

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**



***January 2021***

**Biratnagar Metropolitan City (BMC), Nepal**

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## 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 28<sup>th</sup> 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
<b><u>The Consultant:</u></b>	
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 <sup>th</sup> August 2017
Date of Commencement of Design and Supervision Consulting Service	6 <sup>th</sup> September 2017
Date of Completion	5 <sup>th</sup> September 2020
Revised Date of Completion	12 <sup>th</sup> April 2022 including DNP & Final Discharge (recommended)
<b><u>The Contractor:</u></b>	
Contractor	ZHONGHENG Construction Group International Engineering Co Ltd. Beijing, China.
Date of Agreement Made	10 <sup>th</sup> October 2017
Date of Commencement	2 <sup>nd</sup> November 2017
Date of Completion	1 <sup>st</sup> November 2019
Revised Date of Completion	11 <sup>th</sup> February 2021
Contract Amount including PS and VAT	NRs. 2,611,092,249.63



<b>General Features</b>	
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).
<b>Progress</b>	
Road Rehabilitation (Asphalt)	94.16%
Sewer Line	100.00%
Storm Drain	100.00%
Road Side Drain	100.00%
Footpath/Interlock work	56.62%
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	<b>Planned: 96.90%, Actual: 96.91%; Lead (+) or Lag (-) by (+) 0.01 %;</b>
Financial Progress up to date ( <i>on the basis of IPC forwarded for disbursement</i> )	<p>In Percentage: <b>89.19%</b>, In Figure: <b>NRs. 2,692,283,630.22</b> (including VAT and PS) up to IPC –20 wrt <b>VO-3</b>.</p> <p><b>In Words: NRs.</b> Two Billion Six Hundred Ninety Two Millions Two Hundred Eighty Three Thousand Six Hundred Thirty and Twenty Two Paise Only.</p>



### 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						w.r.t. VO-3
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.	1,010.00	564.00	446.00	55.84%	
d	House Connection	No.	3,784.00	2,719.00	1,065.00	71.86%	
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	76,283.60	76,283.60	-	100.00%	
b	Sub base	m	76,283.60	5,748.60	535.00	99.30%	
c	Base	m	76,283.60	73,324.50	2,959.10	96.12%	
d	Prime	m	76,283.60	71,831.34	4,452.26	94.16%	
e	Asphalt	m	76,283.60	71,831.34	4,452.26	94.16%	
4	Road Side Drain	m	39,200.69	39,200.69	0.00	100.00%	
5	Footpath/Interlock work	sqm	49,481.82	28,017.51	21,464.31	56.62%	

**Note:**

Footpath/Interlock has been completed **25,366.00m** in length till the end of Jan 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 (After VO-2)
<b>1</b>	<b>Sewerage Pipe Supply and Installation</b>	<b>m</b>	<b>18,559.80</b>
	<b>Reinforced Concrete Pipe laying and jointing</b>		<b>1,967.50</b>
	Line T2 (Secondary)	m	205.00
	Line T3 (Trunk)	m	1,632.50
	Line T4 (Trunk)	m	130.00
	<b>HDPE laying and jointing</b>	<b>m</b>	<b>16,592.30</b>
	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
<b>2</b>	<b>Manhole ( Brick / RCC)</b>	<b>no.</b>	<b>606.00</b>
<b>3</b>	<b>Sewer Inlet</b>	<b>no.</b>	<b>1,010.00</b>
<b>4</b>	<b>House Connection</b>	<b>no.</b>	<b>3,784.00</b>
<b>5</b>	<b>Reinstatement of Roads</b>	<b>km</b>	<b>76.28</b>
<b>6</b>	<b>Road side Drain</b>	<b>Km</b>	<b>39.20</b>
<b>7</b>	<b>Storm Water Drain</b>	<b>m</b>	<b>585.00</b>





**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	1,010.00	564.00	-	564.00	55.84
2	House connection	3,784.00	2,616.00	103.00	2,719.00	71.86



### 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 76.28 km as per VO-03. Most of the roads of the project have been completed and some of them are in the process of being upgraded.

Out of 76.28 km. about 76.28 Km. has been attempted. About 71.83 Km. Asphalt work has been completed. The summary of physical progress of flexible pavement, rigid pavement and foot paths areas tabulated in Table 4, 4.1 & 4.2 below: -



**Table No:-4 PROPOSED and PHYSICAL PROGRESS of pavement works till date**

SN	Road Number	Name of Road	Length in m			Work Completed					Remarks
			Progress		Total	Sub-base	Base	Asphalt	RCC	Paint	
			Previous	This Month		m	m	m	m	m	
1	R42	Bhagwati Marg	229.00		229.00	229.00	229.00	229.00		229.00	
2	R5	College Road	594.00		594.00	594.00	594.00	594.00		594.00	
3	R5	Chulachuli Road	230.00		230.00	230.00	230.00	230.00		230.00	
4	R5	Transportation Line	377.20		377.20	377.20	377.20	377.20		377.20	
5	R65	Satghumti Marg	320.00		320.00	320.00					
6	R107		167.00		167.00	167.00	167.00	167.00		167.00	
7	R104	VIP Marg	275.00		275.00	275.00	275.00	275.00		275.00	
8	R8(R3 to Devkota)	Madhumara Marg	920.00		920.00	920.00	920.00	920.00		600.00	
9	B1	Kanchan Marg	1,181.10		1,181.10	1,181.10	1,181.10	1,181.10		1,106.00	
10	R21	Pratibha Marg	1,490.10		1,490.10	1,490.10	1,490.10	1,490.10		1,012.80	
11	B3	Keshaliya Marg	1,623.20		1,623.20	1,623.20	1,623.20	1,623.20		1,623.20	



SN	Road Number	Name of Road	Length in m			Work Completed				Remarks	
			Progress		Total	Sub-base	Base	Asphalt	RCC		Paint
			Previous	This Month		m	m	m	m		m
12	S13		1,724.20		1,724.20	1,724.20	1,724.20	1,724.20		1,812.60	
13	R12	Brikuti to Keshaliya	844.20		844.20	844.20	844.20	844.20		844.20	
14	R12	Kanchha Dai Marg	900.00	151.20	1,051.20	1,051.20	900.00	900.00			
15	R12 (R114-R183)				-	-	-	-			
16	Rani site	Rani	3,725.15		3,725.15	3,725.15	3,725.15	3,725.15		3,725.15	
17	R16	Satya Marg	583.90		583.90	583.90	583.90	583.90		583.90	
18	R26	Pasang Marg	602.30		602.30	602.30	602.30	602.30		602.30	
19	R28	Pustakalaya Marg	606.10		606.10	606.10	606.10	606.10		606.10	
20	R27	Pipal Marg	794.70		794.70	794.70	794.70	794.70		639.20	
21	R25	Devi Marg	592.30		592.30	592.30	592.30	592.30		592.30	
22	R24	Prabhat Marg	382.90		382.90	382.90	382.90	382.90		382.90	



SN	Road Number	Name of Road	Length in m			Work Completed					Remarks
			Progress		Total	Sub-base	Base	Asphalt	RCC	Paint	
			Previous	This Month		m	m	m	m	m	
23	R37	Banglamukhi Marg	470.50		470.50	470.50	470.50	470.50		470.50	
24	R7	R25 to R27	152.57		152.57	152.57	152.57	152.57		152.57	
25	R7	R21 to R25	267.00		267.00	267.00	267.00	267.00		267.00	
26	R30	Shanti Marg	348.60		348.60	348.60	348.60	348.60		348.60	
27	R9	Fadindra Marg	119.00		119.00	119.00	119.00	119.00		119.00	
28	R9(R37 to R41)		254.60		254.60	254.60	254.60	254.60		254.60	
29	S11	Samrat Marg	502.60		502.60	502.60	502.60	502.60		504.60	
30	R22	Amar Marga	373.50		373.50	373.50	373.50	373.50		373.50	
31	R29	Shanti Marg	879.60		879.60	879.60	879.60	879.60		585.60	
32	R36	Gaurav Marg	221.10		221.10	221.10	221.10	221.10		440.00	
33	R33	Tarun Marg	282.50		282.50	282.50	282.50	282.50		282.50	





SN	Road Number	Name of Road	Length in m			Work Completed					Remarks
			Progress		Total	Sub-base	Base	Asphalt	RCC	Paint	
			Previous	This Month		m	m	m	m	m	
34	R8	R29 to N36)	226.90		226.90	226.90	226.90	226.90		226.90	
35	N36		184.00		184.00	184.00	184.00	184.00		184.00	
36	R188	Shakti Marg	115.10		115.10	115.10	115.10	115.10		115.10	
37	R2	Main Road	3,116.10		3,116.10	3,116.10	3,116.10	3,116.10		4,350.00	
38	T3 Line 6A	Pandit Meghnath Marg	279.30		279.30	279.30	279.30	279.30		279.30	
39	R63 (DSP Road)	DSP Road	424.00		424.00	424.00	424.00	424.00		424.00	
40	R90	Shakti Marg	449.30		449.30	449.30	449.30	449.30		640.00	
41	R77	Arniko Marg	87.70		87.70	87.70	87.70	87.70		87.70	
42	R76	Mitra Marg	275.60		275.60	275.60	275.60	275.60		541.20	
43	R183/T2L24C	Nava Jyoti Marg	217.20		217.20	217.20	217.20	217.20		217.20	
44	T1 L16B	Xenial Front	203.70		203.70	203.70	203.70	203.70		203.70	



SN	Road Number	Name of Road	Length in m			Work Completed				Remarks	
			Progress		Total	Sub-base	Base	Asphalt	RCC		Paint
			Previous	This Month		m	m	m	m		m
45	T1L16A	Xenial South	165.70		165.70	165.70	165.70	165.70		165.70	
46	R114	Dharanidhar Marg	569.00		569.00	569.00	569.00	569.00		560.00	
47	R113	Kavi Lekh Marg	746.20		746.20	746.20	746.20	746.20		746.20	
48	R3	Dharamban Marg	2,254.10		2,254.10	2,254.10	2,254.10	2,254.10		2,080.30	
49	R3 -(T3 Family planning to DUDBC)		337.00		337.00	337.00	337.00	337.00	337.00	337.00	
50	R84	West of school	237.00		237.00	237.00	237.00	237.00		237.00	
51	R84		248.90		248.90	248.90	248.90	248.90		248.90	
52	R85	Machha Line	153.80		153.80	153.80	153.80	153.80		153.80	
53	R87	Mahabir Chowk	234.20		234.20	234.20	234.20	234.20		234.20	
54	R86	Petrol pump side -R12	191.50		191.50	191.50	191.50	191.50		191.50	
55	R11	R18/R86	204.10		204.10	204.10	204.10	204.10		204.10	



SN	Road Number	Name of Road	Length in m			Work Completed				Remarks	
			Progress		Total	Sub-base	Base	Asphalt	RCC		Paint
			Previous	This Month		m	m	m	m		m
56	N3	Jatuwa	122.00		122.00	122.00	122.00	122.00		122.00	
57	N3	Janani Marga	280.00		280.00	280.00	280.00	280.00		280.00	
58	N4(R16 to R21)	Jatuwa	168.80		168.80	168.80	168.80	168.80		168.80	
59	R10	R35 to R76	670.80		670.80	670.80	670.80	670.80		670.80	
60	T2L26F	APF	55.00		55.00	55.00	55.00	55.00		55.00	
61	T2L27		75.00		75.00	75.00	75.00	75.00		75.00	
62	R122		251.00	190.00	441.00	441.00	251.00	251.00		251.00	
63	N9		222.60		222.60	222.60	222.60	222.60		222.60	
64	R17		374.00		374.00	374.00	374.00	374.00		374.00	
65	R18		387.30		387.30	387.30	387.30	387.30		300.00	
66	N2		117.00		117.00	117.00	117.00	117.00		117.00	



SN	Road Number	Name of Road	Length in m			Work Completed				Remarks	
			Progress		Total	Sub-base	Base	Asphalt	RCC		Paint
			Previous	This Month		m	m	m	m		m
67	T3L6	Moti Marga	158.30		158.30	158.30	158.30	158.30		158.30	
68	T3L6	CDO Office front	49.40		49.40	49.40	49.40	49.40		49.40	
69	R45	Bata road	510.70		510.70	510.70	510.70	510.70		510.70	
70	T3L21		547.00		547.00	547.00	547.00	547.00		547.00	
71	N5	R16 to R18	67.20		67.20	67.20	67.20	67.20		67.20	
72	T3L39		340.00		340.00	340.00	340.00	340.00		340.00	
73	T3L39A		138.00		138.00	138.00	138.00	138.00		138.00	
74	T3L39B		60.00		60.00	60.00	60.00	60.00		60.00	
75		Milan Marga	130.00	120.00	250.00	250.00	250.00	250.00			
76	R68 - T2L24G		218.00		218.00	218.00	218.00	218.00		218.00	
77	N10		194.00		194.00	194.00	194.00	194.00		194.00	



SN	Road Number	Name of Road	Length in m			Work Completed					Remarks
			Progress		Total	Sub-base	Base	Asphalt	RCC	Paint	
			Previous	This Month		m	m	m	m	m	
78	T3L24C &D	Hanuman Das Road	200.00		200.00	200.00	200.00	200.00			
79	R6(N2 to R41)		1,832.80		1,832.80	1,832.80	1,832.80	1,832.80		1,327.00	
80	N24		144.00		144.00	144.00	144.00	144.00		144.00	
81	R31		189.20		189.20	189.20	189.20	189.20		189.20	
82	N27	Bindabasini Marga	354.00		354.00	354.00	354.00	354.00		354.00	
83	R73 (R2 to R5)		217.00		217.00	217.00	217.00	217.00		217.00	
84	R6 (R41-R44)	Bata Galli	269.00		269.00	269.00	269.00	269.00		269.00	
85	R9 (T3Line11K)	R41-R7	194.80		194.80	194.80	194.80	194.80		194.80	
86	R44	Thakurbadi Road	727.10		727.10	727.10	727.10	727.10		727.10	
87	R102	Main	140.00		140.00	140.00	140.00	140.00		140.00	
88	R102	Branch	71.30		71.30	71.30	71.30	71.30		71.30	



SN	Road Number	Name of Road	Length in m			Work Completed					Remarks
			Progress		Total	Sub-base	Base	Asphalt	RCC	Paint	
			Previous	This Month		m	m	m	m	m	
89	R103		171.30		171.30	171.30	171.30	171.30		171.30	
90	R32		189.20		189.20	189.20	189.20	189.20		189.20	
91	T2L18Y		116.20		116.20	116.20	116.20	116.20		116.20	
92	R20		108.00		108.00	108.00	108.00	108.00		108.00	
93	R82 (T1Line5)	Everest School	522.80		522.80	522.80	522.80	522.80		522.80	
94	T1L5A		171.90		171.90	171.90	171.90	171.90		171.90	
95	T3L23C	North to Jay Nepal	87.00		87.00	87.00	87.00	87.00		87.00	
96	T3L25B		285.00		285.00	285.00	285.00	285.00		285.00	
97	T3L25C		140.00		140.00	140.00	140.00	140.00			
98	R3(T3 Trunk)	Tinpaini to Sanihat	680.00		680.00	680.00	680.00	680.00		680.00	
99	Nagmandir to R3		55.00		55.00	55.00	55.00	55.00		55.00	





SN	Road Number	Name of Road	Length in m			Work Completed				Remarks	
			Progress		Total	Sub-base	Base	Asphalt	RCC		Paint
			Previous	This Month		m	m	m	m		m
100	R4		960.00		960.00	960.00	960.00	960.00		960.00	
101	R75		137.00		137.00	137.00	137.00	137.00		137.00	
102	R43		329.40		329.40	329.40	329.40	329.40		329.40	
103	T219P		124.80		124.80	124.80	124.80	124.80		124.80	
104	T219Q		113.70		113.70	113.70	113.70	113.70		113.70	
105	R106		195.00		195.00	195.00	195.00	195.00		195.00	
106	T3L12		80.00		80.00	80.00	80.00	80.00		80.00	
107	R46		610.00		610.00	610.00	610.00	610.00		610.00	
108	T3L11E		124.55		124.55	124.55	124.55	124.55		124.55	
109	T3L13D		70.00		70.00	70.00	70.00	70.00		70.00	
110	T3L13C		102.00		102.00	102.00	102.00	102.00		102.00	



SN	Road Number	Name of Road	Length in m			Work Completed					Remarks
			Progress		Total	Sub-base	Base	Asphalt	RCC	Paint	
			Previous	This Month		m	m	m	m	m	
111	R34		157.40		157.40	157.40	157.40	157.40		157.40	
112	T3L13E		64.00		64.00	64.00	64.00	64.00		64.00	
113	T3L13K		76.00		76.00	76.00	76.00	76.00		76.00	
114	R19		228.00		228.00	228.00	228.00	228.00		228.00	
115	R41		540.00		540.00	540.00	540.00	540.00		540.00	
116	R9B		83.85		83.85	83.85	83.85	83.85		83.85	
117	R67		119.40		119.40	119.40	119.40	119.40		119.40	
118	R74		95.00		95.00	95.00	95.00	95.00		95.00	
119	R9A		109.00		109.00	109.00	109.00	109.00		109.00	
120	T2L19F		120.00		120.00	120.00	117.20	117.20		117.20	
121	T3L7A		190.00		190.00	190.00	158.00	158.00		158.00	



SN	Road Number	Name of Road	Length in m			Work Completed					Remarks
			Progress		Total	Sub-base	Base	Asphalt	RCC	Paint	
			Previous	This Month		m	m	m	m	m	
122	T3L13F		75.00		75.00	75.00	75.00	75.00		75.00	
123	T3L11M		85.00		85.00	85.00	85.00	85.00		85.00	
124	T3L33A (N7)		135.00		135.00	135.00	135.00	135.00		135.00	
125	R35		142.50		142.50	142.50	142.50	142.50		142.50	
126	R83		130.00		130.00	130.00	130.00	130.00		130.00	
127	R105		174.00		174.00	174.00	174.00	174.00		174.00	
128	R15		194.00		194.00	194.00	194.00	194.00		194.00	
129	R181		196.00		196.00	196.00	196.00	196.00			
130	R181A		-	84.40	84.40	84.40	84.40	84.40			
131	N38		358.00		358.00	358.00	358.00	358.00		358.00	
132	T2L26E	Bhanu Tole	107.00		107.00	107.00	107.00	107.00		107.00	



SN	Road Number	Name of Road	Length in m			Work Completed					Remarks
			Progress		Total	Sub-base	Base	Asphalt	RCC	Paint	
			Previous	This Month		m	m	m	m	m	
133	T2L19G		63.00		63.00	63.00	63.00	63.00		63.00	
134	T3L19H		84.00		84.00	84.00	84.00	84.00		84.00	
135	T2L19V		90.00		90.00	90.00	90.00	90.00		90.00	
136	T2L19Y		110.00		110.00	110.00	110.00	110.00		110.00	
137	T2L19Z		64.00		64.00	64.00	64.00	64.00		64.00	
138	R110		255.00		255.00	255.00	255.00	255.00		225.00	
139	T2L18A		97.00		97.00	97.00	97.00	97.00		97.00	
140	B2		2,584.65		2,584.65	2,584.65	2,584.65	2,584.65	210.00	2,584.65	
141	R7	Sani Haat Chowk to Hospital	746.80		746.80	746.80	746.80	746.80		746.80	
142	R7	(R46-R44) Shree Hospital	155.00		155.00	155.00	155.00	155.00		155.00	



SN	Road Number	Name of Road	Length in m			Work Completed				Remarks	
			Progress		Total	Sub-base	Base	Asphalt	RCC		Paint
			Previous	This Month		m	m	m	m		m
143	T3 Line18A	Nearby Neuro parking	79.32		79.32	79.32	79.32	79.32		79.32	
144	T3L21A	Milan Chowk	123.40		123.40	123.40	123.40	123.40		123.40	
145	T3L18C		103.00		103.00	103.00	103.00	103.00		103.00	
146	R39	Sansari Maisthan	180.00		180.00	180.00	180.00	180.00		180.00	
147	R40		330.60		330.60	330.60	330.60	330.60		330.60	
148	R101		270.00		270.00	270.00	270.00	270.00		270.00	
149	T3Line5	Sanihat to Nagarpalika	285.00		285.00	285.00	285.00	285.00		285.00	
150	R7(R21 to R18)		68.00		68.00	68.00	68.00	68.00		68.00	
151	R7(R25 to R27		155.00		155.00	155.00	155.00	155.00		155.00	
152	R9(R37 to R30)		219.60		219.60	219.60	219.60	219.60		219.60	
153	N8		166.90		166.90	166.90	166.90	166.90		166.90	



SN	Road Number	Name of Road	Length in m			Work Completed					Remarks
			Progress		Total	Sub-base	Base	Asphalt	RCC	Paint	
			Previous	This Month		m	m	m	m	m	
154	R7		983.00		983.00	983.00	983.00	983.00		983.00	
155	R5		110.00		110.00	110.00	110.00	110.00			
156	T2Line11N		65.00		65.00	65.00	65.00	65.00		65.00	
157	R6	Siddhartha to R46	185.00		185.00	185.00	185.00	185.00		185.00	
158	R100 (T2Line 22B)		150.00		150.00	150.00	150.00	150.00		150	
159	T3 Trunk Line	Devkota to Family Planning	340.00		340.00	340.00	340.00	340.00		340.00	
160	T3Line25A		302.00		302.00	302.00	302.00	302.00		302.00	
161	T3 Line23C		90.00		90.00	90.00	90.00	90.00		90.00	
162	R10	Ram Marga	180.00	42.60	222.60	222.60					
163	T2 Line18K		76.00		76.00	76.00	76.00	76.00		76.00	
164	R47	Matrika Marga	322.00		322.00	322.00	322.00	322.00		322.00	





SN	Road Number	Name of Road	Length in m			Work Completed					Remarks
			Progress		Total	Sub-base	Base	Asphalt	RCC	Paint	
			Previous	This Month		m	m	m	m	m	
165	T3 Line22 (Devkota chowk to NRB)		190.00	203.00	393.00	393.00	393.00	393.00		190.00	
166	R26	east of R3	324.00		324.00	324.00	324.00	324.00		324.00	
167	R27	east of R3	186.00		186.00	186.00	186.00	186.00		186.00	
168	N33	Parichaya Marga	194.50		194.50	194.50	194.50	194.50		194.50	
169	T3Line10C	Green cross Line	150.00		150.00	150.00	150.00	150.00		150.00	
170	N23		75.00		75.00	75.00	75.00	75.00			
171	R10		181.00		181.00	181.00	181.00	181.00		181.00	
172	R15		340.00		340.00	340.00	340.00	340.00		340.00	
173	T3 Trunk	DUDBC off to Sanihat	231.70	120.00	351.70	351.70	351.70	231.70		231.70	
174	R16	East of Dharambad	218.10		218.10	218.10	218.10	218.10		218.10	



SN	Road Number	Name of Road	Length in m			Work Completed					Remarks
			Progress		Total	Sub-base	Base	Asphalt	RCC	Paint	
			Previous	This Month		m	m	m	m	m	
175	T3Line10	Green cross Line	184.20		184.20	184.20	184.20	184.20			
176	T2Line19B	Jaycess Marga	148.00		148.00	148.00	148.00	148.00		148.00	
177	T3Line13C	Kumari Mill Line	229.30		229.30	229.30	229.30	229.30		229.30	
178	T2Line22A	Indreni Marga	382.00		382.00	382.00	382.00	382.00		382.00	
179	T2Line19W	Near Parichaya Marga	58.80		58.80	58.80	58.80	58.80		58.80	
180	R64		123.00		123.00	123.00	123.00	123.00		123.00	
181	R6	Shital Yadav Clinic Road	180.00		180.00	180.00	180.00	180.00		180.00	
182	R11	Om Shanti Marga	317.00		317.00	317.00	317.00	317.00		317.00	
183	R17	Dharambad East	230.00		230.00	230.00	230.00	230.00		230.00	
184	R23		227.00		227.00	227.00	227.00	227.00		227.00	



SN	Road Number	Name of Road	Length in m			Work Completed					Remarks
			Progress		Total	Sub-base	Base	Asphalt	RCC	Paint	
			Previous	This Month		m	m	m	m	m	
185	R13		226.00		226.00	226.00	226.00	226.00		226.00	
186	T2Line18D(N19)		80.00		80.00	80.00	80.00	80.00		80.00	
187	T2Line19K		205.00		205.00	205.00	205.00	205.00		205.00	
188	T1Line7A		75.00		75.00	75.00	75.00	75.00			
189	T1Line7B		86.00		86.00	86.00	86.00	86.00			
190	T1Line7C		70.00		70.00	70.00	70.00	70.00			
191	T1Line 8C		76.00		76.00	76.00	76.00	76.00			
192	T1Line8B	Mukti marga	300.00	50.00	350.00	350.00	350.00	155.00			
193	R70		216.00		216.00	216.00	216.00	70.00			
194	R4		1,200.00		1,200.00	1,200.00	1,200.00	1,200.00		1,150.00	
195	R83		370.00		370.00	370.00	370.00	370.00			



SN	Road Number	Name of Road	Length in m			Work Completed					Remarks
			Progress		Total	Sub-base	Base	Asphalt	RCC	Paint	
			Previous	This Month		m	m	m	m	m	
196	R5(Satghumti to Mahabir)		200.00		200.00	200.00	200.00	200.00		200.00	
197	R71		105.00		105.00	105.00	105.00	105.00			
198	T1Line 17		85.00		85.00	85.00	85.00	85.00			
199	T1Line16		215.00		215.00	215.00	215.00	215.00			
200	T3Line7		120.00		120.00	120.00	120.00	120.00			
201	T3Line26E		250.00	98.00	348.00	348.00	250.00	250.00			
202	T3Line26H		55.00	3.65	58.65	58.65	58.65	58.65			
203	R7(R28-R29)		200.00	(13.40)	186.60	186.60	186.60	186.60			
204	R4 Branch		200.00		200.00	200.00	200.00	200.00		200.00	
205	N34		175.24	(48.74)	126.50	126.50	126.50	126.50		175.24	
206	R6		460.00		460.00	460.00	460.00	460.00		460.00	



SN	Road Number	Name of Road	Length in m			Work Completed					Remarks
			Progress		Total	Sub-base	Base	Asphalt	RCC	Paint	
			Previous	This Month		m	m	m	m	m	
207	R111		160.00	(4.30)	155.70	155.70	155.70	155.70			
208	R111(A)		65.00	(4.10)	60.90	60.90	60.90	60.90			
209	R112		140.00	76.50	216.50	216.50	216.50	216.50			
210	T3L-26		130.00		130.00						
211	Mahendra to R12 (T1Line 13)		230.00	(19.80)	210.20	210.20	210.20	210.20			
212	T3Line24B		230.00	(54.00)	176.00	176.00	176.00	176.00			
213	N1		105.00		105.00	95.00					
214	R121		125.00	(27.80)	97.20	97.20	97.20	97.20			
215	T3 Line 11F (Gyan Marga)		70.00		70.00						
216	B2 Branch		80.00	15.50	95.50	95.50	95.50	95.50			
217	N40 (Near R29)		135.00	(11.00)	124.00	124.00	124.00	124.00			
218	N39		95.00		95.00						



SN	Road Number	Name of Road	Length in m			Work Completed					Remarks
			Progress		Total	Sub-base	Base	Asphalt	RCC	Paint	
			Previous	This Month		m	m	m	m	m	
219	T2Line 19o( Prativa chowk)		60.00		60.00						
220	N15		50.00		50.00						
221	N35		80.00	1.00	81.00	81.00	81.00	81.00			
222	Ghoghapaini		650.00	257.00	907.00	907.00	650.00	650.00		650.00	
223	R3 - Under STIUEIP				-					4,000.00	
224	Barganchhi to Durga chowk			603.00	603.00	603.00	603.00	603.00			
225	T3L27 - Branch1			134.30	134.30	134.30	134.30	134.30			
226	R109			128.00	128.00	128.00	128.00	128.00			
227	R109	R107 - South		97.00	97.00	97.00	97.00				
228	S13 Branch (East)			51.80	51.80	51.80	51.80	51.80			
229	Durga Chowk to R2			170.40	170.40	170.40	170.40	170.40		170.40	
230	R14			522.50	522.50	522.50					



SN	Road Number	Name of Road	Length in m			Work Completed					Remarks
			Progress		Total	Sub-base	Base	Asphalt	RCC	Paint	
			Previous	This Month		m	m	m	m	m	
231	Keshaliya Marga			735.16	735.16	735.16	735.16				
232	New Jyoti Marga			163.00	163.00	163.00					
233	East of Banjara Road			200.00	200.00	200.00	200.00				
234	R108	North of R107		95.00	95.00	95.00					
235	S13	East of R2		210.00	210.00	210.00					
236	T1L14B	West south of Nepal Bazar		120.00	120.00						
237	T1L14C	West south of Nepal Bazar		65.00	65.00	65.00					
	Total		71,758.73	4,524.87	76,283.60	75,748.60	73,324.50	71,831.34	210.00	69,152.83	



**Table No:-4.1Footpath (Work Progress till date)**

SN	Road Number	Type*	Progress in m			Footpath			Remarks
			Previous	This Month	Cumulative	Length (m)	Avg. Breadth (m)	Quantity (m <sup>2</sup> )	
1	R2	Precast block	1,502.00	500.00	2,002.00	2,002.00	0.98	1,961.96	RHS
2	R2	Precast block	1,202.00	500.00	1,702.00	1,702.00	1.10	1,872.20	LHS
3	R29	Precast block	330.00		330.00	330.00	0.90	297.00	RHS
4	R29	Precast block	330.00		330.00	330.00	0.90	297.00	LHS
5	R28	Precast block	322.00		322.00	322.00	0.90	289.80	RHS
6	R28	Precast block	335.00		335.00	335.00	0.90	301.50	LHS
8	R21	Precast block	365.00		365.00	365.00	1.00	365.00	RHS
9	R21	Precast block	765.00		765.00	765.00	1.00	765.00	LHS
10	R78	Precast block	75.00		75.00	75.00	1.20	90.00	RHS
11	R78	Precast block	75.00		75.00	75.00	1.20	90.00	LHS
12	R77	Precast block	115.00		115.00	115.00	0.90	103.50	RHS
13	R77	Precast block	115.00		115.00	115.00	0.90	103.50	LHS
14	R76	Precast block	275.00		275.00	275.00	0.95	261.25	RHS
15	R76	Precast block	275.00		275.00	275.00	0.95	261.25	LHS
16	R75	Precast block	160.00		160.00	160.00	0.95	152.00	RHS
17	R75	Precast block	160.00		160.00	160.00	0.95	152.00	LHS
18	R10	Precast block	700.00		700.00	700.00	0.95	665.00	RHS
19	R10	Precast block	700.00		700.00	700.00	0.95	665.00	LHS
20	R31	Precast block	175.00		175.00	175.00	0.95	166.25	RHS
21	R31	Precast block	175.00		175.00	175.00	0.95	166.25	LHS
22	R32	Precast block	185.00		185.00	185.00	0.30	55.50	RHS





SN	Road Number	Type*	Progress in m			Footpath			Remarks
			Previous	This Month	Cumulative	Length (m)	Avg. Breadth (m)	Quantity (m <sup>2</sup> )	
23	R32	Precast block	185.00		185.00	185.00	0.30	55.50	LHS
24	R33	Precast block	285.00		285.00	285.00	0.90	256.50	RHS
25	R33	Precast block	170.00		170.00	170.00	0.90	153.00	LHS
26	R16	Precast block	170.00		170.00	170.00	1.20	204.00	RHS
27	R16	Precast block	170.00		170.00	170.00	1.20	204.00	LHS
28	R6	Precast block	700.00		700.00	700.00	1.20	840.00	RHS
29	R6	Precast block	700.00		700.00	700.00	1.20	840.00	LHS
30	B1	Precast block	490.00		490.00	490.00	1.20	588.00	RHS
31	B1	Precast block	490.00		490.00	490.00	3.40	1,666.00	LHS
32	B2 (2)	Precast block	715.00		715.00	715.00	0.59	421.85	RHS
33	B2 (2)	Precast block	715.00		715.00	715.00	1.65	1,179.75	LHS
34	B2 (1)	Precast block	131.00		131.00	131.00	2.60	340.60	RHS
35	B2 (1)	Precast block	131.00		131.00	131.00	0.90	117.90	LHS
36	B3	Precast block	1,160.00		1,160.00	1,160.00	2.33	2,702.80	RHS
37	B3	Precast block	670.00		670.00	670.00	0.70	469.00	LHS
38	S11	Precast block	112.00		112.00	112.00	0.95	106.40	RHS
39	S11	Precast block	75.00		75.00	75.00	1.21	90.75	LHS
40	Rani	Precast block	425.00		425.00	425.00	1.00	425.00	RHS
41	Rani	Precast block	425.00		425.00	425.00	1.00	425.00	LHS
42	R3	Precast block	310.00		310.00	310.00	1.10	341.00	RHS
43	R3	Precast block	1,050.00		1,050.00	1,050.00	1.10	1,155.00	LHS
44	R27	Precast block	400.00		400.00	400.00	1.10	440.00	RHS



SN	Road Number	Type*	Progress in m			Footpath			Remarks
			Previous	This Month	Cumulative	Length (m)	Avg. Breadth (m)	Quantity (m <sup>2</sup> )	
45	R27	Precast block	400.00		400.00	400.00	0.85	340.00	LHS
46	R26	Precast block	300.00		300.00	300.00	1.23	369.00	RHS
47	R26	Precast block	285.00		285.00	285.00	1.10	313.50	LHS
48	R25	Precast block	205.00		205.00	205.00	1.00	205.00	RHS
49	R25	Precast block	201.00		201.00	201.00	1.00	201.00	LHS
50	R7	Precast block	620.00	630.00	1,250.00	1,250.00	0.85	1,062.50	RHS
51	R7	Precast block	661.00	609.00	1,270.00	1,270.00	0.85	1,079.50	LHS
52	T3 Trunk - R46	Precast block	650.00		650.00	650.00	1.15	747.50	RHS
53	T3 Trunk - R46	Precast block	600.00	50.00	650.00	650.00	1.15	747.50	LHS
54	N27	Precast block	-	360.00	360.00	360.00	0.45	162.00	RHS
55	N27	Precast block	-	360.00	360.00	360.00	0.45	162.00	LHS
56	Sanihat Road	Precast block	-	120.00	120.00	120.00	2.25	270.00	LHS
57	T3 Line6A - P1	Precast block	150.00		150.00	150.00	0.85	127.50	RHS
58	T3 Line6A - P1	Precast block	150.00		150.00	150.00	0.85	127.50	LHS
	<b>Total =</b>		<b>22,237.00</b>	<b>3,129.00</b>	<b>25,366.00</b>	<b>25,366.00</b>	<b>61.54</b>	<b>28,017.51</b>	



**Table No: -4.2 Road improvement Works (Work Progress till date)**

SN	Description	Unit	Revised Length	Total Up to Previous Month	This Month	Total Up to this Month	Progress
1	Sub grade	m	76,283.60	71,758.73	4,524.87	76,283.60	100.00%
2	Sub Base	m	76,283.60	70,568.73	5,179.87	75,748.60	99.30%
3	Base	m	76,283.60	69,498.93	3,825.57	73,324.50	96.12%
4	Prime/Tack	m	76,283.60	68,740.00	3,091.34	71,831.34	94.16%
5	Asphalt	m	76,283.60	68,537.93	3,293.41	71,831.34	94.16%
6	Paint	m	76,283.60	50,074.39	19,078.44	69,152.83	90.65%

### 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 contractor has almost completed drain works at many locations provisioned in contract. The progress for the drain works is listed below:

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

SN	Road Number	Name of Road	Length in m					Work Completed		Remarks
			Original	Revised	Progress		Total	Brick	RCC	
					Previous	This Month		m	m	
1	B1	Kanchan Marg	-	-	45.00		45.00	45.00		
2	R29	Shanti Marg	270.00		256.52		256.52	256.52		
3	N36				185.88		185.88	185.88		
4	R8		370.00		219.83		219.83	219.83		
5	R7	Devi Marg and Pipal Marg	155.00	155.00	89.76		89.76	89.76		
6	R63	DSP Road	418.79		418.79		418.79	418.79		
7	R9	Baglamukhi path	120.00	103.20	103.20		103.20	103.20		



SN	Road Number	Name of Road	Length in m					Work Completed		Remarks
			Original	Revised	Progress		Total	Brick	RCC	
					Previous	This Month		m	m	
8	S13	Udaya Marga	-	158.10	79.05		79.05	79.05		
9	N33		-	70.00	60.00		60.00	60.00		
10	R28	Pustakalaya Marg	340.00	278.00	139.00		139.00	139.00		
11	R90	Shakti Marg	320.00		377.30		377.30	377.30		
12	R114	Dharanidhar Marg	-	312.33	312.33		312.33	312.33		
13	R11	Om Shiv Marg	-		204.25		204.25	204.25		
14	R18		-	382.50	389.50		389.50	389.50		
15	R17		-		372.00		372.00	372.00		
16	R113	Kavi Lekhnath Marg	-	312.45	157.15		157.15	157.15		
17	R77	Arniko Marg	97.00		80.00		80.00	80.00		
18	R76	Mitra Marg	272.00	275.00	270.00		270.00	270.00		
19	N9	Devi Marga	-		222.58		222.58	222.58		
20	N4		-	170.00	162.20		162.20	162.20		
21	R33	Tarun Marg	-	265.00	283.15		283.15	283.15		
22	R36	Gaurav Marg	218.00		221.80		221.80	221.80		
23	R86	Janpath Marg	215.00		192.15		192.15	192.15		
24	R183	Nava Jyoti Marg	242.00		219.40		219.40	219.40		
25	R7a		77.81		67.35		67.35	67.35		
26	Rani site	Rani B	-	650.00	365.33		365.33	365.33		
27	Rani site	Rani A	-	300.00	271.50		271.50	271.50		
28	N3		-		126.25		126.25	126.25		
29	N5		-		65.00		65.00	65.00		
30	R21	Binayak Marga	-	390.00	194.13		194.13	194.13		
31	R2	Main Road	2,060.00	2,060.00	2,793.50		2,793.50	2,793.50		



SN	Road Number	Name of Road	Length in m					Work Completed		Remarks
			Original	Revised	Progress		Total	Brick	RCC	
					Previous	This Month		m	m	
32	T1L16B	Xenial Front	-		205.68		205.68	205.68		
33	T1L16A	Xenial South	-	160.00	160.74		160.74	160.74		
34	R75	Tintoliya Marga	135.00	135.00	143.00		143.00	143.00		
35	R122	Amar Marga	-		256.00		256.00	256.00		
36	R18 Branch		-	30.00	30.00		30.00	30.00		
37	R7(b)(Neuro to sidhartha chowk)	Siddhartha Marga	317.00	317.00	365.00		365.00	365.00		
38	R12	Sukra Path	-		846.50		846.50	846.50		
39	R42	Jahada Marga	-		85.50		85.50	85.50		
40	R6	Shahi Marg	460.00		970.00		970.00		970.00	
41	R21(a)	DharamBadh Junction	-	160.00	95.00		95.00	95.00		
42	R188	Shakti Marg		120.00	115.60		115.60	115.60		
43	R40	Brahma Kumari Marga	-		328.20		328.20	328.20		
44	Rani Site C		-	100.00	97.50		97.50	97.50		
45	Ranit Site D		-	131.45	131.45		131.45	131.45		
46	T3L21	Moti Marga	380.00	380.00	527.00		527.00	527.00		
47	T3L39	Gaheli Marga	-	278.00	340.00		340.00	340.00		
48	T3 Line 39A		-	90.00	139.00		139.00	139.00		
49	T3 L39B		-	-	58.50		58.50	58.50		
50	T2L27	Bhumi Prashasan Junction	92.00	80.00	79.50		79.50	79.50		
51	N2				103.20		103.20	103.20		
52	T2 Line 26E	College Road	80.00	80.00	90.00		90.00	90.00		
53	T2 Line 18C	Maisthan Marga	-	105.00	102.00		102.00	102.00		
54	T2Line 18A	Makalu Marga	90.00		90.00		90.00	90.00		
55	R6 (T3L11i)		-	275.00	265.00		265.00	265.00		



SN	Road Number	Name of Road	Length in m					Work Completed		Remarks
			Original	Revised	Progress		Total	Brick	RCC	
					Previous	This Month		m	m	
56	R9 (T3L11k)	Tathasthu Marga	-	200.00	180.00		180.00	180.00		
57	R45 (T3Line10D)	Dadhiram Marga	302.00	302.00	298.00		298.00	298.00		
58	R9, T2 L19	Fanindra Marga and Banglamukhi Marga	256.00	256.00	362.00		362.00	362.00		
59	R7c (Neuro to Shanti Chowk)	Siddhartha Marga	240.00		600.00		600.00	600.00		
60	R84	School Marga and Tenjing Marga	673.00		560.00		560.00	560.00		
61	R85	Lekhanath Marga	162.00		150.00		150.00	150.00		
62	R87	Byas Marga	160.00		150.00		150.00	150.00		
63	Rani B (Bus park)		-	120.00	90.00		90.00	90.00		
64	R8(a)	Madhumara Marg	218.00		312.00		312.00	312.00		
65	T3L23A, R101		263.47	263.47	220.00		220.00	220.00		
66	Rani E		85.00	85.00	80.00		80.00	80.00		
67	R102	Hamro Marg			140.00		140.00	140.00		
68	R10/R10a	Ram Marga	1,092.41		740.36		740.36	740.36		
69	N10	APF	154.48	154.48	193.00		193.00	193.00		
70	R23	Bani Marg	226.12	226.12	200.00		200.00	200.00		
71	R103	Vibuti Marga	173.00	173.00	170.00		170.00	170.00		
72	T3L6 and T3L7	Sahid Marga		350.00	730.00		730.00	730.00		
73	P1, T3L6A	Pandit Meghnath Marga	280.00	280.00	260.00		260.00	260.00		
74	T2 L24C & D	Hanuman Das Marga	176.93	176.93	180.00		180.00	180.00		
75	T2 L25 (R5)	Chulachuli Marga	409.00	409.00	230.00		230.00	230.00		
76	R20		190.00	190.00	108.00		108.00	108.00		
77	T2L24F		120.00	120.00	115.50		115.50	115.50		



SN	Road Number	Name of Road	Length in m					Work Completed		Remarks
			Original	Revised	Progress		Total	Brick	RCC	
					Previous	This Month		m	m	
78	R105		168.19	168.19	86.00		86.00	86.00		
79	R34	Prabhu Marg	151.00	151.00	158.35		158.35	158.35		
80	R35	Garima Marg	138.00	138.00	140.00		140.00	140.00		
81	R107		180.00	180.00	160.00		160.00	160.00		
82	T3L13D		80.00	80.00	70.63		70.63	70.63		
83	T3L13E		70.00	70.00	62.40		62.40	62.40		
84	T3L11E		160.00	160.00	110.00		110.00	110.00		
85	B2				210.00		210.00	210.00		
86	R78				35.00		35.00	35.00		
87	T3L21B				70.00		70.00	70.00		
88	T3L21A				50.00		50.00	50.00		
89	R74				96.00		96.00	96.00		
90	R46, (T3L7 and T3L22)	Rangeli Road			400.00		400.00	400.00		
91	T3L7A				125.00		125.00	125.00		
92	T3L8				75.00		75.00	75.00		
93	R5, (T2 L24)	Gudari Marga			300.00		300.00	300.00		
94	R82				190.00		190.00	190.00		
95	T1L13A				100.00		100.00	100.00		
96	T1L14A				150.00		150.00	150.00		
97	R68				200.00		200.00	200.00		
98	T3L22A				335.00		335.00	335.00		
99	T3L22B				120.00		120.00	120.00		
100	T3L25C				140.00		140.00	140.00		
101	T3L11B				71.00		71.00	71.00		
102	T3L11M				82.00		82.00	82.00		



SN	Road Number	Name of Road	Length in m					Work Completed		Remarks
			Original	Revised	Progress		Total	Brick	RCC	
					Previous	This Month		m	m	
103	R106				70.00		70.00	70.00		
104	R41				520.00		520.00	520.00		
105	T2L19B				130.00		130.00	130.00		
106	R30				180.00		180.00	180.00		
107	T3L13C				300.00		300.00	300.00		
108	T3L13J				72.53		72.53	72.53		
109	T2L18Y				100.00		100.00	100.00		
110	T2L19P				114.38		114.38	114.38		
111	T2L19Q				126.55		126.55	126.55		
112	R9A				109.30		109.30	109.30		
113	R9B				85.00		85.00	85.00		
114	T2L18K				74.70		74.70	74.70		
115	T3L23C				105.00		105.00	105.00		
116	T2L24E	Mahabir Marga			216.00		216.00	216.00		
117	R44				700.00		700.00	700.00		
118	R110				250.00		250.00	250.00		
119	Parichaya Marga				190.00		190.00	190.00		
120	T3L25B				195.00		195.00	195.00		
121	T1L5, 5A				590.00		590.00	590.00		
122	T2L19Y				150.00		150.00	150.00		
123	T3 Trunk				1,555.08		1,555.08	1,555.08		
124	T2L19F				118.00		118.00	118.00		
125	T2L18D				75.00		75.00	75.00		
126	R19				226.00		226.00	226.00		
127	R83	Shiva Marga			480.00		480.00	480.00		





SN	Road Number	Name of Road	Length in m					Work Completed		Remarks
			Original	Revised	Progress		Total	Brick	RCC	
					Previous	This Month		m	m	
128	T3L10B, T3L7D (R46)	Rangeli Road			400.00		400.00	400.00		
129	T2L19G				60.00		60.00	60.00		
130	R4 (T2 Trunk)	Jatuwa Marga			490.00		490.00	-	490.00	
131	T3L25B, Outlet	Madhumara			96.00		96.00	96.00		
132	T3L7B	Matrika Marga			150.00		150.00	150.00		
133	T3L5	Sanihat Marga			210.00		210.00	210.00		
134	T2L19H				85.00		85.00	85.00		
135	R181				193.00		193.00	193.00		
136	N38				200.00		200.00	200.00		
137	T3L10C	Paurakh Marga			110.00		110.00	110.00		
138	T3L10F				135.00		135.00	135.00		
139	T3L10, R6				340.00		340.00	340.00		
140	R47 (T3L10A)	Matrika Marga			150.00		150.00	150.00		
141	R12	Kanchhadai Marga			795.00		795.00	795.00		
142	R8 (b)	Sahayogi Marga			65.00		65.00	65.00		
143	T1L7A	Piyush Marga			70.00		70.00	70.00		
144	T1L7B				70.00		70.00	70.00		
145	T1L7C				70.00		70.00	70.00		
146	T1L8C				70.00		70.00	70.00		
147	R39	Maisthan Marga			100.00		100.00	100.00		
148	N7	Amar Marga			130.00		130.00	130.00		
149	N8	Amar Marga			160.00		160.00	160.00		
150	R26	Amar Marga			290.00		290.00	290.00		
151	T3L25A	Bhakti Marga			280.00		280.00	280.00		
152	R16, T3L36	Satya Marga			200.00		200.00	200.00		



SN	Road Number	Name of Road	Length in m					Work Completed		Remarks
			Original	Revised	Progress		Total	Brick	RCC	
					Previous	This Month		m	m	
153	R17, T3L35				227.00		227.00	227.00		
154	T3L20	Janani Marga			275.00		275.00	275.00		
155	N34, T3L31A				168.00		168.00	168.00		
156	T2L19W	Bhugol Marga			57.00		57.00	57.00		
157	T2L19V	Bhugol Marga			90.00		90.00	90.00		
158	T1L8B	School Marga			285.00		285.00	285.00		
159	T2L19K	Sundar Marga			207.00		207.00	207.00		
160	T2L19o				70.00		70.00	70.00		
161	T3L26E	R29 Branch 3			248.00		248.00	248.00		
162	T1L16C	CPN-UML office opposite			204.00		204.00	204.00		
163	T1L17	R181---R90			84.60		84.60	84.60		
164	R70	Himalaya Road			200.00		200.00	200.00		
165	R6	Abadhnarayan Memorial Road			400.00		400.00	400.00		
166	R71	Morang Sahakari Hospital			107.00		107.00	107.00		
167	T1L13	Om Shiv Marg			72.50		72.50	72.50		
168	R4 Branch	Jatuwa Marga			185.00		185.00	185.00		
169	N1				100.00		100.00	100.00		
170	R111				215.00		215.00	215.00		
171	N40				30.00		30.00	30.00		
172	T3L24B	Asta Chiranjivi Marga			72.00		72.00	72.00		
173	Rani	Parjatantra Marga				78.58	78.58	78.58		
	<b>Total</b>				<b>39,122.11</b>	<b>78.58</b>	<b>39,200.69</b>	<b>37,740.69</b>	<b>1460.00</b>	



### 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"> <li>Office space three &amp; 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.</li> <li>Staff quarter is of one storey building with 2 Nos. of Toilet with facilities mentioned in bullet No.: 3.2.3 of this report.</li> <li>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.</li> </ul>	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"> <li>Yard space in 10 Katha land with 4 Nos. of toilet with facilities mentioned in bullet No.: 3.2.3 of this report.</li> <li>Asphalt plant is having 2 Biggha land possess 6 Nos. of Toilet which are going to use by the gangs of road workers fulfil the criteria mentioned in bullet No.: 3.2.3 of this report.</li> </ul>	Have proper electric lightning system, water supply,
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 14<sup>th</sup> 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 (6numbers) 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 1<sup>st</sup>, 2<sup>nd</sup> and 3<sup>rd</sup> December, 2018 following issues were found. Social Safeguard revisited the site on 29<sup>th</sup>, 30<sup>th</sup> and 31<sup>st</sup> 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 (Waking 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

Relocation of water supply pipelines at Tinpaini to Hospital Chowk (R7), B1 – Kanchanbari, T3L10E, T3L10, T3L39, T3L39A, T3L39B, T3L23C, Nagarpalika to Devkota chowk-R3, Om shanti marga-T3L22A, Moti Marga-T3L21, R100, P1, R24, Hospital Chowk to Siddhartha chowk-R7, Paribar Niyojan to Adharsha school, R181C, R181A, R21, R29, R181, R6 and R12 are 3024.00, 1319.00, 845.00, 757.70, 324.00, 333.00, 210.00, 183.00, 2400.00, 830.00, 1100.00, 300.00, 601.00, 800.00, 360.00, 380.00, 860.00, 122.70, 18.40, 396, 1376, 300 meters in length are completed. 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	
	Sub Total =		324.00	
5	T3L39A	2"	207.00	
	Sub Total =		207.00	





S.N.	Road Name	Pipe Size (Inch)	Pipe Length (m.)	Remarks
6	T3L39B	1.5"	210.00	
	<b>Sub Total =</b>		<b>210.00</b>	
7	T3L23C	2"	177.60	
	<b>Sub Total =</b>		<b>177.60</b>	
8	R21(Binayak marg & Prativa marg)	3"	122.70	
		6"	22.00	
	<b>Sub Total =</b>		<b>144.70</b>	
9	R29 (Santi marg)	4"	18.40	
	<b>Sub Total =</b>		<b>18.40</b>	
10	T3L21 (Moti marg)	2"	1,083.60	
	<b>Sub Total =</b>		<b>1,083.60</b>	
11	T3L22A (Indra marg)	2"	819.00	
	<b>Sub Total =</b>		<b>819.00</b>	
12	T3L22B	2"	273.50	
	<b>Sub Total =</b>		<b>273.50</b>	
13	T3L5( Sanihat marg)	3"	291.50	
		8"	19.20	
	<b>Sub Total =</b>		<b>310.70</b>	
14	R181	2"	396.00	
	<b>Sub Total =</b>		<b>396.00</b>	
15	T3 trunk (Sanihat to Devkota Chowk)	3"	2,364.30	
	<b>Sub Total =</b>		<b>2,364.30</b>	
16	T3trunk (Tinpaini to Hospital Chowk)	3"	3,008.00	
	<b>Sub Total =</b>		<b>3,008.00</b>	
17	T3L6 (Moti marg)	2"	317.30	
	<b>Sub Total =</b>		<b>317.30</b>	
18	T3L10F (Shiva marg)	2"	306.70	
	<b>Sub Total =</b>		<b>306.70</b>	
19	R24 (Prabhat marg)	2"	769.00	
	<b>Sub Total =</b>		<b>769.00</b>	
20	T3L18D	2"	160.00	
	<b>Sub Total =</b>		<b>160.00</b>	
21	R12(Shukra path)	2"	300.00	
	<b>Sub Total =</b>		<b>300.00</b>	
22	R6	2"	1,376.20	
	<b>Sub Total =</b>		<b>1,376.20</b>	
23	T1L16C (Panchali marg)	2"	408.00	
		4"	1.20	
	<b>Sub Total =</b>		<b>409.20</b>	



S.N.	Road Name	Pipe Size (Inch)	Pipe Length (m.)	Remarks
24	R3 Branch	2"	24.00	
	<b>Sub Total =</b>		<b>24.00</b>	
25	R5 (Chulachuli marg)	2"	483.00	
	<b>Sub Total =</b>		<b>483.00</b>	
26	R26 (Pasang marg)	2"	500.00	
	<b>Sub Total =</b>		<b>500.00</b>	
	<b>Total =</b>		<b>16,728.70</b>	

**Table – 5: Status of Labor at Site**

Labour class	Labour		Composition		Ethnic composition				
	Skilled	Unskilled	Male	Female	Janjati	Dalit	Muslim	Madhesi	Brahmin/Chhetri
Local	59	123	156	26	11	65	35	71	0
Non local	30	85	115	0	5	33	6	71	0
Indian	0	0	0	0	0	0	0	0	0
<b>TOTAL</b>	<b>89</b>	<b>208</b>	<b>271</b>	<b>26</b>	<b>16</b>	<b>98</b>	<b>41</b>	<b>142</b>	<b>0</b>



### 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 <sup>th</sup> October 2017		339,105,000.00	Mobilization Advance
2	IPC 02	2 <sup>nd</sup> April 2018	2 <sup>nd</sup> November 2017 to 31 <sup>st</sup> March 2018	261,501,492.21	
3	IPC 03	1 <sup>st</sup> July 2018	1 <sup>st</sup> April 2018 to 30 <sup>th</sup> June 2018	316,582,708.58	
4	IPC 04	1 <sup>st</sup> October 2018	1 <sup>st</sup> July 2018 to 31 <sup>st</sup> September 2019	105,227,887.16	
5	IPC 05	2 <sup>nd</sup> December 2018	1 <sup>st</sup> October 2018 to 30 <sup>th</sup> November 2018	95,951,603.44	
6	IPC 06	31 <sup>st</sup> January 2019	1 <sup>st</sup> December 2018 to 31 <sup>st</sup> January 2019	264,937,394.98	
7	IPC 07	12 <sup>th</sup> April 2019	1 <sup>st</sup> February 2019 to 31 <sup>st</sup> March 2019	308,805,662.97	
8	IPC 08	9 <sup>th</sup> May 2019	1 <sup>st</sup> April 2019 to 30 <sup>th</sup> April 2019	106,210,198.68	
9	IPC 09	10 <sup>th</sup> June 2019	1 <sup>st</sup> May 2019 to 31 <sup>st</sup> May 2019	90,419,375.33	
10	IPC 10	11 <sup>th</sup> July 2019	1 <sup>st</sup> June 2019 to 30 <sup>th</sup> June 2019	67,863,056.59	



S.No.	Description	Submission date	Covering date	Submitted Amount(NRs)	Remarks
11	IPC 11	30 <sup>th</sup> September 2019	1 <sup>st</sup> July 2019 to 30 <sup>th</sup> September 2019	95,296,297.30	
12	IPC 12	3 <sup>rd</sup> November 2019	1 <sup>st</sup> October 2019 to 31 <sup>st</sup> October 2019	53,113,369.86	
13	IPC 13	30 <sup>th</sup> November 2019	4 <sup>th</sup> June 2019 to 30 <sup>th</sup> June 2019	125,965,923.87	
14	IPC 14	31 <sup>st</sup> December 2019	1 <sup>st</sup> December 2019 to 31 <sup>st</sup> December 2019	63,509,092.84	
15	IPC 15	4 <sup>th</sup> February 2020	1 <sup>st</sup> Jan 2020 to 31 <sup>st</sup> Jan 2020	232,027,037.24	
16	IPC 16	1 <sup>st</sup> March 2020	1 <sup>st</sup> Feb, 2020 to 29 <sup>th</sup> Feb, 2020	102,186,834.62	
17	IPC 17	1 <sup>st</sup> July 2020	1 <sup>st</sup> March, 2020 to 30 <sup>th</sup> June, 2020	153,448,663.15	
18	IPC 18	05 <sup>th</sup> Oct. 2020	1 <sup>st</sup> July, 2020 to 30 <sup>th</sup> Sep, 2020	90,563,317.45	
19	IPC 19	2 <sup>nd</sup> Dec. 2020	1 <sup>st</sup> Nov, 2020 to 30 <sup>th</sup> Nov, 2020	88,324,292.52	
20	IPC 20	17 <sup>th</sup> Jan 2021	1 <sup>st</sup> Dec, 2020 to 31 <sup>st</sup> Dec, 2020	70,349,421.43	
<b>Total amount excluding PA &amp; Mobilization advance till date =</b>				<b>2,692,283,630.22</b>	

**Note:**

- Revised EOT and VO-4 of the consultant (DSC) has been submitted to the Employer for perusal and timely approval.
- The cost claim has been determined and recommended by DSC and submitted to PIU for further action.
- Surveying works for As Built are in progress.



## 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.

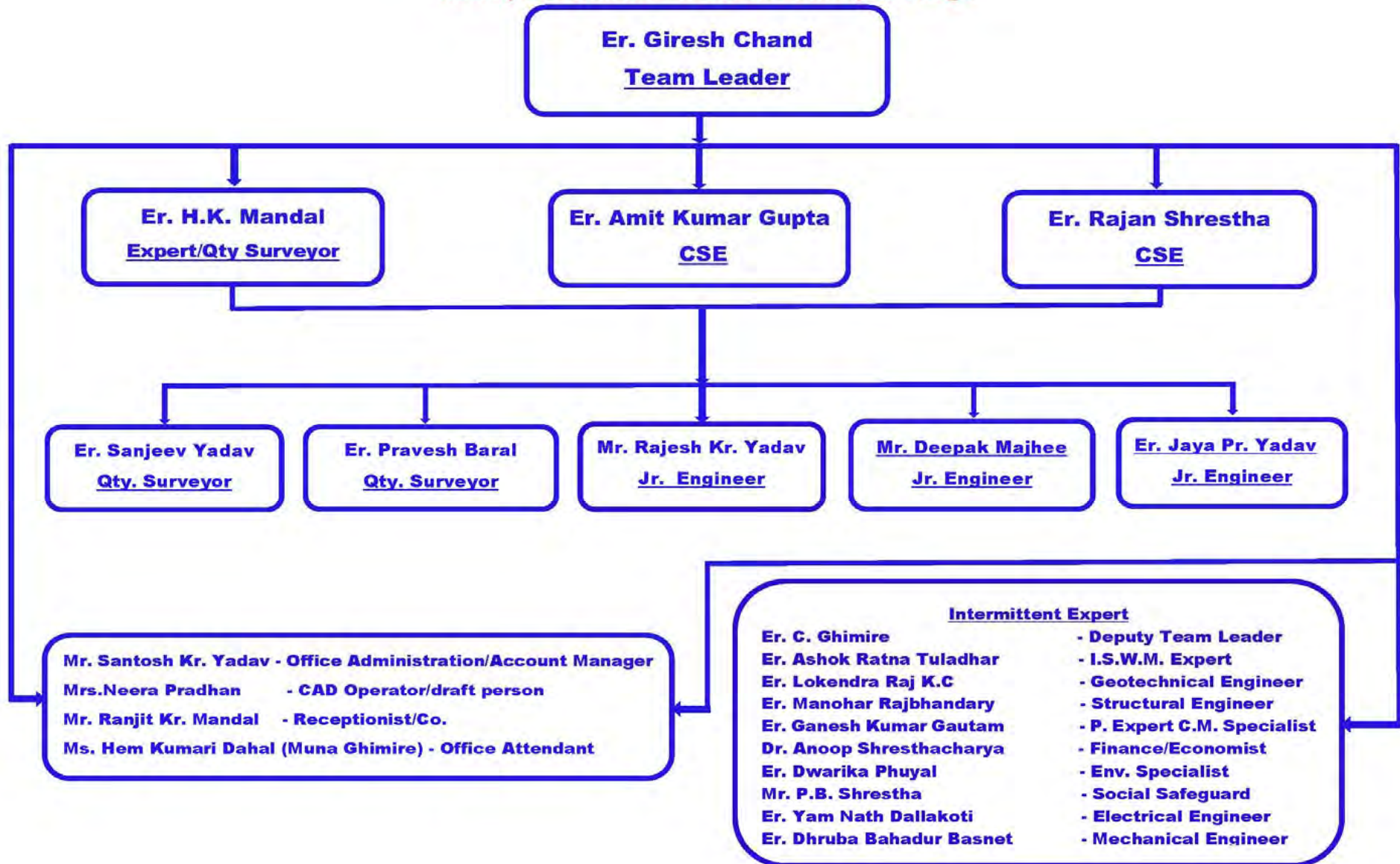


#### 4.3. ORGANIZATION AND STAFFING

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 <sup>th</sup> Sep 2017	
2	Mr. Ashok Ratna Tuladhar	ISWM ( Designer)	6 <sup>th</sup> Sep 2017	Intermittent
3	Mr. Dwarika Phuyal	Environmental Safeguard Expert	1 Nov 2017	Intermittent
4	Mr. Prakash Bhakata Shrestha	Social Safeguard Monitoring Expert	26 <sup>th</sup> dec-2017	Intermittent
5	Mr. Hare Krishna Mandal	Expert/Quantity surveyor	1 <sup>st</sup> Nov 2017	
6	Mr. Amit Kumar Gupta	Construction Supervision Engineer	1 <sup>st</sup> March 2018	
7	Mr. Rajan Shrestha	CSE/Quantity Surveyor	7 <sup>th</sup> Nov 2017	Working as CSE from 1 <sup>st</sup> May 2019, already resigned which will be effective from 1 <sup>st</sup> Feb 2021.
8	Mr. Rajesh Kumar Yadav	Junior Engineer-1	6 <sup>th</sup> Sep 2017	
9	Mr. Sanjeev Yadav	Qty. Surveyor	5 <sup>th</sup> Nov 2017	
10	Mr. Santosh Kumar Yadav	Office Administration/Account Manager	6 <sup>th</sup> Sep 2017	
11	Mr. Hem Kumari Dahal (Muna Ghimire)	Office Attendant	6 <sup>th</sup> Sep 2017	
12	Mr. Ranjit Kumar Mandal	Receptionist	10 <sup>th</sup> Dec 2017	
13	Mr. Pravesh Baral	Junior Engineer-2	10 <sup>th</sup> Dec 2017	
14	Mr. J.P Yadav	Junior Engineer-3	1 <sup>st</sup> March 2018	
15	Mr. Deepak Majhee	Junior Engineer-4	1 <sup>st</sup> March 2018	
16	Mrs. Neera Pradhan	CAD operator/Draft Person	10 <sup>th</sup> Dec 2017	
17	Mr. Youb Raj Poudel	Driver	10 <sup>th</sup> 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
February-19	7.96%	70.33%	5.11%	50.38%				-19.95%	Lagging
February-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
February-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%					wrt VO-2
September-20	5.00%	88.11%	2.94%	86.05%			-2.06%	-2.06%	wrt VO-2
October-20	3.00%	91.11%	1.05%	87.10%			-1.95%	-4.01%	Wrt VO-2
November-20	5.82%	96.93%	1.59%	88.69%			-4.23%	-8.24%	Wrt VO-2
December-20	3.07%	100.00%	3.04%	91.73%			-0.03%	-8.27%	Wrt VO-2
January - 21	5.17%	96.90%	5.18%	96.91%	0.01%	0.01%			Wrt VO-3

### 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		As usual conferred about the awareness and training on COVID-19, regarding maintain physical distancing, frequently hand washing, use of PPE (masks, gloves, etc.). Monitoring compliances of PPE's during Pandemic due to COVID-19.	
3		The cost claim has been determined and recommended by DSC for further action to PIU.	
4		Revised EOT and VO-4 of the consultant (DSC) has been submitted to the Employer for perusal and timely approval.	
5	5 <sup>th</sup> Jan 2021	Chaired meeting at DSC, TL Office, Biratnagar	
6	13 <sup>th</sup> Jan 2021	VO-3 & EOT-4 of works have been approved.	



## 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		96,051.00	1050.00	97,101.00	Under progress
2	Kerb Stone	Rm	127,247.02	102,290.80	2000.00	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	



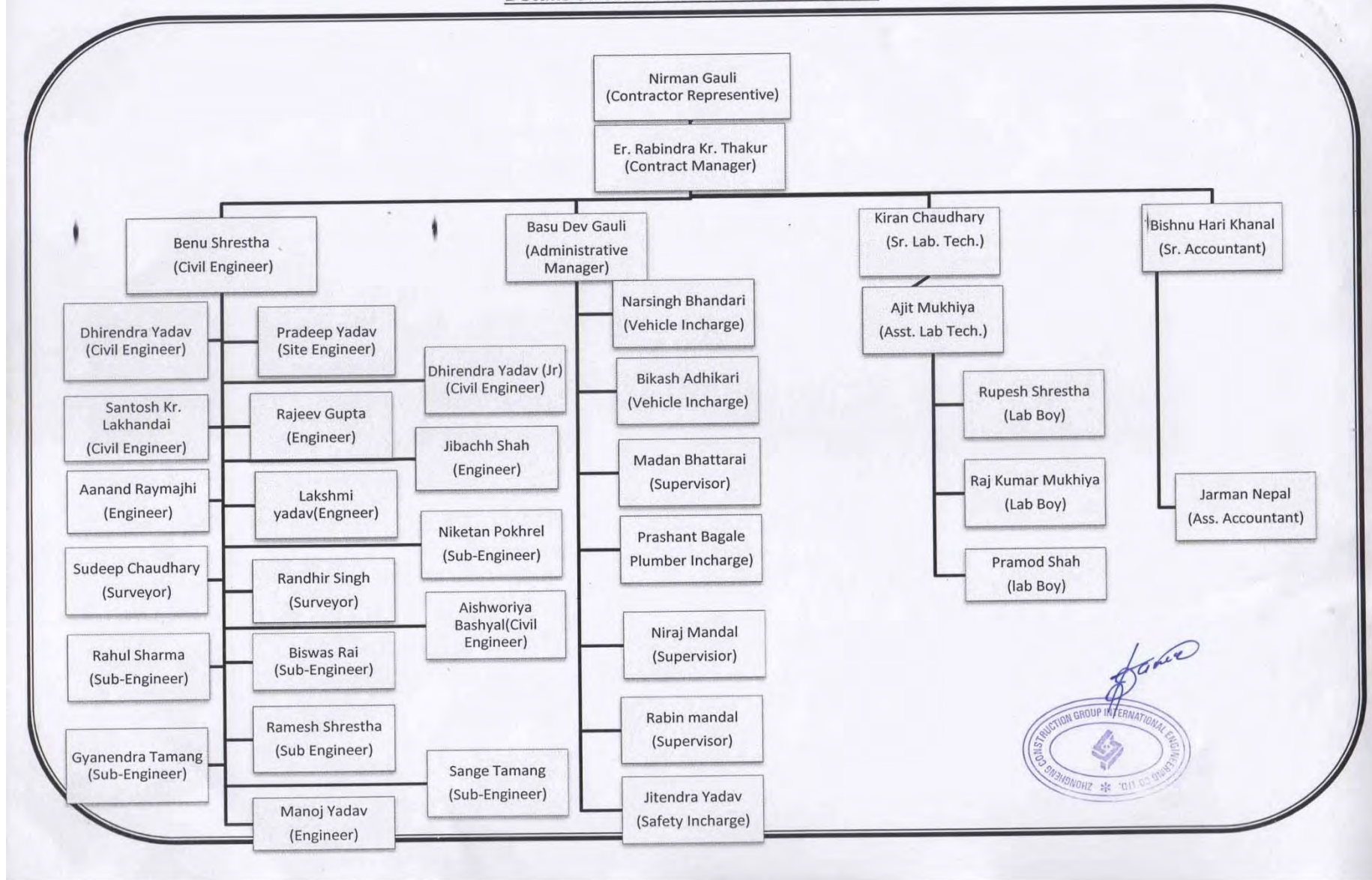
**Table 11: PHYSICAL PROGRESS in PRODUCTION/PURCHASE OF HDPE Pipe till date.**

<i>Physical Progress till date</i>							
<i>S.N.</i>	<i>Description</i>	<i>Diameter (mm)</i>	<i>BoQ (RM)</i>	<i>Progress</i>		<i>Total to Date (RM.)</i>	<i>Remarks</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>BoQ (RM)</i>	<i>Progress</i>		<i>Total to Date (RM.)</i>	<i>Remarks</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	-	1	
7	Site Engineer	-	4	
8	Sub- Engineer	-	3	
9	Accountant	-	2	
10	Senior Lab Technician	-	1	
11	Lab Technician		2	
12	Store Keeper	-	1	
13	Vehicle In charge	-	1	
14	Skilled Labors		89	
15	Unskilled Labors		208	





## 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-4
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		
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	-	2	

## 9. WORK PLAN FOR THE NEXT MONTH

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

- Detail Surveying works at various Road sections.
- Road works
- 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 electric poles and water supply works.
- Repair & Maintenance works, etc.

**Note:**

- The contractor claimed for cost pursuant to relevant clauses of the contract which are perused, recommended and submitted to PIU for further action.
- As built drawings surveying work are in progress.



## ANNEX-1: Photographs of January 2021





Brooming work at Barganchhi to Durga chowk



Road closure information





Brooming at R109



Water sprinkling at R10





A view of Barganchhi to Pani Tanki road



A view of Ghogha Paini road



Manhole cleansing work



Interlock work at Devkota chowk East





Interlock work at Devkota chowk



Soling work for culvert at Keshaliya Road

## ANNEX-2: Minutes of Meeting January 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: 5<sup>th</sup> January 2021

Time: 4:30 PM

Venue: DSC, TL Office, Biratnagar

### Attendance

#### Employer:

- |                                 |                                   |
|---------------------------------|-----------------------------------|
| 1 Mr. Bhim Parajuli             | Mayor, BMC                        |
| 2 Mrs. Indira Karki             | Deputy Mayor, BMC                 |
| 3 Mr. Indra Mani Pokharel       | CAO, BMC                          |
| 4 Mr. Bharat Kumar Neupane      | Project Manager (PM), PIU         |
| 5 Mr. Prakash Narayan Chaudhary | Deputy Project Manager (DPM), PIU |
| 6 Mr. Punam Kumar Dahal         | S.D.O., PIU                       |
| 7 Mr. Anil Singh                | Electrical Engineer, PIU          |
| 8 Mr. Ghanashyam Kafley         | Project Engineer, PIU             |

#### Contractor:

- |                             |                                      |
|-----------------------------|--------------------------------------|
| 1 Mr. Ravindra Kumar Thakur | CM, M/S Zhongheng Construction Group |
|-----------------------------|--------------------------------------|

#### Consultant:

- |                           |                               |
|---------------------------|-------------------------------|
| 1 Mr. Giresh Chand        | TL, DSC                       |
| 2 Mr. Amit Kumar          | CSE, DSC                      |
| 3 Mr. Hare Krishna Mandal | Quantity Surveyor/Expert, DSC |

TL, Mr. Giresh Chand welcomed all the participants in the meeting. Following matters were discussed and decided:

S. NO.	Minutes	Action by
1	<p>TL, Mr Chand briefed about present progress and status of the RUDP Project, as stated below till the end of December 2020:-</p> <p><b>Physical Progress = 91.73%</b>  <b>Financial progress = 87.74%</b> excluding PA.</p> <p><b>Component wise progresses are-</b></p> <p>Road Rehabilitation (Asphalt) = 91.91%  Sewer Line = 100%  Storm Drain = 100%  Road Side Drain = 99.80%;</p> <p>TL, Mr Chand informed that Extension of Time for civil works, all documents for 45 days have been sent for approval as discussed with PCO/PMC and PIU. Mr Chand also said about ADB Mission</p>	The employer, contractor & consultant

Page 1 of Pages 4





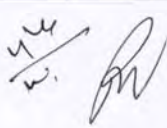


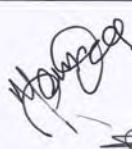
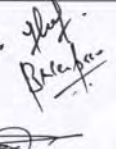
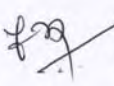
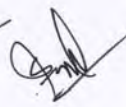
S. NO.	Minutes	Action by
	virtual meeting and informed that everyone from upper management level has appreciated for our presentation, progresses, report's submitted (like Monthly Progress report, Quarterly progress report semi annual reports and annual progress report ,etc.), revealed satisfaction on proper implementation of SoP, occupational health & safety, Environment & social safeguards and admired for good co-ordination among 3's Parties (BMC/PIU, DSC & the Contractor).	
2	<p>TL, Mr Chand emphasized that as physical works under RUDP are almost completed so that as minuted earlier to perform internal VO to arrange the plus minus in BOQ quantities within the ceiling of approved amount. After internal VO, it has been observed/noted that some amount will be balanced due to curtailed appxi 1.5 km road and sewer line etc. Therefore TL, Mr Chand proposed few lanes/routes which are still untouched/incompleted but very essential to minimise the traffic regulation so that accumulated amount may utilise to upgrade the below mentioned roads.</p> <ul style="list-style-type: none"> <li>a) Tapariya Eye Hospital towards east</li> <li>b) R14</li> <li>c) Nava Jyoti Marga</li> <li>d) R122</li> <li>e) DUDBC to S9 (Pipal chowk)</li> <li>f) Culverts ( Keshaliya road canal culvert either side to match with carriage way)</li> <li>g) Keshaliya road towards north approaches to BFM</li> <li>h) S13</li> <li>i) Ghogha Paini towards north</li> <li>j) Haat Kholā to north till Pipal chowk</li> <li>k) Nepal Rastra Bank to east – Haatkholā chowk, etc.</li> </ul> <p>After extensive discussion, Mayor, Deputy Mayor, CAO and PM <b>decided</b> to execute at least the works stated below:</p> <ul style="list-style-type: none"> <li>a) Banjara chowk east (Tapariya Eye Hospital towards east) about 130m in length drain to drain Asphalt work,</li> <li>b) R14 to gravelling with either side earthen drain about 550m in length, <i>North east</i></li> <li>c) <i>Dr. Mr. Pandey</i> Nava Jyoti Marga about 165m in length drain to drain, Asphalt work,</li> <li>d) R122 about 220m in length 5.5m width, Asphalt ( no drain)</li> <li>e) DUDBC east 150m in length up to S9 (Pipal chowk), Asphalt work</li> <li>f) Culvert ( Keshaliya road canal culvert either side to match with carriage way)</li> <li>g) S13 to gravelling about 210m in length, width 5.5 m</li> <li>h) Ghogha Paini towards north about 260m in length; width 7.0 m Asphalt work.</li> </ul>	The employer, contractor & consultant



S. NO.	Minutes	Action by
	<p>Further if ceiling amount allow then also include Nepal Rastra Bank to east – Haatkholah chowk of length about 200.0 m.</p> <p>As far as footpath is concerned, all parties decided and agreed to place interlock in market area as well as dense urbanized areas and exact location will be further exercise/trace as necessary as per site condition jointly by PIU/DSC.</p> <p>At B2 stretch (DPS Road), available more cultivable land either sides rather than the buildings so it is decided to place slab cover over existing drain just in front of the houses which will be economical too &amp; help to cover the execution of above decided proposal.</p>	
3	<p>TL, Mr Chand informed that almost the water supply works under provisional items (100% funded by BMC) are completed but the quantities need to review wrt to approved VO because at the either ends to make connection with existing supply &amp; to match with dia. of pipes with existing supply pipe lines, few modifications have to be made.</p> <p>The Employer after discussion, agreed &amp; decided to review the quantities as per requirement/site and instructed submit to PIU for approval &amp; further action.</p>	The employer & Consultant
4	<p>TL, Mr Chand also queried about the status of land for Integrated Solid Waste Management (ISWM), as BMC committed to arrange before the end of December 2020 but till date no further progress has been achieved.</p> <p>Mayor, Mr. Parajuli informed that purchase/acquisition of land for ISWM is under progress and soon BMC will acquire it.</p>	The employer & Consultant
5	<p>TL, Mr Chand informed that as per observation/ site condition House Connection Chamber (HCC) may reduce wrt the original scope. Also added that till date 2658 Nos. have been placed, about 397 Nos. still need to place at different location and as agreed earlier to place the HCC at some location under STIUEIP which now agreed by House owners are about 145 in Nos. as per PIU record, in total will be 3200 Nos.</p> <p>All the parties agreed and decided to place not more than <b>3200 Nos. (HCC)</b> in total instead of BoQ quantity. and also agreed that no further installation of HCC (extra) shall entertain from PIU.</p>	The employer, contractor & consultant
5	<p>CM, Mr. Thakur raised the issues of payments pertaining to settlement of road due to existing old water supply pipes, stolen CI cover of sewer lines and drain top cover slabs other than RUDP.</p> <p>All the parties agreed and decided to pay after fair determination of fact.</p>	The employer, contractor & consultant

Minutes of Meeting – RUDP, Biratnagar

S. NO.	Minutes	Action by
6	<p>Discussion has been made about the estimated funds allocated in Resettlement plan (RP) regarding the reinstatement of Public assets like temples, fencing &amp; boundary walls, etc. Then Mr Parajuli, Mayor said that the works which mentioned in RP under RUDP have been already completed by different stakeholders on initiative of Biratnagar Metropolitan City (BMC) &amp; the funds to do so are also arranged by BMC so no need to refund the above fund to BMC by the Project.</p> <p>At last, Mayor, Deputy Mayor and CAO appreciated the contribution of everyone &amp; encouraged everyone and emphasized to complete the project on time with quality.</p>	The employer

## ANNEX-3: Laboratory Test Results of January 2021



































### Summary Sheet of Monthly Test Report

Type of Material	Sub grade
------------------	-----------

[illegible]

**ZHONGHENG CONSTRUCTION GROUP INTERNATIONAL  
ENGINEERING CO., LTD**

**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/CSE  
 H.k. Mandal/Rajan Shrestha

Approved By  
Team Leader  
Giresch Chand























[illegible]

















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

### Summary Sheet of Monthly Test Report

[illegible]

ds

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 \_\_\_\_\_

Submitted By  
Contract Manager  
Rabindra Kr. Thakur

Verified By

Expert Qty Surveyor/CSE  
H.K. Mandal/Rajan Shro

**Approved By**  
Team Leader  
Gireesh Chand





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







## Summary Sheet of Monthly Test Report

Consultant  
TY (P) LTD IN JOINT  
ENGINEERS & ARCHITECTS





### Summary Sheet of Monthly Test Report

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











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

### Summary Sheet of Monthly Test Report

**Location :- R-7,(R-29 to R-28)**

[illegible]





## Biratnagar Metropolitan City

Contract No: RUDP/ICB/BRT-02

# Summary Sheet of Monthly Test Report

Location:-R-7,(R-29 to R-28)

[illegible]





## Summary Sheet of Monthly Test Report

5

Consultant

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

Expert Qty Surveyor/CSE  
H.K. Mandal/Rajan Shrestha

**Approved By**  
**Team Leader**  
**Gireesh Chand**



### Summary Sheet of Field Density Test

Month	January
Year	2021
Type of Material	Base

**Approved By**  
Team Leader  
Giresch Chand







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 NOVEMBER-2020											
Type of Bitumen: 80/100 P.G											
S.N.	Location	Date of Tack coat	Station From	Station to	Side of Tack coat	Area of Tack coat	Intersection Area m2	Total Area M2	Bitumen Consumption	Application Rate By Dip Lit/m2	Application Rate Bit Tray Test Lit/m2
1	Ghoghapaini	1-Jan-21	0+000	0+129	BHS	915.9	0	915.90	500	0.55	0.51
2	R-111A	1-Jan-21	0+000	0+059	BHS	253.7	0	253.7	150	0.59	0.54
3	Bargachhi	21-Jan-21	0+000	0+200	BHS	1400	0	1400.00	785	0.56	0.54
4	Bargachhi	22-Jan-21	0+200	0+600	BHS	2880	0	2880.00	1675	0.58	0.57
5	B-2, Branch	23-Jan-21	0+000	0+087	BHS	378.45	0	378.45	210	0.55	0.54
6	T3L24B	24-Jan-21	0+000	0+180	BHS	864	0	864.00	500	0.58	0.51
7	T3L26H	25-Jan-21	0+000	0+058	BHS	249.4	0	249.40	125	0.50	0.56
8	R-181A	26-Jan-21	0+000	0+085	BHS	272	0	272.00	150	0.55	0.51
								Total	4095		
Required tack coat is 0.40 to 0.60 Lit/M2 According to Road Note -3, Section 711.2											
Specific Gravity of Bitumen 1.039											
<div style="display: flex; justify-content: space-between;"> <div> <p><b>Contractor</b></p> <p>ZHONGHENG CONSTRUCTION GROUP INTERNATIONAL ENGINEERING CO. LTD</p> <p>Checked By Engineer Dhirendra Yadav</p> </div> <div> <p><b>Consultant</b></p> <p>BUILDING DESIGN AUTHORITY (P) LTD IN JOINT VENTURE WITH B.N. CONSULTANCY PVT. LTD AND PLUS ENGINEERS &amp; ARCHITECTS (P) LTD, KATHMANDU, NEPAL</p> <p>Verified By Expert Qty Surveyor/CSE H.K. Mandal/Rajan Shrestha</p> <p>Approved By Team Leader Gireesh Chand</p> </div> </div>											





Contract No:- RUDP/ICB/BRT-02

**Summary Sheet of Monthly Test Report of 20mm Agg:**

										Month Year		January 2021					
										Type of Material		20 mm Agg					
S.n.	Lab. Ref no.	Date of Testing	Location of Sample	Source of Sample	Sieve Size in mm / % Passing by weight					L.A.A.%	Fl and El %	A.L.V. %	Remarks				
					37.5	20	14	10	5								
1	RUDP-CA-688	2-Jan-21	Madhumara Yard	Chisang Khola	100.00	89.70	53.76	14.38	4.08	27.10	16.99/15.73	18.32					
2	RUDP-CA-689	4-Jan-21	R-72	Chisang Khola	100.00	92.31	48.72	17.95	2.56	21.00	18.13/16.22	17.96					
3	RUDP-CA-690	7-Jan-21	R-65	Chisang Khola	100.00	89.92	44.47	15.81	1.98	27.60	16.96/17.88	21.48					
4	RUDP-CA-691	11-Jan-21	Bargachhi, (0+200)	Chisang Khola	100.00	93.57	60.00	18.93	2.86	22.46	19.35/19.77	21.60					
5	RUDP-CA-692	14-Jan-21	T31.22	Chisang Khola	100.00	92.88	57.26	14.53	2.56	21.20	17.61/18.97	19.48					
6	RUDP-CA-693	16-Jan-21	Durgachowk, (0+120)	Chisang Khola	100.00	87.17	48.66	18.72	3.74	20.92	16.86/18.48	20.53					
7	RUDP-CA-694	19-Jan-21	koshi yard	Chisang Khola	100.00	90.28	60.10	15.35	3.07	19.76	14.77/17.62	18.82					
8	RUDP-CA-695	21-Jan-21	Bargachhi, (0+450)	Chisang Khola	100.00	92.74	49.17	16.60	4.15	27.04	17.19/16.82	19.79					
9	RUDP-CA-696	23-Jan-21	T11.13	Chisang Khola	100.00	91.74	50.46	17.43	2.75	21.22	16.84/17.23	17.64					
10	RUDP-CA-697	25-Jan-21	koshi yard	Chisang Khola	100.00	90.55	48.76	14.18	2.24	23.10	17.67/20.32	16.97					
					Spec. Limit :					100	85-100	0-70	0-25	0-5	<35	<25	<25



### Summary Sheet Of Monthly 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		January		
							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/mm <sup>2</sup>	Concrete Grade	
							7 Days	28 Days			
1	Koshi Yard	RUDP-3769	Ambe Hi-Tech	OPC	Chisang Khola	4-Dec-20	11-Dec-20	1-Jan-21		21.89	M20
2	N-15	RUDP-3770	Ambe Hi-Tech	OPC	Chisang Khola	4-Dec-20	11-Dec-20	1-Jan-21		23.23	M20
3	R-109	RUDP-3771	Ambe Hi-Tech	OPC	Chisang Khola	5-Dec-20	12-Dec-20	2-Jan-21		22.28	M20
4	Madhumara Yard	RUDP-3772	Ambe Hi-Tech	OPC	Chisang Khola	6-Dec-20	13-Dec-20	3-Jan-21		32.81	M30
5	Koshi Yard	RUDP-3773	Ambe Hi-Tech	OPC	Chisang Khola	7-Dec-20	14-Dec-20	4-Jan-21		21.89	M20
6	N-15, Branch	RUDP-3774	Ambe Hi-Tech	OPC	Chisang Khola	7-Dec-20	14-Dec-20	4-Jan-21		22.68	M20
7	R-6	RUDP-3775	Ambe Hi-Tech	OPC	Chisang Khola	8-Dec-20	15-Dec-20	5-Jan-21		21.57	M20
8	Ghoghapani	RUDP-3776	Ambe Hi-Tech	OPC	Chisang Khola	9-Dec-20	16-Dec-20	6-Jan-21		23.23	M20
9	R-10	RUDP-3777	Ambe Hi-Tech	OPC	Chisang Khola	9-Dec-20	16-Dec-20	6-Jan-21		22.52	M20
10	R-121	RUDP-3778	Ambe Hi-Tech	OPC	Chisang Khola	10-Dec-20	17-Dec-20	7-Jan-21		23.05	M20
11	N-15, Branch	RUDP-3779	Ambe Hi-Tech	OPC	Chisang Khola	10-Dec-20	17-Dec-20	7-Jan-21		23.07	M20
12	Koshi Yard	RUDP-3780	Ambe Hi-Tech	OPC	Chisang Khola	11-Dec-20	18-Dec-20	8-Jan-21		21.97	M20
13	Koshi Yard	RUDP-3781	Ambe Hi-Tech	OPC	Chisang Khola	13-Dec-20	20-Dec-20	10-Jan-21		21.81	M20
14	R-4	RUDP-3782	Ambe Hi-Tech	OPC	Chisang Khola	13-Dec-20	20-Dec-20	10-Jan-21		22.52	M20
15	R-12	RUDP-3783	Ambe Hi-Tech	OPC	Chisang Khola	14-Dec-20	21-Dec-20	11-Jan-21		21.42	M20
16	R-109	RUDP-3784	Ambe Hi-Tech	OPC	Chisang Khola	14-Dec-20	21-Dec-20	11-Jan-21		22.36	M20
17	R-109	RUDP-3785	Ambe Hi-Tech	OPC	Chisang Khola	15-Dec-20	22-Dec-20	12-Jan-21		23.39	M20
18	N-15	RUDP-3786	Ambe Hi-Tech	OPC	Chisang Khola	15-Dec-20	22-Dec-20	12-Jan-21		22.73	M20
19	Madhumara Yard	RUDP-3787	Ambe Hi-Tech	OPC	Chisang Khola	15-Dec-20	22-Dec-20	12-Jan-21		33.23	M30
20	Ghoghapani	RUDP-3788	Ambe Hi-Tech	OPC	Chisang Khola	16-Dec-20	23-Dec-20	13-Jan-21		22.20	M20
21	R-6	RUDP-3789	Ambe Hi-Tech	OPC	Chisang Khola	16-Dec-20	23-Dec-20	13-Jan-21		22.91	M20
22	R-72	RUDP-3790	Ambe Hi-Tech	OPC	Chisang Khola	16-Dec-20	23-Dec-20	13-Jan-21		22.99	M20
23	R-10	RUDP-3791	Ambe Hi-Tech	OPC	Chisang Khola	18-Dec-20	25-Dec-20	15-Jan-21		21.34	M20
24	R-109	RUDP-3792	Ambe Hi-Tech	OPC	Chisang Khola	19-Dec-20	26-Dec-20	16-Jan-21		22.83	M20
25	R-72	RUDP-3793	Ambe Hi-Tech	OPC	Chisang Khola	19-Dec-20	26-Dec-20	16-Jan-21		23.73	M20
26	R-12	RUDP-3794	Ambe Hi-Tech	OPC	Chisang Khola	20-Dec-20	27-Dec-20	17-Jan-21		21.97	M20
27	R-4	RUDP-3795	Ambe Hi-Tech	OPC	Chisang Khola	21-Dec-20	28-Dec-20	18-Jan-21		22.68	M20
28	Koshi Yard	RUDP-3796	Ambe Hi-Tech	OPC	Chisang Khola	21-Dec-20	28-Dec-20	18-Jan-21		22.36	M20
29	Ghoghapani	RUDP-3797	Ambe Hi-Tech	OPC	Chisang Khola	22-Dec-20	29-Dec-20	19-Jan-21		23.39	M20
30	R-10	RUDP-3798	Ambe Hi-Tech	OPC	Chisang Khola	23-Dec-20	30-Dec-20	20-Jan-21		21.42	M20
31	Koshi Yard	RUDP-3799	Ambe Hi-Tech	OPC	Chisang Khola	23-Dec-20	30-Dec-20	20-Jan-21		22.20	M20
32	R-72	RUDP-3800	Ambe Hi-Tech	OPC	Chisang Khola	25-Dec-20	1-Jan-21	22-Jan-21	16.44	21.73	M20
33	Koshi Yard	RUDP-3801	Ambe Hi-Tech	OPC	Chisang Khola	26-Dec-20	2-Jan-21	23-Jan-21	15.19	22.81	M20
34	R-65	RUDP-3802	Ambe Hi-Tech	OPC	Chisang Khola	29-Dec-20	5-Jan-21	26-Jan-21	16.44	22.76	M20
35	Madhumara Yard	RUDP-3803	Ambe Hi-Tech	OPC	Chisang Khola	1-Jan-21	8-Jan-21	29-Jan-21	21.89	32.16	M30
36	Bargachhi, (0+030)	RUDP-3804	Ambe Hi-Tech	OPC	Chisang Khola	3-Jan-21	10-Jan-21	31-Jan-21	14.95	21.89	M20
37	R-65	RUDP-3805	Ambe Hi-Tech	OPC	Chisang Khola	10-Jan-21	17-Jan-21	7-Feb-21	15.35		M20
38	Bargachhi, (0+320)	RUDP-3806	Ambe Hi-Tech	OPC	Chisang Khola	12-Jan-21	19-Jan-21	9-Feb-21	14.95		M20
39	T31.22	RUDP-3807	Ambe Hi-Tech	OPC	Chisang Khola	15-Jan-21	22-Jan-21	12-Feb-21	16.44		M20
40	Durgachowk, (0+050)	RUDP-3808	Ambe Hi-Tech	OPC	Chisang Khola	15-Jan-21	22-Jan-21	12-Feb-21	15.42		M20
41	R-72	RUDP-3809	Ambe Hi-Tech	OPC	Chisang Khola	18-Jan-21	25-Jan-21	15-Feb-21	17.38		M20
42	TIL13	RUDP-3810	Ambe Hi-Tech	OPC	Chisang Khola	20-Jan-21	27-Jan-21	17-Feb-21	15.97		M20
43	TIL13	RUDP-3811	Ambe Hi-Tech	OPC	Chisang Khola	21-Jan-21	28-Jan-21	18-Feb-21	15.03		M20
44											
45											
46											

**Contractor**

**ZHONGJIENG CONSTRUCTION GROUP INTERNATIONAL ENGINEERING CO. LTD**

Checked By  
Engineer  
Dhirendra Yadav

Submitted By  
Contract Manager  
Rabindra K. Thakur

**Design Authority In Consultant**

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


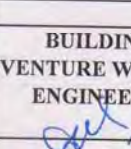
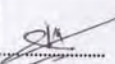
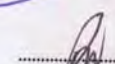
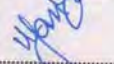

Verified By  
Expert Qty Surveyor/CSE  
H.K. Mandal/Rajan Shrestha

Approved By  
Team Leader  
Giresch Chand





REGIONAL URBAN DEVELOPMENT PROJECT											
Biratnagar Metropolitan City											
Contract No:- RUDP/ICB/BRT-02											
Summary Sheet of Mortar Test Report											
							Page no. 1 of 1				
							Month		January		
							Year		2021		
							Description of Sample		Brick Wall		
S.N.	Location	Lab Ref.no.	Type of Cement	Brand of Cement	Source of Sand	Date of Casting	Date of Testing		Strength, N/mm <sup>2</sup>		Type of Grade
							7 Days	28 Days	7 Days	28 Days	
1	TIL14C	MR-2990	Ambe Hi-Tech	OPC	Chisang Khola	4-Dec-20	11-Dec-20	1-Jan-21		8.90	7.5
2	N-15	MR-2991	Ambe Hi-Tech	OPC	Chisang Khola	5-Dec-20	12-Dec-20	2-Jan-21		9.04	7.5
3	R-29,Branch	MR-2992	Ambe Hi-Tech	OPC	Chisang Khola	6-Dec-20	13-Dec-20	3-Jan-21		9.57	7.5
4	R-71	MR-2993	Ambe Hi-Tech	OPC	Chisang Khola	8-Dec-20	15-Dec-20	5-Jan-21		9.71	7.5
5	R-72	MR-2994	Ambe Hi-Tech	OPC	Chisang Khola	9-Dec-20	16-Dec-20	6-Jan-21		8.77	7.5
6	R-109	MR-2995	Ambe Hi-Tech	OPC	Chisang Khola	9-Dec-20	16-Dec-20	6-Jan-21		9.04	7.5
7	R-10	MR-2996	Ambe Hi-Tech	OPC	Chisang Khola	10-Dec-20	17-Dec-20	7-Jan-21		9.17	7.5
8	R-72	MR-2997	Ambe Hi-Tech	OPC	Chisang Khola	10-Dec-20	17-Dec-20	7-Jan-21		8.63	7.5
9	TIL14C	MR-2998	Ambe Hi-Tech	OPC	Chisang Khola	12-Dec-20	19-Dec-20	9-Jan-21		8.23	7.5
10	R-112	MR-2999	Ambe Hi-Tech	OPC	Chisang Khola	13-Dec-20	20-Dec-20	10-Jan-21		9.44	7.5
11	R-29,Branch	MR-3000	Ambe Hi-Tech	OPC	Chisang Khola	15-Dec-20	22-Dec-20	12-Jan-21		9.17	7.5
12	N-15	MR-3001	Ambe Hi-Tech	OPC	Chisang Khola	16-Dec-20	23-Dec-20	13-Jan-21		8.50	7.5
13	R-112	MR-3002	Ambe Hi-Tech	OPC	Chisang Khola	16-Dec-20	23-Dec-20	13-Jan-21		8.90	7.5
14	R-72	MR-3003	Ambe Hi-Tech	OPC	Chisang Khola	17-Dec-20	24-Dec-20	14-Jan-21		8.36	7.5
15	TIL14C	MR-3004	Ambe Hi-Tech	OPC	Chisang Khola	17-Dec-20	24-Dec-20	14-Jan-21		9.44	7.5
16	R-10	MR-3005	Ambe Hi-Tech	OPC	Chisang Khola	19-Dec-20	26-Dec-20	16-Jan-21		9.30	7.5
17	R-109	MR-3006	Ambe Hi-Tech	OPC	Chisang Khola	20-Dec-20	27-Dec-20	17-Jan-21		8.50	7.5
18	R-29,Branch	MR-3007	Ambe Hi-Tech	OPC	Chisang Khola	21-Dec-20	28-Dec-20	18-Jan-21		9.04	7.5
19	N-15	MR-3008	Ambe Hi-Tech	OPC	Chisang Khola	22-Dec-20	29-Dec-20	19-Jan-21		9.57	7.5
20	R-72	MR-3009	Ambe Hi-Tech	OPC	Chisang Khola	23-Dec-20	30-Dec-20	20-Jan-21		9.84	7.5
21	R-112	MR-3010	Ambe Hi-Tech	OPC	Chisang Khola	24-Dec-20	31-Dec-20	21-Jan-21		9.30	7.5
22	R-65	MR-3011	Ambe Hi-Tech	OPC	Chisang Khola	27-Dec-20	3-Jan-21	24-Jan-21	6.07	8.36	7.5
23	R-72	MR-3012	Ambe Hi-Tech	OPC	Chisang Khola	1-Jan-21	8-Jan-21	29-Jan-21	6.88	8.77	7.5
24	R-65	MR-3013	Ambe Hi-Tech	OPC	Chisang Khola	3-Jan-21	10-Jan-21	31-Jan-21	6.61	9.44	7.5
25	R-72	MR-3014	Ambe Hi-Tech	OPC	Chisang Khola	7-Jan-21	14-Jan-21	4-Feb-21	5.80	✓	7.5
26	R-65	MR-3015	Ambe Hi-Tech	OPC	Chisang Khola	9-Jan-21	16-Jan-21	6-Feb-21	6.47		7.5
27	R-72	MR-3016	Ambe Hi-Tech	OPC	Chisang Khola	14-Jan-21	21-Jan-21	11-Feb-21	7.01		7.5
28	R-65	MR-3017	Ambe Hi-Tech	OPC	Chisang Khola	16-Jan-21	23-Jan-21	13-Feb-21	6.61		7.5
29	R-72	MR-3018	Ambe Hi-Tech	OPC	Chisang Khola	19-Jan-21	26-Jan-21	16-Feb-21	5.80		7.5
30	R-65	MR-3019	Ambe Hi-Tech	OPC	Chisang Khola	23-Jan-21	30-Jan-21	20-Feb-21	6.74		7.5
31											7.5
32											7.5
33											7.5
34											7.5

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

## ANNEX- 4: SOCIAL& ENVIRONMENT SAFEGUARD

### **Monitoring Formats– January 2021**





**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: January 2021

**Checklist**

SN	Activity	Description/Present Status (Compliance/Partially Compliance/Non Compliance)	Remarks/ Corrective actions for Non-Compliance
<b>1</b>	<b>Training</b>		
1.1	Health, Safety and EMP trainings and awareness	Yes	
1.2	Others awareness and skill trainings	No [Implementation of Sop in Annex attached]	
<b>2</b>	<b>Campsite management</b>		
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		
<b>3</b>	<b>Spoil and Construction material Management</b>		
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	
<b>4</b>	<b>Air, Noise and Water Pollution</b>		
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	
<b>5</b>	<b>Quarrying of construction materials and Plants Installment</b>		
5.1	Quarry/borrow operation sites	Not Applicable	



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





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

Month/Year: January, 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	R70	House Connection	LOCAL	3	7	10		2	4		4		
			NON LOCAL										
			INDIAN										
			TOTAL	10									
2	T1112	House Connection	LOCAL	4	8	12		3	6		3		
			NON LOCAL										
			INDIAN										
			TOTAL	12									
3	R14	Sub-grade	LOCAL	2	6	8			2	4	2		
			NON LOCAL										
			INDIAN										
			TOTAL	8									
4	R12	Sub-Base	LOCAL	2	6	8			2	4	2		
			NON LOCAL										
			INDIAN										
			TOTAL	8									
5	Keshaliya Road	Base	LOCAL	4	8	12			4	6	2		
			NON LOCAL										
			INDIAN										
			TOTAL	12									
6	R7	Bromming	LOCAL	7	17	2	22	3	12		9		
			NON LOCAL										
			INDIAN										
			TOTAL	24									



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

		Month/Year: January, 2021						
7	T3L26A	Prime	LOCAL	3	4	7		
			NON LOCAL					
8	T3L13	Ashphalt	INDIAN	7				
			TOTAL					
9	Koshiyard	Precast Production	LOCAL	6	16	22	21	1
			NON LOCAL					
10	Madhumara Yard	Precast Production	INDIAN					
			TOTAL	22				
11	Keshaliya Road	Kerbstone	LOCAL	8	22	30	2	8
			NON LOCAL					
12	T3L21A Milanchowk South	Kerbstone	INDIAN	4	12	16	7	9
			TOTAL	16				
13	T3L27	Road Pavt	LOCAL	8	10	16	6	12
			NON LOCAL					
14	T3L28	Road Pavt	INDIAN					
			TOTAL	18				
15	T3L29	Road Pavt	LOCAL	4	10	12	8	6
			NON LOCAL					
16	T3L30	Road Pavt	INDIAN	14				
			TOTAL					
17	T3L31	Road Pavt	LOCAL	4	8	12	7	5
			NON LOCAL					
18	T3L32	Road Pavt	INDIAN	12				
			TOTAL	12				





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

		Month/Year: January, 2021									
14	T3L22	Interlock	LOCAL	6	10	16				5	11
			NON LOCAL								
			INDIAN								
			TOTAL	16							
15	T1L8B	Manhole Raise	LOCAL	3	3	6				3	3
			NON LOCAL								
			INDIAN								
			TOTAL	6							
16	R3	MH Benching Cleaning	LOCAL	4	8	12				8	4
			NON LOCAL								
			INDIAN								
			TOTAL	12							
17	R72	Drain	LOCAL								
			NON LOCAL	4	12	16				4	6
			INDIAN								
			TOTAL	16							
18	Rani	Drain	LOCAL								
			NON LOCAL	3	10	13					13
			INDIAN								
			TOTAL	13							
19	R6	Slab Casting	LOCAL								
			NON LOCAL	2	9	11					11
			INDIAN								
			TOTAL	11							



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

		Month/Year: January, 2021						
20	CAO Road	Slab Casting	LOCAL	2	7	9		
			NON LOCAL					
			INDIAN					
			TOTAL	9			5	4
21	R65	Drain	LOCAL	3	10	13	3	5
			NON LOCAL					
			INDIAN					
			TOTAL	13				
22	NRB Front	Weep Hole	LOCAL					
			NON LOCAL	3	5	8	3	2
			INDIAN					
			TOTAL	8				3





## Month/Year: January, 2021

		Month/Year: January, 2021									
23		LOCAL									
		NON LOCAL									
		INDIAN									
		TOTAL									
24		LOCAL									
		NON LOCAL									
		INDIAN									
		TOTAL									
		LABOUR CLASS	LABOUR		COMPOSITION		ETHNIC COMPOSITION				BRAHMIN/ CHHETRI
	SKILLED		UNSKILLED	MALE	FEMALE	JANJATI	DALIT	MUSLIM	MADHESI		
	59		123	156	26	11	65	35	71	0	
	30		85	115	0	5	33	6	71	0	
	0		0	0	0	0	0	0	0	0	
			89	208	271	26	16	98	41	142	0



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: January 2021

## Checklist

SN	Activity	Description/Present Status (Compliance/Partially Compliance/Non Compliance)	Remarks/ Corrective actions for Non-Compliance
1	<b>Occupational health and safety</b>		
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	





**Regional Urban Development Project (RUDP)**  
**Social Safeguard Monitoring**  
**Status of Key Social Issues Compliance**

Subproject Road : -RUDP/ICB/BRT/2

Month/Year: Jan. 2021

Name of Contractor :-ZHONGGHENG Construction Group International  
Engineering Co pvt Beijing China.

Contract Package: RUDP/ICB/BRT/2

S.N	Key Social Issue	Compliance Status			Implementing Agency	Note of Remarks	Deadline
		Full	Partial	None			
1	Availability of drinking water services	✓					
2	Availability of toilet facility in campsite	✓					
3	Legal source of fuel wood use			✓			
4	Legal document of fuel wood source			✓			
5	Use of safety accessories	✓					
6	Availability of first aid facility	✓					
7	Basic wage rate to construction workers	✓					
8	Equal wage rate to male and female workers		✓				
9	Compensation of temporarily occupied land	✓					
10	Compensation of temporarily occupied buildings	✓					
11	Legal document of temporarily occupied assets	✓					
12	Non use of child labour in construction activities	✓					

Prepared by:

Verified by:

Monitored by:





## 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





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

Date: 06 Jan 2021

Project Name:		Construction and Completion of sewerage, drainage, Road, Footpath and Road furniture works Contract No: RUDP/ICB/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	99.1	NO	NO	NO	Yes	Yes	
2	H.K. Mandal	E./Qty S.	96.9	NO	NO	NO	Yes	Yes	
3	Amit Kumar Gupta	CSE	99.1	NO	NO	NO	Yes	Yes	
4	Rajan Shrestha	CSE							
5	Santosh Kumar Yadav	OM	96.9	NO	NO	NO	Yes	Yes	
6	Rajesh Kumar Yadav	Jr.	96.8	NO	NO	NO	Yes	Yes	
7	Deepak Majhee	Jr.	99.1	NO	NO	NO	Yes	Yes	
8	Jaya Prakash Yadav	Jr.	95.9	NO	NO	NO	Yes	Yes	
9	Ranjit Mandal	R/C	96.2	NO	NO	NO	Yes	Yes	
10	Youba Raj Poudel	Driver	99.3	NO	NO	NO	Yes	Yes	
11	Pulkit Gothiya Yadav	Driver	96.0	NO	NO	NO	Yes	Yes	
12	Rudra Kharel	O/A	96.6	NO	NO	NO	Yes	Yes	
13	Kesab Katuwal	Guard	97.1	NO	NO	NO	Yes	Yes	

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

DSC

Date: 07 Jan 2021

Project Name:		Construction and Completion of sewerage, drainage, Road, Footpath and Road furniture works Contract No: RUDP/ICB/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	99.1	NO	NO	NO	Yes	Yes	
2	H.K. Mandal	E./Qty S.	97.1	NO	NO	NO	Yes	Yes	
3	Amit Kumar Gupta	CSE	96.2	NO	NO	NO	Yes	Yes	
4	Rajan Shrestha	CSE							
5	Santosh Kumar Yadav	OM	96.9	NO	NO	NO	Yes	Yes	
6	Rajesh Kumar Yadav	Jr.	95.0	NO	NO	NO	Yes	Yes	
7	Deepak Majhee	Jr.	99.1	NO	NO	NO	Yes	Yes	
8	Jaya Prakash Yadav	Jr.	99.1	NO	NO	NO	Yes	Yes	
9	Ranjit Mandal	R/C	96.6	NO	NO	NO	Yes	Yes	
10	Youba Raj Poudel	Driver	99.2	NO	NO	NO	Yes	Yes	
11	Pulkit Gothiya Yadav	Driver	95.9	NO	NO	NO	Yes	Yes	
12	Rudra Kharel	O/A	96.3	NO	NO	NO	Yes	Yes	
13	Kesab Katuwal	Guard	96.5	NO	NO	NO	Yes	Yes	





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

Date: 12 Jan - 2021

Project Name:		Construction and Completion of sewerage, Drainage, Road, Footpath and Road furniture works Contract No: RUDP/ICB/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	96.9	NO	NO	NO	yes	yes	
2	H.K. Mandal	E./Qty S.	96.9	NO	NO	NO	yes	yes	
3	Amit Kumar Gupta	CSE	97.3	NO	NO	NO	yes	yes	
4	Rajan Shrestha	CSE							
5	Santosh Kumar Yadav	OM	96.8	NO	NO	NO	yes	yes	
6	Rajesh Kumar Yadav	Jr.	94.6	NO	NO	NO	yes	yes	
7	Deepak Majhee	Jr.	96.8	NO	NO	NO	yes	yes	
8	Jaya Prakash Yadav	Jr.	96.8	NO	NO	NO	yes	yes	
9	Ranjit Mandal	R/C	96.2	NO	NO	NO	yes	yes	
10	Youba Raj Poudel	Driver	95.5	NO	NO	NO	yes	yes	
11	Pulkit Gothiya Yadav	Driver	94.9	NO	NO	NO	yes	yes	
12	Rudra Kharel	O/A	95.9	NO	NO	NO	yes	yes	
13	Kesab Katuwal	Guard	93.1	NO	NO	NO	yes	yes	

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

DSC

Date: 13 Jan 2021

Project Name:		Construction and Completion of sewerage, drainage, Road, Footpath and Road furniture works Contract No: RUDP/ICB/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	96.2	NO	NO	NO	yes	yes	
2	H.K. Mandal	E./Qty S.	95.5	NO	NO	NO	yes	yes	
3	Amit Kumar Gupta	CSE							
4	Rajan Shrestha	CSE							
5	Santosh Kumar Yadav	OM	93.1	NO	NO	NO	yes	yes	
6	Rajesh Kumar Yadav	Jr.	93.2	NO	NO	NO	yes	yes	
7	Deepak Majhee	Jr.	97.3	NO	NO	NO	yes	yes	
8	Jaya Prakash Yadav	Jr.	97.1	NO	NO	NO	yes	yes	
9	Ranjit Mandal	R/C	95.2	NO	NO	NO	yes	yes	
10	Youba Raj Poudel	Driver	96.0	NO	NO	NO	yes	yes	
11	Pulkit Gothiya Yadav	Driver	95.0	NO	NO	NO	yes	yes	
12	Rudra Kharel	O/A	95.9	NO	NO	NO	yes	yes	
13	Kesab Katuwal	Guard	94.6	NO	NO	NO	yes	yes	



ANNEX-6: S-Curve

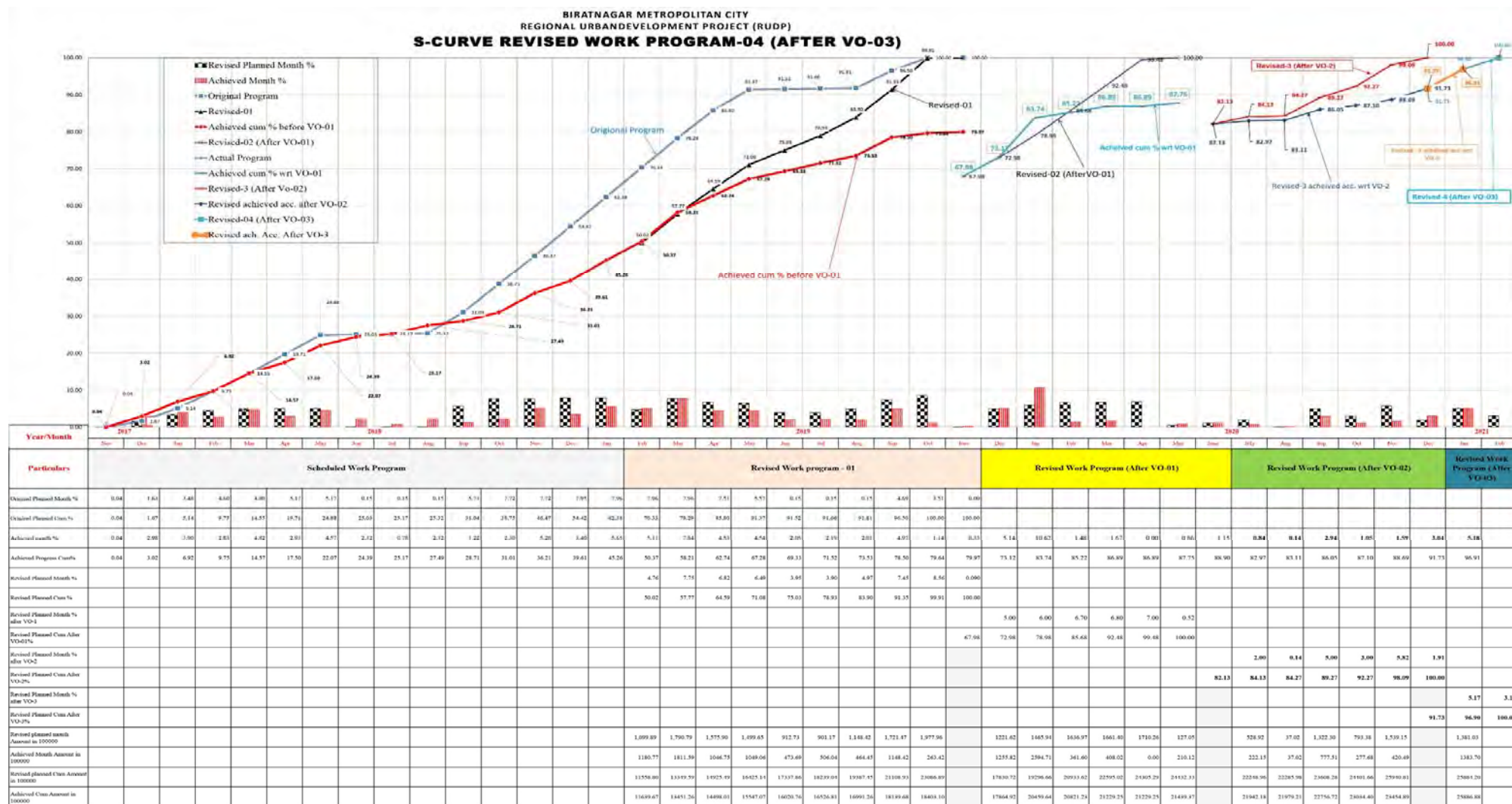
(ATTACHED)





## Monthly Progress Report

January, 2021



## ANNEX-7: Master Plan of RUDP Project



