

ORIGINAL



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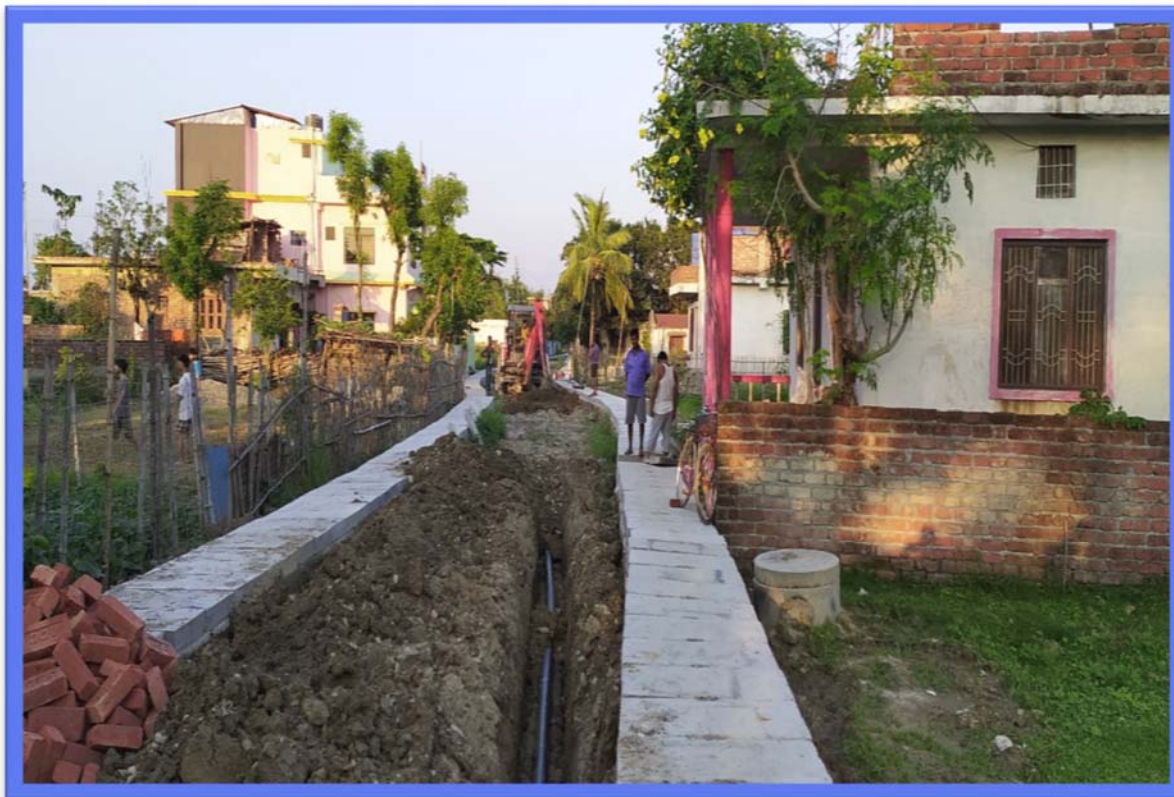
**PLUSH Engineering & architects (P) Ltd, Kathmandu.**

## **Monthly Progress Report**

**Regional Urban Development Project (RUDP)**

**Project Implementation Unit**

**Biratnagar, Nepal**



***July 2020***

**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**

<b>General Features</b>	
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	28th August 2017
Date of Commencement of Design and Supervision Consulting Service	6th September 2017
Date of Completion	5th September 2020
VO and EOT	VO and EOT has submitted to the employer for approved on dated 9 <sup>th</sup> June 2020
<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 (Scheduled)	1 <sup>st</sup> November 2019
Date of Completion (after EOT-2)	31 <sup>st</sup> July 2020
Date of Completion (after EOT-3)	Till 28 <sup>th</sup> December 2020 (Proposed)



<b>General Features</b>	
Contract Amount including PS and VAT	NRs. 2,611,092,249.63
Contract Amount including PS and VAT (Corrected)	NRs. 2,611,088,390.60
Contract Amount including PS and VAT (after VO-2)	NRs. 2,988,389,581.81
Additional Financing 100% funded by BMC after VO-2 (provisional items)	NRs. 39,999,966.94
<b>Progress</b>	<b>wrt VO-2</b>
Road Rehabilitation (Asphalt)	79.99%
Sewer Line	99.46%
Storm Drain	100.00%
Road Side Drain	93.12%
Integrated Solid Waste Management (ISWM) Design	Inception Report as well as Stakeholder’s Analysis, Communication Strategy and Consultation Plan for Integrated Solid Waste Management (ISWM) has already been submitted. Due to Socio Environment Problem, Progress of Integrated Solid Waste Management (ISWM) design has been hindered.
Physical Progress up to date	<p><b>Actual: 82.97% with respect to VO-02;</b></p> <p>“Work progress is lagging due to start of monsoon, lockdown at BMC itself &amp; nationwide due to pandemic “<b>COVID – 19</b>”.</p> <p>Planned progress has not been addressed because EOT approved till <b>31<sup>st</sup> July 2020</b> from the concerned authorities has been provisionally accepted by the contractor and once EOT as recommended till 28<sup>th</sup> Dec 2020 is accepted, the contractor possibly will submit revised work program and s – curve along with resource planning to plan.</p>
Financial Progress up to date ( <i>on the basis of IPC forwarded for disbursement</i> )	<p>In Percentage: <b>81.75%</b>, In Figure: NRs. <b>2,443,046,598.82</b> (including VAT and PS) up to IPC –17 wrt to VO-2.</p> <p><b>In Words:</b> NRs. Two Billion Four Hundred Forty Three Millions Forty Six Thousand Five Hundred Ninety Eight and Eighty Two Paise Only.</p>



### 3. SUMMARY OF PROGRESS STATUS OF ALL MAJOR COMPONENTS

S.No	Description	Unit	Quantity VO-2	Progress up to date	Remaining	Progress Status expressed in (%) wrt VO-2	Remarks
<b>1</b>	<b>Sewer Line</b>						
a	HDPE/RCC	m	18,559.80	18,459.80	100.00	99.46%	
b	Manhole	No.	606.00	604.00	2.00	99.67%	
c	Sewer Inlet	No.	1,010.00	564.00	446.00	55.84%	
d	House Connection	No.	3,784.00	2,215.00	1,569.00	58.54%	
<b>2</b>	<b>Storm Water Drain</b>						
a	RCC Drain	m	585.00	585.00	-	100.00%	
b	Piles	No.	138.00	138.00	-	100.00%	
<b>3</b>	<b>Road</b>						
a	Subgrade	m	74,573.60	63,765.09	10,808.51	85.51%	
b	Subbase	m	74,573.60	63,446.09	11,127.51	85.08%	
c	Base	m	74,573.60	61,496.49	13,077.11	82.46%	
d	Prime	m	74,573.60	59,651.29	14,922.31	79.99%	
e	Asphalt	m	74,573.60	59,651.29	14,922.31	79.99%	
<b>4</b>	<b>Road Side Drain</b>	m	39,200.69	36,503.00	2,697.70	93.12%	



### 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. Remaining part of sewer lines in T3 and T4 completed under RUDP except 100m length of secondary sewer lines of T3 east of Sanihat Chowk. The SI & HCC works are in progress also the maintenance work of sewer lines, sewer inlet and house chamber connections are in progress where required as per instruction. Details of all major components of the project are as illustrated in Table – 1 below.

Moreover, The Progress of sewer lines is as tabulated below in Table-2:-



**Table 1: PROPOSED ALL MAJOR COMPONENTS OF THE PROJECT**

<b>S. No.</b>	<b>Description</b>	<b>Unit</b>	<b>Quantity after VO-2</b>
<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>74.57</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	Quantity as per VO-2		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.)	
<b>Hume Pipe:</b>										
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	
<b>Subtotal in (m)</b>		<b>1,967.50</b>	<b>35.00</b>	<b>1,967.50</b>	<b>35.00</b>	-	-	<b>1,967.50</b>	<b>35.00</b>	
<b>HDPE Pipe:</b>										
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	9,543.80	338.00			9,543.80	338.00	
4	HDPE (T4)	2,051.90	56.00	2,051.90	56.00			2,051.90	56.00	
<b>Subtotal in (m)</b>		<b>16,592.30</b>	<b>571.00</b>	<b>16,492.30</b>	<b>569.00</b>	-	-	<b>16,492.30</b>	<b>569.00</b>	
<b>Total</b>		<b>18,559.80</b>	<b>606.00</b>	<b>18,459.80</b>	<b>604.00</b>	-	-	<b>18,459.80</b>	<b>604.00</b>	<b>99.46%</b>





<b>SN</b>	<b>Description</b>	<b>Quantity as per VO-2</b>	<b>Up to Pre Month</b>	<b>This month</b>	<b>Total to date in Nos.</b>	<b>Progress %</b>
1	Sewer inlet	1,010.00	556.00	8.00	564.00	55.84
2	House connection	3,784.00	2,164.00	51.00	2,215.00	58.54



### 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 the works except some minor works at inlet and outlet which have been proceeding soon. 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 after VO-2	Progress			
				Previous	This Month	Type- RCC, Closed	
1	CN2-CN3 (Chyangh Baari Nala)	652.89	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 74.57 km as per VO-02. Some of the roads of the project have been completed and some of them are in the process of being upgraded.

Out of 74.57 km. about 63.44 Km. has been attempted for Sub Base. About 59.65 km. Asphalt work has been completed. The summary of physical progress of flexible pavement, rigid pavement and footpaths are as 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	Progress			Work Completed					Remarks
			Previous	This Month	Total	Sub-base	Base	Asphalt	RCC	Paint	
						m	m	m	m	m	
1	R42	Bhagwati Marg	229.00		229.00	229.00	229.00	229.00			
2	R5	College Road	594.00		594.00	594.00	594.00	594.00			
3	R5	Chulachuli Road	196.00		196.00	196.00	196.00	196.00			
4	R5	Transprtation Line	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			
7	R104	VIP Marg	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		358.40	
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			
12	S13		1,724.20		1,724.20	1,724.20	1,724.20	1,724.20		1,812.60	
13	R12	Brikuti to Keshalya	844.20		844.20	844.20	844.20	844.20			
14	R12	Kanchha Dai Marg	900.00		900.00	900.00	900.00	700.00			



SN	Road Number	Name of Road				Work Completed					Remarks
			Progress		Total	Sub-base	Base	Asphalt	RCC	Paint	
			Previous	This Month		m	m	m	m	m	
15	Rani site	Rani	3,725.15		3,725.15	3,725.15	3,725.15	3,725.15			
16	R16	Satya Marg	583.90		583.90	583.90	583.90	583.90			
17	R26	Pasang Marg	602.30		602.30	602.30	602.30	602.30			
18	R28	Pustakalaya Marg	606.10		606.10	606.10	606.10	606.10			
19	R27	Peepal Marg	794.70		794.70	794.70	794.70	794.70		639.20	
20	R25	Devi Marg	592.30		592.30	592.30	592.30	592.30			
21	R24	Prabhat Marg	382.90		382.90	382.90	382.90	382.90			
22	R37	Banglamukhi Marg	470.50		470.50	470.50	470.50	470.50			
23	R7	R25 to R27	152.57		152.57	152.57	152.57	152.57			
24	R7	R21 to R25	267.00		267.00	267.00	267.00	267.00			
25	R30	Shanti Marg	348.60		348.60	348.60	348.60	348.60			
26	R9	Fadindra Marg	119.00		119.00	119.00	119.00	119.00			
27	R9(R37 to R41)		254.60		254.60	254.60	254.60	254.60			
28	S11	Samrat Marg	502.60		502.60	502.60	502.60	502.60		504.60	
29	R22	Amar Marg	373.50		373.50	373.50	373.50	373.50			
30	R29	Shanti Marg									



SN	Road Number	Name of Road				Work Completed					Remarks
			Progress		Total	Sub-base	Base	Asphalt	RCC	Paint	
			Previous	This Month		m	m	m	m	m	
			879.60		879.60	879.60	879.60	879.60		585.60	
31	R36	Gaurav Marg	221.10		221.10	221.10	221.10	221.10		440.00	
32	R33	Tarun Marg	282.50		282.50	282.50	282.50	282.50			
33	R8	R29 to N36)	226.90		226.90	226.90	226.90	226.90			
34	N36		184.00		184.00	184.00	184.00	184.00			
35	R188	Shakti Marg	115.10		115.10	115.10	115.10	115.10			
36	R2	Main Road	3,116.10		3,116.10	3,116.10	3,116.10	3,116.10		4,350.00	
37	T3 Line 6A	Pandit Meghnath Marg	279.30		279.30	279.30	279.30	279.30			
38	R63 (DSP Road)	DSP Road	424.00		424.00	424.00	424.00	424.00			
39	R90	Shakti Marg	449.30		449.30	449.30	449.30	449.30		640.00	
40	R77	Arniko Marg	87.70		87.70	87.70	87.70	87.70			
41	R76	Mitra Marg	275.60		275.60	275.60	275.60	275.60		541.20	
42	R183	Nava Jyoti Marg	217.20		217.20	217.20	217.20	217.20			
43	T1 L16B	Xenial Front	203.70		203.70	203.70	203.70	203.70			
44	T1L16A	Xenial South	165.70		165.70	165.70	165.70	165.70			
45	R114	Dharanidhar Marg	569.00		569.00	569.00	569.00	569.00		560.00	



SN	Road Number	Name of Road				Work Completed					Remarks
			Progress		Total	Sub-base	Base	Asphalt	RCC	Paint	
			Previous	This Month		m	m	m	m	m	
46	R113	Kavi Lekh Marg	746.20		746.20	746.20	746.20	746.20			
47	R5(Branch Road)		57.60		57.60	57.60	57.60	57.60			
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			
50	R84	West of school	237.00		237.00	237.00	237.00	237.00			
51	R84		248.90		248.90	248.90	248.90	248.90			
52	R85	Machha Line	153.80		153.80	153.80	153.80	153.80			
53	R87	Mahabir Chowk	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			
55	R11	R18/R86	204.10		204.10	204.10	204.10	204.10			
56	N3	Jatuwa	122.00		122.00	122.00	122.00	122.00			
57	N4(R16 to R21)	Jatuwa	168.80		168.80	168.80	168.80	168.80			
58	R10	R35 to R76	670.80		670.80	670.80	670.80	670.80		853.20	
59	T2L26F	APF	55.00		55.00	55.00					
60	T2L27		75.00		75.00	75.00	75.00	75.00			
61	R122										



SN	Road Number	Name of Road				Work Completed					Remarks
			Progress		Total	Sub-base	Base	Asphalt	RCC	Paint	
			Previous	This Month		m	m	m	m	m	
			251.00		251.00	251.00	251.00	251.00		497.40	
62	N9		222.60		222.60	222.60	222.60	222.60			
63	R17		374.00	222.00	596.00	474.00	374.00	374.00		730.00	
64	R18		387.30		387.30	387.30	387.30	387.30			
65	N2		117.00		117.00	117.00	117.00	117.00			
66	T3L6	Moti marga	158.30		158.30	158.30	158.30	158.30			
67	T3L6	CDO Office front	49.40		49.40	49.40	49.40	49.40			
68	R45	Bata road	510.70		510.70	510.70	510.70	510.70			
69	T3L21		547.00		547.00	547.00	547.00	547.00		774.00	
70	N5	R16 to R18	67.20		67.20	67.20	67.20	67.20		122.00	
71	T3L39		340.00		340.00	340.00	340.00	340.00		491.00	
72	T3L39A		138.00		138.00	138.00	138.00	138.00		179.40	
73	T3L39B		60.00		60.00	60.00	60.00	60.00		117.60	
74	R68 - T2L24G		218.00		218.00	218.00	218.00	218.00			
75	N10		194.00		194.00	194.00	194.00	194.00			
76	T3L24C &D	Hanuman Das Road	180.00		180.00	180.00	180.00	180.00			





SN	Road Number	Name of Road				Work Completed					Remarks
			Progress		Total	Sub-base	Base	Asphalt	RCC	Paint	
			Previous	This Month		m	m	m	m	m	
77	R6(N2 to R41)		1,832.80		1,832.80	1,832.80	1,832.80	1,832.80			
78	N24		144.00		144.00	144.00	144.00	144.00			
79	R31		189.20		189.20	189.20	189.20	189.20			
80	N27	Bindabasini Marga	354.00		354.00	354.00	354.00	354.00			
81	R73 (R2 to R5)		217.00		217.00	217.00	217.00	217.00			
82	R6 (R41-R44)	Bata Galli	269.00		269.00	269.00	269.00	269.00			
83	R9 (T3Line11K)		194.80		194.80	194.80	194.80	194.80			
84	R44	Thakurbari Road	727.10		727.10	727.10	727.10	727.10			
85	R102	Main	140.00		140.00	140.00	140.00	140.00			
86	R102	Branch	71.30		71.30	71.30	71.30	71.30			
87	R103		171.30		171.30	171.30	171.30	171.30			
88	R32		189.20		189.20	189.20	189.20	189.20			
89	T2L18Y		116.20		116.20	116.20	116.20	116.20			
90	R20		108.00		108.00	108.00	108.00	108.00			
91	R82 (T1Line5)	Everest School	522.80		522.80	522.80	522.80	522.80			
92	T1L5A										



SN	Road Number	Name of Road				Work Completed					Remarks
			Progress		Total	Sub-base	Base	Asphalt	RCC	Paint	
			Previous	This Month		m	m	m	m	m	
			171.90		171.90	171.90	171.90	171.90			
93	T3L23C	North to Jay Nepal	87.00		87.00	87.00	87.00	87.00			
94	T3L25B		285.00		285.00	285.00	285.00	285.00			
95	T3L25C		140.00		140.00	140.00	140.00	140.00			
96	R3(T3 Trunk)	Tinpaini to Sanihat	680.00		680.00	680.00	680.00	680.00			
97	Nagmandir to R3		55.00		55.00	55.00	55.00	55.00			
98	R4		760.00		760.00	760.00	760.00	760.00			
99	R75		137.00		137.00	137.00	137.00	137.00			
100	R43		329.40		329.40	329.40	329.40	329.40			
101	T219P		124.80		124.80	124.80	124.80	124.80			
102	T219Q		113.70		113.70	113.70	113.70	113.70			
103	R106		195.00		195.00	195.00	195.00	195.00			
104	T3L12		80.00		80.00	80.00	80.00	80.00			
105	R46		610.00		610.00	610.00	610.00	610.00			
106	T3L11E		124.55		124.55	124.55	124.55	124.55			
107	T3L13D		70.00		70.00	70.00	70.00	70.00			



SN	Road Number	Name of Road				Work Completed					Remarks
			Progress		Total	Sub-base	Base	Asphalt	RCC	Paint	
			Previous	This Month		m	m	m	m	m	
108	T3L13C		102.00		102.00	102.00	102.00	102.00			
109	R34		157.40		157.40	157.40	157.40	157.40			
110	T3L13E		64.00		64.00	64.00	64.00	64.00			
111	T3L13K		76.00		76.00	76.00	76.00	76.00			
112	R19		228.00		228.00	228.00	228.00	228.00			
113	R41		540.00		540.00	540.00	540.00	540.00			
114	R9B		83.85		83.85	83.85	83.85	83.85			
115	R67		119.40		119.40	119.40	119.40	119.40			
116	R74		95.00		95.00	95.00	95.00	95.00			
117	R9A		109.00		109.00	109.00	109.00	109.00			
118	T2L19F		120.00		120.00	120.00	117.20	117.20			
119	T3L7A		190.00		190.00	190.00	158.00	158.00			
120	T3L13F		75.00		75.00	75.00	75.00	75.00			
121	T3L11M		85.00		85.00	85.00	85.00	85.00			
122	T3L33A (N7)		135.00		135.00	135.00	135.00	135.00			
123	R35										



SN	Road Number	Name of Road				Work Completed					Remarks
			Progress		Total	Sub-base	Base	Asphalt	RCC	Paint	
			Previous	This Month		m	m	m	m	m	
			142.50		142.50	142.50	142.50	142.50			
124	R83		130.00		130.00	130.00	130.00	130.00			
125	R101		130.00		130.00	130.00					
126	R105		174.00		174.00	174.00	174.00	174.00			
127	R15		194.00		194.00	194.00	194.00	194.00			
128	R181A		196.00		196.00	196.00	196.00	196.00			
129	N38		358.00		358.00	358.00	358.00	358.00			
130	T2L26E	Bhanu Tole	107.00		107.00	107.00	107.00	107.00			
131	T2L19G		63.00		63.00	63.00	63.00	63.00			
132	T3L19H		84.00		84.00	84.00	84.00	84.00			
133	T2L19V		90.00		90.00	90.00	90.00	90.00			
134	T2L19Y		110.00		110.00	110.00	110.00	110.00			
135	T2L19Z		64.00		64.00	64.00	64.00	64.00			
136	R110		255.00		255.00	255.00	255.00	255.00			
137	T2L18A		97.00		97.00	97.00	97.00	97.00			
138	B2		2,584.65		2,584.65	2,584.65	2,584.65	2,584.65	210.00		



SN	Road Number	Name of Road				Work Completed					Remarks
			Progress		Total	Sub-base	Base	Asphalt	RCC	Paint	
			Previous	This Month		m	m	m	m	m	
139	R7	Sani Haat Chowk to Hospital	746.80		746.80	746.80	746.80	746.80			
140	R7	(R46-R44) Shree Hospital	155.00		155.00	155.00	155.00	155.00			
141	T3 Line18A	Nearby Neuro parking	79.32		79.32	79.32	79.32	79.32			
142	T3L21A	Milan Chowk	123.40		123.40	123.40	123.40	123.40			
143	T3L18C		103.00		103.00	103.00	103.00	103.00			
144	R39	Sansari Maisthan	160.00		160.00	160.00	120.00				
145	R40		330.60		330.60	330.60	330.60	330.60			
146	R101		260.00		260.00	260.00					
147	T3Line5	Sanihat to Nagarpalika	285.00		285.00	285.00	285.00				
148	R7(R21 to R18)		68.00		68.00	68.00	68.00	68.00			
149	R7(R25 to R27)		155.00		155.00	155.00	155.00	155.00			
150	R9(R37 to R30)		219.60		219.60	219.60	219.60	219.60			
151	N8		166.90		166.90	166.90	166.90	166.90			
152	R7		983.00		983.00	983.00	983.00	983.00			
153	R5		110.00		110.00	110.00	110.00				



SN	Road Number	Name of Road				Work Completed					Remarks
			Progress		Total	Sub-base	Base	Asphalt	RCC	Paint	
			Previous	This Month		m	m	m	m	m	
154	T2Line11N		65.00		65.00	65.00	65.00	65.00			
155	R6	Siddhartha to R46	130.00		130.00	130.00	130.00				
156	R100 (T2Line 22B)		150.00		150.00	150.00	150.00				
157	T3 Trunk Line	Devkota to Family Planning	340.00		340.00	340.00	340.00	340.00			
158	T3Line25A		302.00		302.00	302.00	302.00				
159	T3 Line23C		90.00		90.00	90.00	90.00	90.00			
160	R10		180.00		180.00	180.00					
161	T2 Line18K		76.00		76.00	76.00	76.00	76.00			
162	R47	Matrika Marga	322.00		322.00	155.00	155.00	155.00			
163	T3 Line22 (Devkota chowk to NRB)		190.00		190.00	190.00	190.00	190.00			
164	R26	East of R3	324.00		324.00	324.00	324.00	324.00			
165	R27	East of R3	186.00		186.00	186.00	186.00	186.00			
166	N33	Parichaya Marga	194.50		194.50	194.50	194.50	194.50			
167	T3Line10C	Green cross Line	100.00		100.00	100.00	100.00	100.00			



SN	Road Number	Name of Road				Work Completed					Remarks
			Progress		Total	Sub-base	Base	Asphalt	RCC	Paint	
			Previous	This Month		m	m	m	m	m	
168	N23		75.00		75.00	75.00	75.00	75.00			
169	R10		181.00		181.00	181.00					
170	R15		340.00		340.00	340.00	340.00	286.00			
171	T3 Trunk	DUDBC off to Sanihat	231.70		231.70	231.70	231.70	231.70			
172	R16	East of Dharambad	218.10		218.10	218.10	218.10	218.10			
173	T3Line10	Green cross Line	184.20		184.20	184.20	184.20	140.00			
174	T2Line19B		148.00		148.00	148.00	148.00				
175	T3Line13C	Kumari Mill Line	229.30		229.30	229.30	229.30	229.30			
176	T2Line22A	Indreni Marga	382.00		382.00	382.00	382.00	260.00			
177	T2Line19W	Near Parichaya Marga	58.80		58.80	58.80					
178	R23		227.00		227.00	227.00	227.00	227.00			
179	R11	Om Shanti Marga		317.00	317.00	317.00					
180	R6	Shital Yadav Clinic Road		180.00	180.00	150.00					
181	R64			123.00	123.00	123.00					
	<b>Total</b>		<b>62,923.09</b>	<b>842.00</b>	<b>63,765.09</b>	<b>63,446.09</b>	<b>61,496.49</b>	<b>59,651.29</b>	<b>210.00</b>	<b>18,395.30</b>	





**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	902.00		902.00	902.00	0.98	879.45	RHS
2	R2	Precast block	602.00		602.00	602.00	1.10	662.20	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
7	R28	Precast block	341.00		341.00	341.00	0.90	306.90	RHS
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



SN	Road Number	Type*	Progress in m			Footpath			Remarks
			Previous	This Month	Cumulative	Length (m)	Avg. Breadth (m)	Quantity (m <sup>2</sup> )	
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
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



SN	Road Number	Type*	Progress in m			Footpath			Remarks
			Previous	This Month	Cumulative	Length (m)	Avg. Breadth (m)	Quantity (m <sup>2</sup> )	
36	B3	Precast block	1,160.00		1,160.00	1,160.00	2.33	2,697.00	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
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
	<b>Total =</b>		<b>18,547.00</b>		<b>18,547.00</b>	<b>18,547.00</b>		<b>21,540.10</b>	



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

SN	Description	Unit	Proposed in VO-02	Total Up to Previous Month	This Month	Total Up to this Month	Progress wrt VO-02
1	Sub grade	m	74,573.60	62,923.09	842.00	63,765.09	85.51%
2	Sub Base	m	74,573.60	62,756.09	690.00	63,446.09	85.08%
3	Base	m	74,573.60	60,503.49	993.00	61,496.49	82.46%
4	Prime/Tack	m	74,573.60	58,712.29	939.00	59,651.29	79.99%
5	Asphalt	m	74,573.60	58,712.29	939.00	59,651.29	79.99%

### 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 already started drain works at many locations. 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
			Progress		Total	Brick	RCC	
			Previous (Revised)	This Month		m	m	
1	B1	Kanchan Marg	45.00		45.00	45.00		
2	R29	Shanti Marg	256.52		256.52	256.52		
3	N36		185.88		185.88	185.88		
4	R8		219.83		219.83	219.83		
5	R7	Devi Marg and Pipal Marg	89.76		89.76	89.76		
6	R63	DSP Road	418.79		418.79	418.79		



SN	Road Number	Name of Road	Length in (m)			Work Completed		Remarks
			Progress		Total	Brick	RCC	
			Previous (Revised)	This Month		m	m	
7	R9	Baglamukhi path	103.20		103.20	103.20		
8	S13	Udaya Marga	79.05		79.05	79.05		
9	N33		60.00		60.00	60.00		
10	R28	Pustakalaya Marg	139.00		139.00	139.00		
11	R90	Shakti Marg	377.30		377.30	377.30		
12	R114	Dharanidhar Marg	312.32		312.32	312.32		
13	R11	Om Shiv Marg	204.25		204.25	204.25		
14	R18		389.50		389.50	389.50		
15	R17		372.00		372.00	372.00		
16	R113	Kavi Lekhnath Marg	157.15		157.15	157.15		
17	R77	Arniko Marg	80.00		80.00	80.00		
18	R76	Mitra Marg	270.00		270.00	270.00		
19	N9	Devi Marga	222.58		222.58	222.58		
20	N4		162.20		162.20	162.20		
21	R33	Tarun Marg	283.15		283.15	283.15		
22	R36	Gaurav Marg	221.80		221.80	221.80		
23	R86	Janpath Marg	192.15		192.15	192.15		
24	R183	Nava Jyoti Marg	219.40		219.40	219.40		
25	R7a		67.35		67.35	67.35		
26	Rani site	Rani B	365.33		365.33	365.33		
27	Rani site	Rani A	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	194.13		194.13	194.13		



SN	Road Number	Name of Road	Length in (m)			Work Completed		Remarks
			Progress		Total	Brick	RCC	
			Previous (Revised)	This Month		m	m	
31	R2	Main Road	2,793.50		2,793.50	2,793.50		
32	T1L16B	Xenial Front	205.68		205.68	205.68		
33	T1L16A	Xenial South	160.74		160.74	160.74		
34	R75	Tintoliya Marga	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		
37	R7(b)(Neuro to sidhartha chowk)	Siddhartha Marga	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	970.00		970.00		970.00	
41	R21(a)	DharamBadh Junction	95.00		95.00	95.00		
42	R188	Shakti Marg	115.60		115.60	115.60		
43	R40	Brahma Kumari Marga	328.20		328.20	328.20		
44	Rani Site C		97.50		97.50	97.50		
45	Ranit Site D		131.45		131.45	131.45		
46	T3L21	Moti Marga	527.00		527.00	527.00		
47	T3L39	Gaheli Marga	340.00		340.00	340.00		
48	T3 Line 39A		139.00		139.00	139.00		
49	T3 L39B		58.50		58.50	58.50		
50	T2L27	Bhumi Prashasan Junction	79.50		79.50	79.50		
51	N2		103.20		103.20	103.20		
52	T2 Line 26E	College Road	90.00		90.00	90.00		
53	T2 Line 18C	Maisthan Marga	102.00		102.00	102.00		
54	T2Line 18A	Makalu Marga	90.00		90.00	90.00		



SN	Road Number	Name of Road	Length in (m)			Work Completed		Remarks
			Progress		Total	Brick	RCC	
			Previous (Revised)	This Month		m	m	
55	R6 (T3L11i)		265.00		265.00	265.00		
56	R9 (T3L11k)	Tathasthu Marga	180.00		180.00	180.00		
57	R45 (T3Line10D)	Dadhiram Marga	298.00		298.00	298.00		
58	R9, T2 L19	Fanindra Marga and Banglamukhi Marga	362.00		362.00	362.00		
59	R7c (Neuro to Shanti Chowk)	Siddhartha Marga	600.00		600.00	600.00		
60	R84	School Marga and Tenjing Marga	560.00		560.00	560.00		
61	R85	Lekhanath Marga	150.00		150.00	150.00		
62	R87	Byas Marga	150.00		150.00	150.00		
63	Rani B (Bus park)		90.00		90.00	90.00		
64	R8(a)	Madhumara Marg	312.00		312.00	312.00		
65	T3L23A, R101		220.00		220.00	220.00		
66	Rani E		80.00		80.00	80.00		
67	R102	Hamro Marg	140.00		140.00	140.00		
68	R10/R10a	Ram Marga	740.36		740.36	740.36		
69	N10	APF	193.00		193.00	193.00		
70	R23	Bani Marg	200.00		200.00	200.00		
71	R103	Vibuti Marga	170.00		170.00	170.00		
72	T3L6 and T3L7	Sahid Marga	730.00		730.00	730.00		
73	P1, T3L6A	Pandit Meghnath Marga	260.00		260.00	260.00		
74	T2 L24C & D	Hanuman Das Marga	180.00		180.00	180.00		
75	T2 L25 (R5)	Chulachuli Marga	200.00		200.00	200.00		
76	R20		108.00		108.00	108.00		





SN	Road Number	Name of Road	Length in (m)			Work Completed		Remarks
			Progress		Total	Brick	RCC	
			Previous (Revised)	This Month		m	m	
77	T2L24F		115.50		115.50	115.50		
78	R105		86.00		86.00	86.00		
79	R34	Prabhu Marg	158.35		158.35	158.35		
80	R35	Garima Marg	140.00		140.00	140.00		
81	R107		160.00		160.00	160.00		
82	T3L13D		70.63		70.63	70.63		
83	T3L13E		62.40		62.40	62.40		
84	T3L11E		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	274.00		274.00	274.00		
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		130.00		130.00	130.00		



SN	Road Number	Name of Road	Length in (m)			Work Completed		Remarks
			Progress		Total	Brick	RCC	
			Previous (Revised)	This Month		m	m	
101	T3L11B		71.00		71.00	71.00		
102	T3L11M		82.00		82.00	82.00		
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		



SN	Road Number	Name of Road	Length in (m)			Work Completed		Remarks
			Progress		Total	Brick	RCC	
			Previous (Revised)	This Month		m	m	
126	R19		226.00		226.00	226.00		
127	R83	Shiva Marga	125.00	245.00	370.00	370.00		
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	380.00	110.00	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	475.00		475.00	475.00		
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		



SN	Road Number	Name of Road	Length in (m)			Work Completed		Remarks
			Progress		Total	Brick	RCC	
			Previous (Revised)	This Month		m	m	
151	T3L25A	Bhakti Marga	260.00	20.00	280.00	280.00		
152	R16, T3L36	Satya Marga	200.00		200.00	200.00		
153	R17, T3L35		100.00	127.00	227.00	227.00		
154	T3L20	Janani Marga	200.00	75.00	275.00	275.00		
155	N34, T3L31A		80.00	88.00	168.00	168.00		
156	T2L19W	Bhugol Marga	50.00	7.00	57.00	57.00		
157	T2L19V	Bhugol Marga	90.00		90.00	90.00		
158	T1L8B	School Marga	115.00		115.00	115.00		
159	T2L19K	Sundar Marga	45.00	162.00	207.00	207.00		
160	T2L19o		-	35.00	35.00	35.00		
	<b>Total</b>		<b>35,424.00</b>	<b>1,079.00</b>	<b>36,503.00</b>	<b>35,043.00</b>	<b>1,460.00</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 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 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 55 grievances have been registered formally up to this reporting period, among them, 10 grievances are registered in GRC desk, 27 grievances are listed in register and 18 are written. Similarly, 122 grievances are received through telephone. Received all grievances have immediately been addressed and solved. Received grievances are tabled in Social Safeguard desk, SD discussed over different grievances and social and environmental agendas to immediate mitigate of public complains. Total 15 no. of SD meeting has held up to this reporting period. Project manager has chaired the meeting. GRC meeting has held as per need and mayor has chaired the meeting.





### **3.4.3. GENDER EQUITY AND SOCIAL INCLUSION (GESI):**

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

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

### **3.4.4. STATUS OF SOCIAL AND ENVIRONMENTAL SAFEGUARD MEASURES**

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

During the site visit for Socio Environment monitoring by DSC Environmental and Social Safeguard Expert on date 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. Wakening us about to maintain distancing, wash hand frequently, how to stay at camp, to use sanitizer and wear mask to protect yourself and instructed to the contractor to develop Standard Operating Procedures for COVID-19 Risk Management at Workplace.

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 and R29 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 and 18.40 meters in length are completed.

The supply has been providing temporarily as per site condition and where required.

Table – 5: Status of Labor at Site

Labour class	Labour		Composition		Ethnic composition				
	Skilled	Unskilled	Male	Female	Janjati	Dalit	Muslim	Madhesi	Brahmin/Chhetri
Local	35	86	115	6	25	13	15	68	0
Non local	20	67	87	0	23	12	3	49	0
Indian	0	0	0	0	0	0	0	0	0
<b>TOTAL</b>	<b>55</b>	<b>153</b>	<b>202</b>	<b>6</b>	<b>48</b>	<b>25</b>	<b>18</b>	<b>117</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>	90,419,375.33	



			May 2019		
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	
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 – 29 <sup>th</sup> Feb, 2020	102,186,834.62	
17	IPC 17	1 <sup>st</sup> July 2020	1 <sup>st</sup> March, 2020–30 <sup>th</sup> June, 2020	153,448,663.15	
<b>Total amount excluding PA &amp; Mobilization advance till date =</b>				<b>2,443,046,598.82</b>	

**Note:**

- The contractor requested for cost claim under various categories like idle manpower, idle equipment, interest on delay payment, works hampered due to events occurred during various Banda, site possession not available on time and disputes of right of way pursue to clause 2.1, 8.4, 14.8 and 20.1 of GCC/PCC and those are under perusal. The contractor further claimed for the time and cost on assumption that as the work progress is negligible wrt planned one due to lockdown which eases yet in some categories, BMC imposed lockdown till 14<sup>th</sup> Aug 2020 but to come everything in normal condition takes time, also shows his dissatisfaction on approval of EOT.
- Physical progresses are lagging due to lockdown, unviability of sufficient pass/permit, stocks of materials and rainy season, etc so that we focus mainly on maintenance works which minimize the risks of waterlogging and facilitate the traffic movement in improved approaches. Also help to finish the incomplete works.
- EOT and VO of the consultant submitted to the employer on 9<sup>th</sup> June, 2020 to peruse and further action toward approval from the concerned authorities.



## 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:

- Detailed Design and Procurement Assistance Phase for integrated solid waste management design (ISWM)
- 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.

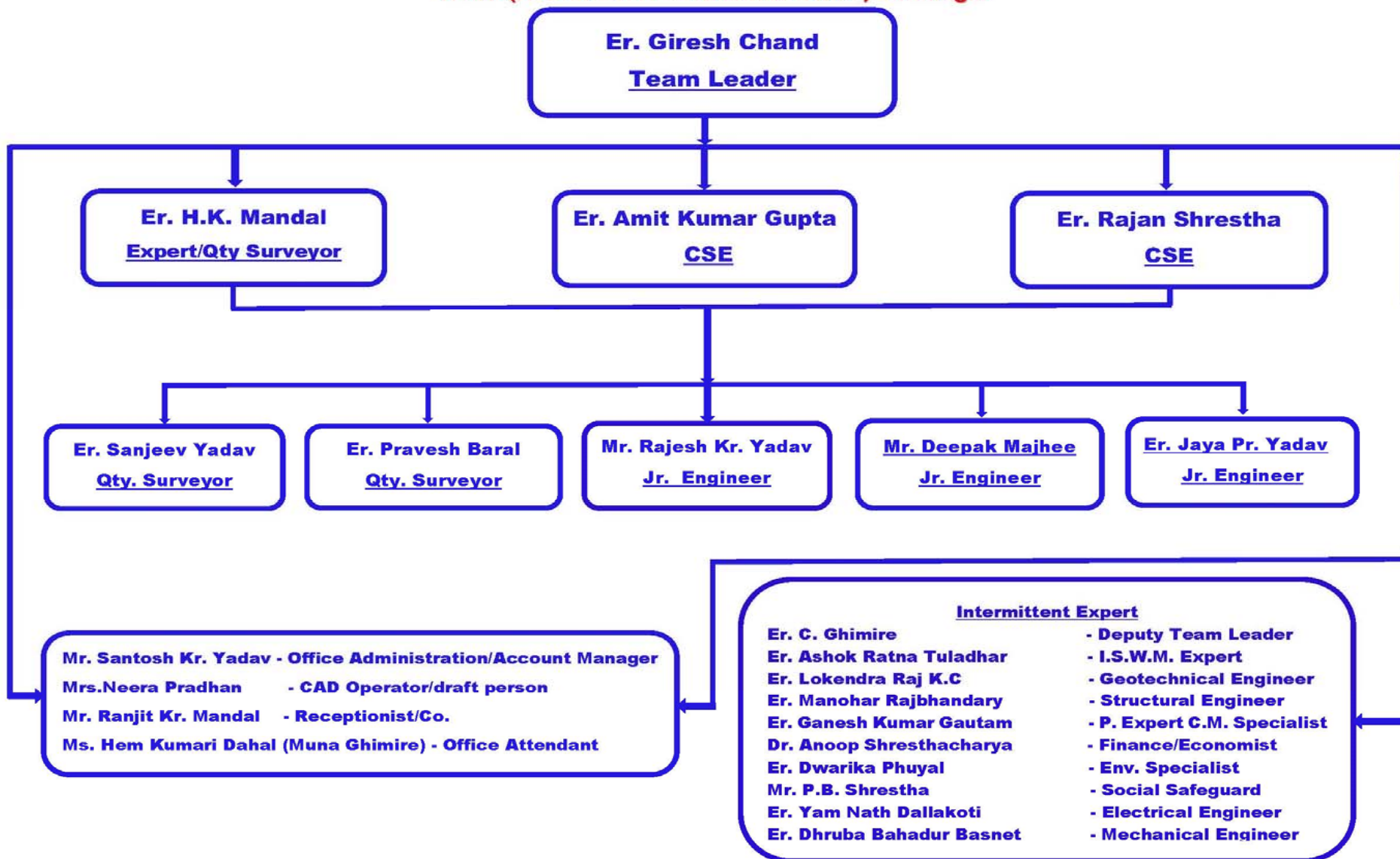


#### 4.3. ORGANIZATION AND STAFFING

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. Giresch 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.
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 Majhi	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. Yubraj 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, manhole etc.) for better work progress of the project. The Contractor has established three production yards at Koshi project and Madhumara camp for pre-cast items like Kerb stone, drain cover slab, sewer precast elements, etc. But as more than 80% work done wrt VO-2 so that the production yard at Koshi project has been closed but production at Madhumara camp 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
<del>February-19</del>	<del>7.96%</del>	<del>70.33%</del>	<del>5.11%</del>	<del>50.38%</del>				<del>-19.95%</del>	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	
<b>December-2019 (after Revision-2)</b>	5.00%	72.98%	5.14%	73.12%	0.14%	0.14%	NA	NA	Leading
<b>January-20</b>	6.00%	78.98%	10.62%	83.74%	4.62%	4.76%	NA	NA	Leading
<b>February-20</b>	6.70%	85.68%	1.48%	85.22%	NA	NA	-5.22%	-0.46%	Lagging
<b>March-20</b>	6.80%	92.48%	1.67%	86.89%	NA	NA	-5.13%	-5.59%	Lagging
<b>April-20</b>	7.00%	99.48%	0.00%	86.89%	NA	NA	-7.00%	-12.59%	Lagging
<b>May-20</b>	0.52%	100.00%	0.86%	87.75%	0.34%	NA	NA	-12.25%	Lagging
<b>June-20</b>			1.15%	88.90%					
<b>July-20</b>			0.84%	82.97%					wrt VO-2

### 5.3. KEY EVENTS

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		<ul style="list-style-type: none"> <li>Frequent visit the site by representatives of the employer as per work program.</li> <li>They available always to sort out the grievances related to the project when required.</li> </ul>	
2		<ul style="list-style-type: none"> <li>As usual conferred about the awareness and training on COVID-19, regarding maintain physical distancing, frequently hand washing, use of PPE (masks, gloves, etc.).</li> <li>Monitoring compliances of PPE's during Pandemic due to COVID-19.</li> </ul>	Frequent discussion and compliances



## 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		87,951.00	1,000.00	88,951.00	Under progress
2	Kerb Stone	Rm	147,729.68	101,210.80		101,210.80	68.51%

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

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



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

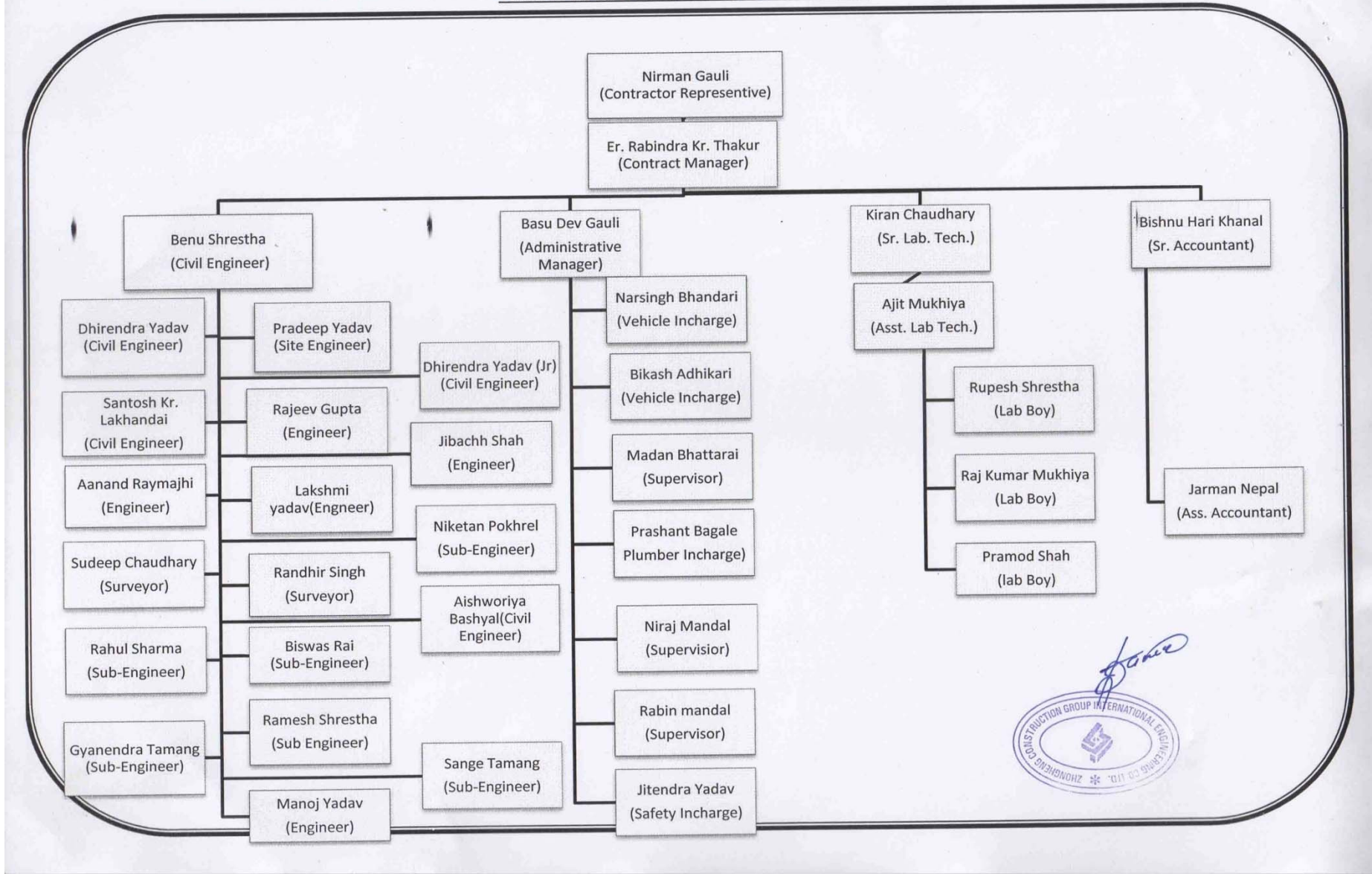
<i>Physical Progress till date</i>							
<i>S.N.</i>	<i>Description</i>	<i>Diameter (mm)</i>	<i>Progress</i>			<i>Total to Date (RM.)</i>	<i>Remarks</i>
			<i>BoQ (RM)</i>	<i>Up to Previous month (RM.)</i>	<i>This Month (RM.)</i>		
1	HDPE Pipe	110.00	1,987.20	4,487.20	-	4,487.20	
2	HDPE Pipe	200.00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

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

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



**Details of Contractor's Site Personnel's**



## 7. CONTRACTOR'S MANPOWER

**Table 13: CONTRACTOR'S KEY STAFFS.**

S. No.	Position	Minimum Number Required as per Contract	ZHONGHENG CONSTRUCTION Group	Remarks
1	Project / Contract Manager (1 No) 15/10 Yrs. (Total / Similar Exp.)	1	1	
2	Civil Engineer-10/6	2	2	
3	Sanitary Engineer - (1no.) -12/8	1	-	
4	Road Engineer-(1no.) -12/8	1	1	
5	Electromechanical Engineer - (1no) - 10/5	1	-	
6	Safety Engineer	-	1	
7	Site Engineer	-	8	
8	Sub- Engineer	-	6	
9	Accountant	-	2	
10	Lab Technician	-	5	
11	Store Keeper	-	1	
12	Vehicle In charge	-	2	
13	Skilled Labors		55	
14	Unskilled Labors		153	



## 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	1	Backhoe loader-5 Nos.
2	Crane (10 ton capacity)	3	1	
3	Asphalt plant of adequate capacity	1	1	
4	Asphalt pavers	1	1	
5	Vibrating roller	2	4	Among 4 Nos.:- 2 ton rollers – 1Nos.
6	Pneumatic tyre roller 8 to 10 ton	2	1	
7	Smooth wheeled roller 8 to 10 ton	1	1	
8	Grader	1	1	
9	Track Dozer (120 to 180 HP)	1	-	
10	Bitumen distributor (4 to 6 Kilo Litres)	1	1	
11	Water browser ( minimum 5000 Litres)	3	3	
12	Chips spreader	1	-	
13	Bitumen decanter minimum 4000 Litres. ( preheating container)	2	2	
	Air compressor	2	2	
14	Tipping Trucks	5	2	
15	Service vehicle	15	4	Tractor = 10 Nos.
16	Survey equipment (Total	2		





S. No.	Equipment Type and Characteristics	Min Number required as per Contract	ZHONGHENG CONSTRUCTION Group	Remarks
	station with accessories)			
17	Theodolite	1	-	
18	Levelling	2	2	
19	Mobile Generator 15-20 KVA	5	5	
20	Mixer Machine	3	5	
21	Concrete Batching Plant	1	-	
22	Concrete pump	1	-	
23	Drain cleaner/ Nala cleaner	2	-	
24	Broomer	-	1	
25	Motor Bike	-	12	
26	Plate Compactor	-	5	
27	Water Pump	-	10	

## 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 works.
- Laying of Kerb Stone, cover slab and interlocking tiles.
- Placement of Sewer inlet and House Connection works.
- Relocation of electric poles and water supply works.
- Repair & Maintenance works, etc.

**Note:** The contractor claimed for time & cost pursuant to relevant clauses of the contract which are under perusal, BMC announced the lockdown from 31<sup>st</sup> July 2020 to 14<sup>th</sup> August 2020.



ANNEX-1: Photographs of July 2020





Base work at Devkota Chowk



Teak drain at Hanuman Das Road





Drain cleansing at R9



Sub Base at R10





HCC Work at R17



Drain cleansing R105



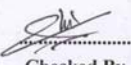
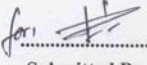
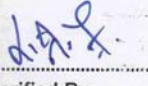

ANNEX-2: Minutes of Meeting July 2020  
(Not Any)



ANNEX-3: Laboratory Test Results of July 2020





REGIONAL URBAN DEVELOPMENT PROJECT									
Biratnagar Metropolitan City									
Contract No:- RUDP/ICB/BRT-02									
Summary Sheet of Monthly Test Report									
Location:-R-11						Month: Year	July 2020		
						Type of Material	Sub grade		
Sn.	Lab.Ref no.	Location/Chainage	Source of Sample	Date of Testing	MDD	OMC	PI%	CBR%	Remarks
1	RUDP-SG-01	R-11,(0+150)	Existing Road	5-Jul-20	1.970	8.48	6.67	8.29	
						<18	>3		
<b>Contractor</b>					<b>Consultant</b>				
 ZHONGHENG CONSTRUCTION GROUP INTERNATIONAL ENGINEERING CO. LTD					 BUILDING DESIGN AUTHORITY (P) LTD IN JOINT VENTURE WITH BA 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 Giresh Chand			





**REGIONAL URBAN DEVELOPMENT PROJECT**

**Biratnagar Metropolitan City**

**Contract No:- RUDP/ICB/BRT-02**

**Summary Sheet of Field Density Test**

Sn.	Lab.Ref.no	Testing Date	Chainage	Moisture content %		Density(gm/cc)		Compaction %	
				OMC%	Field MC%	Max.Dry density gm/cc	Field Dry density, gm/cc	Compaction %	Specified %
				Location:-R-11		Month Year		Type of Material Sub-Grade	
1	RUDP-SG-FD-1	8-Jul-20	0+050	8.48	8.00	1.970	1.879	95.36	95
2	RUDP-SG-FD-1	8-Jul-20	0+110	8.48	8.83	1.970	1.879	95.40	95
3	RUDP-SG-FD-1	8-Jul-20	0+160	8.48	8.09	1.970	1.906	96.74	95
4	RUDP-SG-FD-1	8-Jul-20	0+230	8.48	7.09	1.970	1.925	97.74	95
5	RUDP-SG-FD-1	8-Jul-20	0+250	8.48	6.29	1.970	1.879	95.40	95
6	RUDP-SG-FD-1	8-Jul-20	0+300	8.48	6.07	1.970	1.897	96.30	95

**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 LTD, KATHMANDU, NEPAL

*Dms*  
 Checked By  
 Engineer  
 Dharendra yadav

*Rabi*  
 Submitted By  
 Contract Manager  
 Rabindra Kr Thakur

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

*G*  
 Approved By  
 Team Leader  
 Giresch Chand









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

Month:	July 2020	
	Year	Sub-base
Year	2020	
Type of Material		
OMC	6.20	0.73
PI%	6.20	48.80
CBR%		
Remarks		

**Location :- T2L19W**

Sieve Size in mm / passing % By Weight										
	63.0	37.5	20.0	10.0	5.0	2.36	1.18	0.075	MDD	
63.0	100	89.95	71.02	55.42	36.49	27.89	17.27	9.77	2.214	
100										
37.5										
20.0										
10.0										
5.0										
2.36										
1.18										
0.075										
MDD										
Spec. Limit :	100	65-95	50-85	40-75	30-60	20-45	15-37	4-15		<6
										>30







  

<p><b>Contractor</b>                  ZHONGHENG CONSTRUCTION GROUP INTERNATIONAL ENGINEERING CO. LTD</p> <p style="text-align: center;"><i>(Signature)</i>                  Submitted By                  Contract Manager                  Rabindra Kr. Thakur</p>	<p><b>Consultant (PI) Lab</b>                  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 style="text-align: center;"><i>(Signature)</i>                  Verified By                  Expert Qty Surveyor/CSE                  H.K. Mandal/Rajan Shrestha</p>
<p><b>Checked By</b>                  Engineer                  Dharendra Yadav</p>	<p><b>Approved By</b>                  Team Leader                  Giresh Chand</p>







<b>REGIONAL URBAN DEVELOPMENT PROJECT</b>																	
Biratnagar Metropolitan City																	
Contract No:- RUDP/ICB/BRT-02																	
Summary Sheet of Monthly Test Report																	
<b>Location :-R-39</b>																	
Sn.	Lab. Ref no.	Location of Sample	Source of Sample	Date of Testing	Sieve Size in mm / passing % By Weight						MDD	PI% CBR%	Remarks				
					63.0	37.5	20.0	10.0	5.0	2.36				1.18	0.075		
1	RUDP-SB-01	R-39,(0+080)	Chising Khola	1-Jul-20	100	89.21	69.56	53.19	35.53	26.22	17.53	10.09	2.221	6.51	1.16	51.50	
Spec. Limit : 100 65-95 50-85 40-75 30-60 20-45 15-37 4-15 <6 >30																	
 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  Dhirendra Yadav Engineer			Submitted By  Contract Manager Rabindra Kr. Thakur			Verified By  Expert Qty Surveyor/CSE H.K. Mandal/Rajan Shrestha			Approved By  Team Leader Giresh Chand								













**REGIONAL URBAN DEVELOPMENT PROJECT**

Biratnagar Metropolitan City

Contract No: RUDP/CB/BRT-02

Summary Sheet of Monthly Test Report

S.N.	Lab. Ref no.	Location of Sample	Source of Sample	Date of Testing	Sieve Size in mm / % passing By Weight										MDD	OMC	PI%	L.A.A. %	Type of Material			Remarks			
					40	31.5	20	10	4.75	2.36	0.6	0.075	FI and EI %	A.I.V. %					CR %	CBR %					
1	RUDP-B-01	T2L19B(0+080)	Chisang Khola	20-Jul-20	100	90.83	73.87	57.99	33.23	24.42	13.20	5.08	2.255	5.00	NP	30.80	22.52/19.13	23.07	81.93	84.00					
					Spec. Limit :																				
					100	85-100	62-92	40-70	26-55	21-53	12-28	2-10													

**Contractor**

ZHONGHENG CONSTRUCTION GROUP INTERNATIONAL ENGINEERING CO., LTD



Checked By  
Engineer  
Dhirendra Yadav

Submitted By  
Contract Manager  
Rabindra Kr. Thakur

**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/Rajjan Shrestha

Approved By  
Team Leader  
Girish Chand







**REGIONAL URBAN DEVELOPMENT PROJECT**

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

Summary Sheet of Monthly Test Report

S.N.	Lab. Ref no.	Location of Sample	Source of Sample	Date of Testing	Sieve Size in mm / % passing By Weight										Base												
					40	31.5	20	10	4.75	2.36	0.6	0.075	MDD	OMC	PI%	L.A.A. %	FI and EI %	A.I.V. %	CR %	CBR %	Remarks						
1	RUDP-B-01	T21.24C-D-(0+060)	Chisang Khola	22-Jul-20	100	87.47	65.64	53.27	41.20	31.64	21.27	7.75	2.246	5.30	NP	32.30	17.46/16.22	21.47	82.85	82.00							
2	RUDP-B-02	T21.24C-D-(0+140)	Chisang Khola	23-Jul-20	100	86.73	65.94	52.56	40.00	31.07	20.36	8.57			NP	31.96	17.88/16.28	20.20	82.67								
					Spec. Limit :										100	85-100	62-92	40-70	26-55	21-53	12-28	2-10	<45	<35	<35	>80	>80

Location:- T2124C,D

Contractor

ZHONGHENG CONSTRUCTION GROUP INTERNATIONAL ENGINEERING



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

Submitted By  
Contract Manager  
Rabindra Kr. Thakur

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

Approved By  
Team Leader  
Girish Chand

Checked By  
Engineer  
Dhirendra Yadav





## REGIONAL URBAN DEVELOPMENT PROJECT




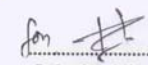


**Biratnagar Metropolitan City**  
Contract No:- RUDP/ICB/BRT-02

Summary Sheet of Field Density Test

Location:-T2L24C,D

Month	July
Year	2020
Type of Material	Base

Sn.	Lab.Ref.no	Testing Date	Chainage	Moisture content %		Density(gm/cc)		Compaction %	
				OMC%	Field MC%	Max.Dry density	Field Dry density,	Compaction %	Specified %
1	RUDP-B-FD-1	24-Jul-20	0+040	5.30	5.93	2.246	2.237	99.59	98
2	RUDP-B-FD-1	24-Jul-20	0+090	5.30	5.08	2.246	2.227	99.14	98
3	RUDP-B-FD-1	24-Jul-20	0+130	5.30	5.86	2.246	2.209	98.35	98

 <p><b>Contractor</b> ZHONG HENG CONSTRUCTION GROUP INTERNATIONAL ENGINEERING CO. LTD</p>	 <p><b>Consultant</b> 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 style="text-align: center;"> Checked By Engineer Dhirendra Yadav</p>	<p style="text-align: center;"> Submitted By Contract Manager Rabindra Kr. Thakur</p>
<p style="text-align: center;"> Verified By Expert Qty Surveyor/CSE H.K. Mandal/Rajns Shrestha</p>	<p style="text-align: center;"> Approved By Team Leader Giresh Chand</p>









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

Month: July  
 Year: 2020

**Location: - T3L5**

S.N.	Lab Ref no.	Location of Sample	Source of Sample	Date of Testing	Sieve Size in mm / % passing By Weight								MDD	OMC	PP%	Type of Material			Remarks					
					40	31.5	20	10	4.75	2.36	0.6	0.075				L.A.A. %	FI and EI %	A.I.V. %		CR	CBR %			
1	RUDP-B-01	T3L5 (0+050)	Chising Khola	18-Jul-20	100	89.05	68.59	57.82	40.56	32.30	17.95	7.36	2.232	6.10	NP	27.58	19.45/18.74	20.57	82.85	91.00				
2	RUDP-B-02	T3L5 (0+130)	Chising Khola	19-Jul-20	100	88.68	67.69	56.38	39.07	31.21	18.47	7.31			NP	28.76	20.47/19.45	21.39	82.35					
3	RUDP-B-03	T3L5 (0+210)	Chising Khola	20-Jul-20	100	87.33	66.71	54.83	37.37	29.91	17.74	6.52			NP	31.50	17.83/18.26	19.95	82.66					

Spec. Limit : 100 85-100 62-92 40-70 26-55 21-53 12-28 2-10

Contractor

ZHONGHENG CONSTRUCTION GROUP INTERNATIONAL ENGINEERING CO. LTD

Consultant

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

**Checked By**  
 Engineer  
 Dharendra Yadav

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

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

**Approved By**  
 Team Leader  
 Giresh Chand





### REGIONAL URBAN DEVELOPMENT PROJECT

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

Summary Sheet of Field Density Test

Location:-T3L5

Month	July
Year	2020
Type of Material	Base

Sn.	Lab.Ref.no	Testing Date	Chainage	Moisture content %		Density (gm/cc)		Compaction %	
				OMC%	Field MC%	Max.Dry density	Field Dry density,	Compaction %	Specified %
1	RUDP-B-FD-1	24-Jul-20	0+030	6.10	5.14	2.232	2.192	98.20	98
2	RUDP-B-FD-1	24-Jul-20	0+060	6.10	5.23	2.232	2.193	98.26	98
3	RUDP-B-FD-1	24-Jul-20	0+110	6.10	4.12	2.232	2.211	99.06	98
4	RUDP-B-FD-1	24-Jul-20	0+160	6.10	4.82	2.232	2.211	99.07	98
5	RUDP-B-FD-1	24-Jul-20	0+200	6.10	5.32	2.232	2.192	98.20	98
6	RUDP-B-FD-1	24-Jul-20	0+230	6.10	5.89	2.232	2.208	98.92	98
7	RUDP-B-FD-1	24-Jul-20	0+260	6.10	5.91	2.232	2.204	98.74	98

Contractor			
 <p>ZHONGHENG CONSTRUCTION GROUP INTERNATIONAL ENGINEERING CO. LTD</p>	 <p>BUILDING DESIGN AUTHORITY (P) LTD IS JOINT VENTURE WITH B.N. CONSULTANCY PVT. LTD AND PLUS ENGINEERS &amp; ARCHITECTS (P) LTD, KATHMANDU, NEPAL</p>		
 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



**REGIONAL URBAN DEVELOPMENT PROJECT**

Biratnagar Metropolitan City

Contract No: RUDP/ICB/BRT-02

**Daily Application Rate Check for Priming work**

**SUMMARY FOR THE MONTH OF JULY 2020**

Type of Bitumen: 80/100 P.G

Cutter Percentage: MC 70:MC30

SN NO	Location	Date of Priming	Station From	Station to	Side of Priming	Area of Priming (m2)	Intersection Area m2	Total Area M2	Bitumen Consumption (Ltr)	Application Rate By Deep Ltr/m2	Application Rate Bt Tray Test Ltr/m2
1	N-3	2-Jul-20	0+000	0+286	Both side	1344.20	0.00	1344.20	1440	1.07	1.05
2	T3L22A	3-Jul-20	0+000	0+260	Both Side	873.60	0.00	873.60	950	1.09	1.06
3	R-6 (T3L10)	3-Jul-20	0+115	0+175	Both Side	384.00	0.00	384.00	400	1.04	1.03
4	T3L25A	15-Jul-20	0+000	0+328	Both Side	1676.08	0.00	1676.08	1775	1.06	1.04
<b>Total</b>									<b>4565</b>		

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

Contractor

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/RajamShrestha

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 JULY-2020										Page no 1 of 1										
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 Bt Tray Test Lit/m2									
1	N-3	6-Jul-20	0+000	0+286	BHS	1344.2	0	1344.20	750	0.56	0.55									
2	R-23	6-Jul-20	0+000	0+226	BHS	926.6	0	926.6	550	0.59	0.52									
3	T2L18K	7-Jul-20	0+000	0+072	BHS	223.2	0	223.20	125	0.56	0.49									
4	R-6,(T3L10)	7-Jul-20	0+115	0+175	BHS	384	0	384.00	225	0.59	0.49									
5	T2L22A	7-Jul-20	0+000	0+260	BHS	873.6	0	873.60	500	0.57	0.51									
6	T3L23C,Jai Nepal Chowk	8-Jul-20	0+000	0+086	BHS	696.6	0	696.60	400	0.57	0.54									
								Total	2550											
<b>Required tack coat is 0.40 to 0.60Lit/M2 According to Road Note -3,Section 711.2</b>																				
<b>Specific Gravity of Bitumen 1.020</b>																				
<b>Contractor</b>																				
 <b>ZHONGHENG CONSTRUCTION GROUP INTERNATIONAL ENGINEERING CO. LTD</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>																				
Checked By  Engineer Dhirendra Yadav						Submitted By  Contract Manager Rabindra Kr. Thakur					Verified By  Expert Qty Surveyor/CSE H.K. Mandal/Rajjan Shrestha					Approved By  Team Leader Giresch Chand				



REGIONAL URBAN DEVELOPMENT PROJECT Biratnagar Metropolitan City Contract No: RUDP/ICB/BRT-02															P.g No. 1	
Test Result BY MARSHALL METHOD (AASHTO T 245-78) SUMMARY FOR THE MONTH OF July 2020																
S. No.	LAB REF. No.	Date of Laying	Location of Work ch:	Mix Agg Gradation							Bitumen Content From Extraction Test %	Mix Density g/m <sup>3</sup>	Air Voids %	VMA %	Stability N	Flow mm
				% Passing	7.5	16	30	47.5	75	150						
1	236	6-Jul-20	N-3,(0+000 to 0+286)	100	100	78.78	55.97	35.18	17.78	7.17	5.74	2.362	3.27	16.57	9920	2.38
2	237	6-Jul-20	R-23,(0+000 to 0+226)	100	100	78.34	56.79	36.84	18.58	6.79	5.80	2.363	3.10	16.54	9315	2.60
3	238	7-Jul-20	T2L18K,(0+000 to 0+072)	100	100	78.40	55.63	34.55	16.76	6.60	5.57	2.367	3.62	16.55	9600	2.55
4	239	7-Jul-20	R-6,(131.10),(0+115 to 0+175)	100	100	78.46	55.54	34.85	17.66	7.26	5.76	2.367	3.47	16.83	9387	2.50
5	240	7-Jul-20	T2L22A,(0+000 to 260)	100	100	78.03	54.88	33.76	16.35	6.26	5.80	2.360	3.95	17.37	10325	2.52
6	241	8-Jul-20	T3L23C,JaiNepal Chowk,(0+000 to +086)	100	100	77.22	56.89	35.49	17.06	6.89	5.60	2.365	3.85	16.84	9536	2.33
Specifications				100	100-100	76-82	54-59	33-37	16-21	6 to 9	5.703	Min2.368	3-6%	≥ 15	≥ 8500	2-3
Job Mix Tolerances from RUDP Specification Table2-4-10				±5%	Nil	±5%	±2%	±1%	Nil	Nil	±0.3%	For (25-51)mm Thickness W/C Course				
REMARKS:																
Contractor																
ZHONGHENG CONSTRUCTION GROUP INTERNATIONAL ENGINEERING CO. LTD																
Submitted By Contract Manager Rabintra Kr. Thakur																
Verified By Expert City Surveyor/CSE H.K. Mandal																
Approved By Team Leader Giresh Chand																







**REGIONAL URBAN DEVELOPMENT PROJECT**

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

S.N.	Lab Ref.No.	Testing Date	Location of Sample	Source of Brick	Name of Brick	Water Absorption of Brick(%)	Month	July
							Year	2020
							Type of Material	Brick
1	1222	1-Jul-20	R-83	Dadarbairya	ACC	14.99	14.45	
2	1223	4-Jul-20	T1L7	Dadarbairya	ACC	15.09	13.67	
3	1224	4-Jul-20	R-111	Dadarbairya	Aanand	15.02	15.21	
4	1225	6-Jul-20	T1L17	Dadarbairya	Aanand	14.99	14.63	
5	1226	7-Jul-20	R-83	Dadarbairya	Aanand	14.19	13.13	
6	1227	7-Jul-20	T1L7	Dadarbairya	ACC	14.71	14.48	
7	1228	10-Jul-20	T1L17	Dadarbairya	ACC	15.25	13.90	
8	1229	11-Jul-20	R-111	Dadarbairya	Aanand	13.83	15.68	
9	1230	11-Jul-20	T1L7	Dadarbairya	Aanand	15.34	16.02	
10	1231	11-Jul-20	R-83	Dadarbairya	Aanand	16.22	14.99	
11	1232	13-Jul-20	T1L17	Dadarbairya	ACC	15.53	14.12	
12	1233	13-Jul-20	R-111	Dadarbairya	ACC	15.00	13.76	
13	1234	13-Jul-20	R-111	Dadarbairya	ACC	13.89	15.30	
14	1235	15-Jul-20	T1L7	Dadarbairya	Aanand	14.25	14.85	
15	1236	16-Jul-20	R-111	Dadarbairya	ACC	16.46	15.61	
16	1237	16-Jul-20	T1L7	Dadarbairya	ACC	13.69	13.99	
17	1238	16-Jul-20	R-83	Dadarbairya	ACC	14.89	15.57	
18	1239	16-Jul-20	T1L17	Dadarbairya	ACC	15.50	16.09	
19	1240	18-Jul-20	R-83	Dadarbairya	ACC	15.55	14.42	
20	1241	18-Jul-20	T1L17	Dadarbairya	Aanand	16.58	15.67	
21	1242	18-Jul-20	R-111	Dadarbairya	Aanand	14.99	14.32	
22	1243	20-Jul-20	T1L7	Dadarbairya	Aanand	14.17	13.74	
23	1244	22-Jul-20	T1L17	Dadarbairya	Aanand	14.28	15.32	
24	1245	22-Jul-20	R-83	Dadarbairya	ACC	15.14	16.99	
25	1246	22-Jul-20	R-83	Dadarbairya	ACC	15.36	14.47	
26	1247	23-Jul-20	R-111	Dadarbairya	ACC	14.99	14.78	
27	1248	25-Jul-20	T1L17	Dadarbairya	ACC	14.43	15.09	
28	1249	27-Jul-20	T1L7	Dadarbairya	ACC	14.70	14.26	
Sp. Limit						<20%	>8 to 10 N/mm <sup>2</sup>	

Comments:-

			
Checked By Engineer Dharendra Yadav	Submitted By Contract Manager Rabindra Kr. Thakur	Verified By Expert Qty Surveyor/CSE H.K.Mandal/Rajan Shrestha	Approved By Team Leader Giresh Chand





**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

S.N.	Location	Lab Ref.no.	Type of Cement	Brand of Cement	Source of Sand+Agg.	Date of Casting	Month		Year		Concrete Grade
							Year		2020		
							Type of Material		Conc. Cube		
							Date of Testing		Strength, N/mm <sup>2</sup>		
		7 Days	28 Days	7 Days	28 Days						
1	Koshi Yard	RUDP-3548	Arghakhanchi	OPC	Chisang Khola	4-Jun-20	11-Jun-20	2-Jul-20		32.58	M30
2	Koshi Yard	RUDP-3549	Arghakhanchi	OPC	Chisang Khola	5-Jun-20	12-Jun-20	3-Jul-20		23.28	M20
3	T2L24C	RUDP-3550	Arghakhanchi	OPC	Chisang Khola	5-Jun-20	12-Jun-20	3-Jul-20		22.03	M20
4	T2L23C	RUDP-3551	Arghakhanchi	OPC	Chisang Khola	6-Jun-20	13-Jun-20	4-Jul-20		22.96	M20
5	T1L7	RUDP-3552	Arghakhanchi	OPC	Chisang Khola	6-Jun-20	13-Jun-20	4-Jul-20		22.11	M20
6	Madhuamara Yard	RUDP-3553	Arghakhanchi	OPC	Chisang Khola	6-Jun-20	13-Jun-20	4-Jul-20		26.86	M25
7	R-70	RUDP-3554	Arghakhanchi	OPC	Chisang Khola	6-Jun-20	13-Jun-20	4-Jul-20		22.11	M20
8	Koshi Yard	RUDP-3555	Arghakhanchi	OPC	Chisang Khola	9-Jun-20	16-Jun-20	7-Jul-20		32.58	M30
9	T3L26E	RUDP-3556	Arghakhanchi	OPC	Chisang Khola	12-Jun-20	19-Jun-20	10-Jul-20		21.71	M20
10	T2L24C	RUDP-3557	Arghakhanchi	OPC	Chisang Khola	12-Jun-20	19-Jun-20	10-Jul-20		22.44	M20
11	T2L22A	RUDP-3558	Ambe Hi-tech	OPC	Chisang Khola	12-Jun-20	19-Jun-20	10-Jul-20		22.66	M20
12	T2L90	RUDP-3559	Ambe Hi-tech	OPC	Chisang Khola	13-Jun-20	20-Jun-20	11-Jul-20		21.68	M20
13	R-6(T3L10)	RUDP-3560	Ambe Hi-tech	OPC	Chisang Khola	15-Jun-20	22-Jun-20	13-Jul-20		22.59	M20
14	T2L24C	RUDP-3561	Ambe Hi-tech	OPC	Chisang Khola	15-Jun-20	22-Jun-20	13-Jul-20		21.86	M20
15	R-18	RUDP-3562	Ambe Hi-tech	OPC	Chisang Khola	15-Jun-20	22-Jun-20	13-Jul-20		22.33	M20
16	T3L23C	RUDP-3563	Ambe Hi-tech	OPC	Chisang Khola	17-Jun-20	24-Jun-20	15-Jul-20		23.06	M20
17	R-107	RUDP-3564	Ambe Hi-tech	OPC	Chisang Khola	17-Jun-20	24-Jun-20	15-Jul-20		22.26	M20
18	T1L7	RUDP-3565	Ambe Hi-tech	OPC	Chisang Khola	19-Jun-20	26-Jun-20	17-Jul-20		21.78	M20
19	Koshi yard	RUDP-3566	Ambe Hi-tech	OPC	Chisang Khola	19-Jun-20	26-Jun-20	17-Jul-20		23.06	M20
20	T3L26E	RUDP-3567	Ambe Hi-tech	OPC	Chisang Khola	19-Jun-20	26-Jun-20	17-Jul-20		22.03	M20
21	R-70	RUDP-3568	Ambe Hi-tech	OPC	Chisang Khola	19-Jun-20	26-Jun-20	17-Jul-20		27.30	M25
22	R-18	RUDP-3569	Ambe Hi-tech	OPC	Chisang Khola	21-Jun-20	28-Jun-20	19-Jul-20		22.99	M20
23	R-4	RUDP-3570	Ambe Hi-tech	OPC	Chisang Khola	22-Jun-20	29-Jun-20	20-Jul-20		22.36	M20
24	Koshi Yard	RUDP-3571	Sarbottam	OPC	Chisang Khola	24-Jun-20	1-Jul-20	22-Jul-20	17.52	22.44	M20
25	Madhuamara Yard	RUDP-3572	Sarbottam	OPC	Chisang Khola	24-Jun-20	1-Jul-20	22-Jul-20	19.24	27.16	M25
26	T3L23	RUDP-3573	Sarbottam	OPC	Chisang Khola	24-Jun-20	1-Jul-20	22-Jul-20	15.95	22.03	M20
27	R-83	RUDP-3574	Sarbottam	OPC	Chisang Khola	24-Jun-20	1-Jul-20	22-Jul-20	14.75	21.71	M20
28	R-111	RUDP-3575	Sarbottam	OPC	Chisang Khola	26-Jun-20	3-Jul-20	24-Jul-20	16.10	22.66	M20
29	T1L8B	RUDP-3576	Sarbottam	OPC	Chisang Khola	26-Jun-20	3-Jul-20	24-Jul-20	14.68	22.11	M20
30	T1L7	RUDP-3577	Sarbottam	OPC	Chisang Khola	28-Jun-20	5-Jul-20	26-Jul-20	15.57	22.41	M20
31	Koshi Yard	RUDP-3578	Sarbottam	OPC	Chisang Khola	29-Jun-20	6-Jul-20	27-Jul-20	16.84	22.99	M20
32	R-111	RUDP-3579	Sarbottam	OPC	Chisang Khola	29-Jun-20	6-Jul-20	27-Jul-20	15.28	21.71	M20
33	T3L23	RUDP-3580	Sarbottam	OPC	Chisang Khola	1-Jul-20	8-Jul-20	29-Jul-20	16.84	22.69	M20
34	Madhuamara Yard	RUDP-3581	Sarbottam	OPC	Chisang Khola	1-Jul-20	8-Jul-20	29-Jul-20	21.28	32.21	M30
35	T1L7	RUDP-3582	Sarbottam	OPC	Chisang Khola	1-Jul-20	8-Jul-20	29-Jul-20	15.05	21.58	M20
36	T1L8B	RUDP-3583	Sarbottam	OPC	Chisang Khola	3-Jul-20	10-Jul-20	31-Jul-20	15.95	22.33	M20
37	T1L17	RUDP-3584	Sarbottam	OPC	Chisang Khola	3-Jul-20	10-Jul-20	31-Jul-20	16.77	22.91	M20
38	R-111	RUDP-3585	Sarbottam	OPC	Chisang Khola	5-Jul-20	12-Jul-20	2-Aug-20	15.35		M20
39	T3L23	RUDP-3586	Sarbottam	OPC	Chisang Khola	5-Jul-20	12-Jul-20	2-Aug-20	16.54		M20
40	T1L8B	RUDP-3587	Sarbottam	OPC	Chisang Khola	7-Jul-20	14-Jul-20	4-Aug-20	15.57		M20
41	Koshi Yard	RUDP-3588	Sarbottam	OPC	Chisang Khola	7-Jul-20	14-Jul-20	4-Aug-20	17.21		M20
42	Madhuamara Yard	RUDP-3589	Sarbottam	OPC	Chisang Khola	8-Jul-20	15-Jul-20	5-Aug-20	21.71		M30
43	Madhuamara Yard	RUDP-3590	Sarbottam	OPC	Chisang Khola	9-Jul-20	16-Jul-20	6-Aug-20	19.39		M25
44	R-83	RUDP-3591	Sarbottam	OPC	Chisang Khola	9-Jul-20	16-Jul-20	6-Aug-20	16.02		M20
45	T1L7	RUDP-3592	Sarbottam	OPC	Chisang Khola	10-Jul-20	17-Jul-20	7-Aug-20	15.28		M20
46	T3L23	RUDP-3593	Sarbottam	OPC	Chisang Khola	10-Jul-20	17-Jul-20	7-Aug-20	14.75		M20
47	Koshi Yard	RUDP-3594	Sarbottam	OPC	Chisang Khola	11-Jul-20	18-Jul-20	8-Aug-20	16.25		M20

 <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 PVT. LTD, KATHMANDU, NEPAL</b></p>	
 Checked By Engineer Dharendra Yadav	 Submitted By Contract Manager Rabindra K. Thakur	 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 Concrete Cube Test Report**

Page No 1 of 1

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
							Type of Material		Conc. Cube		
							7 Days	28 Days	7 Days	28 Days	
48	T1L7	RUDP-3595	Sarbotam	OPC	Chisang Khola	11-Jul-20	11-Jul-20	11-Jul-20	15.13		M20
49	R-111	RUDP-3596	Sarbotam	OPC	Chisang Khola	11-Jul-20	11-Jul-20	11-Jul-20	16.02		M20
50	R-83	RUDP-3597	Sarbotam	OPC	Chisang Khola	12-Jul-20	11-Jul-20	11-Jul-20	14.68		M20
51	T1L7	RUDP-3598	Sarbotam	OPC	Chisang Khola	12-Jul-20	11-Jul-20	11-Jul-20	16.62		M20
52	Koshi yard	RUDP-3599	Sarbotam	OPC	Chisang Khola	12-Jul-20	11-Jul-20	11-Jul-20	15.65		M20
53	Madhumara Yard	RUDP-3600	Sarbotam	OPC	Chisang Khola	14-Jul-20	11-Jul-20	11-Jul-20	22.53		M30
54	T1L17	RUDP-3601	Sarbotam	OPC	Chisang Khola	14-Jul-20	11-Jul-20	11-Jul-20	15.20		M20
55	Koshi yard	RUDP-3602	Sarbotam	OPC	Chisang Khola	14-Jul-20	11-Jul-20	11-Jul-20	22.83		M30
56	T1L17	RUDP-3603	Sarbotam	OPC	Chisang Khola	14-Jul-20	11-Jul-20	11-Jul-20	14.31		M20
57	R-83	RUDP-3604	Sarbotam	OPC	Chisang Khola	15-Jul-20	11-Jul-20	11-Jul-20	15.72		M20
58	T3L23	RUDP-3605	Sarbotam	OPC	Chisang Khola	15-Jul-20	11-Jul-20	11-Jul-20	16.32		M20
59	R-111	RUDP-3606	Sarbotam	OPC	Chisang Khola	15-Jul-20	11-Jul-20	11-Jul-20	14.31		M20
60	T1L8B	RUDP-3607	Sarbotam	OPC	Chisang Khola	17-Jul-20	11-Jul-20	11-Jul-20	15.28		M20
61	Koshi yard	RUDP-3608	Sarbotam	OPC	Chisang Khola	17-Jul-20	11-Jul-20	11-Jul-20	14.90		M20
62	R-83	RUDP-3609	Sarbotam	OPC	Chisang Khola	18-Jul-20	11-Jul-20	11-Jul-20	15.28		M20

 <b>ZHONGHENG CONSTRUCTION GROUP INTERNATIONAL ENGINEERING CO. LTD</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>
 Checked By Engineer Dhirendra Yadav	 Submitted By Contract Manager Rabindra K. Thakur
 Verified By Expert Qty Surveyor/CSE H.K. Mandal/Rajan Shrestha	 Approved By Team Leader Giresh 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

July

Year

2020

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/mm2		Type of Grade
							7 Days	28 Days	7 Days	28 Days	
							1	R-107	MR-2774	Arghakhanchi	
2	T1L7	MR-2775	Arghakhanchi	OPC	Chisang Khola	3-Jun-20	10-Jun-20	1-Jul-20	7.96	7.5	
3	R-70	MR-2776	Arghakhanchi	OPC	Chisang Khola	6-Jun-20	13-Jun-20	4-Jul-20	9.00	7.5	
4	T3L26A	MR-2777	Arghakhanchi	OPC	Chisang Khola	8-Jun-20	15-Jun-20	6-Jul-20	9.17	7.5	
5	T2L22A	MR-2778	Arghakhanchi	OPC	Chisang Khola	8-Jun-20	15-Jun-20	6-Jul-20	8.36	7.5	
6	T1L7	MR-2779	Arghakhanchi	OPC	Chisang Khola	10-Jun-20	17-Jun-20	8-Jul-20	9.23	7.5	
7	R-70	MR-2780	Arghakhanchi	OPC	Chisang Khola	10-Jun-20	17-Jun-20	8-Jul-20	8.50	7.5	
8	T2L24C	MR-2781	Arghakhanchi	OPC	Chisang Khola	13-Jun-20	20-Jun-20	11-Jul-20	9.17	7.5	
9	R-107	MR-2782	Arghakhanchi	OPC	Chisang Khola	13-Jun-20	20-Jun-20	11-Jul-20	8.23	7.5	
10	T1L7	MR-2783	Arghakhanchi	OPC	Chisang Khola	15-Jun-20	22-Jun-20	13-Jul-20	8.77	7.5	
11	R-70	MR-2784	Arghakhanchi	OPC	Chisang Khola	18-Jun-20	25-Jun-20	16-Jul-20	9.23	7.5	
12	T1L7	MR-2785	Arghakhanchi	OPC	Chisang Khola	20-Jun-20	27-Jun-20	18-Jul-20	8.09	7.5	
13	T3L26E	MR-2786	Arghakhanchi	OPC	Chisang Khola	20-Jun-20	27-Jun-20	18-Jul-20	8.77	7.5	
14	T2L22A	MR-2787	Arghakhanchi	OPC	Chisang Khola	22-Jun-20	29-Jun-20	20-Jul-20	9.23	7.5	
15	R-83	MR-2788	Sarbottam	OPC	Chisang Khola	24-Jun-20	1-Jul-20	22-Jul-20	6.07	8.50	
16	T1L7	MR-2789	Sarbottam	OPC	Chisang Khola	24-Jun-20	1-Jul-20	22-Jul-20	6.20	8.77	
17	T1L17	MR-2790	Sarbottam	OPC	Chisang Khola	26-Jun-20	3-Jul-20	24-Jul-20	6.34	8.90	
18	R-111	MR-2791	Sarbottam	OPC	Chisang Khola	28-Jun-20	5-Jul-20	26-Jul-20	6.20	9.17	
19	T1L7	MR-2792	Sarbottam	OPC	Chisang Khola	28-Jun-20	5-Jul-20	26-Jul-20	6.74	8.23	
20	R-83	MR-2793	Sarbottam	OPC	Chisang Khola	30-Jun-20	7-Jul-20	28-Jul-20	5.80	8.36	
21	R-111	MR-2794	Sarbottam	OPC	Chisang Khola	30-Jun-20	7-Jul-20	28-Jul-20	6.61	9.17	
22	T1L7	MR-2795	Sarbottam	OPC	Chisang Khola	1-Jul-20	8-Jul-20	29-Jul-20	5.80	8.77	
23	T1L17	MR-2796	Sarbottam	OPC	Chisang Khola	3-Jul-20	10-Jul-20	31-Jul-20	6.20	9.17	
24	R-83	MR-2797	Sarbottam	OPC	Chisang Khola	3-Jul-20	10-Jul-20	31-Jul-20	6.07	8.23	
25	R-111	MR-2798	Sarbottam	OPC	Chisang Khola	5-Jul-20	12-Jul-20	2-Aug-20	7.01	7.5	
26	T1L7	MR-2799	Sarbottam	OPC	Chisang Khola	5-Jul-20	12-Jul-20	2-Aug-20	6.20	7.5	
27	R-111	MR-2800	Sarbottam	OPC	Chisang Khola	6-Jul-20	13-Jul-20	3-Aug-20	7.01	7.5	
28	T1L17	MR-2801	Sarbottam	OPC	Chisang Khola	6-Jul-20	13-Jul-20	3-Aug-20	6.74	7.5	
29	R-83	MR-2802	Sarbottam	OPC	Chisang Khola	7-Jul-20	14-Jul-20	4-Aug-20	5.93	7.5	
30	T1L7	MR-2803	Sarbottam	OPC	Chisang Khola	7-Jul-20	14-Jul-20	4-Aug-20	6.20	7.5	
31	T1L17	MR-2804	Sarbottam	OPC	Chisang Khola	8-Jul-20	15-Jul-20	5-Aug-20	5.80	7.5	
32	R-111	MR-2805	Sarbottam	OPC	Chisang Khola	8-Jul-20	15-Jul-20	5-Aug-20	6.74	7.5	
33	R-83	MR-2806	Sarbottam	OPC	Chisang Khola	8-Jul-20	15-Jul-20	5-Aug-20	6.88	7.5	
34	T1L7	MR-2807	Sarbottam	OPC	Chisang Khola	9-Jul-20	16-Jul-20	6-Aug-20	7.01	7.5	
35	R-83	MR-2808	Sarbottam	OPC	Chisang Khola	9-Jul-20	16-Jul-20	6-Aug-20	6.07	7.5	

Contractor

ZHONGHENG CONSTRUCTION GROUP  
INTERNATIONAL ENGINEERING CO. LTD

Consultant

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

Checked By  
Engineer  
Dhirendra Yadav

Submitted By  
Contract Manager  
Rabindra Kr. Thakur

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

Approved By  
Team Leader  
Giresh Chand





**REGIONAL URBAN DEVELOPMENT PROJECT**

**Biratnagar Metropolitan City**

**Contract No:- RUDP/ICB/BRT-02**

**Summary Sheet of Mortar Test Report**

Page no. 1 of 2

Month

July

Year

2020

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	
							36	R-111	MR-2809	Sarbottam	
37	TIL17	MR-2810	Sarbottam	OPC	Chisang Khola	10-Jul-20	17-Jul-20	7-Aug-20	7.01		7.5
38	R-111	MR-2811	Sarbottam	OPC	Chisang Khola	10-Jul-20	17-Jul-20	7-Aug-20	5.93		7.5
39	TIL7	MR-2812	Sarbottam	OPC	Chisang Khola	10-Jul-20	17-Jul-20	7-Aug-20	6.74		7.5
40	R-83	MR-2813	Sarbottam	OPC	Chisang Khola	12-Jul-20	19-Jul-20	9-Aug-20	6.88		7.5
41	TIL17	MR-2814	Sarbottam	OPC	Chisang Khola	12-Jul-20	19-Jul-20	9-Aug-20	5.80		7.5
42	R-111	MR-2815	Sarbottam	OPC	Chisang Khola	13-Jul-20	20-Jul-20	10-Aug-20	6.61		7.5
43	TIL7	MR-2816	Sarbottam	OPC	Chisang Khola	13-Jul-20	20-Jul-20	10-Aug-20	6.88		7.5
44	R-83	MR-2817	Sarbottam	OPC	Chisang Khola	13-Jul-20	20-Jul-20	10-Aug-20	6.34		7.5
45	R-111	MR-2818	Sarbottam	OPC	Chisang Khola	15-Jul-20	22-Jul-20	12-Aug-20	7.15		7.5
46	TIL7	MR-2819	Sarbottam	OPC	Chisang Khola	15-Jul-20	22-Jul-20	12-Aug-20	6.88		7.5
47	TIL17	MR-2820	Sarbottam	OPC	Chisang Khola	17-Jul-20	24-Jul-20	14-Aug-20	6.20		7.5
48	R-83	MR-2821	Sarbottam	OPC	Chisang Khola	17-Jul-20	24-Jul-20	14-Aug-20	6.61		7.5
49	TIL17	MR-2822	Sarbottam	OPC	Chisang Khola	19-Jul-20	26-Jul-20	16-Aug-20	6.74		7.5
50	R-83	MR-2823	Sarbottam	OPC	Chisang Khola	20-Jul-20	27-Jul-20	17-Aug-20	6.07		7.5
51	R-111	MR-2824	Sarbottam	OPC	Chisang Khola	22-Jul-20	29-Jul-20	19-Aug-20	6.74		7.5
52	TIL7	MR-2825	Sarbottam	OPC	Chisang Khola	22-Jul-20	29-Jul-20	19-Aug-20	6.07		7.5
53	TIL7	MR-2826	Sarbottam	OPC	Chisang Khola	24-Jul-20	31-Jul-20	21-Aug-20	6.47		7.5
54	R-111	MR-2827	Sarbottam	OPC	Chisang Khola	24-Jul-20	31-Jul-20	21-Aug-20	7.15		7.5

Contractor

ZHONGHENG CONSTRUCTION GROUP INTERNATIONAL ENGINEERING CO. LTD

Consultant

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

Checked By  
Engineer  
Dhirendra Yadav

Submitted By  
Contract Manager  
Rabindra Kr. Thakur

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

Approved By  
Team Leader  
Giresch Chand









## ANNEX-4: SOCIAL & ENVIRONMENT SAFEGUARD

### **Monitoring Formats – July 2020**



Regional Urban Development Project(RUDP)  
**Social Safeguard Monitoring**  
 Inventory of Social Facilities  
 Labour Data Summary *(July)*

LABOUR CLASS	LABOUR		COMPOSITION				ETHNIC COMPOSITION			
	SKILLED	UNSKILLED	MALE	FEMALE	JANIATI	DALIT	MUSLIM	MADHESI	BRAHMIN/CHHETRI	
LOCAL	35	86	115	6	25	13	15	68	0	
NON LOCAL	20	67	87	0	23	12	3	49	0	
INDIAN	0	0	0	0	0	0	0	0	0	
<b>TOTAL</b>	<b>55</b>	<b>153</b>	<b>202</b>	<b>6</b>	<b>48</b>	<b>25</b>	<b>18</b>	<b>117</b>	<b>0</b>	





Regional Urban Development Project(RUDP)  
**Social Safeguard Monitoring**  
 Inventory of Social Facilities

1.General information  
 Subproject: -RUDP/ICB/BRT/2  
 in Group/International Engineering Co pvt. Beijing China.

S.NO	LOCATION	TYPES OF WORK	TYPES OF WORKERS			LABOUR		COMPOSITION		ETHNIC COMPOSITION				Month/Year: -July 2020	Contract Package: RUDP/ICB/BRT/2	
			LOCAL	NON LOCAL	INDIAN	TOTAL	SKILLED	UNSKILLED	MALE	FEMALE	JANJATI	DALIT	MUSLIM			MADHESI
1	T1L7B	House connection					3	6	9							
2	T3L7	House Connection					3	5	8							8
3	R83(Group A)	Drain					3	13	16			3	4			9
4	R83(Group B)	Drain					5	9	14			4				4
5	R70	Drain					3	8	11			2				6
6	R111	Drain					2	12	14			3	4			4
7	R5	Drain					2	9	11							9
8		Man hole					2	3	5							5



Regional Urban Development Project(RUDP)  
Social Safeguard Monitoring  
Inventory of Social Facilities

1.General information  
Subproject: -RUDP/ICB/BRT/2  
Contract Package: RUDP/ICB/BRT/2  
Month/Year: -July 2020

S.NO	LOCATION	TYPES OF WORK	TYPES OF WORKERS			LABOUR		COMPOSITION			ETHNIC COMPOSITION					
			INDIAN	NON LOCAL	TOTAL	SKILLED	UNSKILLED	MALE	FEMALE	JANJATI	DALIT	MUSLIM	MADHESI	BRAHMIN/CHHETRI		
9	R17	Correction Sub-Grade final	2	4	6	2	4	6			2	1	2	1		
10	R11	Sub-Base Final	2	4	6	2	4	6			2	1	2	1		
11	R5	Base Final	2	4	6	2	4	6			2	1	2	1		
12	R4	Kerb Stone laying	3	9	12	3	9	12								12
13	R18	Kerb Stone laying	2	6	8	2	6	8								8
14	T3L5	Gutter Drain	3	8	11	3	8	11			2	3				6
15	T2L24C&D	Tick Drain	4	11	15	4	11	15			5	2				8



*[Handwritten signature]*



Regional Urban Development Project(RUDP)  
Social Safeguard Monitoring  
Inventory of Social Facilities

1.General information  
Subproject :-RUDP/ICB/BRT/2  
in Group/International Engineering Co pvt. Beijing China.

Month/Year: -July 2020  
Contract Package: RUDP/ICB/BRT/2

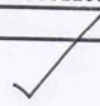
S.NO	LOCATION	TYPES OF WORK	TYPES OF WORKERS	LABOUR		COMPOSITION		ETHNIC COMPOSITION					
				SKILLED	UNSKILLED	MALE	FEMALE	JANJATI	DALIT	MUSLIM	MADHESI	BRAHMIN/CHHETRI	
16	R6	Drain Clearance	LOCAL	3	10	7	6	2	3			8	
			NON LOCAL										
			INDIAN	13									
17	R47	Slab Casting	LOCAL	2	4	6		4				2	
			NON LOCAL										
			INDIAN	6									
18	Koshi Yard	Production	LOCAL	5	23	28		14				14	
			NON LOCAL										
			INDIAN	28									
19	Madhumara Yard	Production	LOCAL	4	5	9		3	4			2	
			NON LOCAL										
			INDIAN	9									
<b>LABOUR CLASS</b>				<b>SKILLED</b>	<b>UNSKILLED</b>	<b>MALE</b>	<b>FEMALE</b>	<b>JANJATI</b>	<b>DALIT</b>	<b>MUSLIM</b>	<b>MADHESI</b>	<b>BRAHMIN/CHHETRI</b>	
LOCAL				35	86	115	6	25	13	15	68	0	
NON LOCAL				20	67	87	0	23	12	3	49	0	
INDIAN				0	0	0	0	0	0	0	0	0	
<b>TOTAL</b>				<b>55</b>	<b>153</b>	<b>202</b>	<b>6</b>	<b>48</b>	<b>25</b>	<b>18</b>	<b>117</b>	<b>0</b>	





Staff Name List Jul-20

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	Santosh Kr Lakandae	Engineer	9801159863	
9	Manoj kumar yadav	Engineer	9815714239	
10	Rahul Kr Sharma	Sub-Engineer	9801159862	
11	Sudip Chaudhary	Surveyor	9801159859	
12	Gyanendra Tamang	Sub-Engineer	9811357918	
13	Sange Tamang	Sub-Engineer	9801159857	
14	Ramesh Shrestha	Sub-Engineer	9801157341	
15	Jitendra Yadav	Safety incharge	9801160166	
16	Kiran Chaudhary	SLT	9801225281	
17	Ajit Mukhiya	LT	9827369882	
18	Raj kr Mukhiya	LT		
19	Bishnu Hari Khanal	Chief Accountant	9801157314	
20	Jarman Nepal	Assistant Accountan	9801159919	
21	Narsingh Bhandari	Vehicle incharge	9801157318	
22	Madan Bhattarai	Store Keeper	9801159634	
23	Niraj Mandal	Supervisor	9801160169	
24	Rabin Mandal	Supervisor		





Construction equipment details		Jul-20
S.N	Equipment Type and Characteristics	ZHONGHENG CONSTRUCTION GROUP
1	Excavator	1 ✓
2	Backhoe Loader	9
3	Asphalt plant of adequate capacity	1
4	Asphalt pavers	1
5	Vibrating roller	4 ✓
6	Pneumatic tyre roller 8 to 10 ton	2
7	Smooth wheeled roller 8 to 10 ton	2
8	Tipper	4
9	Crane	1
10	Water Tank	10
11	Grader	2
12	Bitumen distributor (4 to 6 Kilo litre)-	1
13	Water browser ( minimum 5000 Litres)	8/3.0 ✓
14	Chips spreader	0
15	Bitumen decanter minimum 4000 Litres.	2
16	Air compressor	2
17	Tipping Trucks	2
18	Service vehicle	4
19	Total station	2
20	Auto Level	30/2 ✓
21	Mobile Generator 15-20 Kva	18/5.0 ✓
22	Mixer Machine	5 ✓
23	Broomer	1 ✓
24	Plate Compactor	5 ✓
25	Water Pump	18/10 ✓
26	Motorbike	12 ✓
27	Tractor	25



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

Subproject Road : -RUDP/ICB/BRT/2

Month/Year: July 2020

Name of Contractor :-ZHONGGHENG Construction  
GroupInternational 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:



**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: July 2020

**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	
<b>2</b>	<b>Occupational health and safety</b>		
2.1	Insurance for workers	Yes	
2.2	Personal Protective Equipment (PPE) provided to labors and is using (helmet, facemasks, muffles, gloves, boots, jacket, goggles etc.)	Daily Provided	
2.3	Public notification Safety and warning signs and informative signboards in working sites for work safety	Yes Provided	
2.4	Use of barricades, caution tape and flag	Daily Used	
<b>3</b>	<b>Campsite management</b>		
3.1	Location	DDC, Kanchanbari, Shanti Chowk, Rani	
3.2	First aid facilities available at camp and worksites	Yes	
3.3	Drinking water supply and sanitation facilities/ pit latrines	Tap water/ Hand Pump	
3.4	Waste Disposal and Management facilities	Yes	
3.5	Type of fuel used for cooking	L.P.G	
<b>4</b>	<b>Spoil and Construction material Management</b>		
4.1	Cut and fill balance maintained or not, Reuse of spoil materials	Cut & Fill balance maintained	
4.2	Use of safe spoil disposal locations	Not Applicable	
4.3	Disturbance to Pedestrian and traffic movement	No any disturbance to pedestrians & traffic	





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





ANNEX-5: S-Curve

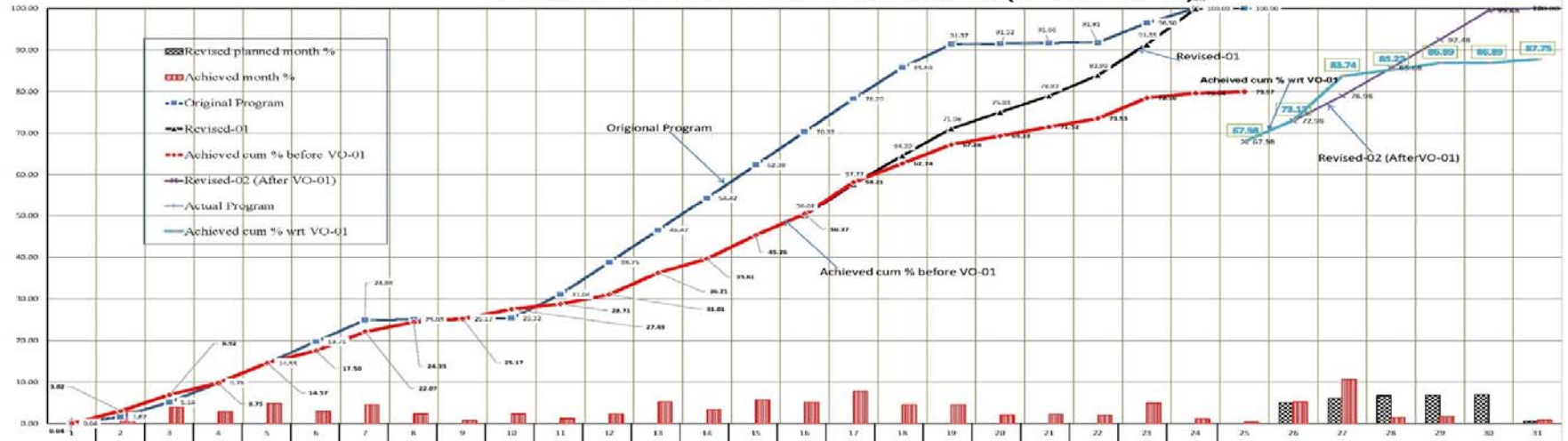
**ATTACHED – July 2020**

Actually S – Curve of May month 2020 has been attached for reference because the contractor is provisionally accepted the approved EOT till 31<sup>st</sup> July 2020 which received in installment and revised work program & s – curve with resources planning will be submitted by the contractor later after acceptance of EOT-3 till 28<sup>th</sup> Dec 2020.



Revised -02 (After VO-01)

BIRATNAGAR METROPOLITAN CITY  
REGIONAL URBAN DEVELOPMENT PROJECT (RUDP)  
**S-CURVE REVISED WORK PROGRAM-02 (AFTER VO-01)**



Year/Month	2017												2018												2019							
	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	
Original Planned Month %	0.04	1.67	3.00	4.20	4.89	5.17	5.17	5.17	5.17	5.17	5.17	5.17	5.17	5.17	5.17	5.17	5.17	5.17	5.17	5.17	5.17	5.17	5.17	5.17	5.17	5.17	5.17	5.17	5.17	5.17	5.17	
Original Planned Cum %	0.04	1.67	3.00	4.20	4.89	5.17	5.17	5.17	5.17	5.17	5.17	5.17	5.17	5.17	5.17	5.17	5.17	5.17	5.17	5.17	5.17	5.17	5.17	5.17	5.17	5.17	5.17	5.17	5.17	5.17	5.17	
Achieved month %	0.04	2.98	3.00	2.83	4.82	2.93	4.57	2.32	1.23	2.30	3.40	5.65	5.11	7.84	4.53	4.54	3.05	2.19	2.01	4.97	1.14	0.33	5.14	10.62	1.43	1.67	0.00	0.36				
Achieved Progress Cum %	0.04	3.02	6.92	9.75	14.37	17.50	22.07	24.39	25.17	27.49	28.71	31.01	36.21	39.61	45.26	50.37	59.21	62.76	67.28	69.33	71.52	73.53	78.50	79.64	79.97	73.12	83.74	88.32	86.89	86.89	87.78	
Revised Planned Month %																																
Revised Planned Cum %																																
Revised Planned Month % after VO-1																																
Revised Planned Cum After VO-01%																																
Revised planned month Amount in 100000																																
Achieved Month Amount in 100000																																
Revised planned Cum Amount in 100000																																
Achieved Cum Amount in 100000																																



Annex-6: Master Plan of RUDP Project



