

ORIGINAL



Building Design Authority (P) Ltd

in joint Venture with

B.N. Consultancy Pvt. Ltd and

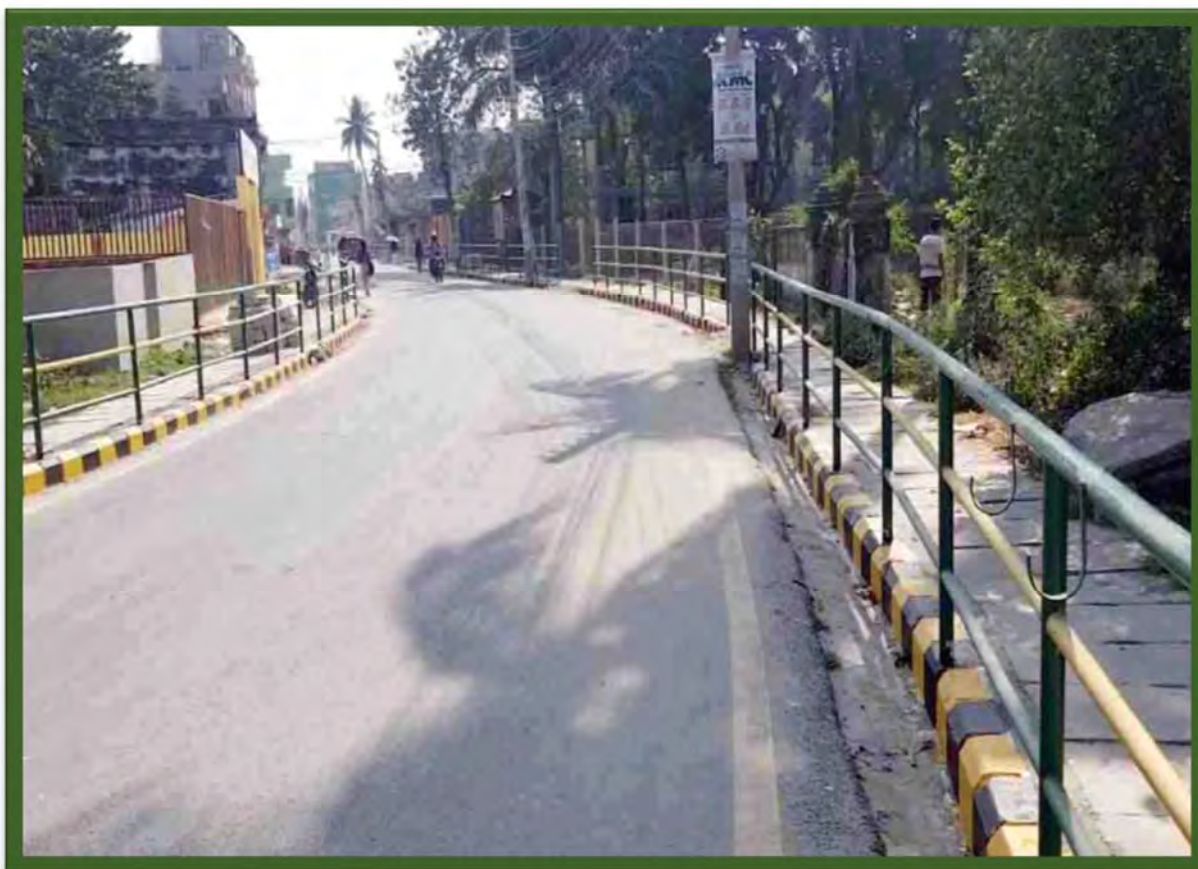
PLUSH Engineering & architects (P) Ltd, Kathmandu.

Monthly Progress Report

Regional Urban Development Project (RUDP)

Project Implementation Unit

Biratnagar, Nepal



February 2021

Biratnagar Metropolitan City (BMC), Nepal

Table of Contents

EXECUTIVE SUMMARY	III
1. PROJECT DESCRIPTION	5
1.1. INTRODUCTION/BACKGROUND	5
2. CONTRACT DATA: - RUDP/ICB/BRT/2	6
3. SUMMARY OF PROGRESS STATUS OF ALL MAJOR COMPONENTS	8
3.1. SUB PROJECT COMPONENTS	9
3.1.1 SEWER LINES	9
3.1.2 STORM WATER DRAIN	13
3.1.3 ROADS AND LANES	13
3.1.4 ROAD SIDE DRAIN	14
3.2. ENVIRONMENTAL ASPECT	14
3.2.1 BORROW/ QUARRY SITES	14
3.2.2 DISPOSAL OF SPOIL AND CONSTRUCTION WASTE	14
3.2.3 PROVISION AND MAINTENANCE OF TOILETS	16
3.2.4 CRUSHING PLANTS	16
3.2.5 ASPHALT PLANTS AND BATCHING PLANTS	16
3.2.6 OCCUPATIONAL HEALTH AND SAFETY MEASURES	17
3.3. SOCIAL ASPECT	17
3.4. SAFEGUARD/ GESI COMPONENT	18
3.4.1 COMMUNITY AWARENESS:	18
3.4.2 GRIEVANCE REDRESSES MECHANISM:	18
3.4.3 GENDER EQUITY AND SOCIAL INCLUSION (GESI):	18
3.4.4 STATUS OF SOCIAL AND ENVIRONMENTAL SAFEGUARD MEASURES	18
3.4.5 STATUS OF RELOCATION OF SERVICES	19
3.5. FINANCIAL PLAN	22
3.5.1 DISBURSEMENT RECORDS IN CONSTRUCTION	22
4. OBJECTIVES AND SCOPE OF WORKS	24
4.1. OBJECTIVES	24
4.2. SCOPE OF WORKS	24
4.3. ORGANIZATION AND STAFFING	25
4.4. CONSULTANT'S ACTIVITIES IN CONSTRUCTION PHASE	27
5. PROGRESS OF SUB – PROJECT COMPONENTS	29
5.1. CONSTRUCTION MATERIALS	29
5.2. PROGRESS ACHIEVED TILL DATE	29
5.3. KEYEVENTS	30
6. DETAILS OF PRE CAST ACTIVITIES	31
7. CONTRACTOR'S MANPOWER	34
8. CONTRACTOR'S EQUIPMENT	35



9. WORK PLAN FOR THE NEXT MONTH.....	36
ANNEX-1: PHOTOGRAPHS OF FEBRUARY 2021	37
ANNEX-2: MINUTES OF MEETING FEBRUARY 2021	40
ANNEX-3: LABORATORY TEST RESULTS OF FEBRUARY 2021	42
ANNEX – 3.A (WATER TEST REPORT)	84
ANNEX- 4: SOCIAL& ENVIRONMENT SAFEGUARD	89
ANNEX- 5: SOP HEALTH MONITORING FORMAT	100
ANNEX-6: S-CURVE	102
ANNEX-7: MASTER PLAN OF RUDP PROJECT.....	104



EXECUTIVE SUMMARY

This Project Monitoring Report mainly covers the Progress achieved in the component of Regional Urban Development Project (RUDP) in Biratnagar Metropolitan City, Nepal. The information has been provided in the following Chapters are mentioned below:

1. **Introduction/ Background-** It provide brief Account on the Project and its Background stating why, how and when the Project was started in Biratnagar Metropolitan City.
2. **Salient Feature of Contract Package: RUDP/ICB/BRT/2-** It provides brief Account of Contract Data with Major components of works to be carried out.
3. **Subproject Components-** It provides a brief Account on the various Sectors of the Project component summarizing the respective Progress such as Sewer Line, Storm Water Drain, Road side Drain, Roads and Lanes and Electrification Work if any. This Chapter further covers Environment Mitigation Measures and Social Safeguard measures.
4. **Objective and Scope of the Works-** This Chapter briefly describes the expected output of the Project and Scope of Consultant regarding execution of Work.
5. **Progress of Sub – Project Components-** This Chapter comprises the status of Work stating what kind of works are under Progress and how much Progress has been achieved till date. It further elaborates on the status of actual achievement versus the Targeted achievement till date. Sometimes, the project gets delayed due to unforeseen obstacles which are rampant in the case of Nepal. Such events are also enlisted to clarify the reason for delay in the project.
6. **Details of Pre Cast Activities-**In the urban area, as ongoing projects creates a lot of disturbances and difficulties in the life of the people living in the project area, the work has to be conducted in the speedy manner to finish it as soon as possible. Precast of the project components are the best alternative to overcome this issue and details of precast activities are provided in this chapter.
7. **Contractor's Manpower and Contractor's Equipment-** Chapter 7 and Chapter 8 deal with summary of Manpower and Equipment respectively stating whether Resources owned by the Contractor are sufficient for the execution of Contract.



1. PROJECT DESCRIPTION

1.1. INTRODUCTION/BACKGROUND

GoN has negotiated loan with Asian Development Bank for the Regional Urban Development Project (RUDP) in Nepal. The RUDP, in the line with ADB's water and urban operation plans, will construct and upgrade urban infrastructure in eight towns in the Terai Region of Nepal, improve operational effectiveness of these eight municipalities. The project will also build institutional capacity of DUDBC for urban planning, project planning and project preparation in order to proactively shape urbanization in Nepal and implement the National Urban development strategy. Biratnagar is one of the eight municipal towns included in the RUDP. The subcomponent of the RUDP covers the construction and improvement of sewerage, drainage and roads and design of Integrated Solid Waste Management System for Biratnagar Municipality. Building Design Authority (P) Ltd (Nepal), B.N. Consultancy Pvt. Ltd and PLUS Engineers & Architects (P) Ltd Kathmandu and have entered for a Contract of Consulting Services with Regional Urban Development Project(RUDP), Project Implementation Unit(PIU), Biratnagar Metropolitan City on 28th October 2017.

Regional Urban Development Project (RUDP) the Department of Urban Development and Building Construction (DUDBC), under the Ministry of Urban Development (MUD) through the Government of Nepal (GoN) has received the loan from Asian Development Bank (ADB) Loan 47252-NEP.

In line with ADB's Strategy 2020 and based on Nepal's fundamental long term needs and on the GoN's priority, the ADB is continuing to support the Government in(i) improving urban infrastructure; improving access to water supply and sanitation (ii) supporting urban environmental improvement(iii) strengthening the operation and management skills of local governments. The Regional Urban Development Project (RUDP) is forward to promote healthy cities by creating healthier urban environments and was formulated under the PPTA 2010.



2. CONTRACT DATA: - RUDP/ICB/BRT/2

General Features	
Name of Project	Regional Urban Development Project(RUDP)
Executing Agency	Government of Nepal,
	Ministry of Urban Development
	Department of Urban Development and Building Construction (DUDBC)
Implementing Agency	Biratnagar Metropolitan City, Biratnagar
Funded By	Asian Development Bank & Government of Nepal
Package	Construction and Completion of Sewerage, Drainage, Road, Footpath and Road furniture works
Contract No.	RUDP/ICB/BRT/2
Location	Biratnagar Metropolitan City, Biratnagar
<u>The Consultant:</u>	
Consultant	Building Design Authority (P) LTD in Joint Venture With B.N. consultancy Pvt and PLUS Engineers and Architects (P) Ltd Kathmandu.
Date of Sign of Design and Supervision Consulting Service	28 th August 2017
Date of Commencement of Design and Supervision Consulting Service	6 th September 2017
Date of Completion	5 th September 2020
Revised Date of Completion	12 th April 2022 including DNP & Final Discharge (recommended)
<u>The Contractor:</u>	
Contractor	ZHONGHENG Construction Group International Engineering Co Ltd. Beijing, China.
Date of Agreement Made	10 th October 2017
Date of Commencement	2 nd November 2017
Date of Completion	1 st November 2019
Revised Date of Completion	11 th February 2021
Contract Amount including PS and VAT	NRs. 2,611,092,249.63



General Features	
Contract Amount including PS and VAT (After arithmetic correction)	NRs. 2,611,088,390.60
Additional Financing 100% funded by BMC after VO-2 (provisional items)	NRs. 39,999,966.94
Revised Contract Amount including PS and VAT	NRs. 3,018,488,228.77 (excluding Additional Financing 100% funded by BMC NRs. 39,999,966.94).
Progress	
Road Rehabilitation (Asphalt)	100.00%
Sewer Line	100.00%
Storm Drain	100.00%
Road Side Drain	100.00%
Footpath/Interlock work	68.93%
Integrated Solid Waste Management (ISWM) Design	<p>Inception Report as well as Stakeholder's Analysis, Communication Strategy and Consultation Plan for Integrated Solid Waste Management (ISWM) has already been submitted.</p> <p>Due to Socio Environment Problem, Progress of Integrated Solid Waste Management (ISWM) design has been hindered.</p>
Physical Progress up to date	Planned: 100.00%, Actual: 99.00%; Lead (+) or Lag (-) by (-) 1.00 %;
Financial Progress up to date (<i>on the basis of IPC forwarded for disbursement</i>)	In Percentage: 91.32% , In Figure: NRs. 2,756,577,744.70 (including VAT and PS) up to IPC –21 wrt VO-3 .
	In Words: NRs. Two Billion Seven Hundred Fifty Six Million Five Hundred Seventy Seven Thousand Seven Hundred Forty Four and Seventy Paise Only.



3. SUMMARY OF PROGRESS STATUS OF ALL MAJOR COMPONENTS

S.No.	Description	Unit	Revised Quantity	Progress up to date	Remaining	Progress Status expressed in (%)	Remarks
1	Sewer Line						
a	HDPE/RCC	m	18,559.80	18,559.80	-	100.00%	
b	Manhole	No.	606.00	606.00	-	100.00%	
c	Sewer Inlet	No.	691.00	691.00	-	100.00%	
d	House Connection	No.	3,200.00	2,970.00	230.00	92.81%	
2	Storm Water Drain						
a	RCC Drain	m	585.00	585.00	-	100.00%	
b	Piles	No.	138.00	138.00	-	100.00%	
3	Road						
a	Subgrade	m	76,030.00	76,030.00	-	100.00%	
b	Sub base	m	76,030.00	76,030.00	-	100.00%	
c	Base	m	75,282.00	75,282.00	-	100.00%	
d	Prime	m	75,282.00	75,282.00	-	100.00%	
e	Asphalt	m	75,282.00	75,282.00	-	100.00%	
4	Road Side Drain	m	41,350.00	41,350.00	-	100.00%	
5	Footpath/Interlock work	sqm	45,086.39	31,077.95	14,008.44	68.93%	

Note:

Footpath/Interlock has been completed **29,125.00m** in length till the end of Feb 2021.



3.1.SUB PROJECT COMPONENTS

3.1.1 SEWER LINES

Trunk Line T1 & T2 were already completed in STIUEIP (Secondary Town Integrated Urban Environmental Improvement Project). But after various discussion, formal communication & meetings with representatives of BMC, PIU, representatives of Department of Road & representatives of six lane's contractor regarding timely execution and completion of rectification, raising, repair, maintenance, placement of missing CI covers and cleansing works of sewer system in N-S Highway (Six lanes) which damaged by the contractor of six lane highway. Yet no further progresses have been observed towards repair & maintenance works of sewer lines at N-S Highway which certainly have an effect on the successful completion of the project. Sewer lines under RUDP has been 100% completed and remaining SI & HCC works are in progress along with maintenance work of sewer lines, sewer inlet and house chamber connections as per instruction. Details of all major components of the project are as illustrated in Table – 1 and the Progress of sewer lines under RUDP are as tabulated below in Table-2:-



Table 1: PROPOSED ALL MAJOR COMPONENTS OF THE PROJECT

S. No.	Description	Unit	Revised Quantity
1	Sewerage Pipe Supply and Installation	m	18,559.80
	Reinforced Concrete Pipe laying and jointing		1,967.50
	Line T2 (Secondary)	m	205.00
	Line T3 (Trunk)	m	1,632.50
	Line T4 (Trunk)	m	130.00
	HDPE laying and jointing	m	16,592.30
	Line T1 (Secondary)	m	1,743.20
	Line T2 (Secondary)	m	3,153.40
	Line T3 (Secondary)	m	9,643.80
	Line T4 (Secondary)	m	2,051.90
2	Manhole (Brick / RCC)	no.	606.00
3	Sewer Inlet	no.	691.00
4	House Connection	no.	3,200.00
5	Reinstatement of Roads	km	75.282
6	Road side Drain	Km	41.35
7	Storm Water Drain	m	585.00

Table: - 2 PHYSICAL PROGRESS IN SEWER LINES till date

SN	Description	Revised Quantity		Up to Pre Month		This month		Total to date		Progress %
		Length (m)	Manhole (Nos.)	Length (m)	Manhole (Nos.)	Length (m)	Manhole (Nos.)	Length (m)	Manhole (Nos.)	
Hume Pipe:										
1	Hume pipe (T2)	205.00	6.00	205.00	6.00			205.00	6.00	
2	Hume pipe (T3)	1,632.50	25.00	1,632.50	25.00			1,632.50	25.00	
3	Hume Pipe (T4)	130.00	4.00	130.00	4.00			130.00	4.00	
Subtotal in (m)		1,967.50	35.00	1,967.50	35.00	-	-	1,967.50	35.00	
HDPE Pipe:										
1	HDPE (T1)	1,743.20	54.00	1,743.20	54.00			1,743.20	54.00	
2	HDPE (T2)	3,153.40	121.00	3,153.40	121.00			3,153.40	121.00	
3	HDPE (T3)	9,643.80	340.00	9,643.80	340.00			9,643.80	340.00	
4	HDPE (T4)	2,051.90	56.00	2,051.90	56.00			2,051.90	56.00	
Subtotal in (m)		16,592.30	571.00	16,592.30	571.00	-	-	16,592.30	571.00	
Total		18,559.80	606.00	18,559.80	606.00	-	-	18,559.80	606.00	100.00%



SN	Description	Revised Quantity	Up to Pre Month	This month	Total to date in Nos.	Progress %
1	Sewer inlet	691.00	564.00	127.00	691.00	100.00
2	House connection	3,200.00	2,719.00	251.00	2,970.00	92.81



3.1.2 STORM WATER DRAIN

The storm water drain CN2 and CN3 has been provisioned in Regional Urban Development Project (RUDP). The Contractor has already completed 100% of the Storm water drain works and is in full function. The detail of the progress is shown in the table 3:

Table: 3 PROPOSED and PHYSICAL PROGRESS in STORM WATER DRAINS till date.

SN	Name of Drain	Length in m				Length of Covered Drain in m	Remarks	
		Original	Revised Quantity	Progress				Cumulative
				Previous	This Month	Type- RCC, Closed		
1	CN2-CN3(Chyangh Baari Nala)	652.89	585.00	585.00		585.00	585.00	100% Completed
2	CN2-CN3 (Chyangh Baari Nala)	132 Nos. of piles	138 Nos. of piles	138 Nos. of piles		138 Nos. of piles		100% Completed

3.1.3 ROADS AND LANES

Most of the roads/lanes in Biratnagar are in a poor state due to lack of periodic maintenance, and need improvement where as some of the roads are graveled and would benefit from upgrading. In the areas where drainage and sewerage works are proposed, there will be significant impact on the existing roads. The Project has considered on design based on reinstatement, rehabilitation and upgrading of existing roads length 76.03 km. The summary of physical progress of flexible pavement, rigid pavement and foot paths are as below: -

SN	Description	Unit	Revised Length	Total Up to this Month	Progress	Remarks
1	Sub grade	m	76,030.00	76,030.00	100.00%	
2	Sub Base	m	76,030.00	76,030.00	100.00%	
3	Base	m	75,282.00	75,282.00	100.00%	
4	Prime/Tack	m	75,282.00	75,282.00	100.00%	
5	Asphalt	m	75,282.00	75,282.00	100.00%	
6	Paint	m	75,282.00	70,105.00	93.12%	Quantity = 27,984.00 Sq.m.
7	Rigid Pavement	m	210.00	210.00	100.00%	



3.1.4 ROAD SIDE DRAIN

Most of the roads under this project for upgrading is without drain or existing drain are in poor condition, on instruction from the employer at various stretches the construction works were ongoing and some of them have been completed. The project has provisioned drain at either sides or one side as per available RoW of the road. The progress for the drain works is as listed below:

Table No:-4a PROPOSED and PHYSICAL PROGRESS of Road side drain works till date.

Work Completed		Remarks
Brick	RCC	
m	m	
39,890.00	1460.00	Total = 41,350.00

3.2. ENVIRONMENTAL ASPECT

The environment has been defined to mean surrounding area including human and natural resources to be affected by execution and after completion of works. The Contractor shall take all precautions for safeguarding the environment during the course of the construction of the works. He shall abide by all prevalent laws, rules and regulations governing pollution and environmental protection mitigation measure specified in the latest publication of “Environmental Management Guidelines” published by the GoN and Projects Environmental management plan.

The Contractor shall prohibit employees from unauthorized use of explosives, poaching wildlife and cutting trees. The contractor shall be responsible for the action of his employees. Environmental protection works, among others, shall also include the following.

3.2.1 BORROW/ QUARRY SITES

The engineer shall have the power to disallow the method of construction and / or the use of borrow or quarry area, if in this opinion, the stability and safety of the works or any adjacent structure is endangered, or there is undue interference with the natural or artificial drainage or the method or use of area will promote undue erosion.

Since the contractor has made agreement with the owner of crusher plant for the supply of required materials from the crusher, no approval for quarry and borrow sites are required till date.

3.2.2 DISPOSAL OF SPOIL AND CONSTRUCTION WASTE

Material excess of the requirements for permanent works and unsuitable materials shall be disposed off in location at Madhumara Yard and in the manner as agreed with the Engineer. The location of disposal site shall be such as not to promote instability, destruction of properties and public service system. Exposed area of such disposal site shall be suitably dressed and be planted with suitable vegetation.

The contractor has already provided the safe tipping sites and the excess materials are dumped as per the approved tipped sites. Spoil and construction wastes are disposed at Madhumara site



similarly excess construction materials are stocked at Madhumara site and at the open space of north side of Degree College (Rani Site).

Provision for maintenance of Camps/Office/Stores/Equipment.

This section describes about the works related to maintenance and upgrading of labor camps, contractor's employees camp, contractor's site office, contractor's equipment store yards, contractor's equipment store yards, contractor's precast production yards. The camp should have the proper roofing system. Besides that, it should be spacious, should have proper circulation of the fresh air, should be hygienic, and should have proper electric lightening system & water supply system. It should be neat and clean.

Labor camps are provided at various locations as per requirement and these sites are frequently visited and monitored. The condition is found to be satisfactory. The details of the labor camps areas below:

S. No.	Location of Camp	Details	Remarks
1	Amar Tole, Biratnagar – 8	Three storey building in 2.5 Katha land with 5 Nos. of toilet with facilities mentioned in bullet No.: 3.2.3 of this report.	Have proper electric lightning system, water supply,
2	Panchali, Biratnagar – 11	<ul style="list-style-type: none"> ▪ Office space three & half storey building in 4.5 Katha land with 5 Nos. of toilet with facilities mentioned in bullet No.: 3.2.3 of this report. ▪ Staff quarter is of one storey building with 2 Nos. of Toilet with facilities mentioned in bullet No.: 3.2.3 of this report. ▪ Staff quarter is of three storey building but only one storey has been taken in rent, having 2 Nos. of Toilet with facilities mentioned in bullet No.: 3.2.3 of this report. 	Have proper electric lightning system, water supply,
3	Tinpaini, Biratnagar – 2	Three storey building having land area of 3 Katha with 5 Nos. of toilet and facilities in toilets are mentioned in bullet No.: 3.2.3 of this report.	Have proper electric lightning system, water supply,
4	Rani, Biratnagar – 15	<ul style="list-style-type: none"> ▪ Yard space in 10 Katha land with 4 Nos. of toilet with facilities mentioned in bullet No.: 3.2.3 of this report. ▪ Asphalt plant is having 2 Biggha land possess 6 Nos. of Toilet which are going to use by the 	Have proper electric lightning system, water supply,



S. No.	Location of Camp	Details	Remarks
		gangs of road workers fulfil the criteria mentioned in bullet No.: 3.2.3 of this report.	
5	Madhumara yard	Occupied area of 9 Katha	Have proper electric lightning system, water supply and toilets with facilities mentioned in bullet No.: 3.2.3 of this report.

3.2.3 PROVISION AND MAINTENANCE OF TOILETS

Provision of toilets for labor and employees shall be made to avoid public nuisance as well as pollution of water courses and air. The Contractor shall construct suitable septic tanks and soak pit along with rooms for pit type latrines. Sufficient water must be provided and maintained in the toilets.

Toilets have been provided at each labor camp. The contractor has been instructed to improve the toilet conditions where required. Toilets in all the camps are found to be in the acceptable condition.

3.2.4 CRUSHING PLANTS

Crushing plants shall be located away from the population centers, water intakes, and should not disturb the sensitive echo system. Suitable dust control device should be fitted with crusher to control emission of dust from plant. The crusher plant is located at around 42 km north-east of Biratnagar at a place called Chisyang.

Since the contractor has made agreement with the owner of crusher plant for the supply of required materials from the crusher, no approval for quarry and borrow sites are required till date certainly minimize the dust pollution.

3.2.5 ASPHALT PLANTS AND BATCHING PLANTS

Hot mix plant and batching plant shall be located away from the population centers. The Contractor shall take every precaution to reduce levels of noise, vibration, dust and emission from his plants. No Bituminous material shall be discharged in to drains, nearby trees vegetation; property shall be protected during spray of bitumen etc.

As the concrete quantity of the project is very minimal, there is no need of the separate batch plant for concrete mixing. However, as there are a lot of asphalt concrete works to be done in the project, a separate asphalt plant has been installed, especially for the project, at about 6 Km south of the Biratnagar DSC office at a place called Rani.



3.2.6 OCCUPATIONAL HEALTH AND SAFETY MEASURES

The contractor shall provide personnel protective equipment (PPE) (Helmet, Boots, masks, gloves, jacket, protective glasses etc.) to use. Public notification, safety and warning signs and informative signboards in working sites for work safety shall be provided. The DSC engineer and DSC Environmental safeguard expert supervise and monitor the use of PPEs and other necessary safety measures regularly.

The SOP for COVID-19 Risk Management at Workplace has already been approved by the Employer. The contractor has already been instructed for the implementation at workplace and sites as per approved SOP. The contractor has already procured and supplied goods as approved by the Employer.

The project is the environmental improvement project and mainly constitutes sewerage and drainage improvement works in BMC besides others. As per ADB guide-lines on Environmental Assessment requirements, this project is classified as Environment Category B. According to Environmental Protection Regulation-2054BS, First Revised (2055 BS) schedule-3, IEE is required for Operations of Sewerage Schemes under Schedule 1.h.2.e (pertaining to Rule3). The final report was submitted to MoUD on 14th May, 2013 and has already been approved.

Installation of functioning sewers and functioning drainage system including roads/lanes improvement in BMC does not possess any adverse environmental impacts to its surrounding. In fact, these will greatly enhance the living conditions/hygiene of the inhabitants and facilitate transportation. Nevertheless, it is imperative to look into positive as well as negative impacts of such infrastructure development works in the urban area.

Training and awareness program regarding health, safety and disease at Labour camps and yards on 3 and 4 March 2018 by Safety Prevention Officer Er. Dhiraj Sardar.

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

3.3.SOCIAL ASPECT

Regional Urban development Project (RUDP) in Biratnagar has implemented to improve the quality of life and help to achieve higher and more socially inclusive economic growth of people through effective, efficient, and reliable delivery of improved and affordable municipal services. Infrastructure development of drainage and sewerage system as well as roads and lane improvement are the major components of RUDP in Biratnagar Metropolitan City (BMC). Establishment and functioning of Social Safeguard Desk in PIU is a major milestone of social development aspect which has been effective to address all social/ community development issues and concerns with active initiation of the DSC. Local labors have been deployed in civil construction works (i.e. in Road side drain / Sub grading / Sub Base / Base works and production of precast items, etc.).The Engineer has issued the format of Social Safeguard Monitoring plan which is attached here with.



3.4.SAFEGUARD/ GESI COMPONENT

3.4.1 COMMUNITY AWARENESS:

Conduct regular Community Awareness Consultations within Project Areas to build awareness on Project Objectives, Activities and implementation during site observation, Monitoring and Meetings. Different site visit has been conducted during May, 2018 such as DDC Pre cast yard, Chyangbari Naala Biratnagar-16, Asphalt work at Sai Marg, Sewer Line construction work at Hanumandas Road and Asphalt Plant at Rani Site. Except of Minor, no any major conflict has been found during construction work. The visit was frequently conducted jointly with Environment Safeguard Expert and Social Safeguard Expert. Before commissioning of any works at any stretches, we paste the information templates at certain interval and provide sufficient information to the users regarding it.

3.4.2 GRIEVANCE REDRESSES MECHANISM:

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

3.4.3 GENDER EQUITY AND SOCIAL INCLUSION (GESI):

Activities related to GESI has been monitored and supervised in all Construction sites. During site visit female workers were found in significant minority (6 numbers) at Construction sites, thus Contractor was instructed as follow:

- i. Encourage to Local female Employment as Labor and skilled manpower.
- ii. Manage separate Camp and necessary facilities for female workers to encourage of female Employment. Camps and construction sites are regularly been monitored to find the status of working force.

3.4.4 STATUS OF SOCIAL AND ENVIRONMENTAL SAFEGUARD MEASURES

The present status to this regard has been reported as below:

During the site visit for Socio Environment monitoring by DSC Environmental and Social Safeguard Expert on date 1st, 2nd and 3rd December, 2018 following issues were found. Social Safeguard revisited the site on 29th, 30th and 31st December.

- i. Efforts are being made to control dust emission at construction site by sprinkling water. As personal safety was given prime importance, construction workers were made to use helmet, globe and jacket while on the construction site.
- ii. Besides that, special attentions were given on the placement of safety board and traffic signboards, safety tools, barricades, tapes, etc. and special care were taken to make sign



- boards big enough to make them visible from distant.
- iii. Taking into consideration of the fact that the involvement of the significant numbers of female as employee in ADB project is the main project objective of ADB, contractor paid especial attention to have a separate toilet and separate labor camp for female that facilitates and encourages female to get work in the construction field.
- iv. Significant improvement was found to be done in health and sanitation issues in the labor camp than in the previous monitoring visit; like, quality and quantity of drinking water was improved and condition of toilet was found to be enhanced. However, to meet the sanitation condition to predetermined level, further instructions were given by contractor to make provision for sufficient water in toilet and soap for hand-wash. Furthermore, yard in charge was suggested to have sufficient medications, bandages and other necessary first aid equipment's.
- v. Efforts are being made to control the spread of virus, TL, Mr. Chand strictly instructed to obey protocol of GoN & Local governance. Frequently, organizing the awareness program and training on how to fight against CORONA Virus (COVID-19). Emphasized on how to use PPE, physical distancing, managing workers before construction, security procedure at entry/exit, changing & shower, role & responsibilities of the employer, consultant & contractor and how to check the worksite & disinfect (Wakening us about to maintain distancing, wash hand frequently, how to stay at camp, to use sanitizer and wear mask to protect yourself).The contractor's submitted Standard Operating Procedures for COVID-19 Risk Management at Workplace SoP has already been approved and the procurement and supply of goods as per SoP has already been done.
- vi. Separate Isolation room in emergency, sanitizer, thermal gun for fever detection, oximeter etc are provided in Contractor's camp and Consultant's office.

The implementation of Social and Environmental Safeguard measures during this month were found partially satisfactory.

3.4.5 STATUS OF RELOCATION OF SERVICES

The supply has been providing temporarily as per site condition and where required. Summary of water supply are as tabulated below:

S.N.	Road Name	Pipe Size (Inch)	Pipe Length (m.)	Remarks
1	B1- Kanchanbari	1"	6.00	
		2"	619.00	
		4"	700.00	
		6"	34.00	
	Sub Total =		1,359.00	
2	T3L10E (Buddha marg)	2"	738.40	
	Sub Total =		738.40	
3	T3L10 (Dharma path)	2"	542.40	
		3"	106.70	
	Sub Total =		649.10	
4	T3L39 (Gaheli marg)	2"	324.00	



S.N.	Road Name	Pipe Size (Inch)	Pipe Length (m.)	Remarks
		Sub Total =	324.00	
5	T3L39A	2"	207.00	
		Sub Total =	207.00	
6	T3L39B	1.5"	210.00	
		Sub Total =	210.00	
7	T3L23C	2"	177.60	
		Sub Total =	177.60	
8	R21(Binayak marg & Prativa marg)	3"	122.70	
		6"	22.00	
		Sub Total =	144.70	
9	R29 (Santi marg)	4"	18.40	
		Sub Total =	18.40	
10	T3L21 (Moti marg)	2"	1,083.60	
		Sub Total =	1,083.60	
11	T3L22A (Indra marg)	2"	819.00	
		Sub Total =	819.00	
12	T3L22B	2"	273.50	
		Sub Total =	273.50	
13	T3L5(Sanihat marg)	3"	291.50	
		8"	19.20	
		Sub Total =	310.70	
14	R181	2"	396.00	
		Sub Total =	396.00	
15	T3 trunk (Sanihat to Devkota Chowk)	3"	2,364.30	
		Sub Total =	2,364.30	
16	T3trunk (Tinpaini to Hospital Chowk)	3"	3,008.00	
		Sub Total =	3,008.00	
17	T3L6 (Moti marg)	2"	317.30	
		Sub Total =	317.30	
18	T3L10F (Shiva marg)	2"	306.70	
		Sub Total =	306.70	
19	R24 (Prabhat marg)	2"	769.00	
		Sub Total =	769.00	
20	T3L18D	2"	160.00	
		Sub Total =	160.00	
21	R12(Shukra path)	2"	300.00	
		Sub Total =	300.00	
22	R6	2"	1,376.20	
		Sub Total =	1,376.20	



S.N.	Road Name	Pipe Size (Inch)	Pipe Length (m.)	Remarks
23	T1L16C (Panchali marg)	2"	408.00	
		4"	1.20	
	Sub Total =		409.20	
24	R3 Branch	2"	24.00	
	Sub Total =		24.00	
25	R5 (Chulachuli marg)	2"	483.00	
	Sub Total =		483.00	
26	R26 (Pasang marg)	2"	500.00	
	Sub Total =		500.00	
27	Keshaliya Road	3"	500.00	
		2"	480.00	
	Sub Total =		980.00	
	Total =		17,708.70	

Table – 5: Status of Labor at Site

Labour class	Labour		Composition		Ethnic composition				
	Skilled	Unskilled	Male	Female	Janjati	Dalit	Muslim	Madhesi	Brahmin/Chhetri
Local	17	37	54	0	8	0	10	36	0
Non local	47	147	194	0	35	34	10	115	0
Indian	3	12	15	0	0	0	12	3	0
TOTAL	67	196	263	0	43	34	32	154	0



3.5.FINANCIAL PLAN

The Sub-project cost will be disbursed in three years starting from FY2074/2075 to 2076/2077

3.5.1 DISBURSEMENT RECORDS IN CONSTRUCTION

Table – 6: DISBURSEMENT RECORDS in CONSTRUCTION

S.No.	Description	Submission date	Covering date	Submitted Amount(NRs)	Remarks
1	IPC 01	15 th October 2017		339,105,000.00	Mobilization Advance
2	IPC 02	2 nd April 2018	2 nd November 2017 to 31 st March 2018	261,501,492.21	
3	IPC 03	1 st July 2018	1 st April 2018 to 30 th June 2018	316,582,708.58	
4	IPC 04	1 st October 2018	1 st July 2018 to 31 st September 2019	105,227,887.16	
5	IPC 05	2 nd December 2018	1 st October 2018 to 30 th November 2018	95,951,603.44	
6	IPC 06	31 st January 2019	1 st December 2018 to 31 st January 2019	264,937,394.98	
7	IPC 07	12 th April 2019	1 st February 2019 to 31 st March 2019	308,805,662.97	
8	IPC 08	9 th May 2019	1 st April 2019 to 30 th April 2019	106,210,198.68	
9	IPC 09	10 th June 2019	1 st May 2019 to 31 st May 2019	90,419,375.33	
10	IPC 10	11 th July 2019	1 st June 2019 to 30 th June 2019	67,863,056.59	
11	IPC 11	30 th September 2019	1 st July 2019 to 30 th	95,296,297.30	



S.No.	Description	Submission date	Covering date	Submitted Amount(NRs)	Remarks
			September 2019		
12	IPC 12	3 rd November 2019	1 st October 2019 to 31 st October 2019	53,113,369.86	
13	IPC 13	30 th November 2019	4 th June 2019 to 30 th June 2019	125,965,923.87	
14	IPC 14	31 st December 2019	1 st December 2019 to 31 st December 2019	63,509,092.84	
15	IPC 15	4 th February 2020	1 st Jan 2020 to 31 st Jan 2020	232,027,037.24	
16	IPC 16	1 st March 2020	1 st Feb, 2020 to 29 th Feb, 2020	102,186,834.62	
17	IPC 17	1 st July 2020	1 st March, 2020 to 30 th June, 2020	153,448,663.15	
18	IPC 18	05 th Oct. 2020	1 st July, 2020 to 30 th Sep, 2020	90,563,317.45	
19	IPC 19	2 nd Dec. 2020	1 st Nov, 2020 to 30 th Nov, 2020	88,324,292.52	
20	IPC 20	17 th Jan 2021	1 st Dec, 2020 to 31 st Dec, 2020	70,349,421.43	
21	IPC 21	11 th Feb 2021	1 st Jan 2021 to 31 st Jan 2021	64,294,114.48	
Total amount excluding PA & Mobilization advance till date =				2,756,577,744.70	



4. OBJECTIVES AND SCOPE OF WORKS

4.1.OBJECTIVES

The following are the expected physical infrastructure improvement outputs of the project in Biratnagar:

- Drainage and sewerage systems improvement.
- Urban roads and lanes improvement.

Reference to the deliverables identified in the Project, indicates that there are a number of deliverables related specifically to the design aspects of the above infrastructure improvements with construction works.

4.2.SCOPE OF WORKS

The scope of works for consultant's services is fairly detailed in the TOR attached with contract Agreement. The main points are summarized below:

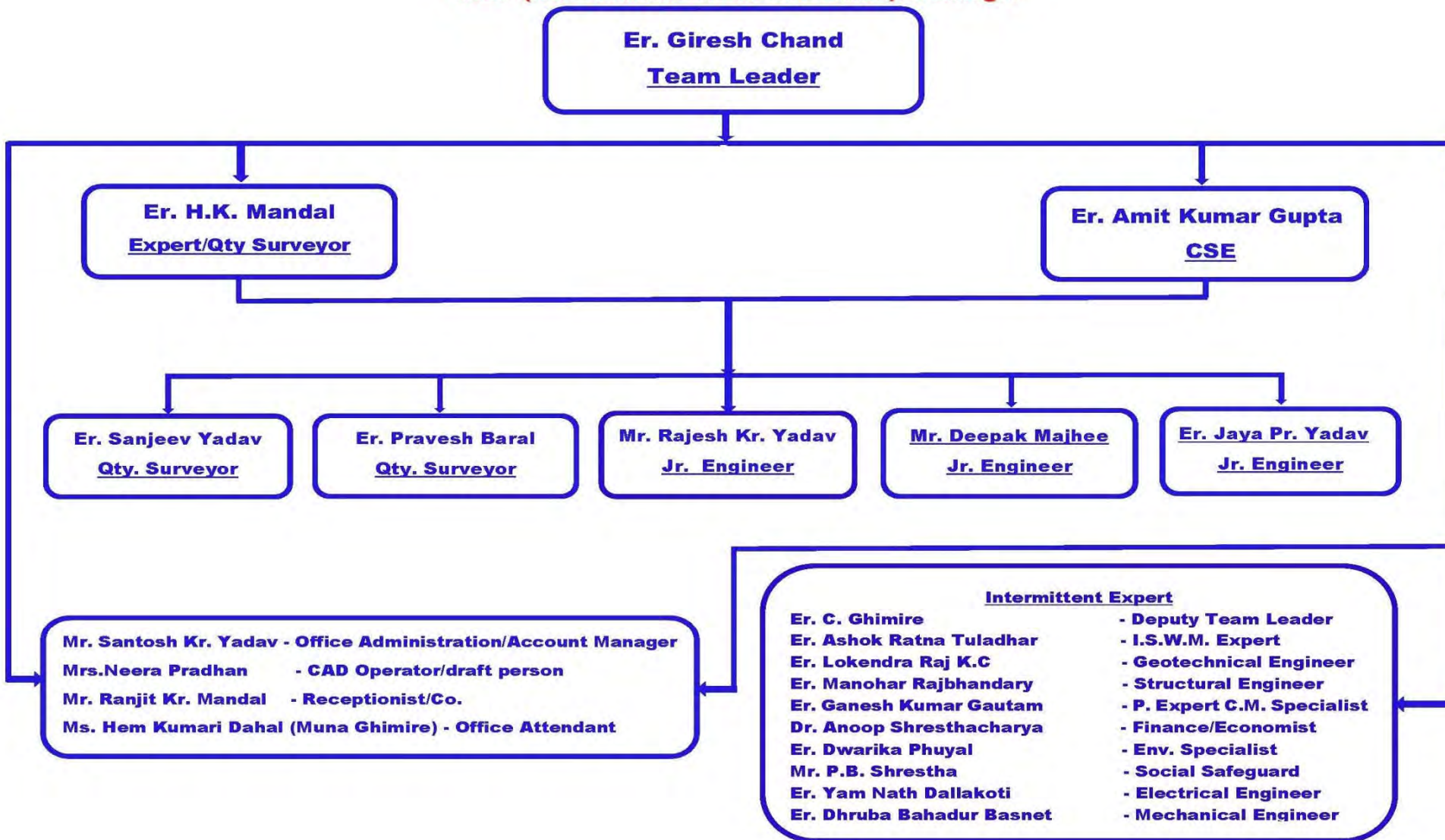
- Monthly progress report and quarterly progress report.
- Semi- annual Environmental monitoring report.
- Semi-annual Safeguard monitoring report.
- Annual progress report including annual Environmental / Social safeguard monitoring report, assets.
- Detailed draft final report for our inputs, including to assist the PIU (Employer), status of all supervision and construction works issues, all deliverables under the contacts.
- Sub project completion report, and summary of all other reports, progress and issues under the project.

4.3. ORGANIZATION AND STAFFING

Attached

ORGANIZATION CHART

RUDP (ADB Loan No - 47252 Site Office, Biratnagar)



4.4. CONSULTANT'S ACTIVITIES IN CONSTRUCTION PHASE

The current staffing of the consultant at project site is as follows:

Table 7: CONSULTANT'S STAFF at Project Site, Biratnagar

SN	Name	Designation	Joining date	Remarks
1	Mr. Giresh Chand	Team Leader	6 th Sep 2017	
2	Mr. Ashok Ratna Tuladhar	ISWM (Designer)	6 th Sep 2017	Intermittent
3	Mr. Dwarika Phuyal	Environmental Safeguard Expert	1 Nov 2017	Intermittent
4	Mr. Prakash Bhakata Shrestha	Social Safeguard Monitoring Expert	26 th Dec 2017	Intermittent
5	Mr. Hare Krishna Mandal	Expert/Quantity surveyor	1 st Nov 2017	
6	Mr. Amit Kumar Gupta	Construction Supervision Engineer	1 st March 2018	
7	Mr. Rajan Shrestha	CSE/Quantity Surveyor	7 th Nov 2017	Working as CSE from 1 st May 2019, already resigned which will be effective from 1 st Jan 2021.
8	Mr. Rajesh Kumar Yadav	Junior Engineer-1	6 th Sep 2017	
9	Mr. Sanjeev Yadav	Qty. Surveyor	5 th Nov 2017	
10	Mr. Santosh Kumar Yadav	Office Administration/Account Manager	6 th Sep 2017	
11	Mr. Hem Kumari Dahal (Muna Ghimire)	Office Attendant	6 th Sep 2017	
12	Mr. Ranjit Kumar Mandal	Receptionist	10 th Dec 2017	
13	Mr. Pravesh Baral	Junior Engineer-2	10 th Dec 2017	
14	Mr. J.P Yadav	Junior Engineer-3	1 st March 2018	
15	Mr. Deepak Majhee	Junior Engineer-4	1 st March 2018	
16	Mrs. Neera Pradhan	CAD operator/Draft Person	10 th Dec 2017	
17	Mr. Youb Raj Poudel	Driver	10 th Feb 2019	



The consultant has been constantly supervising the contractor's work in daily basis. The consultant is mainly focusing in construction management, contract administration and the following activities but not limited as listed below:

- i. Daily Construction supervision/Surveying works etc.
- ii. Quality control, cost control and time control
- iii. Measurement and Certification of Interim Payment Certificates (IPC)
- iv. Modification and design of Road side drain, storm drainage and sewer lines, manholes etc. as per site condition and approve working drawings as discussed/advised by employer.
- v. Supervise construction material testing and sampling
- vi. Monitor Environment Management Plan and its compliance
- vii. Monitor Social safeguard and Resettlement Plan and its compliance
- viii. Prepare Due Diligence Report of the Project
- ix. Maintain correspondences with the Employer and the Contractor
- x. Assisting PIU



5. PROGRESS OF SUB – PROJECT COMPONENTS

5.1.CONSTRUCTION MATERIALS

Before using any construction material in the project, as per clause 7.3, engineer gave prior notice to contractor for joint inspection of the construction materials and all materials have been jointly checked and verified. Team leader issued letter to contractor to do the lab test of the construction materials from the authorized organizations and lab reports of the tested materials have been submitted by contractor. Engineer has emphasized on the production of the pre-cast item like (Kerb stone, drain cover slab, etc.) for better work progress of the project. The Contractor has established two production yards at Koshi project and Madhumara camp for pre-cast items like Kerb stone, drain cover slab, sewer precast elements, etc. Only Production at Koshi project yard is going on.

The Contractor has informed to borrow RCC NP-3 pipes from Itahari Hume pipe factory or other location and also requested for three Edge bearing test. It has been tested in presence of consultant TL, PIU and contractor representative, as construction of sewer lines are completed so no more RCC NP-3 pipes needed.

5.2.PROGRESS ACHIEVED TILL DATE

Month	Target This Month		Achievement This Month		Leading		Lagging		Remarks
	Monthly	Accumulated	Monthly	Accumulated	Monthly	Accumulated	Monthly	Accumulated	
July-18	0.15%	25.17%	0.78%	25.18%	0.63%	0.01%			Leading
August-18	0.15%	25.32%	2.32%	27.50%	2.17%	2.18%			Leading
September-18	5.71%	31.03%	1.22%	28.72%				-2.31%	Lagging
October-18	7.72%	38.75%	2.30%	31.03%				-7.72%	Lagging
November-18	7.72%	46.47%	5.20%	36.22%				-10.25%	Lagging
December-18	7.95%	54.41%	3.40%	39.62%				-14.79%	Lagging
January-19	7.96%	62.37%	5.65%	45.27%				-17.10%	Lagging
January-19	7.96%	70.33%	5.11%	50.38%				-19.95%	Lagging
January-19 (after Revision)	5.33%	50.03%	5.11%	50.38%		0.35%			Leading
March -19	7.75%	57.77%	7.84%	58.21%		0.44%			Leading
April-19	6.82%	64.59%	4.53%	62.74%				-1.85%	Lagging
May-19	6.49%	71.08%	4.54%	67.28%				-3.80%	Lagging
June-19	3.95%	75.03%	2.05%	69.33%				-5.70%	Lagging
July-19	3.90%	78.93%	2.19%	71.52%				-7.41%	Lagging
August-19	4.97%	83.90%	2.01%	73.53%				-10.37%	Lagging
September-19	7.45%	91.35%	4.97%	78.50%	NA	NA	-2.48%	-12.85%	Lagging
October-19	8.56%	99.91%	1.14%	79.64%	NA	NA	-7.42%	-20.27%	Lagging
November-19	0.09%	100.00%	0.33%	79.97%	0.24%	NA	NA	-20.03%	Lagging



Month	Target This Month		Achievement This Month		Leading		Lagging		Remarks
	Monthly	Accumulated	Monthly	Accumulated	Monthly	Accumulated	Monthly	Accumulated	
December-2019 (after Revision-2)	5.00%	72.98%	5.14%	73.12%	0.14%	0.14%	NA	NA	Leading
January-20	6.00%	78.98%	10.62%	83.74%	4.62%	4.76%	NA	NA	Leading
January-20	6.70%	85.68%	1.48%	85.22%	NA	NA	-5.22%	-0.46%	Lagging
March-20	6.80%	92.48%	1.67%	86.89%	NA	NA	-5.13%	-5.59%	Lagging
April-20	7.00%	99.48%	0.00%	86.89%	NA	NA	-7.00%	-12.59%	Lagging
May-20	0.52%	100.00%	0.86%	87.75%	0.34%	NA	NA	-12.25%	Lagging
June-20			1.15%	88.90%					
July-20			0.84%	82.97%					wrt VO-2
August-20			0.14%	83.11%					
September-20	5.00%	88.11%	2.94%	86.05%			-2.06%	-2.06%	
October-20	3.00%	91.11%	1.05%	87.10%			-1.95%	-4.01%	
November-20	5.82%	96.93%	1.59%	88.69%			-4.23%	-8.24%	
December-20	3.07%	100.00%	3.04%	91.73%			-0.03%	-8.27%	
January - 21	5.17%	96.90%	5.18%	96.91%	0.01%	0.01%			Wrt VO-3
Feb 2021	3.10%	100.00%	2.09%	99.00%			1.01%	1.00%	

5.3. KEYEVENTS

The consultant has noted the following key dates for this month.

Table 8: KEY DATES of EVENTS / ACTIVITIES

S. No.	Date	Activities/Events	Remarks
1		As usual frequent site visit from the employer & PIU's representatives.	
2		The cost claim has been determined and recommended by DSC for further action to PIU.	
3		Revised EOT and VO-4 of the consultant (DSC) has been approved.	
4	11 th Feb 2021	Chaired meeting at PIU, Office, Biratnagar	
5		According to GCC/PCC Clause 10.1 towards issuance of Taking over certificate to the contractor on his request, minor outstanding & defect lists are already prepared jointly and Engineer's assessment Report has been submitted to The employer / PIU for their concurrence.	
6		Draft Project Completion Report will be submitted soon.	
7		Draft As Built Drawing report has been submitted by the contractor on 10 th Feb 2021 which is under scrutiny.	



6. DETAILS OF PRE CAST ACTIVITIES

Table 9: PHYSICAL PROGRESS in PRODUCTION OF PRECAST ITEMS till date,

Physical Progress till date							
S.N.	Description	Unit	Progress			Total to Date (RM.)	Remarks
			BoQ	Up to Previous month (RM.)	This Month (RM.)		
1	Precast Slab	No		97,101.00	500.00	97,601.00	Under progress
2	Kerb Stone	Rm	127,247.02	104,290.80		104,290.80	81.95%

Table 10: PHYSICAL PROGRESS in PRODUCTION/PURCHASE OF RCC Hume Pipe at Itahari till date,

Physical Progress till date							
S.N.	Description	Diameter (mm)	Progress			Total to Date (RM.)	Remarks
			BoQ (RM)	Up to Previous month (RM.)	This Month (RM.)		
1	RCC Pipe	300	336.00	336.00	-	336.00	
2	RCC Pipe	450	681.00	681.00	-	681.00	
3	RCC Pipe	500	842.00	842.00	-	842.00	
4	RCC Pipe	600	382.00	382.00	-	382.00	



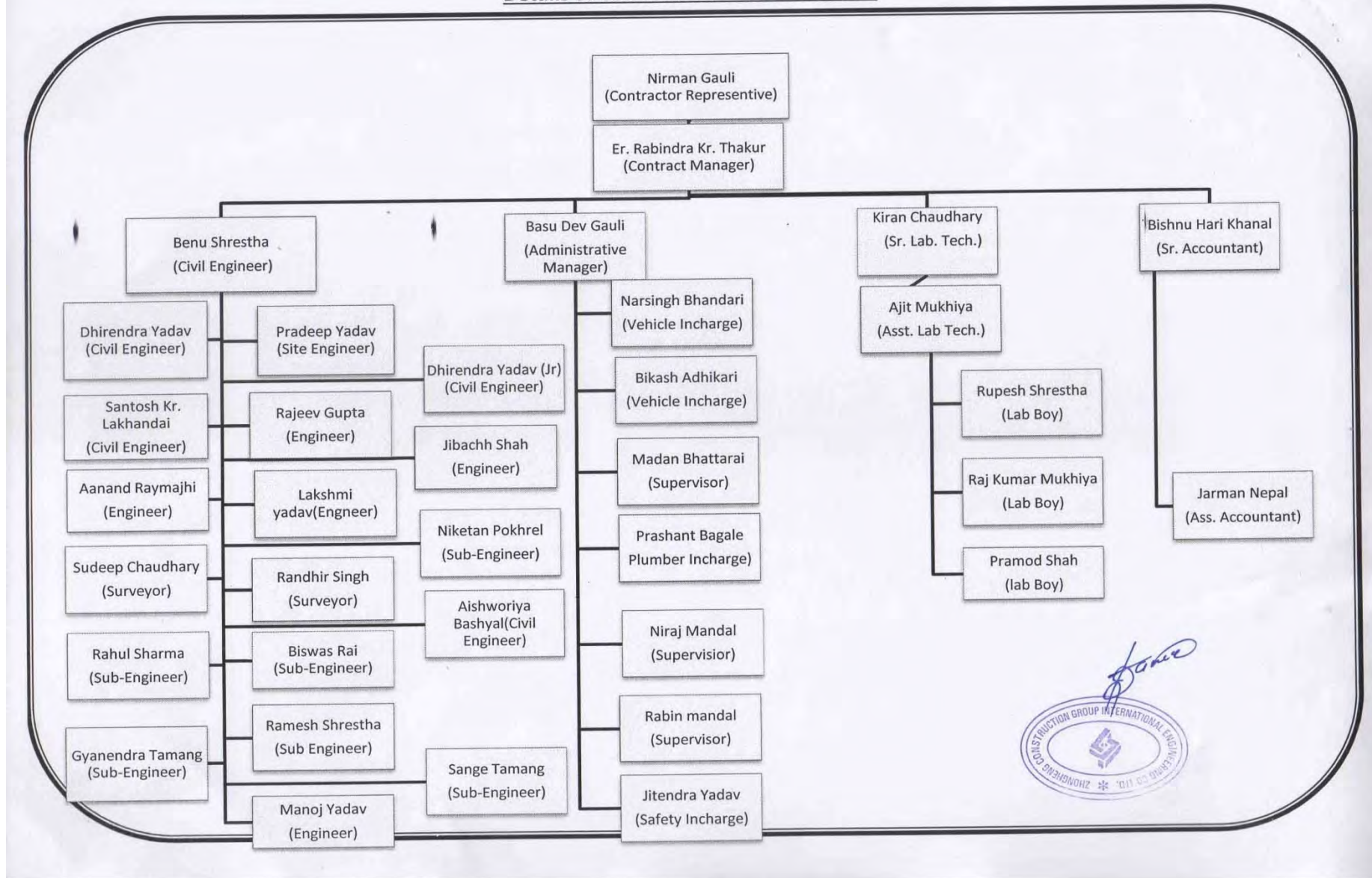
Table 11: PHYSICAL PROGRESS in PRODUCTION/PURCHASE OF HDPE Pipe till date.

<i>Physical Progress till date</i>							
<i>S.N.</i>	<i>Description</i>	<i>Diameter (mm)</i>	<i>Progress</i>			<i>Total to Date (RM.)</i>	<i>Remarks</i>
			<i>BoQ (RM)</i>	<i>Up to Previous month (RM.)</i>	<i>This Month (RM.)</i>		
1	HDPE Pipe	110.00	1,987.20	4,487.20	-	4,487.20	
2	HDPE Pipe	200.00	16,656.00	16,500.00	-	16,500.00	
3	HDPE Pipe	250.00	115.00	450.00	-	450.00	

Table 12: PHYSICAL PROGRESS in PRODUCTION/PURCHASE OF UPVC Pipe till date.

<i>Physical Progress till date</i>							
<i>S.N.</i>	<i>Description</i>	<i>Diameter (mm)</i>	<i>Progress</i>			<i>Total to Date (RM.)</i>	<i>Remarks</i>
			<i>BoQ (RM)</i>	<i>Up to Previous month (RM)</i>	<i>This Month (Rm.)</i>		
1	UPVC Pipe	160.00	5,050.00	5,050.00		5,050.00	
2	UPVC Pipe	110.00	5,050.00	5,050.00		5,050.00	

Details of Contractor's Site Personnel's



7. CONTRACTOR'S MANPOWER

Table 13: CONTRACTOR'S KEY STAFFS.

S.No.	Position	Minimum Number Required as per Contract	ZHONGHENG CONSTRUCTION Group	Remarks
1	Project/Contract Manager (1 No) 15/10 Yrs. (Total/Similar Exp.)	1	1	
2	Civil Engineer-10/6	2	2	
3	Sanitary Engineer- (1no.)-12/8	1	-	
4	Road Engineer-(1no.)-12/8	1	1	
5	Electromechanical Engineer-(1no)- 10/5	1	-	
6	Safety Engineer/In charge	-	1	
7	Site Engineer	-	3	
8	Sub- Engineer/Surveyor	-	4	
9	Accountant	-	2	
10	Senior Lab Technician	-	1	
11	Lab Technician		2	
12	Store Keeper	-	1	
13	Vehicle In charge	-	1	
14	Skilled Labors		67	
15	Unskilled Labors		196	



8. CONTRACTOR'S EQUIPMENT

Table 14: CONTRACTOR'S EQUIPMENT

S.No.	Equipment Type and Characteristics	Min Number required as per Contract	ZHONGHENG CONSTRUCTION Group	Remarks
1	Excavator (200 above)	5	0	Backhoe loader - 4Nos.
2	Crane (10 ton capacity)	3	1	
3	Asphalt plant of adequate capacity	1	1	
4	Asphalt pavers	1	1	
5	Vibrating roller	2	2	
6	Pneumatic tyre roller 8 to 10 ton	2	1	
7	Smooth wheeled roller 8 to 10 ton	1	2	
8	Grader	1	2	
9	Track Dozer (120 to 180 HP)	1	-	
10	Bitumen distributor (4 to 6 Kilo Liters)	1	1	
11	Water browser (minimum 5000 Liters)	3	6	
12	Chips spreader	1	-	
13	Bitumen decanter minimum 4000 Liters. (preheating container)	2	2	
	Air compressor	2	2	
14	Tipping Trucks	5	1	Tipper-3
15	Service vehicle	15	3	Tractor = 12 Nos.



S.No.	Equipment Type and Characteristics	Min Number required as per Contract	ZHONGHENG CONSTRUCTION Group	Remarks
16	Survey equipment (Total station with accessories)	2	1	
17	Theodolite	1	-	
18	Levelling	2	5	
19	Mobile Generator 15-20 KVA	5	6	
20	Mixer Machine	3	5	
21	Concrete Batching Plant	1	-	
22	Concrete pump	1	-	
23	Drain cleaner/ Nala cleaner	2	-	
24	Broomer	-	2	
25	Motor Bike	-	12	
26	Plate Compactor	-	5	
27	Water Pump	-	4	

9. WORK PLAN FOR THE NEXT MONTH

Following are the Contractor's works in the next month program.

- Joint measurement, preparation and verification of As Built Drawings.
- Precast elements production works at contractor's yard.
- Road Side drain maintenance work
- Laying of Kerb Stone, cover slab and interlocking tiles.
- Painting work
- Placement of House Connection works.
- Relocation of water supply works.
- Repair & Maintenance works according to Outstanding & defect lists, etc.



ANNEX-1: Photographs of February 2021





Culvert at Keshaliya road Canal



Culvert at Keshaliya road Canal



Zebra Crossing at Devkota Chowk



Road R109

ANNEX-2: Minutes of Meeting February 2021



Minutes of Meeting – RUDP, Biratnagar

MINUTES OF MEETING

Contract: Regional Urban Development Project (RUDP), Biratnagar, RUDP/ICB/BRT/2, ADB Loan No: 47252-NEP

Date: 11th February 2021

Time: 11: 00AM

Venue: PIU Office, Biratnagar

Attendance

Employer:		
1	Mr. Bharat Kumar Neupane	Project Manager (PM), PIU
2	Mr. Prakash Narayan Chaudhary	Deputy Project Manager (DPM), PIU
3	Mr. Ghanashyam Kafley	Project Engineer, PIU
4	Mr. Anil Singh	Electrical Engineer, PIU
5	Mr. Mister K.C.	Account Officer, PIU
Contractor:		
1	Mr. Ravindra Kumar Thakur	CM, M/S Zhongheng Construction Group International Engineering Co. Ltd.
Consultant:		
1	Mr. Giresh Chand	TL, DSC
2	Mr. Amit Kumar	CSE, DSC
3	Mr. Hare Krishna Mandal	Quantity Surveyor/Expert, DSC

The meeting was chaired by PM, Mr. Bharat Kumar Neupane and he welcomed all the participants in the meeting. Following matters were discussed and decided:

S. NO.	Minutes	Action by
1	<p>TL, Mr Chand informed that the contractor M/S ZHONGHENG Construction Group International Engineering Co Ltd. Beijing, China has requested for Taking Over Certificate (TOC) via his letter refⁿ No.: 289-RUDPBRT-2017/18 on 8th Feb 2021 according to GCC/PCC Sub - Clause No.: 10.1. And till date about 97% of physical progress achieved.</p> <p>PM, Mr Neupane advised to initiate the process of issuance of TOC as per the contract. Prepare the lists of outstanding as well as defects in the presence of representatives of PIU.</p> <p>TL, Mr Chand requested that arrange for site visit by all the three parties (PIU, The contractor & DSC) to verify/check the works and to proceed as per contract toward issuance of TOC.</p>	The employer, contractor & consultant

ANNEX-3: Laboratory Test Results of February 2021













[illegible]







Summary Sheet of Field Density Test

Approved By
Team Leader
Giresch Chand

Biratnagar Metropolitan City
Contract No:- RUDP/ICB/BRT-02
Summary Sheet of Monthly Test Report

Location:-T3L26E

[illegible]



Biratnagar Metropolitan City
Contract No:- RUDP/ICB/BRT-02

Summary Sheet of Monthly Test Report

[illegible]

Spec. Limit:

Consultant

BUILDING DESIGN AUTHORITY (P) LTD IN JOINT VENTURE WITH B.N. CONSULTANCY
PVT. LTD AND PLUS ENGINEERS & ARCHITECTS (P) LTD, KATHMANDU, NEPAL

ZHONGCHENG CONSTRUCTION GROUP INTERNATIONAL
ENGINEERING CO., LTD.

Approved By
Team Leader
Gireesh Chand

Verified By
Expert Qty Surveyor
H.K. Mandal

Submitted By
Contract Manager
Rabindra Kr. Thakur

Checked By
Engineer
Dhirendra yadav

Summary Sheet of Field Density Test

Location:-R-108







Summary Sheet of Monthly Test Report

Summary Sheet of Field Density Test

Month	February
Year	2021
Type of Material	Sub-Base

<p>Contractor</p> <p>ZHONGHENG CONSTRUCTION GROUP INTERNATIONAL ENGINEERING CO. LTD</p>	<p>Consultant</p> <p>BUILDING DESIGN AUTHORITY (P) LTD IN JOINT VENTURE WITH B.N CONSULTANCY PVT. LTD. AND PLUS ENGINEERS & ARCHITECTS (P) LTD, KATHIMANDU, NEPAL</p>
<p></p> <p>.....</p> <p>Checked By Engineer</p> <p>Dhirendra Yadav</p>	<p></p> <p>.....</p> <p>Submitted By Contract Manager</p> <p>Rabindra Kr. Thakur</p> <p></p> <p>.....</p> <p>Verified By Expert Qty Surveyor</p> <p>H.K. mandal</p> <p></p> <p>.....</p> <p>Approved By Team Leader</p> <p>Giresh Chand</p>








Biratnagar Metropolitan City

Contract No:- RUDP/ICB/BRT-02

Summary Sheet of Monthly Test Report

[illegible]

<p style="text-align: center;">  ZHONGHENG CONSTRUCTION GROUP INTERNATIONAL ENGINEERING CO., LTD </p>	<p style="text-align: center;">Consultant</p> <p style="text-align: center;"> BUILDING DESIGN AUTHORITY (P) LTD. JOINT VENTURE WITH B.N. CONSULTANCY PVT. LTD AND PLUS ENGINEERS & ARCHITECTS (P) LTD, KATHIMANDU, NEPAL </p>
<p style="text-align: center;">  Checked By Engineer Ohrendra Yadav </p>	<p style="text-align: center;">  Submitted By Contract Manager Rabindra Kr. Thakur </p>
<p style="text-align: center;">  Verified By Expert Qty Surveyor H.K. Mandal </p>	<p style="text-align: center;">  Approved By Team Leader Gireesh Chand </p>





REGIONAL URBAN DEVELOPMENT PROJECT

Biratnagar Metropolitan City

Contract No: RUDP/ICB/BRT-02

Summary Sheet of Monthly Test Report

Location:-Keshaliya Road

Summary Sheet of Material Test Results																								
S.N.		Lab. Ref no.	Location of Sample	Source of Sample	Date of Testing	Sieve Size in mm / % passing By Weight							MDD	OMC	PI%	Type of Material			Base		Month Year	February 2021		Remarks
						40	31.5	20	10	4.75	2.36	0.600	0.075				L.A.A. %	FI and EI %	A.I.V. %	CR %	CBR %			
1	RUDP-B-01	Keshliya Road,(0+060)	Chisang Khola	1-Feb-21	100	89.33	65.52	55.70	43.51	33.96	20.17	5.31	0.075	2.252	5.25	NP	30.40	19.44/17.48	21.47	82.85	81.20			
2	RUDP-B-02	Keshliya Road,(0+150)	Chisang Khola	1-Feb-21	100	90.45	70.40	46.72	37.77	27.88	19.06	6.35						20.89/16.22						
3	RUDP-B-03	Keshliya Road,(0+210)	Chisang Khola	1-Feb-21	100	91.16	72.15	52.22	39.41	26.68	15.76	7.28						22.96/21.62						
4	RUDP-B-04	Keshliya Road,(0+300)	Chisang Khola	1-Feb-21	100	87.47	65.64	53.27	41.20	31.64	21.27	7.75						23.15/20.66						
5	RUDP-B-05	Keshliya Road,(0+360)	Chisang Khola	2-Feb-21	100	88.68	67.69	56.38	39.07	31.21	18.47	7.31				NP		21.02/20.20						
6	RUDP-B-06	Keshliya Road,(0+480)	Chisang Khola	2-Feb-21	100	89.05	68.59	57.82	40.56	32.30	17.95	7.36						18.25/17.23						
7	RUDP-B-07	Keshliya Road,(0+550)	Chisang Khola	2-Feb-21	100	89.51	68.63	57.63	41.74	26.54	14.18	6.08						20.92/21.07						
8	RUDP-B-08	Keshliya Road,(0+610)	Chisang Khola	2-Feb-21	100	87.58	70.94	55.82	41.89	26.69	14.37	6.16						22.79/17.84						82.05
9	RUDP-B-09	Keshliya Road,(0+700)	Chisang Khola	3-Feb-21	100	88.77	66.54	54.57	44.23	32.22	14.82	6.54	2.250	5.75				22.16/18.24						
10	RUDP-B-10	Keshliya Road,(0+790)	Chisang Khola	3-Feb-21	100	91.75	71.88	57.13	44.16	28.63	14.90	3.92						19.87/20.09						
11	RUDP-B-11	Keshliya Road,(0+840)	Chisang Khola	3-Feb-21	100	93.46	73.19	58.28	47.64	31.72	18.24	8.29												
Spec. Limit :					100	85-100	62-92	40-70	26-55	21-53	12-28	2-10						<45	<35	<35	>80	>80		

Consultant

BUILDING DESIGN AUTHORITY (P) LTD IN JOINT VENTURE WITH
B.N. CONSULTANCY PVT.LTD AND PLUS ENGINEERS &
ARCHITECTS (P) LTD, KATHMANDU, NEPAL

Contractor

ZHONGHENG CONSTRUCTION GROUP INTERNATIONAL ENGINEERING CO.,LTD

Submitted By
Contract Manager
Rabindra Kr. Thakur

Verified By
Expert Qty Surveyor
H.K. Mandal

Approved By
Team Leader
Giresh Chand




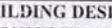
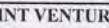


Checked By
Engineer
Dhirendra Yadav



Summary Sheet of Field Density Test

Month	February
Year	2021
Type of Material	Base

 <p>Contractor</p> <p>ZHONGHENG CONSTRUCTION GROUP INTERNATIONAL ENGINEERING CO. LTD</p>	 <p>Consultant</p> <p>BUILDING DESIGN AUTHORITY (P) LTD IN JOINT VENTURE WITH B.N. CONSULTANCY PVT. LTD AND PLUS ENGINEERS & ARCHITECTS (P) LTD, KATHMANDU, NEPAL</p>
 <p>.....</p> <p>Checked By Engineer Dhirendra Yadav</p>  <p>.....</p> <p>Submitted By Contract Manager Rabin Krishna Thakur</p>	 <p>.....</p> <p>Verified By Expert Qty Surveyor H.K. Mandal</p>  <p>.....</p> <p>Approved By Team Leader Girish Chandra</p>

Summary Sheet of Monthly Test Report

Contractor

ZHONGHENG CONSTRUCTION GROUP INTERNATIONAL ENGINEERING

**BUILDING DESIGN AUTHORITY (P) LTD IN JOINT VENTURE WITH
B.N. CONSULTANCY PVT. LTD AND PLUS ENGINEERS &
ARCHITECTS (P) LTD, KATHMANDU, NEPAL**

Checked By
Engineer
Dhirendra Yadav

Submitted By
Contract Manager
Rabindra Kr. Thakur

.....
Verified By
 Expert Qty Surveyor
 H.K. Mandal

Approved By
Team Leader



Biratnagar Metropolitan City
Contract No: RUDP/ICB/BRT-02
Summary Sheet of Monthly Test Report

Location:-East of Banjarachowk

[illegible]

Contractor

Consultant

ZHONGHENG CONSTRUCTION GROUP INTERNATIONAL ENGINEERING CO.

BUILDING DESIGN AUTHORITY (P) LTD IN JOINT VENTURE WITH
B.N. CONSULTANCY PVT. LTD. AND PLUS ENGINEERS & ARCHITECTS
(P) LTD, KATHMANDU, NEPAL

Checked By
Engineer
Dhirendra yadav

.....
Submitted By
Contract Manager
Rabindra Kr. Thakur

Verified By
 Export Qty Surveyor
H.K. Mandal

Approved By
Team Leader
Gireesh Chand



REGIONAL URBAN DEVELOPMENT PROJECT

Biratnagar Metropolitan City

Contract No: RUDP/ICB/BRT-02

Summary Sheet of Monthly Test Report

[illegible]



Summary Sheet of Monthly Test Report

[illegible]



Biratnagar Metropolitan City
Contract No: RUDP/ICB/BRT-02

Summary Sheet of Monthly Test Report

Location:-T3L11F

[illegible]

Contractor

Consultant

ZHONGHENG CONSTRUCTION GROUP INTERNATIONAL ENGINEERING

**BUILDING DESIGN AUTHORITY (P) LTD IN JOINT VENTURE WITH
B.N. CONSULTANCY PVT. LTD AND PLUS ENGINEERS &
ARCHITECTS (P) LTD, KATHMANDU, NEPAL**

Checked By
Engineer
Dhirendra Yadav

.....
Submitted By
Contract Manager
Rabindra Kr. Thakur

.....
Verified By
 Expert Qty Surveyor
 H.K. Mandal

Approved By
Team Leader
Gireesh Chand



Contract No: RUDP/ICB/BRT-02

Daily Application Rate Check for Priming work



SUMMARY FOR THE MONTH OF FEBRUARY 2021

Type of Bitumen:80/100 P.G

Cutter Percentage: MC 70:MC30

[illegible]

Required specification for Prime coat	1.0 Lit/M2 \pm 5%	Specific Gravity of Bitumen 1.020

Contractor	Consulant
<p>ZHONGHENG CONSTRUCTION GROUP INTERNATIONAL ENGINEERING CO. LTD</p>  <p>..... Checked By Engineer Dhirendra Yadav</p> <p>..... Submitted By Contract Manager Rabindra Kr. Thakur</p>	<p>BUILDING DESIGN AUTHORITY (P) LTD IN JOINT VENTURE WITH B.N. CONSULTANCY PVT. LTD AND PLUS ENGINEERS & ARCHITECTS (P) LTD KATHMANDU, NEPAL</p>  <p>..... Verified By Expert Qty Surveyor H.K. Mandal</p> <p>..... Approved By Team Leader Gireesh Chand</p>

REGIONAL URBAN DEVELOPMENT PROJECT

Biratnagar Metropolitan City

Contract No: RUDP/ICB/BRT-02

Daily Application Rate Check for TACK COAT

SUMMARY FOR THE MONTH OF FEBRUARY-2021

Type of Bitumen: 80/100 P.G

S.N.	Location	Date of Tack coat	From	Station to	Side of Tack coat	Area of Tack coat	Intersection Area m ²	Total Area M ²	Bitumen Consumption	Application Rate By Dip Lit/m ²	Page no 1 of 1	
											Application Rate Bt Tray Test Lit/m ²	
1	Jyoti marg	3-Feb-21	0+000	0+163	BHS	815	0	815.00	470	0.58	0.56	
2	East of banjarachowk	4-Feb-21	0+000	0+200	BHS	926.6	0	1560	860	0.55	0.53	
3	East of DUDBC	4-Feb-21	0+000	0+102	BHS	744.6	0	744.60	400	0.54	0.55	
4	R-12	4-Feb-21	0+000	0+150	BHS	600	0	600.00	320	0.53	0.56	
5	Keshaliya marg	5-Feb-21	0+000	0+500	BHS	4050	0	4050.00	2250	0.56	0.54	
								Total	4300			

Required tack coat is 0.40 to 0.60 Lit/M² According to Road Note -3, Section 711.2

Specific Gravity of Bitumen 1.020

Contractor

ZHONGHENG CONSTRUCTION GROUP INTERNATIONAL ENGINEERING CO. LTD

Consultant

BUILDING DESIGN AUTHORITY (P) LTD IN JOINT VENTURE WITH
B.N. CONSULTANCY PVT. LTD AND PLUS ENGINEERS &
ARCHITECTS (P) LTD, KATHMANDU, NEPAL

.....
Checked By
Engineer
Dhirendra Yadav

.....
Submitted By
Contract Manager
Rabindra Kr. Thakur

.....
Verified By
Expert Qty Surveyor
H.K. Mandal

.....
Approved By
Team Leader
Gireesh Chand






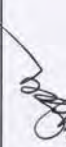
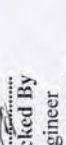

REGIONAL URBAN DEVELOPMENT PROJECT Biratnagar Metropolitan City Contract No: RUDP/ICB/BRT-02															P.g No. 1		
Test Result BY MARSHALL METHOD (AASHTO T 245-78) SUMMARY FOR THE MONTH OF FEBRUARY 2021																	
S. No.	LAB REF. No.	Date of Laying	Location of Work ch:	Mix Agg Gradation % Passing Sieve Sizes mm							Bitumen Content From Extraction Test %	Mix Density g/cc	Air Voids %	VMA %	Stability N	Flow mm	
				20	16	9.5	4.75	2.36	0.600	0.075							
1	292	3/2/2021	Jyoti Marg, (0+000 to 0+163)	100	100	77.21	56.43	35.22	16.78	6.60	0.075	2.375	3.05	16.26	9931	2.30	
2	293	4/2/2021	East Of Banjara Chowk, (0+000 to 0+200)	100	100	80.06	55.04	36.37	18.03	7.42	5.70	2.361	3.12	16.31	10347	2.38	
3	294	4/2/2021	East Of D/D B/C, (0+000 to 0+102)	100	100	81.39	54.38	34.18	20.89	8.02	5.96	2.361	3.50	17.30	10411	2.43	
4	295	4/2/2021	R-12, (0+000 to 0+150)	100	100	81.94	55.92	35.74	18.33	6.22	5.85	2.364	3.11	16.65	10955	2.25	
5	296	5/2/2021	Khatiya Marg, (0+000 to 0+500)	100	100	80.97	55.13	38.87	19.84	8.67	5.94	2.365	3.04	16.82	10933	2.58	
Specifications				100	100-100	76-82	±5%	54-59	33-37	16-21	6 to 9	5.703	Min 2.388	3-6%	≥ 15	≥ 8500	2-3
Job Mix Tolerances from RUDP Specification Table 2-4-10				±5%	Nil	±5%		±3%	±2%	±1%	Nil	±0.3%					
REMARKS:																	
ZHONGHENG CONSTRUCTION GROUP INTERNATIONAL ENGINEERING CO. LTD				Consultant BUILDING DESIGN AUTHORITY (P) LTD IN JOINT VENTURE WITH B.N. CONSULTANCY PVT. LTD AND PLUS ENGINEERS & ARCHITECTS (P) LTD, KATHMANDU, NEPAL													
Checked By Engineer Dhirendra Yadav				Submitted By Contract Manager Rabindra Kr. Thakur													
Verified By Expert City Surveyor H.K. Mandal				Approved By Team Leader Gresh Chandra													



Contract No:- RUDP/ICB/BRT-02


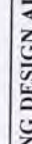




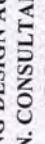
Summary Sheet of Monthly Test Report of 20mm Agg.

[illegible]

Contractor	Consultant
<p>ZHONGHENG CONSTRUCTION GROUP INTERNATIONAL ENGINEERING CO. LTD</p> 	<p>BUILDING DESIGN AUTHORITY (P) LTD IN JOINT VENTURE WITH B.N. CONSULTANCY PVT. LTD AND PLUS ENGINEERS & ARCHITECTS (P) LTD, KATHMANDU, NEPAL</p> 
<p>Submitted By Contract Manager Rabindra K. Thakur</p> 	<p>Verified By Expert Qty Surveyor H.K. Mandal</p> 
<p>Checked By Engineer</p> 	<p>Approved By Team Leader Gresh Chand</p> 

Summary Sheet of Monthly Test Report of Concrete Sand

[illegible]

<p>Contractor</p> <p>ZHONGHENG CONSTRUCTION GROUP INTERNATIONAL ENGINEERING CO. LTD</p> 	<p>Consultant</p> <p>BUILDING DESIGN AUTHORITY (P) LTD IN JOINT VENTURE WITH B.N. CONSULTANCY PVT. LTD AND PLUS ENGINEERS & ARCHITECTS (P) LTD, KATHMANDU, NEPAL</p> 
<p>Engineer Dhirendra Yadav</p> <p>Checked By </p> <p>Submitted By </p> <p>Contract Manager Rabinendra K. Thakur</p>	<p>Verified By </p> <p>Expert Qty Surveyor H.K. Mandal</p> <p>Approved By </p> <p>Team Leader Gireesh Chand</p> 



REGIONAL URBAN DEVELOPMENT PROJECT

Biratnagar Metropolitan City

Contract No:- RUDP/ICB/BRT-02


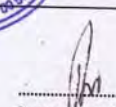
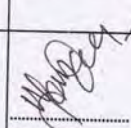

Summary Sheet Of Monthly Test Report

[illegible]

[illegible]

Summary Sheet of Mortar Test Report

REGIONAL URBAN DEVELOPMENT PROJECT										
Biratnagar Metropolitan City										
Contract No:- RUDP/ICB/BRT-02										
Summary Sheet of Concrete Cube Test Report										
										Page No 1 of 1
							Month	February		
							Year	2021		
							Type of Material	Conc. Cube		
S.N.	Location	Lab Ref.no.	Type of Cement	Brand of Cement	Source of Sand+Agg.	Date of Casting	Date of Testing	Strength, N/mm2	Concrete Grade	
							7 Days	28 Days		
1	R-65	RUDP-3805	Ambe Hi-Tech	OPC	Chisang Khola	10-Jan-21	17-Jan-21	7-Feb-21		
2	Bargachhi,(0+320)	RUDP-3806	Ambe Hi-Tech	OPC	Chisang Khola	12-Jan-21	19-Jan-21	9-Feb-21	22.28	
3	TIL13	RUDP-3807	Ambe Hi-Tech	OPC	Chisang Khola	25-Jan-21	1-Feb-21	22-Feb-21	21.42	
4	R-65	RUDP-3808	Ambe Hi-Tech	OPC	Chisang Khola	25-Jan-21	1-Feb-21	22-Feb-21	16.52	
5	Keshaliya Culvert	RUDP-3809	Ambe Hi-Tech	OPC	Chisang Khola	26-Jan-21	2-Feb-21	23-Feb-21	16.76	
6	Keshaliya Culvert	RUDP-3810	Ambe Hi-Tech	OPC	Chisang Khola	26-Jan-21	2-Feb-21	23-Feb-21	19.61	
7	DUDBC	RUDP-3811	Ambe Hi-Tech	OPC	Chisang Khola	26-Jan-21	2-Feb-21	23-Feb-21	18.87	
8	T3L22	RUDP-3812	Ambe Hi-Tech	OPC	Chisang Khola	27-Jan-21	3-Feb-21	24-Feb-21	17.69	
9	R-65	RUDP-3813	Ambe Hi-Tech	OPC	Chisang Khola	27-Jan-21	3-Feb-21	24-Feb-21	16.76	
10	Keshaliya Culvert	RUDP-3814	Ambe Hi-Tech	OPC	Chisang Khola	27-Jan-21	3-Feb-21	24-Feb-21	17.85	
11	R-65	RUDP-3815	Ambe Hi-Tech	OPC	Chisang Khola	27-Jan-21	3-Feb-21	24-Feb-21	18.79	
12	Keshaliya Culvert	RUDP-3816	Ambe Hi-Tech	OPC	Chisang Khola	29-Jan-21	5-Feb-21	26-Feb-21	16.29	
13	Keshaliya Culvert	RUDP-3817	Ambe Hi-Tech	OPC	Chisang Khola	29-Jan-21	5-Feb-21	26-Feb-21	19.03	
14	Keshaliya Culvert	RUDP-3818	Ambe Hi-Tech	OPC	Chisang Khola	29-Jan-21	5-Feb-21	26-Feb-21	19.45	
15	R-12	RUDP-3819	Ambe Hi-Tech	OPC	Chisang Khola	29-Jan-21	5-Feb-21	26-Feb-21	19.03	
16	Rani Prajatantra Marg	RUDP-3820	Ambe Hi-Tech	OPC	Chisang Khola	30-Jan-21	6-Feb-21	27-Feb-21	16.47	
17	Keshaliya Culvert	RUDP-3821	Ambe Hi-Tech	OPC	Chisang Khola	30-Jan-21	6-Feb-21	27-Feb-21	18.79	
18	Keshaliya Culvert	RUDP-3822	Ambe Hi-Tech	OPC	Chisang Khola	2-Feb-21	9-Feb-21	2-Mar-21	16.05	
19									18.59	
20										
21										
22										
23										
24										
25										
26										
27										
28										
29										
30										
31										
32										
33										
34										
35										
36										
37										
38										
39										
40										
41										
42										
43										
44										
45										
46										

Contractor ZHONGHENG CONSTRUCTION GROUP INTERNATIONAL ENGINEERING CO. LTD  Checked By Engineer Dharendra Yadav		Consultant BUILDING DESIGN AUTHORITY (P) LTD IN JOINT VENTURE WITH B.N. CONSULTANCY PVT. LTD AND PLUS ENGINEERS & ARCHITECTS (P) LTD, KATHMANDU, NEPAL  Submitted By Contract Manager Rabindra K.Thakur		 Verified By Expert Qty Surveyor H.K. Mandal		 Approved By Team Leader Giresh Chand	
--	--	--	--	--	--	---	--

ANNEX – 3.a (Water Test Report)





नेपाल बातावरणीय सेवा केन्द्र NEPAL BATAWARANIYA SEWA KENDRA

(Morang Merchants' Association Complex)
Pdt. Meghraj Marga (Goshwara Road), Biratnagar-7, Nepal

Tel : +977-21-576887
Fax: +977-21-524732



Date: 4th January 2021

Test Report

Name of the Client	Aashish Nirman Sewa (P) Ltd.	Location	Biratnagar, Morang
Sampled by	Client	Date of Collection	30-12-2020
Source of Sample	Bore Well	Date of Analysis	31-12-2020
Type of Sample	Drinking Water	Date of Completion	04-01-2021
Sample code No	SN- 276 A (W) 2020	Client Code	Office

SN	Parameters	Units	WHO guideline value	NDWQS (MCL)	Results	Method
1	pH	-	6.5 - 8.5	6.5 - 8.5	6.75	APHA-4500 H+
2	Conductivity	μS/cm	-	1500	685	APHA-2510
3	Turbidity	NTU	5	5(10)	0	APHA-2130B
4	Colour	Hazen	15	5(15)	0.5	APHA-2120 C
5	Total dissolved solids	mg/L	1000	1000	342.5	APHA-2540 C
6	Fluoride as (F)	mg/L	1.5	0.5-1.5	0.47	APHA-2500 D
7	Ammonia as (NH ₄ -N)	mg/L	1.5	1.5	<0.05	APHA-4500
8	Nitrate as (NO ₃ -N)	mg/L	50	50	<0.05	APHA-4500
9	Chloride as (Cl)	mg/L	250	250	113.96	APHA-2500 B
10	Total Hardness as (CaCO ₃)	mg/L	500	500	223	APHA-2340
11	Calcium	mg/L	-	200	42.88	APHA-3500
12	Iron (Fe)	mg/L	0.3	0.3(3)	0.37	APHA-3111 B
13	Manganese (Mn)	mg/L	0.1	0.2	1.69	APHA-3111 B
14	Arsenic (As)	mg/L	0.01	0.05	<0.005	APHA-3500-As B
15	Total Coliform	CFU/100 ml	Nil	Nil	10	APHA-9215
16	Fecal Coliform	CFU/100 ml	Nil	Nil	6	APHA-9215
17	Zinc as (Zn)	mg/L	-	3	<0.05	APHA-3111 B
18	Lead as (Pb)	mg/L	-	0.01	0.1	APHA-3111 B
19	Cadmium as (Cd)	mg/L	-	0.003	<0.003	APHA-3111 B
20	T- Chromium as (T-Cr)	mg/L	-	0.05	<0.05	APHA-3111 B
21	Residual Chlorine	mg/L	-	0.1-0.2	0	APHA-4500
22	Sulphate	mg/L	-	250	29	Gravimetric
23	Odour	-	-	-	Odourless	Sensory

Comment: Except Iron, Manganese, Lead, Total Coliform & Fecal Coliform, other obtained results are within the range of National Drinking Water Quality Standard (NDWQS).

MCL: Maximum Concentration Limit.

Prepared by



Analyst

Authorized signature
Lab In-charge

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





नेपाल वातावरणीय सेवा केन्द्र NEPAL BATAWARANIYA SEWA KENDRA

(Morang Merchants' Association Complex)
Pdt. Meghraj Marga (Goshwara Road), Biratnagar-7, Nepal



Tel : +977-21-576887
Fax : +977-21-524732

Date: 4th January 2021

Test Report

Name of the Client	Aashish Nirman Sewa (P) Ltd.	Location	Biratnagar, Morang
Sampled by	Client	Date of Collection	30-12-2020
Source of Sample	Bore Well	Date of Analysis	31-12-2020
Type of Sample	Drinking Water	Date of Completion	04-01-2021
Sample code No	SN- 276 B (W) 2020	Client Code	Koshi Yard

SN	Parameters	Units	WHO guideline value	NDWQS (MCL)	Results	Method
1	pH	-	6.5 - 8.5	6.5 - 8.5	6.71	APHA-4500 H+
2	Conductivity	μS/cm	-	1500	336	APHA-2510
3	Turbidity	NTU	5	5(10)	8	APHA-2130B
4	Colour	Hazen	15	5(15)	0.5	APHA-2120 C
5	Total dissolved solids	mg/L	1000	1000	168	APHA-2540 C
6	Fluoride as (F)	mg/L	1.5	0.5-1.5	0.48	APHA-2500 D
7	Ammonia as (NH ₃ -N)	mg/L	1.5	1.5	0.07	APHA-4500
8	Nitrate as (NO ₃ -N)	mg/L	50	50	<0.05	APHA-4500
9	Chloride as (Cl)	mg/L	250	250	25	APHA-2500 B
10	Total Hardness as (CaCO ₃)	mg/L	500	500	113	APHA-2340
11	Calcium	mg/L	-	200	28.46	APHA-3500
12	Iron (Fe)	mg/L	0.3	0.3(3)	5.57	APHA-3111 B
13	Manganese (Mn)	mg/L	0.1	0.2	1.05	APHA-3111 B
14	Arsenic (As)	mg/L	0.01	0.05	<0.005	APHA-3500-As B
15	Total Coliform	CFU/100 ml	Nil	Nil	Nil	APHA-9215
16	Fecal Coliform	CFU/100 ml	Nil	Nil	Nil	APHA-9215
17	Zinc as (Zn)	mg/L	-	3	<0.05	APHA-3111 B
18	Lead as (Pb)	mg/L	-	0.01	0.12	APHA-3111 B
19	Cadmium as (Cd)	mg/L	-	0.003	<0.003	APHA-3111 B
20	T- Chromium as (T-Cr)	mg/L	-	0.05	<0.05	APHA-3111 B
21	Residual Chlorine	mg/L	-	0.1-0.2	0	APHA-4500
22	Sulphate	mg/L	-	250	28	Gravimetric
23	Odour	-	-	-	Odourless	Sensory

Comment: Except Turbidity, Iron, Manganese & Lead, other obtained results are within the range of National Drinking Water Quality Standard (NDWQS).

MCL: Maximum Concentration Limit.

Not Suitable for drinking

Prepared by



Analyst

Authorized signature
Lab In-charge

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



नेपाल वातावरणीय सेवा केन्द्र NEPAL BATAWARANIYA SEWA KENDRA

(Morang Merchants' Association Complex)
Pdt. Meghraj Marga (Goshwara Road), Biratnagar-7, Nepal



Tel : +977-21-576887
Fax: +977-21-524732

Date: 4th January 2021

Test Report

Name of the Client	Aashish Nirman Sewa (P) Ltd.	Location	Biratnagar, Morang
Sampled by	Client	Date of Collection	30-12-2020
Source of Sample	Bore Well	Date of Analysis	31-12-2020
Type of Sample	Drinking Water	Date of Completion	04-01-2021
Sample code No	SN- 276 C (W) 2020	Client Code	Staff Camp- Shanti Chowk House

SN	Parameters	Units	WHO guideline value	NDWQS (MCL)	Results	Method
1	pH	-	6.5 - 8.5	6.5 - 8.5	6.58	APHA-4500 H+
2	Conductivity	μS/cm	-	1500	271.3	APHA-2510
3	Turbidity	NTU	5	5(10)	>10	APHA-2130B
4	Colour	Hazen	15	5(15)	1	APHA-2120 C
5	Total dissolved solids	mg/L	1000	1000	135.65	APHA-2540 C
6	Fluoride as (F)	mg/L	1.5	0.5-1.5	0.31	APHA-2500 D
7	Ammonia as (NH ₄ -N)	mg/L	1.5	1.5	<0.05	APHA-4500
8	Nitrate as (NO ₃ -N)	mg/L	50	50	<0.05	APHA-4500
9	Chloride as (Cl)	mg/L	250	250	15	APHA-2500 B
10	Total Hardness as (CaCO ₃)	mg/L	500	500	89	APHA-2340
11	Calcium	mg/L	-	200	26.45	APHA-3500
12	Iron (Fe)	mg/L	0.3	0.3(3)	28.67	APHA-3111 B
13	Manganese (Mn)	mg/L	0.1	0.2	1.96	APHA-3111 B
14	Arsenic (As)	mg/L	0.01	0.05	<0.005	APHA-3500-As B
15	Total Coliform	CFU/100 ml	Nil	Nil	5	APHA-9215
16	Fecal Coliform	CFU/100 ml	Nil	Nil	3	APHA-9215
17	Zinc as (Zn)	mg/L	-	3	0.05	APHA-3111 B
18	Lead as (Pb)	mg/L	-	0.01	0.11	APHA-3111 B
19	Cadmium as (Cd)	mg/L	-	0.003	<0.003	APHA-3111 B
20	T- Chromium as (T-Cr)	mg/L	-	0.05	0.08	APHA-3111 B
21	Residual Chlorine	mg/L	-	0.1-0.2	0	APHA-4500
22	Sulphate	mg/L	-	250	37	Gravimetric
23	Odour	-	-	-	Odourless.	Sensory

Comment: Except Turbidity, Iron, Manganese, Lead, T-Chromium Total Coliform & Fecal Coliform, other obtained results are within the range of National Drinking Water Quality Standard (NDWQS).

MCL: Maximum Concentration Limit.

Prepared by



Analyst

Authorized signature
Lab In-charge

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





नेपाल बातावरणीय सेवा केन्द्र NEPAL BATAWARANIYA SEWA KENDRA

(Morang Merchants' Association Complex)
Pdt. Meghraj Marga (Goshwara Road), Biratnagar-7, Nepal



Tel : +977-21-576887
Fax: +977-21-524732

Date: 4th January 2021

Test Report

Name of the Client	Aashish Nirman Sewa (P) Ltd.	Location	Biratnagar, Morang
Sampled by	Client	Date of Collection	30-12-2020
Source of Sample	Bore Well	Date of Analysis	31-12-2020
Type of Sample	Drinking Water	Date of Completion	04-01-2021
Sample code No	SN- 276 D (W) 2020	Client Code	Madhumara Yard

SN	Parameters	Units	WHO guideline value	NDWQS (MCL)	Results	Method
1	pH	-	6.5 - 8.5	6.5 - 8.5	6.68	APHA-4500 H+
2	Conductivity	μS/cm	-	1500	492	APHA-2510
3	Turbidity	NTU	5	5(10)	>10	APHA-2130B
4	Colour	Hazen	15	5(15)	0.5	APHA-2120 C
5	Total dissolved solids	mg/L	1000	1000	246	APHA-2540 C
6	Fluoride as (F)	mg/L	1.5	0.5-1.5	0.24	APHA-2500 D
7	Ammonia as (NH ₄ -N)	mg/L	1.5	1.5	<0.05	APHA-4500
8	Nitrate as (NO ₃ -N)	mg/L	50	50	<0.05	APHA-4500
9	Chloride as (Cl)	mg/L	250	250	45.98	APHA-2500 B
10	Total Hardness as (CaCO ₃)	mg/L	500	500	159	APHA-2340
11	Calcium	mg/L	-	200	34.87	APHA-3500
12	Iron (Fe)	mg/L	0.3	0.3(3)	4.67	APHA-3111 B
13	Manganese (Mn)	mg/L	0.1	0.2	2.67	APHA-3111 B
14	Arsenic (As)	mg/L	0.01	0.05	<0.005	APHA-3500-As B
15	Total Coliform	CFU/100 ml	Nil	Nil	Nil	APHA-9215
16	Fecal Coliform	CFU/100 ml	Nil	Nil	Nil	APHA-9215
17	Zinc as (Zn)	mg/L	-	3	0.91	APHA-3111 B
18	Lead as (Pb)	mg/L	-	0.01	0.13	APHA-3111 B
19	Cadmium as (Cd)	mg/L	-	0.003	<0.003	APHA-3111 B
20	T- Chromium as (T-Cr)	mg/L	-	0.05	0.50	APHA-3111 B
21	Residual Chlorine	mg/L	-	0.1-0.2	0	APHA-4500
22	Sulphate	mg/L	-	250	28	Gravimetric
23	Odour	-	-	-	Odourless	Sensory

Comment: Except Turbidity, Iron, Manganese, Lead & T-Chromium, other obtained results are within the range of National Drinking Water Quality Standard (NDWQS).

MCL: Maximum Concentration Limit.

Prepared by



Analyst

Authorized signature
Lab In-charge

P.O. Box 104, Email: nenscbt@gmail.com /seammmaesc@gmail.com

ANNEX- 4: SOCIAL& ENVIRONMENT SAFEGUARD

Monitoring Formats– February 2021



Regional Urban Development Project (RUDP)
Project Implementation Unit (PIU)
Biratnagar, Nepal
LABOUR DATA

Month/Year: February, 2021

S.NO	LOCATION	TYPES OF WORK	TYPES OF WORKERS	LABOUR		COMPOSITION		ETHNIC COMPOSITION							
				SKILLED	UNSKILLED	MALE	FEMALE	JANJATI	DALIT	MUSLIM	MADHESI	BRAHMIN/CHHE TRI			
1	R65	Slab Casting	LOCAL												
			NON LOCAL	4	10	14	0	4	0	0	10				
			INDIAN												
			TOTAL	14											
2	R6	Slab Casting	LOCAL												
			NON LOCAL	2	10	12	0	10	4	3	5				
			INDIAN												
			TOTAL	12											
3	Keshaliya Road	Box Culvert	LOCAL												
			NON LOCAL	5	12	17	0	2	5	5	5				
			INDIAN												
			TOTAL	17											
4	Rani Bhattimode	Drain Work	LOCAL	3	12	15	0	0	0	10	5				
			NON LOCAL												
			INDIAN												
			TOTAL	15											
5	Rani prajatantra marga	sub Base	LOCAL	3	6	9	0	4	0	0	5				
			NON LOCAL												
			INDIAN												
			TOTAL	9											
6	R65	M.H Raise	LOCAL												
			NON LOCAL	2			0	0	0	0	8				
			INDIAN												
			TOTAL	8											



Regional Urban Development Project (RUDP)
Project Implementation Unit (PIU)
Biratnagar, Nepal
LABOUR DATA

		Month/Year: February, 2021									
		LOCAL NON LOCAL INDIAN TOTAL	Kerb Stone	Rani P. Magar	4	12	16	0	0	0	16
7		16									
8	R3 Trunk Line	4	MH Cleaning	4	8	12	12	0	4	5	3
		12									
9	R3 Runk Line	3	Interlock Cleaning	3	7	10	10	0	4	3	3
		10									
10	R2	4	Interlock Cleaning	4	8	12	12	0	0	0	12
		12									
11	R114	4	interlock	4	5	9	9	0	4	0	5
		9									
12	R5	2	Interlock	2	7	9	9	0	0	4	3
		9									
13	R7	3	Interlock	3	8	11	11	0	3	3	5
		11									



Regional Urban Development Project (RUDP)
Project Implementation Unit (PIU)
Biratnagar, Nepal
LABOUR DATA

		Month/Year: February, 2021									
14	R4	House Connection	LOCAL NON LOCAL INDIAN TOTAL	3 9	6	9	0	0	0	0	9
15	R44	House Connection	LOCAL NON LOCAL INDIAN TOTAL	2 11	9	11	0	0	0	0	11
16	R65	House Connection	LOCAL NON LOCAL INDIAN TOTAL	2 10	8	10	0	0	0	0	10
17	Madhumara yaad	Production	LOCAL NON LOCAL INDIAN TOTAL	2 17	15	17	0	7	5	0	5
18	Koshi Yaad	Production	LOCAL NON LOCAL INDIAN TOTAL	2 17	15	17	0	7	5	0	5
19	Road paint	R83	LOCAL NON LOCAL INDIAN TOTAL	4 12	8	12	0	0	0	0	12



Regional Urban Development Project (RUDP)
Project Implementation Unit (PIU)
Biratnagar, Nepal
LABOUR DATA

		Month/Year: February, 2021									
20	Ghoghapaine	Asphalt	LOCAL								
			NON LOCAL								
			INDIAN	3	12	15	0	0	0	12	3
			TOTAL	15							
21	Kerbstone	R5	LOCAL	3	6	9	0	0	0	0	9
			NON LOCAL								
			INDIAN								
			TOTAL	9							
22	N.R.B	Weep Hole	LOCAL								
			NON LOCAL	3	6	9	0	4	0	0	5
			INDIAN								
			TOTAL	9							



Regional Urban Development Project (RUDP)
Project Implementation Unit (PIU)
Biratnagar, Nepal
LABOUR DATA

		Month/Year: February, 2021												
		LABOUR CLASS			LABOUR		COMPOSITION		ETHNIC COMPOSITION				BRAHMIN/ CHHETRI	
		LOCAL	NON LOCAL	INDIAN	SKILLED	UNSKILLED	MALE	FEMALE	JANJATI	DALIT	MUSLIM	MADHESI		
23		LOCAL												
		NON LOCAL												
		INDIAN												
		TOTAL												
24		LOCAL												
		NON LOCAL												
		INDIAN												
		TOTAL												
		LABOUR CLASS			LABOUR		COMPOSITION		ETHNIC COMPOSITION				BRAHMIN/ CHHETRI	
		LOCAL	NON LOCAL	INDIAN	SKILLED	UNSKILLED	MALE	FEMALE	JANJATI	DALIT	MUSLIM	MADHESI		
		17	37	54	0	8	0	10	36	0	0	0		
		47	147	194	0	35	34	10	115	0	0	0		
		3	12	15	0	0	0	12	3	0	0	0		
		67	196	263	0	43	34	32	154	0	0	0		



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

Name of Sub Project: RUDP/ Biratnagar

Contract Package: RUDP/ICB/BRT/02

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

Month: February 2021

Checklist

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



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



Occupational health and safety

Regional Urban Development Project (RUDP)/Biratnagar

Name of Sub Project: RUDP/ Biratnagar

Contract Package: RUDP/ICB/BRT/02

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

Month: February 2021

Checklist

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



A. Staffs Name List

SN.	Name	Position	Contact No	Remarks
1	Ravindra kumar Thakur	CM	9801159860	
2	Dhirendra Yadav	Engineer	9801225283	
3	Randhir Singh	Engineer	9801159918	
4	Pradeep Yadav	Engineer	9801159896	
5	Jibachha Sah	Engineer	9805932183	
6	Dhirendra yadav jr	Engineer	9805913881	
7	Aanand Rayamajhi	Engineer	9801157317	
8	Rahul Kr Sharma	Sub-Engineer	9801159862	
9	Sudip Chaudhary	Surveyor	9801159859	
10	Sange Tamang	Sub-Engineer		
11	Ramesh Shrestha	Sub-Engineer		
12	Jitendra Yadav	Safety incharge	9801160166	
13	Kiran Chaudhary	SLT	9801225281	
14	Pramod shah	LT	9815779383	
15	Raj kr Mukhiya	LT		
16	Bishnu Hari Khanal	Chief Accountant	9801157314	
17	Jarman Nepal	Assistant Accountant		
18	Narsingh Bhandari	Vehicle incharge	9801157318	
19	Madan Bhattarai	Store Keeper	9801159634	



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

S.N	Equipment Type and Characteristics	ZHONGHENG CONSTRUCTION GROUP
1	Excavator	0
2	Backhoe Loader	4
3	Asphalt plant of adequate capacity	1
4	Asphalt pavers	1
5	Vibrating roller	2
6	Pneumatic tyre roller 8 to 10 ton	1
7	Smooth wheeled roller 8 to 10 ton	2
8	Tipper	3
9	Crane	1
10	Water Tank	1
11	Grader	2
12	Bitumen distributor (4 to 6 Kilo litre)-	1
13	Water browser (minimum 5000 Litres)	6
14	Chips spreader	0
15	Bitumen decanter minimum 18000 Litres.	2
16	Air compressor	2
17	Tipping Trucks	1
18	Service vehicle	3
19	Total station	1
20	Auto Level	5
21	Mobile Generator 15-20 Kva	6
22	Mixer Machine	5
23	Broomer	2
24	Plate Compactor	5
25	Water Pump	4
26	Motorbike	12
27	Tractor	12




ANNEX- 5: SOP Health Monitoring Format

February 2021



Annex 6 (B) Regular Health Monitoring Template at Site/Office.

Date: 28/02/2021




DSC
RUDDP
Biratnagar

Project Name:		Construction and Completion of sewerage, drainage, Road, Footpath and Road furniture works Contract No: RUDF/ACB/BRT/02							
S.No.	Staff Name	Position	Temperature	Yes/No					Remarks
				Cold	Cough	Difficulty in Breathing	Have you done hand sanitization before entering site/office	Has the person wearing mask	
1	Giresh Chand	TL	95.9	NO	NO	NO	YES	YES	
2	H.K. Mandal	E./Qty S.	96.4	NO	NO	NO	YES	YES	P- 99 H- 79
3	Amit Kumar Gupta	CSE	96.9	NO	NO	NO	YES	YES	P- 99 H- 74
4	Santosh Kumar Yadav	OM	96.9	NO	NO	NO	YES	YES	P- 97 H- 76
5	Rajesh Kumar Yadav	Jr.	93.3	NO	NO	NO	YES	YES	P- 98 H- 74
6	Deepak Majhee	Jr.	95.1	NO	NO	NO	YES	YES	P- 98 H- 75
7	Jaya Prakash Yadav	Jr.	96.8	NO	NO	NO	YES	YES	P- 98 H- 75
8	Youba Raj Poudel	Driver	96.9	NO	NO	NO	YES	YES	P- 99 H- 79
9	Pulkit Gothiya Yadav	Driver	93.2	NO	NO	NO	YES	YES	P- 99 H- 79
10	Rudra Kharel	O/A	95.1	NO	NO	NO	YES	YES	P- 99 H- 73
11	Shiv Shankar Mandal	Guard	95.6	NO	NO	NO	YES	YES	P- 99 H- 74

Annex 6 (B) Regular Health Monitoring Template at Site/Office.

Date: 29/02/2021



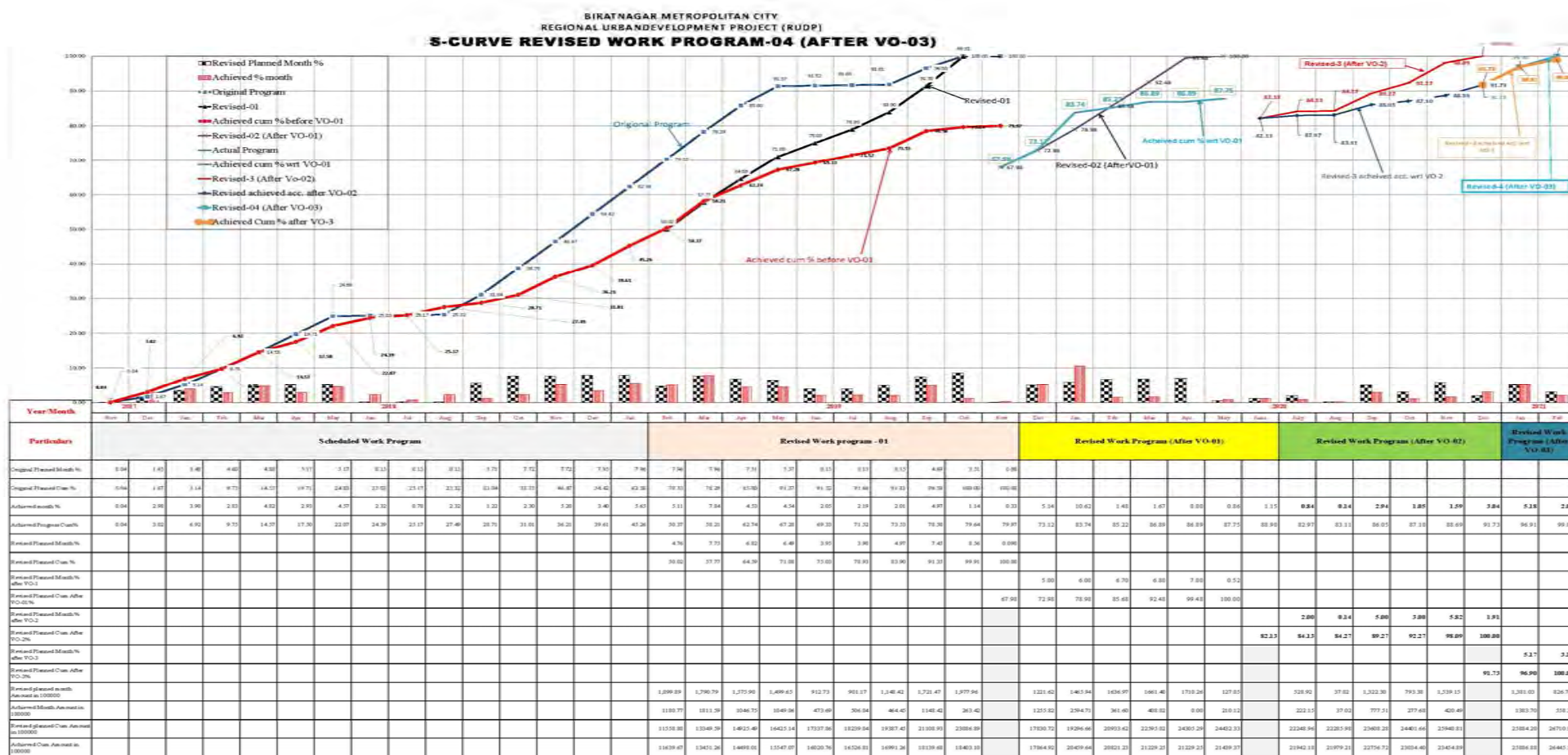
Project Name:		Construction and Completion of sewerage, drainage, Road, Footpath and Road furniture works Contract No: RUDP/ACB/BRT/02							
S.No.	Staff Name	Position	Temperature	Yes/No					Remarks
				Cold	Cough	Difficulty in Breathing	Have you done hand sanitization before entering site/office	Has the person wearing mask	
1	Giresh Chand	TL	97.1	NO	NO	NO	YES	YES	
2	H.K. Mandal	E./Qty S.	95.2	NO	NO	NO	YES	YES	P- 98 H- 80
3	Amit Kumar Gupta	CSE	97.1	NO	NO	NO	YES	YES	P- 99 H- 74
4	Santosh Kumar Yadav	OM	96.3	NO	NO	NO	YES	YES	P- 99 H- 74
5	Rajesh Kumar Yadav	Jr.	96.5	NO	NO	NO	YES	YES	P- 98 H- 79
6	Deepak Majhee	Jr.	94.3	NO	NO	NO	YES	YES	P- 99 H- 80
7	Jaya Prakash Yadav	Jr.	95.3	NO	NO	NO	YES	YES	P- 98 H- 78
8	Youba Raj Poudel	Driver	96.2	NO	NO	NO	YES	YES	P- 99 H- 79
9	Pulkit Gothiya Yadav	Driver	96.4	NO	NO	NO	YES	YES	P- 99 H- 79
10	Rudra Kharel	O/A	96.5	NO	NO	NO	YES	YES	P- 99 H- 79
11	Shiv Shankar Mandal	Guard	94.6	NO	NO	NO	YES	YES	P- 98 H- 80



ANNEX-6: S-Curve

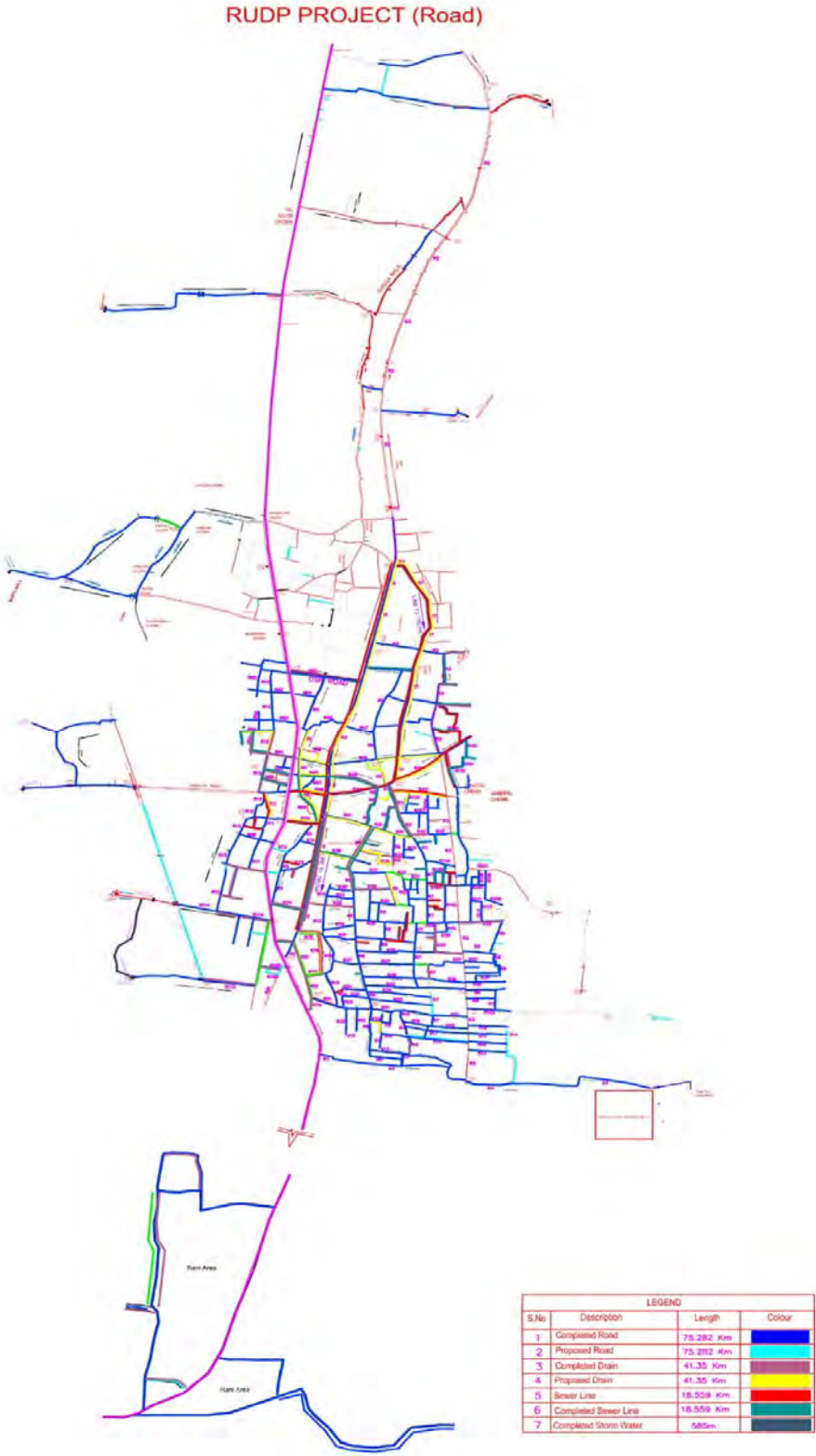
(ATTACHED)





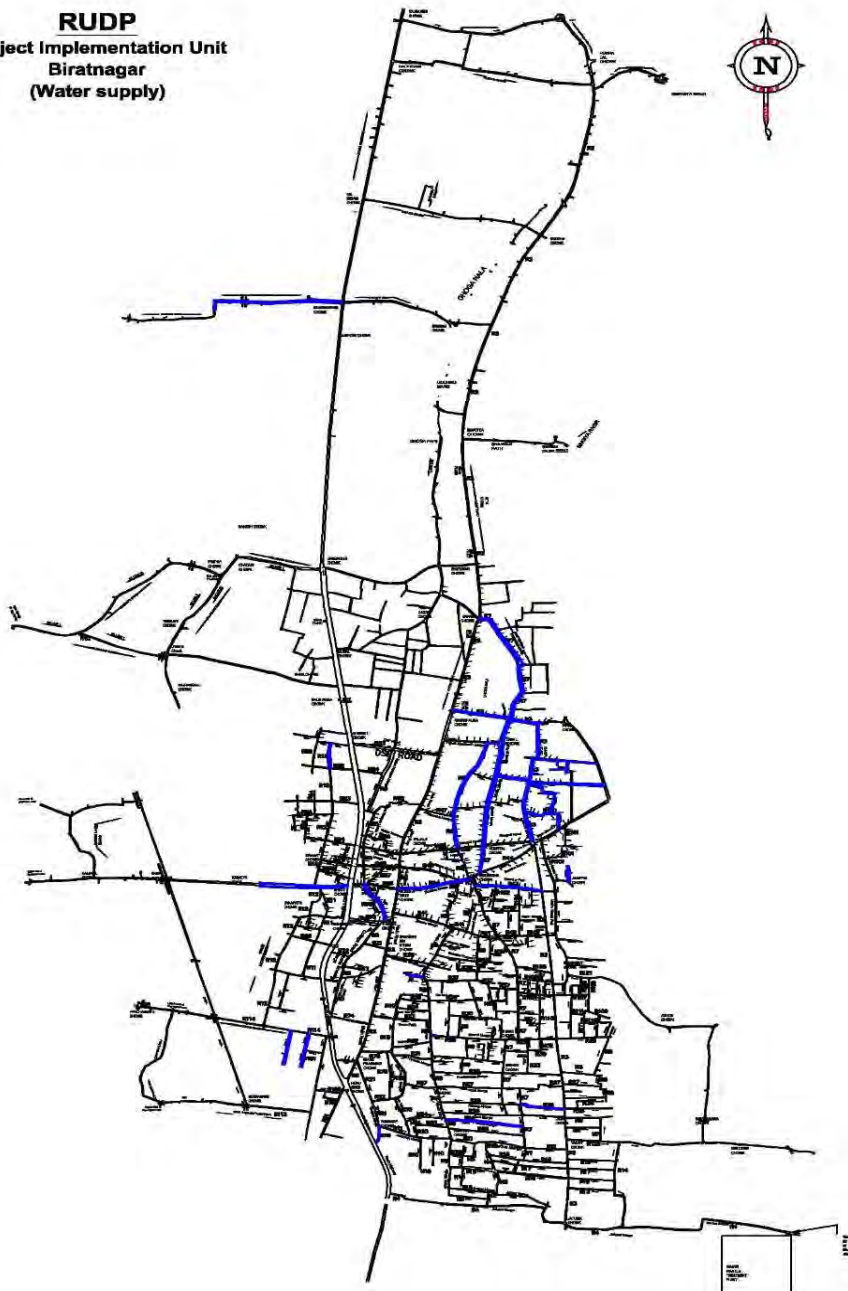
ANNEX-7: Master Plan of RUDP Project





Drawing of Water Supply works (provisional Items: 100% Funded by BMC)

RUDP
Project Implementation Unit
Biratnagar
(Water supply)



LEGENDS			
S.No.	Description	Length	Colour
1	Water supply	17.70 Km	