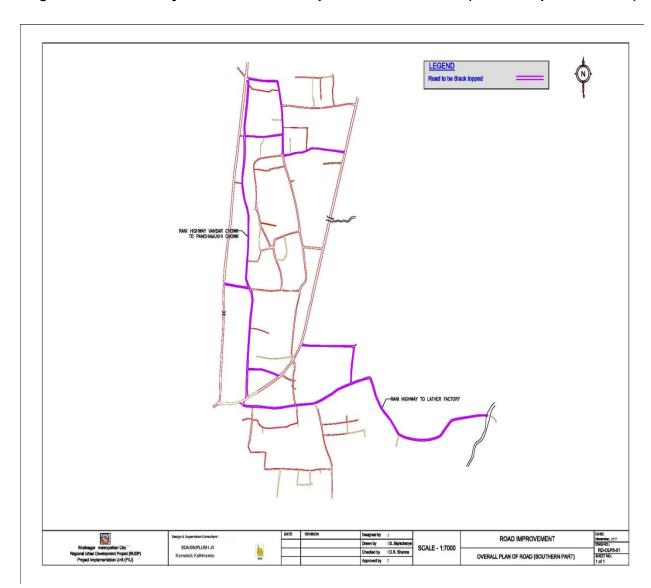


Figure 4b: Overall Layout Plan of Road Improvement Networks (Southern part/rani area)

SALIENT FEATURES OF CONTRACT PACKAGE – RUDP/ICB/BRT/2

	General Features		
Name of Project	Regional Urban Development Project(RUDP)		
Executing Agency	Government of Nepal, Ministry of Urban Development Department of Urban Development and Building Construction (DUDBC)		
Implementing Agency	Biratnagar Metropolitan City,		
Funded By	Asian Development Bank & Government of Nepal		
Components	Construction and Completion of Sewerage, Drainage, Road, Footpath and Road furniture works		
Contract No.	RUDP/ICB/BRT/2		
Location	Biratnagar Metropolitan City, Biratnagar, Morang, Province No-1		
Consultant	Building Design Authority (P) LTD in Joint Venture With B.N. consultanc Pvt and PLUS Engineers and Architects (P) Ltd Kathmandu.		
Contractor	ZHONGHENG Construction Group International Engineering co Ltd. Beijing, China.		
Date of Commencement	2 nd November2017		
Revised Completion Date	11 th February, 2021, Defect Liability period started from 12 February, 2021.		
Contract Amount including PS and VAT after VO-02	NRs. 2, 988,389,581.81		
Revised Contract Amount including PS and VAT	NRs. 3,018,488,228.77 (excluding Additional Financing 100% funded by BMC NRs. 39,999,966.94).		

Physical Progress up to	Construction works are under progress. Overall physical progress till
date	Dec.2020 is 99.01% ,

a. Environmental category of Subprojects

- The project is environmental improvement project, and mainly constitutes works on sewerage/ drainage improvement works Road works and design for Integrated Solid Waste Management in BMC besides others. As per ADB Safeguard Policy Statement (SPS), 2009 on Environmental Assessment requirements, this project is classified as Environment Category B.
- 13 According to GoN's Environmental Protection Rules, 2054 BS, schedule -1, IEE is required for Operations of Sewerage Schemes under Schedule 1.h.2.e (Pertaining to Rule 3). IEE report under STIUEIP was approved by MoUD on May 14, 2013.
- 14 The Due Diligence Report (DDR) has been prepared and submitted to PIU for approval for the additional works as a supplementary document for approved IEE report under STIUEIP.
- 15 The Inception report on Integrated Solid Waste Management (ISWM) has already been prepared and submitted to PIU. Similarly Stakeholder's analysis, communication strategy and consultation plan for ISWM also has been submitted.

b. Project Safeguard Team

16 A Safeguard Desk (SD) of 4 members has already been formed to monitor the overall project's safeguard issues. The details of the safeguard team with their respective roles is as follows:

Name	Designation/O	Email	Contact	Roles
	ffice	Address	Number	
PIU				
Mr. Bharat	Project	stiueip.brt@	9852026869	Overall management and
Kumar	Manager/	gmail.com		monitoring of the project
Neupane	Biratnagar			activities
	Metropolitan			
	City			
Mr. Punam	Social	punamkdah	9852022729	Monitoring the Issues of
Kumar	Safeguard	al@yahoo.c		social safeguard, GESI and
Dahal	Officer/Biratn	<u>om</u>		resettlement of the project,
	agar			check and monitoring the
	Metropolitan			safeguard activities of
	City			contractor and consultant

A 14	1			
Consultan				
ts				
Mr.	Social	pbs026@g	9841329719	Monitoring the Issues of
Prakash	Safequard	mail.com		social safeguard, GESI and
Bhakta	Expert/			resettlement of the project,
Shrestha				Prepare Social Monitoring
	DSC			Report and resettlement plan
				and check and monitor the
				safeguard activities of the
				contractor
Mr.	Environmenta	phuyaldwari	9851086137	Monitoring the Issues of
Dwarika	I Safeguard	ka@gmail.c		environmental safeguard of
Phuyal	Expert/	<u>om</u>		the project,
				Prepare Environmental
	DSC			Monitoring Report(EMR)
				check and monitor the
				safeguard activities of the
				contractor.

c. Overall project and sub project progress and status

17 The Overall Project Progress till the month of June is 99.01% after Variation Order-03. There are altogether 47 skilled and 102 unskilled labours employed in construction. The progress till June, 2021 is as shown in table below:

The physical progress till June, 2021

S No	Sub Project Components	Progress % (as end of June after VO-03)			
1	Road Rehabilitation (Asphalt)	99.66%			
2	Sewer Line	100.00%			
3	Storm Drain	100.00%			
4	Road Side Drain 100.00%				
5	Footpath/Interlock work	70.91%			
6	Design of Integrated Solid Waste Management (ISWM)	Inception Report as well as Stakeholder's Analysis, Communication Strategy and Consultation Plan has already been submitted. Due to Social Problem, Progress on design has been hindered.			
7	Overall Physical Progress	99.01%.			

Description of subprojects (package wise) and status of implementation:

Package	Component	Contract	Status of	If On-going Construc	tion
Number	s/List	Status	Implementation	Physical	Expected
	of Works	(specify if	(Preliminary	Progress	Completion
		under	Design/Detailed		Date
		bidding or	Design/On-going		
		contract	Construction/Co		
		awarded)	mpleted/O&M)		
	Sewer	Contract	Completed	100%	
	lines	awarded			
	Storm	Contract	Completed	100%	
	Water	awarded			
	Drainage				
	Roads and	Contract	Completed	100%	
	Lanes	awarded			
	C 4 4 -	Caratra at	Outstanding	70.040/	
	Footpath	Contract	Outstanding	70.91%	
	Interlocking	awarded	work		

III. COMPLIANCE STATUS WITH NATIONAL/STATE/LOCAL STATUTORY ENVIRONMENTAL REQUIREMENTS

Environmental safeguard related project activities are in compliance with prevailing statutory environmental laws as regular follow up actions are being taken according to the provisions made in laws.

Compliance Status

Packa ge Numbe r	Sub project name	Statutory Environmental Requirements	Status of Compliance	Action Required	Specific Condition that will require environmenta I monitoring as per Environmenta I Clearance, Consent/Per mit to establish
RUD P/ICB /BRT/ 2	Sewerage and Drainage Networks, and Road & Lane	As per ADB guidelines on Environmental Assessment requirements, this project is classified as Environment Category B GoN's Environmental Protection Regulations (1997) also stipulate that an IEE is necessary for the new	Complied (IEE approved under STIUEIP) DDR has been		

	Improvem	sewerage project. The project is	prepared	
(ent	environmental improvement project,		
		and mainly constitutes works on		
		sewerage/ drainage improvement		
		works in BMC besides others.		
		According to Environmental		
		Protection Regulation, 2054 BS1997,		
		IEE has been carried out for		
		Operations of Sewerage Schemes		
		under Schedule 1 (Pertaining to Rule		
		3) under STIUEIP.		
		However the sub project under		
		RUDP is an additional of STIUEIP,		
		Only DDR is sufficient and no		
		environmental assessment required		
		DSC prepared and submitted		
		already the DDR to PIU.		

IV. COMPLIANCE STATUS WITH ENVIRONMENTAL MANAGEMENT PLAN

a. Compliance Status

18 The IEE report under STIUEIP and Site Specific EMP as a part of Contract document have already been approved. The monitoring of sub project components under implementation has been carried out. The contractor has been mobilized since 2nd November, 2017 and construction work is under progress.

Compliance Status of IEE and EMP:

Package	Final IEE based or	n Detailed D	esign		Site-specific	Remarks
Number	Not yet due (detailed design not yet completed)	Submitt ed to ADB (Provide Date of Submissi on)	Disclosed on project website (Provide Link)	Final IEE provided to Contracto r/s (Yes/No)	EMP (or Construction EMP) approved by Project Director?(Yes/ No	
RUDP/IC B/BRT/2	Final IEE approved on May 14, 2013 IEE.	Yes	https://www .adb.org// 36188-023- iee-07 http://www. biratnagar mun.gov.n p/en/conte nt/regional-	Yes	Yes	

		urban-		
		developme		
		nt-		
		projectrudp		

19 The internal environmental monitoring activity focuses on the current status of implementation of the environmental safeguard measures, effectiveness in implementation and provision of feedbacks and suggestions for the full compliance with ADB Environmental Safeguard Policy and GoN rules and regulations.

The EMR therefore is necessary to know the status of safeguard measures implementation and to recommend the corrective action for full compliance of safeguard measures.

20 For the contract package there is a provision of Accident Prevention Officer as a contractor's person for environmental safeguard.

The contractor has appointed a safety officer to look after environment, health and safety issues.

b. Summary of Environmental Monitoring Activities for the Reporting Period

The monitoring activities during this reporting period along with potential environmental impacts, mitigation measures, monitoring parameters, locations with responsible agencies is shown in the table below.

Table 2 Environmental Monitoring Activities

Impacts	Mitigation Measures	Parameters monitored	Method of	Location of	Monitored
Design Phase		momtorea	monitoring	Monitoring	by
Pre -construction					
phase					
No such impact is					
anticipated as the					
works involve only					
about review of					
detailed design, site					
investigation, detailed					
survey etc.					
Construction Phase					
Air pollution , increase	-Sprinkling of water on road surface, over	Dust emission	Observation	Construction	Environmenta
in dust/suspended	excavated soil and across diversion three to	Frequency of		Site	I Safeguard
particulate matters	four times a day or as required	Sprinkling of			Expert
	-Cover stockpiled construction materials with	water			
	tarpulin				
	-Provision of dust masks to workers				
		Use of dust			
		preventive			
		mask by			
		workers			

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Inconvenience to	-Plan transportation route	Transportation		Construction	Environmenta
pedestrians and	-Inform public about the nature and duration of	Plan and		Site	l Safeguard
vehicles	construction	schedule of	Observation		Expert
	-Do not block public road and pedestrian	working			
	footpath				
	-Provide diversion with proper traffic sign and	Proper			
	signal boards	diversion			
	-Coordinate with Municipal Traffic Office for	Traffic signs			
	temporary road diversion.	and barricades			
	-Place precast slab cover immediately as early	Road side			
	as possible on completion of construction by	drain cover			
	cleaning the drain bed of side drain				
				-	
	-Back fill of sewer line/side & storm drain after	Proper excess		Construction	Environmenta
Issue of management	laying of sewer lines and constructing drain,	surplus	Observation	Site	I Safeguard
of excavated surplus	- Locate, peg and seek approval from the	management			Expert
and stockpiling of	supervising consultant for the use of stockpile sites.				
construction materials	-Stockpile should not be located on water				
	courses; should not be within 50m of Schools,				
	hospitals or public standpipes; and should not				
	affect locals and their properties.				
	-Obtain written permission from landowners				
	and local bodies for stockpiling on their landStockpiles should be covered with tarpaulins.				
	For large stockpiles, it should be enclosed with				
	side barriers and also covered when not in		Observation	Construction	
	use.			Site	
	-Clean area properly after completion.				
	-Locate disposal sites on stable ground without				
	excessive slope; that avoids water courses and				
	wetlands; that will not promote instability and result in destruction of property, vegetation and				
	local services.				

				T	T
	-Restrict disposal at approved locations with				
	correct placement of fill.				
Isues of Occupational	-Implement a site Health and Safety Plan	-Provision of	Observation	Construction	Environmenta
Health and Safety	-Provide adequate Personnel Protective	PPE on site		Site	I Safeguard
Accidents and Injuries	Equipment (PPE) to workers (jackets, helmets,	Nos. of		O.LO	Expert
/ reducing and injuries	boots, gloves and masks etc.) to workers	awareness			LAPOIT
	-Provision of First Aid Box with required				
		program			
	medicines				
	-Provide Hand sanitizer, face masks, proper				
	hand washing facilities with soap and sufficient				
	water along with awareness program on				
	COVID-19				
	-Provide proper signage (sign board, diversion	Type and			
	board, safety cone, etc).	number of			
Labour camp		safety boards			
establishment, waste		and protective			
management and	-Provision of light and ventilation with safe and	tools			
Water Supply and	proper drinking water facilities, toilet,sanitizer,	Quality and			
Sanitation	masks and collection and proper management	quantity of			
	of solid waste and liquid wastes including good	drinking water,			
	living environment	type of toilet			
	- Awareness and training to workers.	and waste			
	- Strictly prohibit to employ child or under aged	collection and			
	person as per Labour Act, BS 2074.	management			
		facilities			
		Type and			

		number of awareness Programs Nos. of Child labour			
Use of Bitumen / Combustible / and Toxic Materials	-Fuel wood shall not be used for heating bitumen. Bitumen shall be melted in heaters using kerosene, diesel or gas fuelBitumen drums should be stored in dedicated areas, not scattered along the road and any small accidental spills should be cleared up immediatelyNo bituminous material shall be discharged into side drains. Bitumen shall not be applied in strong wind or rainy conditions.	Use of fuel wood if any, Location of bitumen stores	Observation	Construction site and yard	Environmenta I Expert
Noise pollution	-Avoid noise generating activities at night. Restrict work to day hoursNoise barriers to be placed in sensitive locations i.e. schools, hospitals etcConsult with the local community to inform them of the nature, duration and likely effects of the construction work, and to identify any local concerns so that these can be addressedMinimization of period of constructionRegular Maintenance of vehicles and equipment.	Condition of vehicles and equipment	Observation	Construction Site	Environmenta I Safeguard expert
Operation Phase	regard. Manitorianes of volucios and oquipmont.				
Construction phase under progress					

c. Compliance Status with the Environmental Management and Monitoring Plans

Overall Compliance with EMP

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Sub-Project Name	EMP Part of Contract	EMP Being	Status of Implementation(Excellent/	Action Proposed
	Documents	Implemented	Satisfactory/ Partially Satisfactory/	and Additional
	(Y/N)	(Y/N)	Below Satisfactory)	Measures Required
Sewerage/Drainage Networks, Road & Lane Improvement	Y	Υ	Satisfactory	

V. APPROACH AND METHODOLOGY FOR ENVIRONMENTAL MONITORING OF THE PROJECT

This Environmental Monitoring Report has been prepared based on Environmental Management Plan (EMP) and observations made during monitoring visits by DSC Environmental Specialist. Contractor submits regularly monthly report along with Site-specific Environmental Monitoring Checklist to DSC. The DSC will check and verify the reports whether or not the EMP complied. The contractor nodal person (Accident Prevention Officer) who is involved in looking over health, safety and environmental issues and fills monitoring checklist.

A copy of the sample site specific monitoring checklist is attached in Annex 1.

Besides this, other major activities undertaken by the Environmental Specialist in ensuring environmental compliance and monitoring are listed as follows;

Desk review: National policies and legislations relevant to the projects sub-components were reviewed timely. Site specific Environmental Monitoring Checklist was prepared and used to note the status of project activities and EMP compliance.

Field Work: Potential environmental impacts identified by the contractors and the suggested mitigation measures' compliance or non-compliance mentioned in the Site-specific Monitoring Checklist was validated through field observations every month by the DSC.

Interaction and consultation with the local community and other stakeholders: A Safeguard Desk (SD) was established in the project for effective planning, monitoring and follow up of all environmental, social development/ safeguard issues. It was started as a functional mechanism consisting of PIU and DSC. The desk consists of the PM and Social Safeguard Officer of PIU, Environmental and Social Safeguard Experts of DSC.

Regular meeting of SD have been organized on monthly basis or as required. The desk will review, update and discuss the progress, issues, constraints and challenges of social and environmental aspects, Community Development Program and implementation of resettlement plan as well as monitoring of social development activities.

The Environmental Specialist of DSC also has made regular field monitoring visits to the project site, interact with the Contractor and verify that the mitigation activities are being carried out as required.

Labours and other Work-force are questioned each time during field visit about the environmental safeguard measures they are taking and materials being provided by the contractor along with direct observation of the work force camps for accommodation and the quality of water supply, hygiene and sanitation.

DSC prepares Semi-annual environmental monitoring reports and submits to PIU, PMC and ADB after reviewing the Contractor's reports.

VI. MONITORING OF ENVIRONMENTAL IMPACTS ON PROJECT SURROUNDINGS

Dust Emission and Control

- Dust Pollution was noticed as one of the major problem in the initial stage of improvement of roads and lanes because of excavation of sewer/drainage lines, storage of construction materials and dumping excavated spoilage along roadside for a long time. Movement of vehicles over those materials and unpaved road surface within project area was causing trouble of dust emission and air pollution. However, during this reporting period, almost excavated sewer lines, house connections and drains have been backfilled with reinstatement of road surfaces. Similarly spoil also has been dumped and managed properly in specified place i.e at Madhumara yard.
- To minimize it, the contractor was instructed to store debris and materials properly when stored along roadside with the intention of reuse of the same immediately in filling and laying as road surface course and compacting with the use of sufficient water. Water spray should be continued at least two to three or more during the day as required.
- 24 Since February 11 2021 major construction works have been completed and only outstanding and minor repair works are remaining. Major excavation and filling works were completed.
- The sprinkling of water has been done on access road surface and construction sites daily, by the contractor. The chances of emission of dust will be more during winter, dry and windy day. The Contractor therefore requested to increase the frequency of sprinkling water as required in dust prone area within construction sites and unpaved access road with diversion during dry windy day and winter season.

Use of Sign Boards, Barricades and PPEs

- Sign boards with barricades and caution tape have been installed at construction sites, however in few sites these were not sufficient. Therefore the contractor is requested to install adequate signboards with safety information, barricade and caution tape for demarcation of project sites and its enclosure. Safeguard tools like helmets, gloves, boots and masks have been distributed to labours, but not adequately used by the labours.
- Temperature measurement of labour and staffs of contractor and consultant with provision of hand sanitizer and masks have been arranged so as to prevent from COVID-19 pandemic. The contractor also instructed to strictly follow the health safety measures including maintaining physical distancing to mitigate the COVID-19.

Issues of Noise and Vibration

Hot mix or Asphalt plant is located in the Rani area away from the population centres. The contractor should take precautions to reduce the level of noise, vibration and dust emissions. No bituminous materials should be discharged into drains, nearby vegetation and property during spray over road surface. Place and compact hot asphalt

mix immediately after spraying the prime and tack coat.

29 The crusher plant is not in operation in construction site. Contractor has made agreement with sand and aggregate supplier to supply the sand and aggregate as required for site.

Water Quality Monitoring

30 Water quality tests of existing wells at labour camps, Madhumara yard, Lab office and Koshi Yard have already carried out and the results found satisfactory. The contractor advised to carry water quality tests of any new wells (if installed prior to use for drinking purpose)

Occupational health and Safety Measures

- 31 The contractor shall provide personnel protective equipment (PPE) (Helmet, Boots, masks, gloves, jacket, protective glasses etc.) to use. Public notification, safety and warning signs and informative signboards in working sites for work safety shall be provided. The DSC engineer and DSC Environmental safeguard expert supervise and monitor the use of PPEs and other necessary safety measures regularly.
- 32 The SOP for COVID-19 Risk Management at Workplace has already been approved by the Employer. The contractor has already been instructed for the implementation at workplace and sites as per approved SOP. The contractor has already procured and supplied goods as approved by the Employer.

A regular monitoring visit by DSC was carried out and a standard site specific environmental monitoring checklist was used to record the present status of the project to verify if work has been done as per EMP Guidelines. A sample of environmental checklist is attached in each MPR as Annex. Also the contractor has been instructed to update the OHS as per Standard Operating Procedure for COVID-19: Risk Management at workplace.

Establishment of labour camps

Labor camps are provided at various locations as per requirement and these sites were frequently visited and monitored. The condition is found to be satisfactory. The labor camps were provided proper electric lightning system, water supply and toilets. There were altogether 5 camps at different locations within project area.

VI.GRIEVANCE REDRESS MECHANISM

- The subproject will utilize the GRM proposed in CRIPPF of RUDP to hear grievances and concerns raised from affected persons and project beneficiaries during construction of the project.
- 35 A Local/Metropolitan level grievance redresses committee (GRC) comprising 7

members is formed to receive grievances filed in relation to RUDP implementation in BMC. The Mayor of BMC is the chairperson of the GRC with CAO of BMC and Project Manager as member and chief, social development of PIU as member secretary of the committee. This committee has been effectively addressing grievances and concerns raised by the concerned stakeholders including project beneficiaries. The GRC composition is presented in the table 3 below.

Table 3: Composition of GRC for RUDP

Name	Designation	Portfolio
Mr. Bhim Prasad Parajuli	Mayor, Biratnagar Metropolitan City Office	Chairperson
Ms. Indira Karki	Deputy mayor, Metropolitan City Office	Member
Mr. Umesh Basnet	CAO, Biratnagar Metropolitan City Office	Member
Er. Bharat Kumar Neupane	Project Manager, RUDP,PIU, Biratnagar	Member
Er. Prakash Chaudhary	Project Engineer/ PIU	Member
Er. Ghanshyam kafley	Project Engineer/ PIU	Member
Mr. Punam Kumar Dahal	Chief; Social Development/ PIU	Member Secretary

During this reporting period the GRC meeting has not been held because of not appearing any serious grievances.

After the effectiveness of the RUDP in BMC, the structure of the committee will be reviewed and revised in line with the GRC structure and mechanism prescribed in Combined Resettlement and Indigenous People Planning Framework (CRIPPF) of the project. The CRIPPF has provision to form GRC at the municipal level with representation from affected persons/beneficiaries. The Grievance redresses committee (GRC) concerned representatives of affected persons with one male and one female (a representative of indigenous people, in case of indigenous peoples related issues), will be invited in the meeting. The GRC will meet as needed to determine the merit of each grievance, and resolve it within 7 days of receiving the complaint. The Committee thus appointed should be sanctioned by the municipal board. The responsibilities of the GRC at municipality will be:

- i. to conduct subproject level public awareness campaign regarding grievance redress mechanism of the project. The social safeguards expert of the DSC will support the GRC by preparing and providing information/awareness material etc. to conduct the awareness campaign. The campaign will ensure participation of poor and vulnerable groups in the awareness campaign. The campaigns also cover information on entitlements policy provisions and their application; and
- ii. To hear complaints and grievances at local level. The local people can approach the committee with their grievances related to the project which will be registered, categorized and discussed in the committee with the aim of amicable settlement. It is expected that the committee will provide an accessible forum for receiving and facilitating resolution grievances related to the project and grievances will be redressed within one week from the date of received complaints. The member of secretary of GRC committee will be representing as social safeguard focal person, and will be responsible for processing and

placing all papers before the GRC, recording decisions, issuing minutes of the meetings and taking follow up action to see that formal orders are issued and the decisions carried out. Any unresolved or major issues at municipality level will be referred to the PCO level GRC for resolution. DSC social expert will be assisted to social safeguard focal person. Local/Municipality Level GRC mechanism chart in below figure 6 is shown detail process of Grievance redresses. The unresolved or major issues forwarded by the BMC level GRC will be reviewed at PCO level GRC for final solution. Decision has to be made within 15 days of receipt of complaint at this level. The PCO level GRC shall refers the complaints registered at the PCO to the BMC level GRC for initial hearing within 7 days of registration. Despite the project GRM, an aggrieved person shall have access to the country's legal system at any stage, and accessing the country's legal system can run parallel to accessing the GRM and is not dependent on the negative outcome of the GRM. People who are, or may in the future be, adversely affected by the project and not satisfied with the established GRM may submit complaints to ADB's Accountability Mechanism. The Accountability Mechanism provides an independent forum and process whereby people adversely affected by ADB-assisted projects can voice, and seek a resolution of their problems, as well as report alleged violations of ADB's operational policies and procedures. Before submitting a complaint to the Accountability Mechanism, affected people should make a good faith effort to solve their problems by working with the concerned ADB operation department.

VII. COMPLAINTS RECEIVED DURING THE REPORTING PERIOD

Although many grievances are received verbally and written, all Total 267 no. of grievances have been registered formally up to November 2020. Among them, 17 grievances are registered in GRC desk, total 77 no. of grievances are listed in PIU registered. Similarly, 162 grievances are received through telephone in PIU. Received all grievances have immediately been addressed and solved. Received grievances are tabled in GRC and Safeguard desk, SD discussed over different grievances and social and environmental agendas to immediate mitigate of public complains. Total 15 no. of SD meeting were held up to this reporting period. Project manager has chaired the meeting. GRC meeting has held as per need and mayor has chaired the meeting.

VIII. SUMMARY OF KEY ISSUES AND REMEDIAL ACTIONS

- 37 The key issues of the project during construction period identified were as follows:
 - Use of PPEs, installation of adequate sign boards, barricades and caution tape etc.
- 38 These are the major environmental issues of the Project identified during the construction period, the corrective actions recommended to be taken and the analysis of compliance are presented in Table below.

Table 4. Analysis of the Compliance of Corrective Actions and Recommendations

SI	Key Issues	Corrective Actions Recommended to be taken	Responsibility	Analysis of Compliance
1.	At fewer sites, negligence in use of PPEs including barricade, caution signs and signals was observed during construction.	Contractor were instructed regularly and enforced to place proper and sufficient, barricade, caution tape, sign boards at construction sites.	Contractor, DSC	

Annex 1: Photograph

Annex 1: Photographs



Information board and caution tape.



Asphalt laying work

Annex 2:

1. Environmental Monitoring Checklist Format

1. Environmental Monitoring Format Regional Urban Development Project (RUDP)/Biratnagar

Name of Sub Project: RUDP/ Biratnagar
Contract Package: RUDP/ICB/BRT/02

Sub-project Component: Road Lanes Improvement/ Sewerage Drainage

Month:

Checklist

S.No	Activity	Description/Present Status (Compliance/Partially Compliance/Non Compliance	Remarks/ Corrective actions for Non- Compliance
1	Training		
1.1	Health, Safety, and EMP trainings and awareness/ orientation about COVID-19	Awareness training organized	
1.2	Others awareness and skill trainings	No	Enforce contractor to aware labours on environment, occupational health and safety issues and on use of PPEs regularly.
2	Occupational health and safety		
2.1	Insurance for workers	Yes	
2.2	Personal Protective Equipment (PPE) provided tolabours and are using(helmet,facemasks,muffles,gloves,boots,jacke t,gogglesetc.)	Yes (distributed to labour but partially used)	Enforce contractor to fully use of PPE

2.3	Public notification Safety and warning signs and informative signboards in working sites for work safety	complied	
2.4	Use of barricades, caution tape and flag		
		Complied	
3	Camp site management		
3.1 3.2	Location First aid facilities available at camp and worksites	Yes/Partly complied	Enforce to place first aid kit with necessary medicines in working sites
3.3	Drinking water supply and sanitation facilities/ pit latrines	Yes	
3.4	Waste Disposal and Management facilities Type of fuel used for cooking	No (No waste management provision)	Provide separate Bins to collect biodegradable and non bio-degradable waste.
		LPG	
4	Spoil and Construction material Management		
4.1	Cut and fill balance maintained or not, Reuse of spoil materials	Reused in Backfilling, excess surplus managed in Madhmara yard	
4.2	Use of safe spoil disposal locations	Compliance	
4.3	Frequent Pedestrian and traffic movement,	Compliance	

5	Air,Noise and Water Pollution	Complied	
5.1	Dust emission and Noise pollution sites		
5.2	Water quality monitoring result and locations	Drinking water quality test performed by contractor	Test the water quality of any new well prior to use
5.3	Blockage of natural drainages, waterlogging, drain water discharge into farm land/risky areas	No	
6	Quarrying of construction materials and Plants Installment	No	
6.1	Quarry/borrow operation sites	NO	
6.2	Asphalt plant operation restoration	Yes	Asphalt plant was in Operation in Rani far from population centre.
7	Impact/Disruption of Private properties		
7.1	Building structures	No	
7.2	Other utilities	No	
8	Impact/disruption of public infrastructures		
8.1	Irrigation canal	No	
8.2	Water supply pipe	Relocation of pipeline has been done by contractor	
8.3	Access road	Traffic diversion with sign boards have been placed to	
8.4		regulate traffic	
	Electric/Telephonepole	Poles within RoW	Relocation of poles have been carried

8.5	Others		out
9	Sites for cultural and religious values		
	Cultural and religious sensitive spots (if any)	N/A	
9.1			
10	Forest and vegetation		
10.1	Number of trees removal	N/A	
10.2	No of tree plantation (Roadside)	Tree plantation along completed road sections has been done	
11	Accident cases and records	No cases of accident	
12	Employment to local people		Record of labour maintained
12.1	Men and women		
12.2	Child labour (if any)	No	
14	Grievances from local people and addressed	Compliance	GRM recorded and addressed

				DS	C			Date: 23)	07/20
	Project Name:	Constructi	on and Completio	on of sewer	age, draina RUDP	ge, Road, Foot _l /ICB/BRT/02	oath and Road furnit	ure works Co	ontract No
			T. T.			Yes/N	0		
S.No.	Staff Name	Position	Temperature	Cold	Cough	Difficulty in Breathing	Have you done hand sanitization before entering site/office	Has the person wearing mask	Remarks
1	Giresh Chand	TL	_	_	-	-		-	208 N
2	H.K. Mandal	E./Qty S.	-	-	-	-		-	
3	Amit Kumar Gupta	CSE	94.2	NO	NO	No	48	yee	100
4	Santosh Kumar Yadav	ОМ	95.3	NO	NO	NO	400	Yes	
5	Rajesh Kumar Yadav	Jr.	94.4	NB	yo	NO	yes	YES	
6	Deepak Majhee	Jr.	-	-	'-	-	-	-	
7	Jaya Prakash Yadav	Jr.	-	-	-	-	-	-	
8	Youba Raj Poudel	Driver	95.3	NO	P O	NO	48	400	
9	Pulkit Gothiya Yadav	Driver	_	-	-	-	1	0_	1 197
10	Rudra Kharel	0/A	96.2	NO	40	NO	YES	YES	
11	Shiv Shankar Mandal	Guard	94.5	VO	NO	NO	res	HPO	

				DS	C			Date: 24	107/202
	Project Name:	Constructi	on and Completi	on of sewer	age, draina RUDP	ge, Road, Foot /ICB/BRT/02	oath and Road furnit	ture works C	ontract No
						Yes/N	o		
S.No.	Staff Name	Position	Temperature	Cold	Cough	Difficulty in Breathing	Have you done hand sanitization before entering site/office	Has the person wearing mask	Remarks
1	Giresh Chand	TL	-	-	-	-			
2	H.K. Mandal	E./Qty S.	-	-	-	-			
3	Amit Kumar Gupta	CSE	95.3	NO	NO	NO	yes	yes	
4	Santosh Kumar Yadav	ОМ	96.2	NO	NO	NO	Yes	400	n.ie
5	Rajesh Kumar Yadav	Jr.	94.1	40	Ne	NO	yes	yes	1
6	Deepak Majhee	Jr.	_	'-	-	-	-	-	17
7	Jaya Prakash Yadav	Jr.	-	_	-	-	-	-	
8	Youba Raj Poudel	Driver	95.2	No	ha	No	yos	yes	
9	Pulkit Gothiya Yadav	Driver	_	-	-	-	-	-	
10	Rudra Kharel	0/A	962	NO	NO	p 0	yes	yes	17/1
11	Shiv Shankar Mandal	Guard	95.2	NO	NO	NB	HOL	400	

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Hatkhola to singly buse final NOVI LOCAL 3 5 10 15 0 2 5 2 4 4 1				TOTAL									
Hetkhola to singlya				IOIAL	2	10	15	0	2	2	2	9	0
Hatkhola to singly base final Figure 1 or singly bridge Figure 1 or singly bridge Contection Figure 1 or singly bridge Contection Figure 1 or singly bridge Contection Figure 1 or singly bridge Figure 1 or singly bridge Contection Figure 1 or singly bridge Figure 1 or singly bridge Contection Figure 2 or singly bridge Figure 1 or singly bridge Figure 2 or singly bridge Figure 3 or singly bridge 5 or singly bridge Figure 3 or singly bridge 5 or singly bridge 5 or singly bridge Figure 3 or singly bridge 5 or sin				LOCAL		-							
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Hetchole to singly a Sub base final House connection COCAL 2 2 4 4 4 4 4 4 4 4				TOTAL									
Hatkhola to singlya Sub base final NIOCAL 2 2 4 4 4 4 4 4 4 4				LOIAL	3	80	11	0	0	2	2	4	0
Hatthole to singly a Sub base final NONLOCAL 2 2 4 4 4 4 4 4 4 4			-										
Fridge Sub base final NOM LOCAL 3 6 8 0 0 0 6 2		Hatkhola to singlya		LOCAL	2	2	4				2		
Hatkhole to singly bridge Cutter NOM LOCAL 3 3 6 6 6 2 2 Hatkhole to singly bridge Cutter NOM LOCAL 3 3 4 4 4 6 6 2 2 House connection LOCAL 3 3 3 3 3 1 House connection LOCAL 2 2 4 3 7 1 0 0 0 0 6 2 2 Hatkhole to singly bridge Kerb stone paint NOM LOCAL 4 3 7 0 0 0 0 6 5 1 Hatkhola Electric work NOM LOCAL 5 6 11 0 0 0 0 6 5 Hatkhola LOCAL 3 7 0 0 0 0 0 0 0 0 0		bridge	Sub base final	NON LOCAL		4	4				4	4	
Hatkhola to singlya Gutter NOM LOCAL 3 3 6 6 2 2		29000		INDIAN							,		
Hatkhola to singlya Gutter Horizold 3 3 6 6 7 2 6 7 7 7 7 7 7 7 7 7	1			TOTAL	2	9	89	0	0	c			
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Pringge		atknoia to singiya	Gutter	NON LOCAL		4	4	-			4	2	
R29 House connection TOTAL 3 7 10 0 0 0 2 2		bridge		INDIAN			-	-			4		
R29 House connection LOCAL 2 2 4 1 1 1 1 1 1 1 1 1	1			TOTAL	3	7	10						
House connection Col. 2	1							,		0	10	2	0
R29 House connection NON LOCAL 3 3 3 3 1 B3(2)keshaliya kerb stone paint TOTAL 2 5 7 0 0 0 6 1 B3(2)keshaliya kerb stone paint TOTAL 4 8 12 0 0 0 6 1 Fipal chowk to hattkhola Electric work NON LOCAL 5 6 11 0 0 0 6 5 Fipal chowk to hattkhola TOTAL 5 6 11 0 0 0 6 5 Fipal chowk to hattkhola TOTAL 5 6 11 0 0 0 6 5 Fipal chowk to hattkhola TOTAL 5 6 11 0 0 0 6 5 Fipal chowk to hattkhola TOTAL 5 6 11 0 0 0 6 5 Fipal chowk to hattkhola TOTAL 5 6 11 0 0 0 6 5 Fipal chowk to hattkhola TOTAL 5 6 11 0 0 0 0 6 5 Fipal chowk to hattkhola TOTAL				LOCAL	2	2	4						
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B3(2)keshaliya kerb stone paint NON LOCAL 4 3 7 5 5 2 2	_			LOCAL									
TOTAL 4 8 12 0 0 0 9 3			erb stone paint	NON LOCAL	4	3	7			-	-	-	
Pipal chowk to hattkhola Electric work INDIAN TOTAL 5 6 11 0 0 0 0 6 5 5 1 1				INDIAN		2	u				2	2	
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			LOCAL	2	2	4						
6	Pipal chowk to	Road crossing	NON LOCAL		00	00		-		7	7 7	
	Hattkiiola		INDIAN								,	
-			TOTAL	2	10	12	0	0	0	9	9	0
			LOCAL	3	3	9						
10	Prakash sir road	Drain	NON LOCAL		5	2				7	m	
			INDIAN							2	7	
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			INDIAN	-								
			DIAL	4	8	7	0	2	0	0	5	0
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_		9	INDIAN						0	2	3	
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			LOCAL	8		9						
13	R25	Weep hole	NON LOCAL		7	7		7	7	2	2	
			INDIAN									
			TOTAL	3	10	13	0	2	7	2	2	0
			LOCAL	2	2	4		,				
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Environmental Monitoring Format Regional Urban Development Project (RUDP)/Biratnagar

Name of Sub Project: RUDP/ Biratnagar Contract Package: RUDP/ICB/BRT/02

Sub-project Component: - Road Lanes Improvement / Sewerage Drainage

Month: March ,April ,May & June 2021

	Chec	klist	
SN	Activity	Description/Present Status (Compliance/Partially Compliance/Non Compliance	Remarks/ Corrective actions for Non-Compliance
1	Training		
1.1	Health, Safety and EMP trainings and awareness	Yes	
1.2	Others awareness and skill trainings	Na	
2	Campsite management	No	
2.1	Location	Pichra, Madhumara	
2.2	First aid facilities available at camp and worksites	Yes	
2.3	Drinking water supply and sanitation		
	facilities/ pit latrines	Tap water/ Hand Pump	
2.4	Waste Disposal and	Yes	
2.5	Management facilities	L.P.G	
	Type of fuel used for cooking		
3	Spoil and Construction material Management		
3.1	Cut and fill balance maintained or not, Reuse of spoil materials	Cut & Fill balance maintained	
3.2	Use of safe spoil disposal locations	Not Applicable	
3.3	Disturbance to Pedestrian and traffic movement	No any disturbance to pedestrians & traffic	
3.4	Use of private land and agreement with	movement	
	land owners	Yes	
4	Air, Noise and Water Pollution	Water sprinkled by	
4.1	Dust emission and Noise pollution sites	tanker on such sites.	
4.2	Water quality monitoring result and locations	ok	
4.3	Block age of natural drainages ,water logging, drain water discharge into farmland/risky areas	Not Applicable	
5	Quarrying of construction materials		Authority
5.1	and Plants Installment Quary borrow operation sites	Not Applicable	RUDP

5.2	Crusher plant and Asphalt plant operation restoration	Asphalt Plant	
6	Impact/Disruption of Private properties		
6.1	Building structures	Not Applicable	
6.2	Other utilities	Not Applicable	
7	Sites for cultural and religious values		
7.1	Cultural and religious sensitive spots (if any)	Not Applicable	
8	Forest and vegetation		
8.1	Number of trees removal	00	
8.2	No of tree plantation (Roadside)	Not Applicable	
9 10	Accident cases and records	No any records	
10.1	Employment to local people Men and women	Yes, both men and women	
10.2	Child labor (if any)	No	
11	Establishment of Safeguard desk and meeting	Yes	
12	Grievances from local people and addressed	Yes	
13	SOP Approved		
13.1	Taking Temperature with infrared thermometer NC150	Yes	
13.2	Hand Sanitization with Automatic Dispenser	Yes	and the same
	TO AND THE STORY WATER AND	* diffamagar *	THE ROLL OF THE PARTY OF THE PA

Monthly Progress Report

March, April , May & June

Occupational health and safety

Regional Urban Development Project (RUDP)/Biratnagar

Name of Sub Project: RUDP/ Biratnagar Contract Package: RUDP/ICB/BRT/02

Sub-project Component: - Road Lanes Improvement / Sewerage Drainage

Month: March , April ,May & June 2021

		ist

SN	Activity	Description/Present Status (Compliance/Partially Compliance/Non Compliance	Remarks/ Corrective actions for Non-Compliance
1	Occupational health and safety		
1.1	Insurance for workers	Yes	
1.2	Personal Protective Equipment (PPE) provided to labors and is using (helmet, facemasks, muffles, gloves, boots, jacket, goggles etc.)	Daily Provided	
1.3	Public notification Safety and warning signs and informative signboards in working sites for work safety	Yes Provided	
1.4	Use of barricades, caution tape and flag	Daily Used	





B. Details of Equipment at Site / Contractor's yard

S.N	Equipment Type and Characteristics	ZHONGHENG CONSTRUCTION GROUP
1	Excavator	0
2	Backhoe Loader	2
3	Asphalt plant of adequate capacity	1
4	Asphalt pavers	1
5	Vibrating roller	2
6	Pneumatic tyre roller 8 to 10 ton	1
7	Smooth wheeled roller 8 to 10 ton	1
8	Tipper	3 .
9	Crane	1
10	Water Tank	1
11	Grader	2
12	Bitumen distributor (4 to 6 Kilo litre)-	1
13	Water browser (minimum 5000 Litres)	4
14	Chips spreader	0
15	Bitumen decanter minimum 4000 Litres.	1
16	Air compressor	2
17	Tipping Trucks	1
8	Service vehicle	2
19	Total station	1
0.0	Auto Level	5
1	Mobile Generator 15-20 Kva	5 .
2	Mixer Machine	
3	Broomer	5 2
4	Plate Compactor	4
5	Water Pump	
6	Motorbike	2
7	Tractor	8





A. Staffs Name List

SN.	Name	Position	Contact No	Remarks
1	Ravindra kumar Thakur	CM	9801159860	1
2	Jibachha Sah	Engineer	9805932183	
3	Aanand Rayamajhi	Engineer	9801157317	
4	Rahul Kr Sharma	Sub-Engineer	9801159862	
5	Ajit kr Mukhiya	SLT		
6	Bishnu Hari Khanal	Chief Accountant	9801157314	
7	Jarman Nepal	Assistant Accountant		
8	Madan Bhattarai	Store Keeper	9801159634	



