



Semi-Annual Environmental Safeguards Monitoring Report

Jan-June, 2019

ADB LOAN-3566 NEP (COL):

Regional Urban Development Project (RUDP)

Project (47252-002)

Environment & Resource Management Consultant,

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LIST OF ABBREVIATION

ADB Asian Development Bank

BRT Biratnagar BRJ Birgunj

CAO Chief Administrative Officer

COL Concessional Loan

CRIPP Combined Resettlement and Indigenous People

CSC Construction Supervision Consultant

CRIPP Combined Resettlement and Indigenous People Planning

DDR Due Diligence Report
DPD Deputy Project Director

DSC Design and Supervision Consultant

DTL Deputy Team Leader

DSMC Dhangadhi Sub Metropolitan City

DUDBC Department of Urban Development and Building Construction

EA Executing Agency

EIA Environmental Impact Assessment EMP Environment Monitoring Plan

ERMC Engineering Resource Management Consultant

FY Fiscal Year

G Grant

GESI Gender Equality and Social Inclusion
GIS Geographic Information System

GoN Government of Nepal

GRC Grievance Redress Committee
GRM Grievance Redress Mechanism

ha, hec Hectare hh House hold

IA Implementing Agency

ICB International Competitive Bidding
ICS Individual Consulting Services
IEE Initial Environmental Examination

IPC Interim Payment Certificate

ISWM Integrated Solid Waste Management
IUDP Integrated Urban Development Project
IWWTP Integrated Waste Water Treatment Plant

JV Joint Venture km Kilometer L Loan

MC Metropolitan City
MoF Ministry of Finance

MoFALD Ministry of Federal Affairs and Local Development

MoLR&M Ministry of Land Reform and Management

MoSTE Ministry of Science, Technology and Environment

MoUD Ministry of Urban Development

MoWSS Ministry of Water Supply and sanitation

MoPIT Ministry of Physical Infrastructure and Transport MPMC Municipal Project Management Committee

MPR Monthly Progress Report

MWCSW Ministry of Women, Children and Social Welfare

NCB National Competitive Bidding

NPJ Nepalgunj

NGOs Non-Governmental Organizations

NEP Nepal

NRM Nepal Resident Mission

NSMC Nepalgunj Sub-Metropolitan City
O&M Operation and Maintenance
OHS Occupational Health and Safety

P Province

PBSEDP Performance Based Socio Economic Development Program

PD Project Director

PCO Project Coordination Office

PISU Project Implementation Support Unit

PIU Project Implementation Unit

PM Project Manager

PMC Project Management Consultant

PPMS Project Performance Management System
PPTA Project Preparation Technical Assistance

PSC Project Steering Committee
QAP Quality Assurance Plan

QCBS Quality and Cost Based System
QPR Quarterly Progress Report
REA Rapid Environmental Checklist

RF Resettlement Framework

RP Resettlement Plan

RPIU Regional Project Implementation Unit RUDP Regional Urban Development Project

SAP Sanitation Action Plan

SARP Social Assessment and Resettlement Plan

SDR Special Drawing Rights

SF Special Fund

SMC Sub-Metropolitan City
SN Siddharthanagar

SOE Statement of Expenditure
SPS Safeguard Policy Statement
SSE Social Safeguard Expert

STIUEIP Secondary Towns Integrated Urban Environmental Improvement Project

SWMTSC Solid Waste Management and Technical Support Centre

TL Team Leader

ToT Training of Trainers
VAT Value Added Tax

WWTP Waste Water Treatment Plant 3R Reduce, Reuse and Recycle

1 INTRODUCTION

Regional Urban Development Project (RUDP), the Department of Urban Development and Building Construction (DUDBC), under the Ministry of Urban Development (MoUD) through the government of Nepal has proposed to receive loan (ADB, Loan 3566-NEP) from Asian Development Bank (ADB).

The support comprises of (a) additional investment (AI) for the completion of ongoing infrastructure development sub-project in four municipalities: Biratnagar, Birgunj, Nepalgunj and Siddharthanagar, under implementation of Integrated Urban Development Project (IUDP: ADB L2851/G0284-NEP) and Secondary Towns Integrated Urban Environment Improvement Project (STIEIP: L2560-NEP(SF)); and (b) investment for the development of integrated urban infrastructure sub-projects in the fast-growing border municipalities of Terai Region, Province 7: Bheemdatt, Dhangadhi, Godawari and Suklaphanta.

1.1 OVERALL PROJECT DESCRIPTION AND OBJECTIVES

The project is designed to set foundations for regional economic development by stimulating the economic potentials of the Project areas, and thus, help those municipalities come out as an economic corridor and urban cluster conglomeration. Additionally, the Project is expected to improve resilience and delivery of urban services in all Project municipalities and also achieve sustainable, inclusive, balanced and prosperous sub-national urban system in Nepal. The Project includes (a) road, drainage, sewerage, footpath and road furniture in Biratnagar, (b) road, drainage, footpath, road furniture, bypass road and bus bays in Birgunj, (c) roads, drainage, footpath, and road furniture in Siddharthanagar and Nepalgunj, (c) roads, drainage, footpath, waste water management (WWM), and integrated solid waste management (ISWM) in Bheemdatt, Dhangadhi, Godawari and Suklaphanta, and (e) Municipal Building in Godawari and Suklaphanta. Similarly, mobilization of consulting firm such as PMC, DSC, CSC, IDC and other individual experts to support PCO/municipalities, implementation of performance-based small socioeconomic development project (PBSEDP) through mobilization of project affected marginalized local people, developing of project bank, Institutional and GESI capacity strengthening etc, are other parts of the project.

Table 1; Major Components of Project (P7 Municipalities)

	Components of Project (P7 Munici					
Municipality	Sector	Major Activities				
Godawari	Wastewater Management	Improvement of the existing on-site wastewater management, New small bore sewerage, and decentralized WWTP sites, Serving wards 3, 4 & 13. Households approximately 2,000.				
	Solid Waste Management	Strategic waste prevention plus reduce, reuse and recycle, Integrated solid waste management (ISWM) system with landfill site, Serving wards 2, 3, 4, 5, 6, 7, 11, 12, & 13. Households approximately 6,600.				
	Roads and Drainage	In wards 2, 5, 6, 7, 10 & 12. Approx length 20.0 km				
	Buildings	Municipality Building				
Bheemdatt	Wastewater Management	Improvement of the existing on-site wastewater management, New small bore sewerage, and decentralized WWTP sites, Serving wards 4, 6 & 18. Households approximately 2,000.				
	Solid Waste Management	Strategic waste prevention plus reduce, reuse and recycle, Integrated solid waste management (ISWM) system with landfill site, Serving wards 1 to 11 and 15 to 18. Households approximately 10,700.				
	Roads and Drainage	In wards 1, 3, 4, 8, 9, 10, 11, 12, 15, 16, 17 & 18. Approximate Length 36.5 km.				
Dhangadhi	Wastewater Management	Improvement of the existing on-site wastewater management, New small bore sewerage, and decentralized WWTP sites. Serving wards 1, 2, 3, 4, 5 & 8. Households approximately 3,000.				
	Solid Waste Management	Strategic waste prevention plus reduce, reuse and recycle. Integrated solid waste management (ISWM) system with landfill site. Serving wards1, 2, 3, 4, 5, 8 & 13. Households approximately 10,000.				
	Roads and Drainage	In wards 1, 2, 3, 4, 5, 6, 8, 10, 12 & 13. Approximate length 34.0 km.				
Suklaphanta	Wastewater Management	Improvement of the existing on-site wastewater management. New small-bore sewerage and decentralized WWTP sites. Serving wards 10 &11. Households approximately 400.				
	Solid Waste Management	Strategic waste prevention plus reduce, reuse and recycle, integrated solid waste management (ISWM) system with landfill site, serving wards 3, 4, 5, 6, 7, 9, 10 & 11, and HHs approx. 3,400. Households approximately 10,000.				
	Roads and Drainage	In wards 4, 9, 10 & 11. Approximate length 8.0 km.				
	Building	Municipality Building				
Biratnagar	Sewerage, Road, Drainage, Footpath,	Sewerage pipelines of about 20.08 km, Road improvements of about 73.86 km, Footpath and roadside				
	Streetlight and Road Furniture	drain approximately 26.05, Strom water Drainage 652.89km, and Solar Streetlights at 1.0 km road length.				
	Integrated Solid Waste Management	Detail Design and cost estimate, and development of ISWM				
Birgunj	Road, Drainage, Footpath, Road	In wards2, 4, 6, 9, 10, 11, 16, 17, 18 and 19. Approximate length 21.35km road, 21.35km storm water				
	Furniture, Bypass road and Bus-Bays	drainage, footpath 30.12km, and street lighting about 11.14km.				
Siddharthanagar	Road, Drainage, Footpath and Road	In wards 1, 3, 4, 5, 6, 7, 8, 9, 12 and 13. Approximate length 34.87 km road, footpath, and roadside				
	Furniture	stormwater drainage approximately 52 km				
Nepalgunj	Road, Drainage, Footpath and Road	In wards 1, 2, 3, 4, 5, 7, 8, 10, 11, 12, 13, 14, 15, 16, 17, 18, and 27. Approximate length 36.65 km,				
	Furniture	footpath, and roadside drain approximately 58.76 km.				

The proposed sub-projects to be implemented for Group A (non P7) municipalities are shown in following **Table 2**:

Table 2: Sub Project components of Group A (non P7) municipalities

Municipal ity	Road Improve ment	Sewerage Pipeline	Footpath/ roadside drains	Detail design of ISWM	Strom water drainage	Connections to sewerage lines	Water supply pipes	Solar streetlight	Budget, US\$, mill
Biratnaga r	73. 086 km	20.82 km	26.05/26.05 km	18.96 ha for 3,748 hh	0.653 km	3,748 hh	-	1 km road length	25.1
Birgunj	21.35 km	1	30.12/21.35 km	-	21.35 km	-	-	30.12 km road length	20.9
Siddharth anagar	34.87 km	-	25.45/34.87 km	-	50.76 km	-	49.82 km	16 km (801) No	20.7
Nepalgunj	36.65 km	-	58.76/52.30 km	-	-		36.56 km	-	15.7
Total	165.956 km	20.08 km	140.38/134.57k m	coverage 3,748hh @ 18.96 ha	72.763 km	3,748 hh	86.38 km	37.12 km road length	82.4

1.2 ENVIRONMENTAL CATEGORY

1.2.1 As per ADB safeguard policy statement, 2009

As per ADB Safeguard Policy Statement (SPS) 2009, the project is classified as Environment Category B and IEE is required as per the REA checklist Suggested by ADB.

1.2.2 Environmental category of each subproject as per national laws and regulations

The statutory requirement of the Government of Nepal, that has to be adhered to for the proposed project, is the Environment Protection Act, 1996 and Environment Protection Regulation, 1997 (and amendments 2007). As per Environment Protection Act and Rules 1997 of Nepal, Environmental Impact Assessment (EIA) is required for solid waste management and Initial Environmental Examination (IEE) is required for storm water drainage and road subprojects.

Table 3: National Statutory Environmental Requirements

SN	Type of Project	Description	Category		
1	Dhangadhi				
	Roads and drainage	Urban roads upgrading	IEE needed as it is upgrading of municipal roads		
	ISWM	New landfill site with waste recovery facilities	EIA needed as annual final disposal is above 5000 tons/year		
	Land pooling		IEE needed as it is within 100 ha		
2	Godavari				
	Roads and drainage	Urban roads upgrading	IEE needed as it is upgrading of municipal roads		
	ISWM	New landfill site with waste recovery facilities	IEE is sufficient as final waste disposal is within 5000 tons/year		
	Municipality Building		DDR is required as built-up area is <pre><5000m²</pre>		
	Land pooling		IEE needed as it is within 100 ha		
3	Bheemdatt				
	Roads and drainage	Urban roads upgrading	IEE needed as it is upgrading of municipal roads		
	ISWM	New landfill site with waste recovery facilities	EIA needed as annual final disposal is above 5000 tons/year		
	Land pooling		IEE needed as it is within 100 ha		
4	Suklaphanta				
	ISWM	New landfill site with waste recovery facilities	IEE is sufficient as final waste disposal is 2700 tons/year		
	Roads and drainage Urban roads upgrading		IEE needed as it is upgrading of municipal roads		
	Municipality Building		DDR is required as built-up area is <pre><5000m²</pre>		
	Land pooling		IEE needed as it is within 100 ha		

Table 4: Project Safeguards Team

*	ct Safeguards T		T ~	
Name	Designation/Offic e	Email Address	Contact Number	Roles
1.PCO				
Er. Arc. Navin Devkota	Environmental Safeguards Expert, DPD, DUDBC	dpd1dudbc@gm ail.com	9851131368	Overall monitoring the issues and activities for environmental safeguard of the project and provide the guidance.
2. PMC				
Er. Rabi Shah	Team Leader/ PMC	rabibshah@gma il.com	9851056824	Overall management and monitoring of the project activities
Er. Bishwa Bhakta Kharel	Environmental Safeguard Expert/ PMC	kharelbishwa20 14@gmail.com	9843221260	Monitoring the Issues of environmental safeguard of the project, Prepare Environmental Monitoring Report (EMR); check and monitor the safeguard activities of the project overall.
Mr. Chet Nath Dahal	Social Safeguard Expert/PMC	dahalen6@gmai l.com	9851158953	Monitoring the Issues of social safeguard, GESI and resettlement of the project, check and monitoring the safeguard activities of contractor and consultant of overall projects.
3. PIUs				
I. Biratr	nagar			
a. PIU				
Mr. Bharat Kumar Neupane	PM, Biratnagar Metropolitan city	bharatneupane brt@gmail.com	9852026869	Overall management and monitoring of the project activities
Mr. Punam Kumar Dahal	SSO, Biratnagar Metropolitan city	punamkdahal @yahoo. com	9852022729	Monitoring the Issues of social safeguard, GESI and resettlement of the project, check and monitoring the safeguard activities of contractor and consultant
b. Consultants				
Mr. DwarikaPhuyal	ESE/DSC	phuyaldwarika @gmail.com	9851086137	Monitoring the Issues of environmental safeguard of the project, Prepare Environmental Monitoring Report (EMR) check and monitor the safeguard activities of the contractor.
Mr. Prakash Bhakta Shrestha	SSE/DSC	pbs026@gmail .com	9841329719	Monitoring the Issues of social safeguard, GESI and resettlement of the project, Prepare Social Monitoring Report and resettlement plan and check and monitor the safeguard activities of the contractor
II. Birgu	nj		1	
a. PIU				
Mr. Shailendra Shrestha	PM, Birgunj Sub Metropolitan city		9855023980	Overall management and monitoring of the project activities
-	SSO	-	-	-
b. Consultants				
Er.Suryaman Shakya	ESE	-	-	Monitoring the Issues of environmental safeguard of the project,

Name	Designation/Offic	Email Address	Contact Number	Roles
				Prepare Environmental Monitoring Report (EMR) check and monitor the safeguard activities of the contractor.
Dipendra Pokhrel	SEE	-	-	Monitoring the Issues of social safeguard, GESI and resettlement of the project, Prepare Social Monitoring Report and resettlement plan and check and monitor the safeguard activities of the contractor
	artha Nagar			
a. PIU		_		
Shailendra Prashad Shrestha	PM, Siddhartha Nagar Municipality	shresthasp@g mail.com	9857020128	Overall management and monitoring of the project activities
b. Consultants				
R. K. Shah	ESE	shahrk155@g mail.com	9849247774	Monitoring the Issues of environmental safeguard of the project, Prepare Environmental Monitoring Report (EMR) check and monitor the safeguard activities of the contractor.
Manjali Maskey	SSE	manjalim110@ gmail.com	9841559536	Monitoring the Issues of social safeguard, GESI and resettlement of the project, Prepare Social Monitoring Report and resettlement plan and check and monitor the safeguard activities of the contractor
IV. Nepal	gunj			
a.PIU	514 11			
Er. Subhash Basnet	PM, Nepalgunj SMC			Overall management and monitoring of the project activities
Er Shailendra Kumar Maharjan	DPM & Construction Engineer	skmaharjan33 2@gmail.com	9858022188	Support to PM and compliance the construction and supervision of the project.
Er Prakash D C	ESE			Monitoring the Issues of environmental safeguard of the project, Prepare Environmental Monitoring Report (EMR) check and monitor the safeguard activities of the contractor
b.Consultants				
Nabin Jha	SSE	-	9852821982	Monitoring the Issues of social safeguard, GESI and resettlement of the project, Prepare Social Monitoring Report and resettlement plan and check and monitor the safeguard activities of the contractor
Shankar Pd Adhikari	ESE	-	-	Monitoring the Issues of environmental safeguard of the project, Prepare Environmental Monitoring Report (EMR) check and monitor the safeguard activities of the contractor

Name	Designation/Offic	Email Address Contact		Roles		
	e		Number			
V. Dhan	gadhi					
a. PISU						
Deej Bhatta	PISU Chief, Dhangadhi Sub Metropolitan city	bhattadeej@ yahoo.com	9848425198	Overall management and monitoring of the project activities		
Siva Ram Joshi	SDO	sivaraj145@ yahoo.com	9858423920	Monitoring the Issues of social safeguard, GESI and resettlement of the project, Prepare Social Monitoring Report and resettlement plan and check and monitor the safeguard activities of the contractor		
Consultants						
Er. Indra Poudel	TL, Dhangadhi DSC	indrapaudel@ gmail.com	9849258111 7	Overall management and monitoring of the project activities		
Vinod Sharma	ESE, Dhangadhi		9808900193 5	Monitoring the Issues of environmental safeguard of the project, Prepare Environmental Monitoring Report (EMR) check and monitor the safeguard activities of the contractor.		
Deependra Pokhrel	SS/GESI, Dhangadhi	dpok19@ yahoo.com	9841478619	Monitoring the Issues of social safeguard, GESI and resettlement of the project, Prepare Social Monitoring Report and resettlement plan and check and monitor the safeguard activities of the contractor		
VI. Goda	wari					
b. PISU						
Rudra Bogati	PISU Chief, Godawari Municipality	bogati.rudra@ gmail.com	9858427017	Overall management and monitoring of the project activities		
VII. Bheei	mdatta					
Himalaya Singh Air	DM PISU, Bheemdatta Municipality	erhimair@gma il.com	9858750230	Overall management and monitoring of the project activities as per the direction of PM of the project		
16@gmail.com GESI Prepa Socia plan a		Monitoring the Issues of social safeguard, GESI and resettlement of the project, Prepare Social Monitoring Report and resettlement plan and check and monitor the safeguard activities of the contractor				
VIII. Sukla	phanta					
Lokendra Raj Bhatta	PISU Chief, Suklaphanta Municipality	lokendrabhatta @gmail.com	9858750118	Overall management and monitoring of the project activities		

Note: DSC, Dhangadhi will work as the DSC for all P-7 projects

1.2.3 Overall project and sub-project progress and status

The overall physical progress of RUDP is 33.06 % till June 2019. The overall financial progress till June 2019 is 26.80 %. The information is received from the respective project implementation units for Group A (none P7) municipalities and Regional Project Implementation Unit for Group B (P7) municipalities.

1.2.3.1 RUDP Sub Project (Far Western Province (P7) municipality))

The RPIU and Group B (P7) municipalities have achieved some significant physical work progress since project inception. However, the progress achieved in urban planning, surveying and design work of sub projects of each municipality are described in following sub headings.

1.2.3.1.1 Bheemdatt

The main output of RUDP is to develop urban infrastructure¹ in the municipalities. Under this output, about 36.5 km Road and Drainage, Integrated Solid Waste Management Facility to serve about 10,700 hh and decentralized Waste Water Treatment Plants to serve around 2,000 hh has to be developed at Bheemdatt municipality. Other output consists of Capacity Development of municipality, under which development of socio-economic infrastructure based on PBSEDP; GESI activities; preparation of urban master plan and its controlling measures; and introduction of GIS house numbering in utility and IPT system.

DSC engaged to assist RPIU has been conducting urban planning, surveying and designing work of sub projects.

- a) Urban Development: Consultant has prepared GIS based base maps and presented to DUDBC. It has developed existing and risk sensitive land use map of Bheemdatt. The consultant has also projected ward wise municipal population required for urban planning. DSC has briefed about land pooling technique and process, and discussed its pro and cons with municipal ward officials. DSC has submitted concept note of LP schemes, comments of which have been forwarded to DSC.
- b) Integrated Solid Waste Management (ISWM): DSC has assessed present municipal capacity on SWM. Similarly, it has studied composition of solid waste and determined per capita (hh) waste generation of municipality. All three alternative sites were visited by ADB review mission joint team last year. Municipalities will chose the best one and for detailed survey, investigation and design works. DSC will collect required data to prepare communication and consultation plan of ISWM site.
- c) Road and Drainage: The consultant has completed detailed surveying of 33.90 km road of 12 road sections. While municipality has added 9 km more road for survey and design woks. For design of drainage work consultant has developed Rainfall Intensity Curve using rainfall data for 30 years (1987 to 2016). Similarly, it has assessed existing drainage system, delineated and analyzed entire catchment area of municipality.
- **d)** Integrated Waste Water Treatment Plant: The sites have not been identified for IWWTP. Consultant has submitted for source quantification and characterization for approval.
- e) Social Safeguard and GESI: Bheemdatt municipality has formed GRM, GRC, and record keeping system at municipal level. The consultant has prepared GESI action plan and comments are forwarded.

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¹ Identified by ADB, PPTA

f) Environmental Assessment: ToR for IEE of road and drainage has been send for approval to MoUD 22/05/2019. ToR for IEE of ISWM and Integrated Waste Water Treatment Plant (IWWTP) has not been submitted yet by the consultant.

1.2.3.1.2 **Dhangadhi**

One among the many outputs of RUDP is to develop about 34.00 km Road and Drainage, Integrated Solid Waste Management Facility to serve about 10,000 hh (landfill site area 12.87 ha.) and decentralized Waste Water Treatment Plants to serve around 3,000 hh at Dhangadhi sub metropolitan city (DSMC). Other outputs and activities are similar to that of Bheemdatt municipality.

DSC engaged to assist RPIU has been conducting urban planning, surveying and designing work of sub projects.

- a) Urban Development: Consultant has prepared GIS based base maps, submitted e-copy and presented to DUDBC. It has developed existing and risk sensitive land use map of DSMC. Preparation of phase wise urban development plan and ward wise population projection were also completed. DSC has also briefed about land pooling technique and process. Pre feasibility of land pooling scheme, master plan of urban roads and storm water drainage network work completed
- b) Integrated Solid Waste Management (ISWM): DSC has completed baseline study of existing solid waste practices, determined physical composition of solid waste and per capita (hh) generation of waste. It has also completed topographical survey of proposed ISWM site located at the bank of Mohana River and Kailai Nala. DSC has submitted preliminary design report.

The site has been visited by environment safeguard and social safeguard expert of both DSC and PMC. They have collected required data to prepare communication and consultation plan of ISWM site. The compensation determination committee (CDC) has finalized compensation amount of each land parcels acquired for ISWM site. Distribution of compensation process is in the pipe line.

- c) Road and Drainage: The consultant has completed detailed surveying of 43.307 km road of 24 road sections. For design of drainage work, the consultant has developed Rainfall Intensity Curve using rainfall data for 30 years (1987 to 2016). Additionally, consultant has completed inventory work existing drainage system.
- d) Integrated Waste Water Treatment Plant: The consultant has drafted design of septic tanks, institutional and public toilets. But sites are yet to be fixed. DSC has submitted a proposal for source quantification and characterization.
- **e)** Social Safeguard and GESI: DSMC has formed GRM, GRC, and record keeping system at municipal level.
- **f) Environmental Assessment:** ToR for IEE of road and drainage has been approved on 22/05/2019. ToR for IEE of ISWM and Integrated Waste Water Treatment Plant (IWWTP) has not been submitted yet by the consultant.

1.2.3.1.3 Godawari:

In addition to development of approximately 20 km of Road and Drainage of 6 road sections, Integrated Solid Waste Management Facility (landfill site area 16.93 ha)and decentralized waste water treatment plants to serve around 6,600 hh and decentralized Waste Water Treatment Plants to serve around 2,000 hh. Godawari municipality has to construct Municipal office building under RUDP. All other outputs and activities to be developed at this municipality are same as described for other P7 municipalities.

DSC engaged to assist RPIU has also been conducting urban planning, surveying and design work of sub projects in this municipality.

- **a) Urban Development**: Consultant has prepared GIS based base maps and presented at DUDBC. It has also developed existing and risk sensitive land use maps. The consultant has projected ward wise population of Godawari for planning purposes. DSC has also organized briefing and discussion program on land pooling technique and process, its pros and cons focusing on municipal ward officials.
- b) Integrated Solid Waste Management (ISWM): DSC has completed baseline study of existing solid waste practices, determined physical composition of solid waste and per capita (hh) waste generation. It has also completed topographical survey of proposed ISWM site located at Chukidanda Community forest, ward no. 3. The total area of land is about 8.5 ha. But the site being located in ox-bow lake envisages flooding and water logging problems have been recommended to shift towards north or upstream of the river.
- c) Road and Drainage: The consultant has completed detailed surveying, design, cost estimate and prepared bid document of24.199 km road of 11 road sections and is under screening. DSC has submitted a proposal for source
- d) Integrated Waste Water Treatment Plant: Consultant has drafted design of septic tanks, institutional and public toilets. But the sites for IWWTP have to be determined.DSC has submitted a proposal for source quantification and characterization.
- **e) Municipal Building:** Consultant has completed detail topographical survey of land submitted detailed design, cost estimate and prepared bid documents for the building construction. It is at located north-east of Attariya Chowk. DDR for building has been submitted to MoUD.
- **f)** Social Safeguard and GESI: Godawari municipality has formed GRM, GRC, and record keeping system at municipal level.
- **g) Environmental Assessment:** ToR for IEE of road and drainage has been approved on 2076/2/02 from MoUD. ToR for IEE of ISWM is submitted for approval to MoUD through PCO.

1.2.3.1.4 Suklaphanta

One among many outputs of RUDP is to develop about 8.10 km Road and Drainage of 4 road sections. Integrated Solid Waste Management Facility (landfill area 9.69 ha) to serve about 3,400 hh, decentralized Waste Water Treatment Plants to serve around 400 hh, build a Municipal office building at Suklaphanta municipality. All other remaining outputs and activities to build at this municipality are similar to that of other P7 municipalities.

DSC engaged to assist RPIU has been conducting urban planning, surveying and design work of sub projects identified for Suklaphanta municipality.

- a) Urban Development: The consultant has prepared GIS based base maps and presented at DUDBC. It has developed existing and risk sensitive land use map of Suklaphanta municipality. The consultant has also projected ward wise municipal population required for urban planning. DSC has submitted Urban Development Plan, Drainage and Road Network master plan, a concept note of Land Pooling schemes. Comments on urban development plan and concept note are forwarded to DSC.
- b) Integrated Solid Waste Management (ISWM): DSC has assessed present municipal capacity on SWM. Similarly, it has studied composition of solid waste and determined per capita (HH) waste generation of municipality. MoUD is reviewing ToR for IEE ISWM finalized by PCO.

- c) Road and Drainage: The consultant has completed detailed surveying of 8.514 km road of 4 road sections. For design of drainage work consultant has developed Rainfall Intensity Curve using rainfall data for 30 years (1987 to 2016). Similarly, it has assessed existing drainage system, delineated and analyzed entire catchment area of municipality.
- d) Integrated Waste Water Treatment Plant: Completed draft designs of septic tanks, institutional and public toilets. But the sites required for IWWTP are not identified yet.
- **e) Municipal Building:** Consultant has completed detail design, cost estimate and bid documents for the construction and under the screen process.
- f) Social Safeguard and GESI: Suklaphanta municipality has formed GRM, GRC, and record keeping system at municipal level. It also organized discussions with locals on ADB and GoN safeguard policies. DSC has submitted draft GESI action plan.
- **g) Environmental Assessments**: Consultant has prepared IEE ToR for ISWM and submitted to MoUD for approval through PCO. The DDR is under approval process.

1.2.3.2 Other sub project Far Western Province (non P7 municipalities)

ADB has been supporting four none P7 municipalities with an additional investment to complete ongoing infrastructure sub projects financed under IUDP and STIUEIP. The progress achieved by the PIUs of concerned municipalities since their commencement is described in following sub headings:

1.2.3.2.1 Biratnagar

PIU Biratnagar has been implementing one sub project under RUDP. Biratnagar Sewerage, Road, Drainage, Footpath, Road Furniture work and solar street lights (Contract no. RUDP/ICB/BRT/2). The overall physical and financial progress achieved up to June 2019 is 69.33 % and 59.89 % respectively.

1.2.3.2.2 Birgunj

Birgunj municipality has been implementing Road, Drainage, Footpath, Road Furniture, Bypass road and Bus-Bays under RUDP. On 13 June 2018 Birgunj PIU signed the agreement with ZTSJ-Kalika JV, for the construction of package: RUDP/ICB/BRG/1 at the amount NRs 2,349,266,305.13 inclusive of VAT. The overall financial progress up to June 2019 by PIU is 24.16 %. The physical progress is 32.84 %.

1.2.3.2.3 **Nepalguni**

PIU Nepalgunj has been implementing Road, Drainage, Footpath and Road Furniture (contract No. RUDP/ICB/NEG/3) under RUDP. The Physical Progress of Nepalgunj SMC up to June 2019 is 98.27 %. The overall financial progress up to June 2019 is 101.41 %.

1.2.3.2.4 Siddharthanagar

Under RUDP Siddharthanagar PIU has been implementing Siddharthanagar Drainage, Roads, Footpath and Road Furniture construction work (contract no. RUDP/ICBERMC (P.) Ltd./SN/4). The overall Physical progress achieved till June 2019 is 97 % and financial progress is 84.83%.

1.2.3.2.5 Description of subprojects (package-wise) and status of implementation (preliminary, detailed design, on-going construction, completed, and/or O&M stage)

The table below presents the description of subprojects (package-wise) and status of implementation (preliminary, detailed design, on-going construction, completed, and/or O&M stage)

Table 5: Description of subprojects (package-wise) and status of implementation

Package Number	Components/List of Works	Contract Status	Status of Implementation	If On-going Construction	
Number	Works	(specify if under bidding or contract awarded)	(Preliminary Design/Detailed Design/On-going Construction/Com pleted/O&M) ²	%Physic al Progress	Expecte d Complet ion Date
A. Non P	7 Municipalities	,	,		
RUDP/ICB/B RT/2	Biratnagar Metropolitan City/Construction & Completion of Sewerage, Drainage, Road Footpath & Road Furniture	Contract awarded on 10 October 2017	On-going construction	69.33 %	29 October 2019
RUDP/ICB/N EG/3	Nepalgunj Sub-metropolitan City/Construction of Road Drainage Footpath and Road Furniture	Contract awarded on 28 February 2018	On-going construction	98.27 %.	16 August 2020
RUDP /ICB /SN /4	Siddharthanagar Municipality /Construction of Road, Drainage, Footpath and Road Furniture	Contract awarded on 5 July 2017	On-going construction	97 %	22 Decemb er 2019
Birgunj Metropolitan City	Birgunj Metropolitan City	Contract not awarded yet	On-going construction	32.84 %	08 Decemb er 2020
	nicipalities				
Dhangadhi	Roads and drainage, ISWM, Land pooling	Design Phase	Design and estimations, Tender	_	_
Godawari	Roads and drainage, ISWM, Municipality building, Land pooling	Design Phase	evaluation, bid documents preparation	_	_
Bheemdatta	Roads and drainage, ISWM, Land pooling	Design Phase		_	_
Shuklaphant a	Roads and drainage, ISWM, Municipality building Land pooling	Design Phase		_	_

² If on-going construction, include %physical progress and expected date of completion

2 COMPLIANCE STATUS WITH NATIONAL/STATE/LOCAL STATUTORY ENVIRONMENTAL REQUIREMENTS

Environmental Compliance with National/State/Local statutory environmental requirements is presented in the table below.

in the table	Delow.					
Package No.	Subproject Name	Statutory Environmental Requirements	Status of Compli ance	Validi ty if obtai ned	Actio n Requ ired	Specific Conditions that will require environment al monitoring as per Environmen t Clearance, Consent/Per mit to Establish
	P7 Municipalities					
RUDP/ICB	Biratnagar Metropolitan	As per ADB guidelines on	Compli	Yes		
/BRT/2	City/ Construction &	Environmental Assessment	ed			
	Completion of	requirements, this project is				
	Sewerage, Drainage,	classified as Environment				
	Road	Category B, and therefore				
	Footpath & Road	Initial Environmental				
DUB="05	Furniture	Examination (IEE) has to be				
RUDP/ICB	Nepalgunj Sub-	done.	Compli	Yes		
/NEG/3	metropolitan	GoN's Environmental	ed			
	City/Construction of Road Drainage	Protection Regulations (1997) also stipulate that an IEE is				
	Footpath and Road	necessary. The project is				
	Furniture	environmental improvement				
RUDP	Siddharthanagar	project, and mainly	Compli	Yes		
/ICB /SN	Municipality	constitutes works on	ed			
/4	/Construction of Road,	sewerage/ drainage				
	Drainage, Footpath and	improvement works in				
	Road Furniture	Metropolitan/Sub-				
Birgunj	Birgunj Metropolitan	metropolitan city/				
Metropolit	City/	Municipalities besides others.				
an City	Road, Drainage,	According to Environmental				
	Footpath, Road	Protection Regulation, 2054				
	Furniture, Bypass road	BS, IEE is required for Operations of Sewerage				
	and Bus-Bays	Schemes under Schedule 1				
		(Pertaining to Rule 3).				
b. P7 I	Municipality	(<u> </u>	1		
Dhangad	Roads and drainage,	IEE				
hi	ISWM, Land pooling					
Godawari	Roads and drainage,	IEE except for Municipality				
	ISWM, Municipality	building				
	building, Land pooling					
Bheemdat	Roads and drainage,	IEE				
ta	ISWM, Land pooling					
Shuklaph	Roads and drainage,	IEE except for Municipality				

Package No.	Subproject Name	Statutory Environmental Requirements	Status of Compli ance	Validi ty if obtai ned	Actio n Requ ired	Specific Conditions that will require environment al monitoring as per Environmen t Clearance, Consent/Per mit to Establish
anta	ISWM, Municipality building Land pooling	Building				

3 COMPLIANCE STATUS WITH ENVIRONMENTAL LOAN COVENANTS

No	Covenants	Reference in Loan Agreement	Status of Compliance
Imple	ementation Arrangements		
1.	The Borrower shall ensure, and cause the Municipalities to ensure, that the Projects implemented in accordance with the detailed arrangements set for the PAM. Any subsequent change to the PAM shall become effective only after approval of such change by the Borrower and ADB. In the event of any discrepancy between the PAM and this Loan Agreement, the provisions of this Loan Agreement shall prevail.	Schedule 5, Para- 1	Complied with. Remark: The Project implementation arrangement is in accordance with the detailed arrangements set forth in the PAM
2.	The Borrower, including through MOUD, shall undertake best efforts to ensure that the same qualified persons will continue to be assigned for areas on able period of time of at least 2 years to positions of executive officers of the Municipalities concerned and key positions in the PCO and PIUs including, without limitation, the Project director of the PCO and Project managers of the PIUs.	Schedule 5, Para-2	Partially Complied with. Remark: There is transfer of PD (PCO), PIU chief (Nepalgunj), RPIU chief (Dhangadhi) in Sep 2018, Chief Administrative Officers of all project municipalities except Siddharthanagar and Godawari. Other key staff of PCO, RPIU and PIUs remains same.
Envii	ronment		
3.	The Borrower shall ensure that the preparation, design, construction, implementation, operation and decommissioning of the Project, each Subproject and all Project facilities comply with; (a) all applicable laws and regulations of the Borrower relating to environment, health and safety; (b) the Environmental Safeguards; (c) the EARF; (d) all measures and requirements set forth in the respective IEE, the EMP, and any corrective or preventative actions set	Schedule 5, Para-3	Complied with/being complied with. Remark: These are the part of subproject appraisal report.

		Reference	
No	Covenants	in Loan Agreement	Status of Compliance
	forth in a Safeguards Monitoring Report.		
	ttlement and Indigenous Peoples		
4.	The Borrower shall ensure that all and all rights-of-way required for the Project, each Subproject and all Project facilities are made available to the Works contractor in accordance with the schedule agreed under the related Works contract and all land acquisition and resettlement activities are implemented incompliance with: (a) all applicable laws and regulations of the Borrower relating to land acquisition and involuntary resettlement; (b) The Involuntary Resettlement Safeguards; (c) The CRIPPF; (d) All measures and requirements set forth in the RP/CRIPP, and any corrective or preventative actions set forth in the Safeguards Monitoring Report	Schedule 5, Para- 4	Complied with
5.	Without limiting the application of the Involuntary Resettlement Safeguards or the RPs/CRIPPs, the Borrower shall ensure that no physical or economic displacement takes place in connection with the Project until: (a) compensation and other entitlements have been provided to affected people in accordance with the RPs/CRIPPs and (b) A comprehensive income and livelihood restoration program has been established in accordance with the RPs/CRIPPs.	Schedule 5, Para-5	Complied with. Remarks: compensation is provisioned for ISWM of Dhangadhi while for road and drainage subprojects Biratnagar MC has cleared the RoW prior to intervention of RUDP. As far as possible voluntary donation process will follow for remaining 7 municipalities. Project has expected that partial or only part of the structures need to be taken by the project.
6.	The Borrower shall ensure that the preparation, design, construction, implementation and operation of the Project, and all Project facilities comply with; (a) all applicable laws and regulations of the Borrower relating to indigenous peoples; (b) the Indigenous Peoples Safeguards; (c) All measures and requirements set forth in the RP/CRIPP, and any corrective or preventative actions set forth in a Safeguards Monitoring Report.	Schedule 5, Para-6	Being complied with Remarks: Under implementation
	an and Financial Resources to Implement Safeguards Require	ements	
7.	The Borrower shall make available necessary budgetary and human resources to fully implement the EMP, RP and CRIPP.	Schedule 5, Para-7	Being complied
Safe	guards- Related Provisions in Bidding Documents and Works	Contracts	
8.	The Borrower shall ensure that all bidding documents and contracts for Works contain provisions that require contractors to:	Schedule 5, Para-8	
	(a) Comply with the measures relevant to the contractor set forth in the IEE, the EMP and any RP/CRIPP (to the extent they concern impacts on affected people	Schedule 5, Para-8.a	Being complied with. Remark: Provisions have been made in bidding

No	Covenants	Reference in Loan Agreement	Status of Compliance
	during construction), and any corrective or preventative actions set forth in a Safeguards Monitoring Report;	- ig. come	documents and contracts for work.
	(b) Make available a budget for all such environmental and social measures;	Schedule 5, Para-8.b	Complied with Remark: Provisions has been made in bidding documents and contracts for work
	(c) Provide the Borrower with a written notice environmental resettle mentor indigenous peoples risks or impacts that arise during construction implementation or operation of the Project that were not considered in the IEE, EMP, RP or CRIPP;	Schedule 5, Para-8.c	Being complied with. Will be followed.
	 (d) Adequately record the condition of roads agricultural land and other infrastructure prior to starting to transport material and construction; 	Schedule 5, Para-8.d	Under progress
	(e) Fully reinstate pathways, other local structure, and agricultural land to at least their pre-project condition upon the completion of construction.	Schedule 5, Para-8.e	Under progress
Safe	guards Monitoring and Reporting		
9.	The Borrower shall do the following:	Schedule 5, Para-9	
	 (a) Submit semi-annual Safeguards Monitoring Reports to ADB and disclose relevant information from such reports to affected persons promptly upon submission; 	Schedule 5, Para-9.a	Complied with
	(b) If any unanticipated environmental and/or social risks and impacts arise during construction, implementation or operation of the Project that were not considered in the IEE, EMP, RP or CRIPP, promptly inform ADB of the occurrence of such risks or impacts, with detailed description of the event and proposed corrective action plan;	Schedule 5, Para-9.b	Complied with/being complied with. Remark: Will be followed
	(c) Report any actual or potential breach of compliance with the measures and requirements set forth in the EMP, RP or CRIPP promptly after becoming aware of the breach.	Schedule 5, Para-9.c	Being complied.
<u> </u>	rohibited List of Investments	Oak data	Daine assessing
10.	The Borrower shall ensure that no proceeds of the loan are used to finance any activity included in the list of prohibited investment activities provided in Appendix 5 of the SPS.	Schedule 5, Para-10	Being complied.
	r Standards: Health and Safety		
11.	The Borrower shall ensure that the core labor standards and the Borrower's applicable laws and regulations are complied with during Project implementation. The Borrower shall include specific provisions in the bidding documents and contracts financed by ADB under the Project requiring that the contractors, among other things: (a) comply with the Borrower's applicable labor law and regulations and incorporate applicable workplace occupational safety norms;	Schedule 5, Para-11	Being complied.

No	Covenants	Reference in Loan Agreement	Status of Compliance
	(b) do not use child labor; (c) do not discriminate workers in respect of employment and occupation; (d) do not use forced labor; (e) allow freedom of association and effectively recognize the right to collective bargaining	•	
G	ender and Development		
12.	The Borrower shall ensure that	Schedule 5, Para-12	
	 (a) The GESI Action Plan and the Community Awareness and Participation Plan are implemented in accordance with their terms; 	Schedule 5, Para-12.a	Being complied
	 (b) The bidding documents and contracts include relevant provisions for contractors to comply with the measures set forth in the GESI Action Plan; 	Schedule 5, Para-12.b	Being complied
	(c) Adequate resources are allocated for implementation of the GESI Action Plan;	Schedule 5, Para-12.c	Being complied
	(d) Progress on implementation of the GESI Action Plan, including progress toward achieving key gender outcome and output targets, are regularly monitored and reported to ADB.	Schedule 5, Para-12.d	Being complied
Cour	terpart Support		
13.	The Borrower shall provide, as necessary, counterpart staff, land, facilities, and funding required for timely and effective implementation of the Project, including, without limitation, any funds required (a) To meet any shortfall between cost and revenues for the O&M of Project facilities; (b) To mitigate unforeseen environmental or social impacts; (c) To meet any additional costs arising from design changes, price escalation in construction costs and or unforeseen circumstances. The Borrower shall make the resources thus required available on an annual basis for each fiscal year.	Schedule 5, Para-13. a- c	Complied with. Remark: Sufficient counterpart staff and fund required for the project implementation have been provisioned through budgetary system on annual basis.
14.	The Borrower shall ensure, or cause the Project Executing Agency to ensure, that each Municipality provides adequate funds from budgetary allocations or other sources to cover, at a minimum, O&M costs for the relevant Subproject(s) and Project facilities.	Schedule 5, Para-14	Being complied Remarks: Under progress
	ncial Sustainability		
15.	The Borrower shall ensure, or cause the Project Executing Agency to ensure, that the financial management action plan as set out in the PAM is implemented in accordance with the PAM.	Schedule 5, Para-15	Being complied
16.	The Borrower shall ensure that the Municipalities will be responsible for the financial sustainability of the Subprojects.	Schedule 5, Para-16	Being complied.
17.	The Borrower shall ensure that the PCO regularly monitors and provides reports to ADB, at least semi-annually, the progress on implementing the update and approved business plan and comprehensive financial management improvement plan for each Municipality as referred to in paragraphs 28 and 29 below.	Schedule 5, Para-17	Being complied Remarks: Shall be followed.
18.	The Borrower shall ensure that, during detailed design stage, Bheemdatt, Biratnagar, Dhangadhi, Godavari and	Schedule 5, Para-18	Being complied Remarks: Shall be followed

No	Covenants	Reference in Loan Agreement	Status of Compliance
	Shuklaphanta municipalities will adequately assess the possibility of an appropriate modality for engaging the private sector in O&M of the integrated solid waste management systems, including billing and collection system from the viewpoint of effective and efficient system operation, and reflect the findings in the bidding documents as appropriate.	, g. comon	
20.	The Borrower shall ensure that each project municipality develops a municipal- wide asset inventory, and prepares a detailed asset management plan and operations and maintenance plan no later than 18 months prior to the scheduled completion of the construction work for the relevant Subproject. The Borrower shall ensure or cause MoUD to ensure that each Municipality selects or establishes an unit responsible for the solid waste management system, roads, sanitation and drainage systems, assigns an adequate number of staff, and ensures their training to a level and degree commensurate with the roles and functions of each Municipality in O&M.	Schedule 5, Para-19	Not yet due
	ect Performance Management System		
21.	The Borrower shall ensure that, within 6 months from Effective Date, DUDBC shall establish a project performance management system satisfactory to ADB. The Borrower shall ensure or cause DUDBC to ensure that, within 12 months from Effective Date, framework for baseline data corresponding to indicators and targets set out in the GESI Action Plan, disaggregated by sex, caste, and ethnicity is established and data collection commenced.	Schedule 5, Para-20	Not complied with. Remarks: PPMS is under preparation. Others: Not yet due
22.	The Borrower shall ensure that MoUD, DUDBC, and the Municipalities coordinate amongst themselves as appropriate and ensure that the quarterly and other reports to be prepared by the Municipalities and RPIU are consolidated with the reports to be prepared by PCO and submitted to ADB in a timely manner.	Schedule 5, Para-21	Being complied: Remark: MoUD, DUDBC, PCO, RPIU and municipalities are coordinating to submit reports on timely manner to ADB.
	projects	<u> </u>	
23.	The Borrower shall ensure or cause MOUD to ensure, that Subprojects are implemented in a manner satisfactory to ADB.	Schedule 5, Para-22	Being Complied: Remark: Implementation arrangements have been completed to ensure.
	cipalities		
24.	The Borrower shall enforce the cost-sharing for each Subproject and each municipality as set forth in detail in the PAM. The Borrower shall ensure that MOUD further ensure that the Municipalities secure budget allocation to recover at least project contribution and O&M expenditure through tariff collections for sewerage and solid waste management where relevant, and increases in revenue generation whether through changes in tax regime, and or use of charges and or other measures.	Schedule 5, Para-23	Not yet, due.

No	Covenants	Reference in Loan Agreement	Status of Compliance
25.	The Borrower shall ensure that the Municipalities enforce their planning and building bylaws, and operationalize a digitized house numbering system at least 6 months before the relevant works contracts are due for completion	Schedule 5, Para-24	Not yet, due
26.	The Borrower shall ensure that each Municipality puts in place the integrated property tax system, and implement the integrated property tax billing system at least 18 months before the relevant works contract is scheduled for completion	Schedule 5, Para-25	Not yet, due
27.	The Borrower shall ensure that each Municipality reflects in its budget and financial reports the revenues and expenses related to the Project	Schedule 5, Para-26	Being complied.
28.	The Borrower shall ensure that the Municipalities promptly implement the sanitation action plan, which includes septage management plan to improve regular cleaning of septic tanks and safe disposal of septage, and cost recovery mechanisms.	Schedule 5, Para-27	Not yet, due Remark: Nepalgunj has started preparing the plan.
29.	For Biratnagar, Birgunj, Siddharthanagar and Nepalgunj municipalities, within 3 months of the Effective Date, the Municipalities shall have approved the comprehensive financial management improvement plan that has been developed by the Municipalities and ADB, and shall implement the first year revenue enhancement measures as specified in the plan within 12 months of the Effective Date and update the plan annually.	Schedule 5, Para-28	Complied.
30.	For Bheemdatt, Dhangadhi, Godawari and Shuklaphanta Municipalities, within 12 months of the Effective Date, the Municipalities shall have approved the comprehensive financial management improvement plan that has been developed by the Municipalities and ADB, and shall implement the first year revenue enhancement measures as specified in the plan within 18 months of the Effective Date and update the plan annually.	Schedule 5, Para-29	Not yet due.
Othe			
30.	The Borrower shall ensure that the Municipalities and other entities responsible for the O&M of the systems developed or improved under the Project will secure and allocate adequate funds for proper O&M of the systems, by providing necessary technical and financial support.	Schedule 5, Para-30	Not due yet.
31.	The Borrower shall ensure that there will be complementarily and no overlap of activities between Subprojects and projects funded by other development partners.	Schedule 5, Para-31	Being complied.
32.	The Borrower shall ensure that an annual program is developed for the Urban Planning and Development Centre and budget allocated annually from fiscal year 2017-18. The Borrower shall also ensure that minimum staff is provided for the Centre as per the approved organizational structure.	Schedule 5, Para-32	Being complied.
	ernance and Anticorruption	0-11-1-5	Daine a constitut
33.	The Borrower, MOUD and the Municipalities shall: (a) comply with ADB's Anti corruption Policy(1998, as amended to date) and acknowledge that ADB reserves the right to investigate directly, or through its agents, any alleged corrupt, fraudulent	Para-33	Being complied.

collusive or coercive practice relating to the Project, (a) cooperate with any such investigation and extend all necessary assistance for satisfactory completion of such investigation. 34. MOUD and the Municipalities shall ensure that the anticorruption provisions acceptable to ADB are included in all bidding documents and contracts, including provisions specifying the right of ADB to audit and examine the records and accounts of the executing and implementing agencies and all contractors, suppliers, consultants, and other service providers as they relate to the Project. 35. Within 2 months after the Effective Date, DUDBC shall create a project website to disclose key project-related information, including costs, safeguards, procurement such as the list of participating bidders, name of the winning bidder, basic details on bidding procedures adopted amount of contract awarded, and the list of goods/services procured. The website shall also include general Project information, Project progress, and contact details for the Project Executing Agency's counterpart staff in Nepali and English languages, and shall link to ADB's Integrity Unit web site at http://www.adb.orglintegrity/complaint.asp for reporting to ADS (my grievances or allegations of corrupt practices arising out of the Project Executing Agency to ensure that all Project staff is fully aware of ADB's procedures, including, but not limited to, procedures for implementation, procurement, use of consultants, disbursements, reporting, monitoring, and prevention of fraud and corruption. 36. Within 12 months from the Effective Date, the PCO shall prepare a grievance redress mechanism, acceptable to ADB, and establish a special committee to receive and resolve complaints/grievances or act upon reports from stakeholders of the Project, in relation to either the Project, any of the service providers, or any person responsible for carrying out any aspect of the Project, in relation to either the Project, any of the service providers, or any person responsible	No	Covenants	Reference in Loan Agreement	Status of Compliance
anticorruption provisions acceptable to ADB are included in all bidding documents and contracts, including provisions specifying the right of ADB to audit and examine the records and accounts of the executing and implementing agencies and all contractors, suppliers, consultants, and other service providers as they relate to the Project. 35. Within 2 months after the Effective Date, DIUDBC shall create a project website to disclose key project-related information, including costs, safeguards, procurement such as the list of participating bidders, name of the winning bidder, basic details on bidding procedures adopted amount of contract awarded, and the list of goods/services procured. The website shall also include general Project information, Project progress, and contact details for the Project information, Project progress, and contact details for the Project tractivities. The Borrower shall cause the Project and or Project activities. The Borrower shall cause the Project Executing Agency to ensure that all Project staff is fully aware of ADB's procedures, including, but not limited to, procedures for implementation, procurement, use of consultants, disbursements, reporting, monitoring, and prevention of fraud and corruption. 36. Within 12 months from the Effective Date, the PCO shall prepare a grievance redress mechanism, acceptable to ADB, and establish a special committee to receive and resolve complaints/grievances or act upon reports from stakeholders on misuse of funds and other irregularities, including giverances due to safeguards issues. The special committee shall (a) be independent of, and has no conflict of interest with, the Municipalities; (b) make public of the existence of this grievance redress mechanism; (c) review and address grievances of stakeholders of the Project, in relation to either the Project, any of the service providers, or any person responsible for carrying out any aspect of the Project; (d) proactively and constructively responding to them. 37. The Borrower shall ensure, or		cooperate with any such investigation and extend all necessary		
 35. Within 2 months after the Effective Date, DUDBC shall create a project website to disclose key project-related information, including costs, safeguards, procurement such as the list of participating bidders, name of the winning bidder, basic details on bidding procedures adopted amount of contract awarded, and the list of goods/services procured. The website shall also include general Project information, Project progress, and contact details for the Project Executing Agency's counterpart staff in Nepali and English languages, and shall link to ADB's Integrity. Unit web site at http://www.adb.orglintegrity/complaint.asp for reporting to ADS (my grievances or allegations of corrupt practices arising out of the Project and or Project activities. The Borrower shall cause the Project Executing Agency to ensure that all Project staff is fully aware of ADB's procedures, including, but not limited to, procedures for implementation, procurement, use of consultants, disbursements, reporting, monitoring, and prevention of fraud and corruption. 36. Within 12 months from the Effective Date, the PCO shall prepare a grievance redress mechanism, acceptable to ADB, and establish a special committee to receive and resolve complaints/grievances or act upon reports from stakeholders on misuse of funds and other irregularities, including grievances due to safeguards issues. The special committee shall (a) be independent of, and has no conflict of interest with, the Municipalities (b) make public of the existence of this grievance redress mechanism; (c) review and address grievances of stakeholders of the Project, in relation to either the Project, any of the service providers, or any person responsible for carrying out any aspect of the Project; (d) proactively and constructively responding to them. 37. The Borrower shall ensure, or cause each of the Municipalities to ensure, that citizen charter shall be displayed at the Municipality's office	34.	anticorruption provisions acceptable to ADB are included in all bidding documents and contracts, including provisions specifying the right of ADB to audit and examine the records and accounts of the executing and implementing agencies and all contractors, suppliers, consultants, and other service		Remark: The Anti-corruption provisions of ADB are also
prepare a grievance redress mechanism, acceptable to ADB, and establish a special committee to receive and resolve complaints/grievances or act upon reports from stakeholders on misuse of funds and other irregularities, including grievances due to safeguards issues. The special committee shall (a) be independent of, and has no conflict of interest with, the Municipalities; (b) make public of the existence of this grievance redress mechanism; (c) review and address grievances of stakeholders of the Project, in relation to either the Project, any of the service providers, or any person responsible for carrying out any aspect of the Project; (d) proactively and constructively responding to them. 37. The Borrower shall ensure, or cause each of the Municipalities to ensure, that citizen charter shall be displayed at the Municipality's office and public audit shall be organized through regular and effective meetings at the community level. Schedule 5, Para-36 Being complied: Remark: PCO, municipalities, PIUs, RP and PISUs have displacitizen charter. The municipalities are ready carry out public audit on	35.	Within 2 months after the Effective Date, DUDBC shall create a project website to disclose key project-related information, including costs, safeguards, procurement such as the list of participating bidders, name of the winning bidder, basic details on bidding procedures adopted amount of contract awarded, and the list of goods/services procured. The website shall also include general Project information, Project progress, and contact details for the Project Executing Agency's counterpart staff in Nepali and English languages, and shall link to ADB's Integrity Unit web site at http://www.adb.org/lIntegrity/complaint.asp for reporting to ADS (my grievances or allegations of corrupt practices arising out of the Project and or Project activities. The Borrower shall cause the Project Executing Agency to ensure that all Project staff is fully aware of ADB's procedures, including, but not limited to, procedures for implementation, procurement, use of consultants, disbursements, reporting, monitoring, and	Para-35	Remark: PMIS training has been conducted in PCO. Web site is created. Training in PIUs and RPIUs level will be conducted soon. The recording of the information will be automated after completion of IT training in all PIUs and
to ensure, that citizen charter shall be displayed at the Municipality's office and public audit shall be organized through regular and effective meetings at the community level. Remark: PCO, municipalities, PIUs, RP and PISUs have displacitizen charter. The municipalities are ready carry out public audit on	36.	Within 12 months from the Effective Date, the PCO shall prepare a grievance redress mechanism, acceptable to ADB, and establish a special committee to receive and resolve complaints/grievances or act upon reports from stakeholders on misuse of funds and other irregularities, including grievances due to safeguards issues. The special committee shall (a) be independent of, and has no conflict of interest with, the Municipalities; (b) make public of the existence of this grievance redress mechanism; (c) review and address grievances of stakeholders of the Project, in relation to either the Project, any of the service providers, or any person responsible for carrying out any aspect of the Project; (d) proactively and constructively responding to them.	Para-36	Remark: There is Grievance Redress Mechanism and the Special Committee at PCO. Recording system is not maintained.
regular interval at the community level. 38. The Borrower shall ensure, or cause MOUD to ensure, that the Schedule 5, Being Complied.		to ensure, that citizen charter shall be displayed at the Municipality's office and public audit shall be organized through regular and effective meetings at the community level.	Para-37	Remark: PCO, municipalities, PIUs, RPIU and PISUs have displayed citizen charter. The municipalities are ready to carry out public audit on regular interval at the community level.

No	Covenants	Reference in Loan Agreement	Status of Compliance
	PCO hires technical auditors affiliated with the national vigilance center to carry technical audit of Sub-projects on random basis at least three times during project implementation. The technical auditor will share the report with MOUD and ADB on confidential basis. Contractors shall be made to disclose basic information of contracts in each construction site through a display board.	Para-38	Remark: National vigilance center has collected projects detail to conduct Technical Audit in this FY 2018/2019

4 COMPLIANCE STATUS WITH THE ENVIRONMENTAL MANAGEMENT PLAN

Package		Final IEE based o	n Detailed Des	ign	Site-specific	
Number	Not yet due (detailed design not yet completed)	Submitted to ADB (Provide Date of Submission)	Disclosed on project website (Provide Link)	Final IEE provided to Contractor/s (Yes/No)	EMP (or Construction EMP) approved by Project Director? (Yes/No)	Remarks
Non P7 Municip	alities					
RUDP/ICB/BR T/2		Approved (May, 2013)	Yes	Yes	Yes	
RUDP/ICB/NE G/3		Approved	Yes	Yes	Yes	
RUDP /ICB /SN /4		Approved	Yes	Yes	Yes	
Birgunj Metropolitan City						Contract not awarded yet
P7 Municipalitie	es					
Dhangadhi						
Godawari	√					
Bheemdatt	√					
Shuklaphanta						

Table 6: Package-wise Contractor/s' Nodal Persons for Environmental Safeguards

Package Name	Contractor	Nodal Person	Email Address	Contact Number
RUDP/ICB/BRT/2	ZHONGHENG Construction	-	-	-
	Group International			
	Engineering Co. Ltd, Beijing,			
	China			
RUDP/ICB/NEG/3	Kalika- ZTST JV Kathmandu	•	•	-
RUDP /ICB /SN	China Guangzhou and	-	-	-
/4	Sharma Co. (P) Ltd JV			
	Sitapaila Kathmandu			
RUDP/ICB/BRJ/1	Kalika- ZTSJ JV Kathmandu	-	-	-

Table 7: Summary of Environmental Monitoring Activities (for the Reporting Period)

Impacts (List from IEE)	Mitigation Measures (List from IEE)	Parameters Monitored (As a minimum those identified in the IEE should be monitored)	Method of Monitoring	Location of Monitoring	Date of Monitorin g Conducte d	Name of Person Who Conducted the Monitoring
Biratnagar(RUDP/IC	B/BRT/2)					
Design Phase					_	
Pre-Construction Pl	nase	Т	T	Г		
No such impact is anticipated as the works involve only about review of detailed design, site investigation, detailed survey etc.	-	-	-	-	-	-
Construction Phase						
Deterioration of air quality, increase in dust/suspended particulate matters and noise pollution	 Sprinkling of water on road surface and across diversion two to three times a day or as required Cover stockpiled construction materials with tarpaulin Provision of dust masks to workers Use ear muffs to prevent any risk to the ears due to excessive noise problems. 	 Dust emission Frequency of Sprinkling of water Use of dust preventive mask by workers Counting ear muffs during excessive noise conditions. 	Observation Observation	Constructi on Site Constructi on Site	days ir May and June 2019	1
Inconvenience to pedestrians and vehicles Issue of management of excavated surplus & Insufficient number of labours	Plan transportation route -Inform public about the nature and duration of construction - Do not block public road and pedestrian footpath - Provide diversion with proper traffic sign boards - Place precast slab cover immediately as early as possible on completion of construction of side drain	Transportation Plan and schedule of working Proper diversion Traffic signs and barricades Road side drain cover Proper excess surplus management No. of labours	Observation	Constructi on Site Constructi on Site	days ir May and June 2019	

Impacts (List from IEE)	Mitigation Measures (List from IEE)	Parameters Monitored (As a minimum those identified in the IEE should be monitored)		ocation of Monitoring	g Conducte	Name of Person Who Conducted the Monitoring
Water pollution	Immediate back fill of sewer line/side drain after laying of sewer lines and constructing road side or/and storm drain, -Minimize the period of construction by increasing workers. O Nearby water sources shall be protected from any source of contamination such as oily and construction waste.	By visualizing Sites inspection Monitoring the	 Eye view Monitoring the sites 		Different days in May and	As per the check lists
	construction waste. Solid waste shall be disposed off in designated sites only. Ensure that the construction debris does not find their way into the drainage or irrigation canals which may get clogged. Prohibit washing of machinery and vehicles in surface waters, provide sealed washing basins and collect waste water in sedimentation and retention ponds. Contractor needs to arrange sufficient potable during water and proper sanitation facilities to its officials and workforce.	nearby surface areas where potential washing is possible.	 Checking the vehicles washing system and places Water quality tests not dine. 	Constructi on Site	June 2019	
Use of bitumen/ operation of asphalt plant Combustible and toxic materials	 Fuel wood shall not be used for heating bitumen. Bitumen shall be heated in heaters using Kerosene, diesel or gas fuel. Bitumen drums shall be stored in dedicated areas, not scattered along the roads and any spills should be cleared off immediately. 	 Stocks of the fire fuel. Stocking of fuel drums at dedicated places Check the location of Asphalt plant. 	 Checking of the heating the bitumen at the sites. Check the stores. Far from the residential 	on Site Constructi on Site	Different days in May and June 2019	As per the check lists

Impacts (List from IEE)	Mitigation Measures (List from IEE)	Parameters Monitored (As a minimum those identified in the IEE should be monitored)	Method of Monitoring	Location of Monitoring	Date of Monitorin g Conducte d	Name of Person Who Conducted the Monitoring
Occupational Health and Safety Issues Accidents and Injuries	 No bituminous material shall be discharged into drains. Bitumen shall not be applied in strong wind or rainy conditions. Spill kits shall be in use in use to control the spillage and leaks. Asphalt plant location shall be far from community and in isolated place. Implement a site Health and Safety Plan Provide adequate Personnel Protective Equipment (PPE) to workers (helmets, boots, gloves and masks etc.) to workers Barricading the work places, placing traffic signals at necessary locations and sign boards about the work and its activities. Provide First Aid Boxes (FABs) at every work sites and camps with all basic requirements of medicines and equipments for the primary treatment for the injured ones. 	site o Barricades, signals and sign boards.	Observation	Construct on Site	i Different days ir May and June 2019	

	Name of Subproje ct		Compliance to Environmental Management Plan*													Grievances					
		Physical			Biological			Socio-economic				,	nievanie	,63							
S.		Spoil Mana geme nt	Mana lide geme protec	ds Draina Oth e ge as p ec Mana EN	Others as per EMP (specify)	as per EMP	Compe tory Plantat	ory	Fire woo d is used	Others as per EMP (specify)	Occup	Occupational Health and Safety Community structures are compensated / reconstructed (progress in % of total work)*** EMP		cu olv ne ed	unde r proc essi	Correcti ve Action Plans	ENV complia nce				
N 0		(compl with iance Bio- (cc in engg ian %)* (compl in	nt (compl iance in %)	nt ompl ince i %)	Tar get (No s.)	Re pla nte d (No s.)	for cook ing and heati ng (Y/N)		Safety Gears are suffici ent and used (Y/N)	Lab ors are ins ure d (Y/ N)	Labor and work camps are healthy and have sanitary facilities (Y/N)	Community Structure 1	Communit y Structure 2	(specif y)	d		ng	are prepare d and implem ented (Y/N)	reportin g is maintai ned (Y/N)	Remark s	
		est Regio	n(P-7) proj	ect Munic	ipalities																1
1	Bheemdat ta	IEEs not yet prepared 11 3 8 N/A N/A																			
2	Godawari	IEEs not yet prepared 7 7 0 N/A N/A																			
3	Dhangadh i							I	EEs not yet	prepared						6	2	4	N/A	N/A	
4	Shuklaph anta	IEEs not yet prepared											6	3	3	N/A	N/A				
	B. Non-F	ar West R	egion (p-7) project N	/lunicipalitie	s															
5	Birgunj	18.23	NR	31.45	N/A	N/ A	N/A	No	Partially followed	Y	Υ	Υ	Y	Y	Y	9	9	0	N/A	N/A	
6	Biratnagar	32.13	NR	69.13	Partially followed	N/ A	N/A	No	Partially followed	Y	Y	Y	Y	Y	Y	9	9	0	N/A	N/A	Constru ction Works
7	Nepalgunj	32.21	NR	65.23	Partially followed	N/ A	N/A	No	Partially followed	Y	Υ	Y	Υ	Y	Y	2	2	0	N/A	N/A	in progres s
8	Siddharth anagar	25.73	NR	70.12	Partially followed	N/ A	N/A	No	Partially followed	Y	Υ	Y	Y	Y	Y	27	18	9	N/A	N/A	

Note: * Add field as guided by EMP in EIA/IEE/DDR; ** Write percentage of compliance in a scale of 100%; *** mention type of community structures, N/A - not available, NR-not required

Progress status and issues in brief: a) Non Far Western Province (Non P7) Municipalities: Road/Drainage/footpath construction works are in progress in Biratnagar, Nepalgunj, Birgunj and Siddharthanagar. Based on the EMPs environmental monitoring are being carried out in these municipalities. EDDR of Birgunj is under approval process from DUDBC and that of Biratnagar is send back with comments to PIU. b) Far western Province (P7) Municipalities: 1) ToR for IEE of a) roads and drainage construction work of Dhangadhi and Godawari has been approved, and of Bheemdatt is under approved process, b) ISWM Suklaphanta has been approved and of Godawari is under approved and of Godawari is under approved. 2) Finalized DDRs of municipal buildings of Godawari and Suklaphanta are on the process of approval at DUDBC. 3) Construction of Roads and drainages IFB published for Dhangadhi, Suklaphanta and Godawari, 4) Construction of Municipal buildings IFB published for Godawari and Suklaphanta

Table 9: Status of Environmental Safeguards during Planning Design Stage

	<u> </u>					juarus uurn		<u>g</u> = cc.g.						
S. N o.	Name of Project or Subprojec t	Environme ntal screening is carried out? (Yes or No)	Environ ment category of the project / subproje ct (A/B/C/FI)	EARF is prepare d (if applica ble) (Yes/No	EIA/IEE/ EMP is prepare d (Yes/No	DDR / EDDR	ADB approved EIA/IEE with EMP (Yes / Under Review / Not Yet Due/Over Due)	Government approved EIA/IEE with EMP (Yes / Under Review / Not Yet Submitted)	Safeguard monitoring and coordinatio n mechanism established (Yes/No)	GRC is establis hed (Yes/No	Automate d safeguard monitorin g system customize d (Yes/No)	EMP cost in approved document is included in BOQ as an individual item (Yes/No)	Remarks	
	A. Far Western Province (P-7) Municipalities													
1	Bheemdatt a	Yes	В	Yes	No	-	No	No	No	Yes	No	Will be put in BoQ	IFB of R/D of Dhangadi, Godawar & Suklaphanta, and	
2	Godawari	Yes	В	Yes	No	Yes*	No	No	No	Yes	No	Yes	Buildings work of Suklaphanta &	
3	Dhangadhi	Yes	В	Yes	No	-	No	No	No	Yes	No	Yes	Godawari published Final ToR of ISWM of	
4	Shuklapha nta	Yes	В	Yes	No	Yes*	No	No	No	Yes	No	Yes	Suklaphanta & Godawari, and R/D of Bheemdutt completed	
	B. Non-Fa	r Western Prov	vince (P-7) Mu	unicipalities										
5	Birgunj	Yes	В	Yes	Yes	EDDR submitted for approval	Yes	Yes	Yes	Yes	Yes	Yes		
6	Biratnagar	Yes	В	Yes	Yes	EDDR returned back with comments	Yes	Yes	Yes	Yes	Yes	Yes	Construction work in progress	
7	Nepalgunj	Yes	В	Yes	Yes	EDDR not submitted	Yes	Yes	Yes	Yes	Yes	Yes	. •	
8	Siddhartha nagar	Yes	В	Yes	Yes	EDDR not submitted	Yes	Yes	Yes	Yes	Yes	Yes		

Note: EIA- Environmental Impact Assessment; IEE- Initial Environmental Examination; EDDR- Environmental Due Diligence Report; DDR- Due Diligence Report; EMP- Environmental Management Plan; GRC-Grievace Redress Committee; BoQ- Bill of Quantity. * DDR for Municipal office buildings for Suklaphanta and Godawari, ToR for IEE of ISWM Suklaphanta have been approved from MoUD, and RP for Road and Drainages of Godawari has been finalized

Progress status and issues in brief: 1) ToR for IEE of a) roads and drainage construction work of Dhangadhi and Godawari has been approved, and of Bheemdatt is under approval process, b) ISWM Suklaphanta has been approved and of Godawari is under approval process, c) 2) Finalized DDRs of municipal buildings of Godawari and Suklaphanta are on the process of approval at DUDBC. 3) EDDR of Birgunj is under approval process from DUDBC and that of Biratnagar is send back with comments to PIU.

Table 10: Overall Compliance with CEMP/ EMP

No.	Sub-Project Name	EMP/ CEMP Part of Contract Documen ts (Y/N)	CEMP/ EMP Being Impleme nted (Y/N)	Status of Implementation (Excellent/ Satisfactory/ Partially Satisfactory/ Below Satisfactory)	Action Proposed and Additional Measures Required
1.	Construction & Completion of Sewerage, Drainage, Road, Footpath& Road Furniture(Package:RUDP/ICB/BRT/2), Biratnagar	Y	Y	satisfactory	
2.	Construction of Road Drainage Footpath and Road Furniture (Package: RUDP/ICB/NEG/3), Nepalgunj	Y	Y	satisfactory	
3.	Construction of Road, Drainage, Footpath and Road Furniture (Package: RUDP /ICB /SN /4, Siddharthanagar	Y	Y	satisfactory	
4.	Construction of Road, Drainage, Footpath and Road Furniture (Package: RUDP /ICB /BRG /1, Birgunj	Y	Y	satisfactory	

Table 11: Status of EMP Compliance

S. N o.	Sub- Project Name	EMP Part of Contrac t Docum ents (Y/N)	Status of IEE/EDDR	EMP Being Implemen ted (Y/N)	Status of Implementation (Excellent/ Satisfactory/ Partially Satisfactory/ Below Satisfactory)	Action Proposed and Additional Measures Required	Remarks						
	A. Non Far West Region municipalities												
1	Biratnagar	Y	EDDR sent back with comments	Y	Satisfactory	Y	Construction activities are						
2	Birgunj	Y	EDDR in approval process	Y	Satisfactory	NA	in progress.						
3	Siddharth anagar	Y	NA	Y	Satisfactory	NA							
4	Nepalgunj	Υ	NA	Υ	Satisfactory	NA							
		Region m	unicipalities										
5	Godawar i)	Y	ToR for IEE of R &D is approved and of ISWM is in approval process	-	-	-	Design and estimations, Tender evaluation, bid documents preparation.						
6	Suklaphan ta	Y	ToR for IEE of ISWM is approved	-	-	-							

S. N o.	Sub- Project Name	EMP Part of Contrac t Docum ents (Y/N)	Part of Contrac t Docum ents Status of IEE/EDDR		Status of Implementation (Excellent/ Satisfactory/ Partially Satisfactory/ Below Satisfactory)	Action Proposed and Additional Measures Required	Remarks
7	Bheemdat	Υ	ToR for IEE of	-	-	-	
	ta		R &D is in				
			approval				
			process				
8	Dhangadh	Y	ToR for IEE of	-	-	-	
	i		R &D is				
			approved				

5 APPROACH AND METHODOLOGY FOR ENVIRONMENTAL MONITORING OF THE PROJECT

The main objective of environmental monitoring is to detect impact in the early phase of project in order to take corrective action before it starts. Other objective of monitoring is to provide feedback on the accuracy of impact prediction, effectiveness of mitigation measures and provide guidance for readjustments during project implementation and operation. Environmental monitoring helps to ensure the effectiveness of environmental mitigation measures, compliance with environmental standards.

This Environmental Monitoring Report has been prepared based on the Environmental Management Plan (EMP). 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 II.

5.1 MONITORING MECHANISM

The Environmental Management Plan (EMP) has been prepared for all subprojects and the same will be prepared for the other two subprojects. The proponent shall set out environmental management requirements to develop procedures that ensure all mitigation measures and monitoring requirements specified in the respective Environmental Assessment Reports. The EMP will actually be carried out in subsequent stages of project implementation and operation.

5.2 TYPES OF MONITORING

Monitoring is continuous observation of proposed actions to examine what changes have been taken place, what has gone wrong and who to improve them. Usually, monitoring takes place in three aspects:

- Baseline Monitoring: Usually pre-project information is often compared with the information obtained during the project operation. Any change that has occurred during the period of time should be recorded.
- Impact Monitoring: In order to examine the occurrence of impacts identified and predicted, Impact monitoring is carried out. In this process, examination of impacts that has actually occurred, mitigation measures adopted and effectiveness have to be examined.

- Compliance Monitoring: In order to examine whether the compliance of the condition prescribed in laws and regulation have been followed in the implementation of the project. 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 was established in the project for effective planning, monitoring and follow up of all environmental, social development/ safeguard issues including the resettlement plan. 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.
- ➤ 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 Environment Expert 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.
- ➤ Labourers 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

6 MONITORING OF ENVIRONMENTAL IMPACTS ON PROJECT SURROUNDINGS (AMBIENT AIR, WATER QUALITY AND NOISE LEVELS)

Dust Pollution was observed as a major problem in the initial stage of improvement of roads and lanes because of storage of construction materials like sub-base course and base course, other construction materials and excavated spoilage along roadside for a long time. Movement of vehicles over those materials and unpaved road surface within project area cause trouble of dust emission and air pollution.

To minimize it, the contractors are 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 done at least three to four times or more (if necessity arises) during the day.

There are no data with the Contractor on monitoring of environmental impacts on surrounding (ambient air, water quality and noise levels), which is reported to have not been performed.

Sign boards with barricades were installed at construction sites, however these are not sufficient. Therefore, the contractors are requested to install adequate signboards with safety information, barricade and caution tape for demarcation of project site and its enclosure. Safeguard tools like helmets, gloves, boots and masks have not been adequately used by the labourers.

Similarly constructed road side drain were observed to be left open at few road sections, where there may be problem for pedestrian and may chance of falling of pedestrian into drain. Therefore, contractors are instructed to cover the open drain immediately with slab cover.

7 GRIEVANCE REDRESS MECHANISM

The subprojects 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.

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 Mayors of Metropolitan/Sub-metropolitan cities are the chairperson of the GRC with CAO of MC/SMC/Municipalities and Project Managers as members 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 as in table 12 below.

Table 12: Composition of GRC for RUDP

Designation	Portfolio
Mayor (MC/SMC/Municipality)	Chairperson
Deputy mayor, MC/SMC/Municipality City Office	Member
CAO, MC/SMC/Municipality office	Member
Project Manager, RUDP,PIU for respective MC/SMC/Municipality	Member
Project Engineer/ PIU	Member
Project Engineer/ PIU	Member
Chief; Social Development/ PIU	Member Secretary

8 COMPLAINTS RECEIVED DURING THE REPORTING PERIOD

Only 77 complaints were received till reporting period for RUDP projects and 53 were addressed accordingly. Remaining 24 are in the process of redress. These are given below;

Table 13: Redress of grievances for RUDP

S.N.	Projects	Complaints received till this reporting period	Complaints redressed till the reporting period	Redresses remaining
Α	Non P7			
1	Biratnagar	9	9	0
2	Birgunj	9	9	0
3	Siddharthanagar	27	18	9
4	Nepalgunj	2	2	0
В	. Far western provi	nces (P7)		
5	Bheemdatt	11	3	8
6	Dhangadhi	6	2	4
7	Godawari	7	7	0
8	Suklaphanta	6	3	3
Total		77	53	24

9 SUMMARY OF KEY ISSUES AND REMEDIAL ACTIONS

The key issues of the project during this reporting period identified are as follows:

Dust emission and ambient air pollution

- o Use of PPEs, installation of sign boards, barricades and caution tape etc.
- o Timely management and dumping of excavated soil, installation of drain cover and construction materials.
- o Grievances record system.
- o Tool box talk before entering to the work sites.
- o No talk about environmental health and safety with the personals and workers.

These are the major environmental safeguards issues of the Project identified during this reporting period, the corrective actions recommended to be taken and the analysis of compliance are presented in Table below.

Table 14: Major environmental issues of the Project

SN	Key Issues	Corrective actions recommended to	Responsibil	Analysis of
		be taken	ity	Compliance
1.	Lack of proper and regular awareness to the labour and other staffs on use of PPEs.	Aware and orient to labours on use of PPE, health and safety issues and make it compulsory to use PPEs at the sites, supervise and monitor regularly. Contractor instructed to appoint a new Accident Prevention Officer to look after and monitor the Occupational Health, Environment and Safety matters regularly.	Contractor, DSC	Partially complied
	At most of the sites, negligence in use of PPEs including barricade, caution signs and signals was observed during construction.	Contractor enforced to place proper and sufficient, barricade, caution tape, sign boards and signals at construction sites	Contractor	Partially complied
2.	Dust emission and air pollution	Sprinkling of water has been carried out by contractor on road surfaces but not sufficient, Increase frequency of sprinkling water on construction sites and nearby other unpaved public roads used by transporting vehicles.	Contractor	Partially complied
3.	At few road sections, constructed side drains found open	Place immediately the drain cover slab in every completed drain sections	Contractor	Partially complied
4.	Grievances not maintained properly in the office record.	Any type of grievances to be recorded and maintained either through oral, telephonic, cell phones or written papers.	PIUs/RPIUs/ Contractors	Except Nepalgunj remaining maintained the records.

10 APPENDIXES

10.1 PHOTOS



Technical Audit checked OBC of Asphalt mix bituminous, Siddharthanagar



Monitoring all roads under RUDP by Monitoring team, Siddharthanagar



1st By-Pass, Preparation of Sub Grade and Sub-Base Work, Birgunj



Construction of RCC Storm Water Drain on progress, Birgunj



Base Course Finishing work at Karkanda Road, Nepalgunj



Conducting the Base Course Field Density test
- R6, Biratnagar



Brick work for road side drain at T3 Trunk (Sunhat to Tapariya eye Hospital), Biratnagar

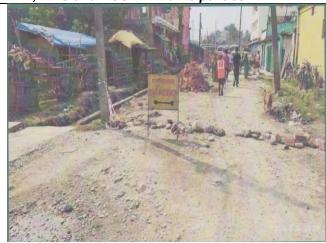


Group work on Urban Development Plan of Suklaphanta



Consultation Meeting on Environmental Safeguard attended by representative from PCO, ADB, PMC and DSC P-7 Municipalities

Road safety measures adapted at different roads





Road safety measures adapted at different roads

Safety engineer providing First aid tratment to injured labour,Biratnagar

10.2 ENVIRONMENTAL CHECKLIST

Proje	ct : RUDP	Site: Siddharth	anagar	Munio	cipalit	ty	Site Location: All Sites	
	Construction stage / status during inspection Drainage work / as per EMP					•	itle: Construction Of Siddharth oad, Footpath and Road Furniture. : RUDP/ICB/SN/4	anagar
Inspe	ection Date :	June 2019		Inspection Time: 10:00 AM				
Inspe	ected by :	Er					Weather: Sunny	
	Inspection Items		Implemented		ed?	N/A	Remarks(i.e. specify location, good practices, problem observed, possi	ble
	•		Yes No*) *		cause of nonconformity and/or pro corrective/preventative actions)	posea
Air P	ollution Control						,	
1.1.		truction sites ninimize dust	V				Sites stadium Road, Hatbazzar, I dumdumwa, Dev path, sewa Bhairabguan, Bimanghat, Path, e watered once or twice a day.	path,
1.2.	Are stockpiles materials (size v 20 bags cemer watered?	vith more than nt) covered or	V				Vicinity of materials stockpiled is co	vered
	Cement debag undertaken in sh	neltered areas		١			Carried out at open area	
1.4.	Are all vehicles loads covered/ prior to leaving t	watered over	$\sqrt{}$				All lorries carrying construction m are covered with Tripoli	aterials
1.5.	Are demolition watered? (e. activities by usin	g. trimming	V				PrabhatPath,Bimanghat,StadiumRePCC/RCC access to resident, slab	oad,etc Cover
1.6.	Are dusty roads sprayed with wa	ter?	$\sqrt{}$					
1.7.	Are dust confined percussive drill breaking?	-				\checkmark		
1.8.	Are plant and e maintained? (an observed, pleas plant/equipment	y black smoke e indicate the and location)	V				Equipment yard located at roa regularly maintained and black from asphalt plant is observed	
1.9.	Is dark smoke of plant?	controlled from	$\sqrt{}$				Pollution controlling device is functi	oning
	activities? (e.g. grout mixin	ust-generating g)	V				Enclosed with GI sheets	
1.11.	Hoarding (n provided along and properly madamage / open please indicate t	aintained (any ing observed,	V				Crusher plant and equipment yard with pre-casting yard has its provisi	

Project : RUDP	Site: Siddharth	anagar	Munici	pality		Site Location:	All Sites		
Construction stage / Drainage work / as pe		inspec	tion :	_	e, Ro	tle: Construction pad, Footpath and F RUDP/ICB/SN/4	ı Of Siddharthanagar Road Furniture.		
Inspection Date :		Inspection Time: 10:00 AM							
Inspected by :	Er		<u> </u>			Weather:	Sunny		
Inspection I	toms	Imple	mente		N/A	Remarks(i.e. spec	observed, possible		
-		Yes	No		/ A	cause of nonconformity and/or proposed corrective/preventative actions)			
1.12. Are speed con applied? (e.g. sign)	speed limit	V					working stretch like, at Path, Stadium Road, anghat, Etc.		
1.13. Others (please s	specify)						nd bamboo barriers are control, speed limit ,		
2. Water Pollution	Control			I		I .			
2.1. Are there any discharged to drains? Is the being treated?	the storm		V			Only kitchen w wastes are dischar	astes and bathroom ged at storm drains		
2.2. Are measures properly direct removal faci provide earth channels)	effluent to silt lities? (e.g.		V						
2.3. Are sandbags adopted to pre away of s wastewater to pit, public road a	event washing and/silt and drains, catch		V						
2.4. Are vehicles cleaned before site?	and plants e leaving the	V				II .	plants running from plant yard are always ng to the site		
2.5. Are wheel was well maintained overflow, flooding	d to prevent	V							
2.6. Is sand and silt wheel washin removed?		$\sqrt{}$							
2.7. Is the public roa the site entral hoarding kept of of muddy water	nce and site clean and free ?	V							
2.8. Is domestic wa septic tanks toilets?	or chemical		√						
2.9. Others (please s	specify)								

Proje	ect : RUDP	Site: Siddharth	anagar	Munic	ipalit	у	Site Location	on: All Site:	S
	struction stage / nage work / as pe		inspec	tion :	Draiı	•	tle: Construc oad, Footpath ar RUDP/ICB/SN/	ıd Road Fu	Siddharthanagar ırniture.
Inspe	ection Date :	June 2019			Insp	ection T	ime : 10:00 AM		
Inspe	ected by :	Er					Weather:		Sunny
	Inspection I	tems	Impler	nente	d?	N/A	Remarks(i.e. s practices, probl	em observ	ed, possible
	•		Yes	No) *		cause of nonco		nd/or proposed tions)
3.	Noise Control								
3.1.	Is the CNP Noise Permit) v during restricted					$\sqrt{}$			
3.2.	Are copies of Construction No posted at site er					V			
3.3.	Do air comp generators oper closed?	oressors and rate with doors	V						
3.4.	Is idle plant/equ off or throttled de		$\sqrt{}$				Turned off and yards	placed at	their respective
3.5.	Do air compress held breakers ha emission labels	ave valid noise	\checkmark						
3.6.	Any noise measures adop noise barrier / er	nclosure)?				V			
3.7.	Are silenced utilized?			١	1				
	Others (please s	,							
	Waste Managem				1		Damilan alaan:	: :	- ::
4.1.	Is the site kept of (e.g. litter housekeeping)	free, good	$\sqrt{}$						s is carried out te in the evening
4.2.	Are separate chinert and non-ine		$\sqrt{}$						
4.3.	Are separate containers / area facilitating recyc segregation?	as provided for				V			
4.4.	Are construction recyclable waste refuse remove regularly?	es and general ed off site	V				Stadium Road, path ,Kotamai p		
4.5.	Are construction collected and properly by collectors?	disposed of	V						

Proje	ct : RUDP	Site: Siddharth	anagar	Munio	cipali	ty		Site Location: All Sit	es
Construction stage / status during inspection					Contract Title: Construction Of Siddharthanagar Drainage, Road, Footpath and Road Furniture.				
Drainage work / as per EMP					Contract No: RUDP/ICB/SN/4				
Inspe	ection Date :	June 2019		Inspection Time : 10:00 AM					
Inspe	ected by :	Er						Weather:	Sunny
	Inspection Items		Impler	nente	d?		Remarks(i.e. specify location, good		
			Yes	No	o*	N/A	practices, problem observed, possible cause of nonconformity and/or proposed corrective/preventative actions)		
4.6.	Are chemical w collected and properly by collectors?	disposed of	V					Plant yard	,
4.7.	Does chem producer licens major chemi produced on site	se covers all cal wastes	V					·	
4.8.	Are chemical w stored and label		$\sqrt{}$						
4.9.	plants/equipmer with drip trays?	•	$\sqrt{}$						
4.10.	Are drip trays f water?	ree of oil and	√				Mai yar	intenance of these	is done at Plant
4.11.	Is there any Clean-up the soil immediately	contaminated	\checkmark				At F	Plant yard	
4.12.	Is litter, foar objectionable nearby water cleaned?	matters in	~						
4.13.	Are asbestos w by registered pro		\checkmark						
4.14.	Others (please s	specify)							
	Storage of Chen		gerous	Goo	ds				
5.1.	Does storage of with license (include types at DG store is average) the DG store lice	conditions nd quantities if ailable, check	V						
5.2.	control oil sp maintenance co other chemicals provide drip tray	or to control spillage? (e.g. s)	V						
5.3.	Are spill kits / sa used for absor spillage readily a	bing chemical	V						

Proje	ect : RUDP	Site: Siddharth	anagar	Municipali	ty	Site Location: Al	Sites
	struction stage / nage work / as pe		inspec	tion : Drai	•	tle: Construction oad, Footpath and Ro : RUDP/ICB/SN/4	Of Siddharthanagar ad Furniture.
Inspe	ection Date :	June 2019		Insp	ection T	ime : 10:00 AM	
Inspe	ected by :	Er		.		Weather:	Sunny
	Inspection Items		Impler	mented?	N/A	Remarks(i.e. specify practices, problem o	
			Yes	No*	N/A	cause of nonconformity and/or proposed corrective/preventative actions)	
	Others (please	· · · · · · · · · · · · · · · · · · ·					
	Protection of FI		l Histori	ical Herita	ge	T	
6.1.	Are disturbance		1				
	flora minimized	(e.g. plants to	\checkmark				
6.0	be preserved)?	. 4. 4					
6.2.	Are disturbance fauna minimiz			$\sqrt{}$			
	species identifie	`		V		Not Identified	
6.3.	Any historical					- Not Idonaliou	
		yes, ensure		.1			
	appropriate me	easures taken		$\sqrt{}$			
	to preserve it						
6.4.	Others (please	specify)					
7.	Resource Cons	ervation			I		
	Is water recyc	cled wherever	1				
	ls water recyc possible for dus		V				
7.1.		t suppression?	√ √				
7.1.	possible for dust Is water pipe wastage prevent Are diesel-power	t suppression? leakage and ated? ered plants and	√				
7.1.	ls water pipe wastage prevent Are diesel-power equipment shut	t suppression? leakage and ated? ered plants and off while not in					
7.1. 7.2. 7.3.	possible for dustiles water pipe wastage prevent Are diesel-power equipment shut use to reduce e	leakage and ated? ered plants and off while not in xcessive use?	√			- 1	
7.1. 7.2. 7.3.	ls water pipe wastage preven Are diesel-powe equipment shut use to reduce e Are energy practices adopted	leakage and ated? ered plants and off while not in accessive use? conservation ed?	√			Unused plants and to their respective ya	
7.1.7.2.7.3.7.4.	Is water pipe wastage prevent Are diesel-power equipment shut use to reduce e Are energy practices adopted Are metal or other shorts.	leakage and ated? ered plants and off while not in excessive use? conservation ed? ner alternatives	√ √			- 1	
7.1.7.2.7.3.7.4.	ls water pipe wastage preven Are diesel-powe equipment shut use to reduce e Are energy practices adopte Are metal or oth used to minimi	leakage and ated? ered plants and off while not in excessive use? conservation ed? ner alternatives	√ √			- 1	
7.1. 7.2. 7.3. 7.4. 7.5.	ls water pipe wastage preven Are diesel-powe equipment shut use to reduce e Are energy practices adopte Are metal or oth used to minimit timber?	leakage and ated? ered plants and off while not in excessive use? conservation ed? ner alternatives ize the use of	√ √			to their respective ya	ırds
7.1. 7.2. 7.3.	ls water pipe wastage preven Are diesel-powe equipment shut use to reduce e Are energy practices adopte Are metal or oth used to minimit timber?	leakage and ated? ered plants and off while not in excessive use? conservation ed? her alternatives ize the use of estored in good	\ \ \ \			- 1	
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7.1. 7.2. 7.3. 7.4. 7.5.	Is water pipe wastage prevent Are diesel-power equipment shut use to reduce et Are energy practices adopted Are metal or othe used to minimit timber? Are materials so condition to deterioration (e.g. covered, so Are pesticides to requirement contents to the state of the state	leakage and ated? ered plants and off while not in excessive use? conservation ed? ered alternatives ize the use of estored in good to prevent and wastage eparated)? used under the of Agriculture,	\ \ \ \		V	to their respective ya	ırds
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7.1. 7.2. 7.3. 7.4. 7.5. 7.6.	ls water pipe wastage prevent Are diesel-power equipment shut use to reduce et Are energy practices adopted Are metal or othe used to minimit timber? Are materials so condition to deterioration (e.g. covered, so requirement of Fishers and Department?	leakage and ated? leakage and off while not in ed? conservation ed? conservation ed? ner alternatives ize the use of estored in good to prevent and wastage eparated)? used under the of Agriculture, Conservation	\ \ \ \		√	to their respective ya	ırds
7.1. 7.2. 7.3. 7.4. 7.5. 7.6.	Is water pipe wastage prevent Are diesel-power equipment shut use to reduce et Are energy practices adopted Are metal or othe used to minimistimber? Are materials so condition to deterioration (e.g. covered, so Are pesticides to requirement of Fishers and	leakage and ated? ered plants and off while not in excessive use? conservation ed? ere alternatives ize the use of extored in good to prevent and wastage eparated)? used under the of Agriculture, Conservation expecify)	\tag{ \tau \tau \tag{ \tau \tau \tag{ \tau \tag{ \ta		√ V	to their respective ya	ırds

Proje	Project : RUDP Site: Siddharthanagar Muni					cipality Site Location: All Sites				
	truction stage / age work / as pe	inspec	tion :	Drai	nage, R		Construction Footpath and Ro DP/ICB/SN/4		Siddharthanagar urniture.	
Inspe	ction Date :	June 2019			Insp	ection T	ime	: 10:00 AM		
Inspe	cted by :	Er			I.			Weather:		Sunny
	Inspection I	tems	Implei	mente	ed?	N/A	pra	marks(i.e. specif ctices, problem o	bse	ved, possible
			Yes No*				ise of nonconforr rective/preventat		and/or proposed ctions)	
8.1.	Are fire ex fighting facilit maintained and Escape not obstructed?		V					antinagar Office,		
8.2.	Are accidents reported and recorrective & actions ider recorded?	reviewed, and	$\sqrt{}$				All	Sites		
8.3.	Are Workers personal Equipment like helmet etc?	protective	ctive _√							
8.4.	Is First Aid Kit Site?	maintained at	V							
8.5.	Others (please	specify)								

<u>Environmental Monitoring Format</u> 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: June 2019

	Checkl	list	
SN	Activity	Description/Present Status (Compliance/Partially Compliance/Non Compliance	Remarks/ Corrective actions for Non- Compliance
1 1.1	Training Health, Safety and EMP trainings and awareness	Yes	
1.2	Others awareness and skill trainings	No	
2 2.1	Occupational health and safety Insurance for workers	Yes	
2.2	Personal Protective Equipment (PPE) provided to labors and is using (helmet, facemasks, muffles, gloves, boots, jacket, goggles etc.)	Daily Provided	
2.3	Public notification Safety and warning signs and informative signboards in working sites for work safety	Yes Provided	
2.4	Use of barricades, caution tape and flag	Daily Used	
3	Campsite management	Judi, Keshaliya, Shanti	
3.1	Location	Chowk, Rani	5
3.2	First aid facilities available at camp and worksites		
3.3	Drinking water supply and sanitation facilities/ pit latrines	Yes	
3.4	Waste Disposal and Management facilities	Tap water/ Hand Pump Yes	
3.5	Type of fuel used for cooking	L.P.G	
4	Spoil and Construction material Management		77
4.1	Cut and fill balance maintained or not, Reuse of spoil materials	Cut & Fill balance maintained	
4.2	Use of safe spoil disposal locations	Not Applicable	
4.3	Distribunce to Pedestrian and traffic	No any disturbance to pedestrians & traffic	**

4.4	Use of private land and agreement with land owners	movement Yes	- h
5	Air, Noise and Water Pollution		
5.1	Dust emission and Noise pollution sites	Water sprinkled by tanker on such sites.	
5.2	Water quality monitoring result and locations	ok	
5.3	Block age of natural drainages ,water logging, drain water discharge into farmland/risky areas	Not Applicable	- 30
6	Quarrying of construction materials and Plants Installment		
6.1	Quarry/borrow operation sites	Not Applicable	
6.2	Crusher plant and Asphalt plant operation restoration	Asphalt Plant	
7	Impact/Disruption of Private properties		ne de la companya de
7.1	Building structures	Not Applicable	
7.2	Other utilities	Not Applicable	
8	Impact/disruption of public infrastructures		
8.1	Irrigation canal	Not Applicable	
8.2	Water supply pipe	Not Applicable	
8.3	Access road	Not Applicable	
8.4	Electric/Telephone pole		
8.5	Others	Not Applicable	
9	Sites for cultural and religious values	Not Applicable	
9.1	Cultural and religious sensitive spots (if any)	Not Applicable	
10	Forest and vegetation		
10.1	Number of trees removal	00	
10.2	No of tree plantation (Roadside)	Not Applicable	
11	Accident cases and records	No any records	
12 12.1	Employment to local people Men and women	Yes, both men and	
12.2	Child labor (if any)	No	
13	Establishment of Safeguard desk and meeting	Yes	
14	Grievances from local people and addressed	Yes	

