



## **Building Design Authority (P) Ltd**

*in joint Venture with*

**B.N. Consultancy Pvt. Ltd and**

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

## **Monthly Progress Report**

**Regional Urban Development Project (RUDP)**

**Project Implementation Unit**

**Biratnagar, Nepal**



***October 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

General Features	
Name of Project	Regional Urban Development Project(RUDP)
Executing Agency	Government of Nepal,
	Ministry of Urban Development
	Department of Urban Development and Building Construction (DUDBC)
Implementing Agency	Biratnagar Metropolitan City, Biratnagar
Funded By	Asian Development Bank & Government of Nepal
Package	Construction and Completion of Sewerage, Drainage, Road, Footpath and Road furniture works
Contract No.	RUDP/ICB/BRT/2
Location	Biratnagar Metropolitan City, Biratnagar
<b><u>The Consultant:</u></b>	
Consultant	Building Design Authority (P) LTD in Joint Venture With B.N. consultancy Pvt and PLUS Engineers and Architects (P) Ltd Kathmandu.
Date of Sign of Design and Supervision Consulting Service	28 <sup>th</sup> August 2017
Date of Commencement of Design and Supervision Consulting Service	6 <sup>th</sup> September 2017
Date of Completion	5 <sup>th</sup> September 2020
Revised Date of Completion	26 <sup>th</sup> February 2022 including DNP & Final Discharge (VO-3 and EOT has been approved by the employer)
<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
Revised Date of Completion (after EOT-3)	28 <sup>th</sup> December 2020



<b>General Features</b>	
Contract Amount including PS and VAT	NRs. 2,611,092,249.63
Contract Amount including PS and VAT (After arithmetic correction)	NRs. 2,611,088,390.60
Additional Financing 100% funded by BMC after VO-2 (provisional items)	NRs. 39,999,966.94
Revised Contract Amount including PS and VAT (after VO-2)	NRs. 2,988,389,581.81
<b>Progress</b>	
Road Rehabilitation (Asphalt)	86.8%
Sewer Line	99.46%
Storm Drain	100.00%
Road Side Drain	99.79%
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>With respect to Revised Work Program-03 (after VO-02):</b></p> <p><b>Planned: 91.11%, Actual: 87.1%; Lead (+) or Lag (-) by (-)4.01 %;</b></p> <ul style="list-style-type: none"> <li>• Work progress is lagging due to pandemic "COVID – 19" as Cases of COVID-19 has continued to surge along with fatalities in the region</li> <li>• Disputes on unclear ROW at some lanes.</li> </ul>
Financial Progress up to date ( <i>on the basis of IPC forwarded for disbursement</i> )	<p>In Percentage: <b>84.78%</b>, In Figure: NRs. <b>2,533,609,916.27</b> (including VAT and PS) up to IPC –18 wrt to VO-2.</p> <p><b>In Words:</b> NRs. Two Billion Five Hundred Thirty Three Millions Six Hundred Nine Thousand Nine Hundred Sixteen and Twenty Seven Paisa Only.</p>



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

S.No	Description	Unit	Revised Quantity	Progress up to date	Remaining	Progress Status expressed in (%)	Remarks
1	Sewer Line						
a	HDPE/RCC	m	18,559.80	18,459.80	100.00	99.46%	w.r.t VO-2
b	Manhole	No.	606.00	606.00	0.00	100.00%	
c	Sewer Inlet	No.	1,010.00	564.00	446.00	55.84%	
d	House Connection	No.	3,784.00	2,435.00	1,349.00	64.35%	
2	Storm Water Drain						
a	RCC Drain	m	585	585	-	100.00%	w.r.t VO-2
b	Piles	No.	138	138	-	100.00%	
3	Road						
a	Subgrade	m	74,573.60	67,868.49	6,705.11	91.01%	w.r.t VO-2
b	Subbase	m	74,573.60	67,653.49	6,920.11	90.72%	
c	Base	m	74,573.60	65,842.69	8,730.91	88.29%	
d	Prime	m	74,573.60	64,932.69	9,640.91	87.07%	
e	Asphalt	m	74,573.60	64,732.69	9,840.91	86.80%	
4	Road Side Drain	m	39,200.69	39,122.11	77.89	99.79%	Wrt VO-2



### 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

S. No.	Description	Unit	Revised Quantity (After VO-2)
<b>1</b>	<b>Sewerage Pipe Supply and Installation</b>	<b>m</b>	<b>18,559.80</b>
	<b>Reinforced Concrete Pipe laying and jointing</b>		<b>1,967.50</b>
	Line T2 (Secondary)	m	205.00
	Line T3 (Trunk)	m	1,632.50
	Line T4 (Trunk)	m	130.00
	<b>HDPE laying and jointing</b>	<b>m</b>	<b>16,592.30</b>
	Line T1 (Secondary)	m	1,743.20
	Line T2 (Secondary)	m	3,153.40
	Line T3 (Secondary)	m	9,643.80
	Line T4 (Secondary)	m	2,051.90
<b>2</b>	<b>Manhole ( Brick / RCC)</b>	<b>no.</b>	<b>606.00</b>
<b>3</b>	<b>Sewer Inlet</b>	<b>no.</b>	<b>1,010.00</b>
<b>4</b>	<b>House Connection</b>	<b>no.</b>	<b>3,784.00</b>
<b>5</b>	<b>Reinstatement of Roads</b>	<b>km</b>	<b>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	Revised Quantity		Up to Pre Month		This month		Total to date		Progress %
		Length (m)	Manhole (Nos.)	Length (m)	Manhole (Nos.)	Length (m)	Manhole (Nos.)	Length (m)	Manhole (Nos.)	
Hume Pipe:										
1	Hume pipe (T2)	205.00	6.00	205.00	6.00			205.00	6.00	
2	Hume pipe (T3)	1,632.50	25.00	1,632.50	25.00			1,632.50	25.00	
3	Hume Pipe (T4)	130.00	4.00	130.00	4.00			130.00	4.00	
Subtotal in (m)		1,967.50	35.00	1,967.50	35.00	-	-	1,967.50	35.00	
HDPE Pipe:										
1	HDPE (T1)	1,743.20	54.00	1,743.20	54.00			1,743.20	54.00	
2	HDPE (T2)	3,153.40	121.00	3,153.40	121.00			3,153.40	121.00	
3	HDPE (T3)	9,643.80	340.00	9,543.80	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	
Subtotal in (m)		16,592.30	571.00	16,492.30	569.00	-	-	16,492.30	569.00	
Total		18,559.80	606.00	18,459.80	604.00	-	-	18,459.80	604.00	99.46%



SN	Description	Revised Quantity	Up to Pre Month	This month	Total to date in Nos.	Progress %
1	Sewer inlet	1,010.00	564.00	-	564.00	55.84
2	House connection	3,784.00	2,360.00	105.00	2,465.00	65.14



### 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 Quantity	Progress		Cumulative		
				Previous	This Month		Type- RCC, Closed	
1	CN2-CN3(Chyangh BaariNala)	652.89	585.00	585.00		585.00	585.00	100% Completed
2	CN2-CN3 (Chyangh Baari Nala)	132 Nos. of piles	138 Nos. of piles	138 Nos. of piles		138 Nos. of piles		100% Completed

### 3.1.3. ROADS AND LANES

Most of the roads/lanes in Biratnagar are in a poor state due to lack of periodic maintenance, and need improvement where as some of the roads are graveled and would benefit from upgrading. In the areas where drainage and sewerage works are proposed, there will be significant impact on the existing roads. The Project has considered on design based on reinstatement, rehabilitation and upgrading of existing roads length 74.57 km as per VO-02. Most 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 67.86 Km. has been attempted. About 64.73Km. Asphalt work has been completed. The summary of physical progress of flexible pavement, rigid pavement and foot paths areas tabulated in Table 4, 4.1 & 4.2 below: -



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

SN	Road Number	Name of Road	Length in m			Work Completed					Remarks
			Progress		Total	Sub-base	Base	Asphalt	RCC	Paint	
			Previous	This Month		m	m	m	m	m	
1	R42	Bhagwati Marg	229		229	229	229	229			
2	R5	College Road	594		594	594	594	594			
3	R5	Chulachuli Road	196	34	230	230	230	230			
4	R5	Transprtation Line	377.2		377.2	377.2	377.2	377.2			
5	R65	Satghumti Marg	320		320	320					
6	R107		167		167	167	167	167			
7	R104	VIP Marg	275		275	275	275	275			
8	R8(R3 to Devkota)	Madhumara Marg	920		920	920	920	920		600	
9	B1	Kanchan Marg	1,181.10		1181.1	1,181.10	1,181.10	1,181.10		1,106.00	
10	R21	Pratibha Marg	1,490.10		1490.1	1,490.10	1,490.10	1,490.10		1,012.80	



SN	Road Number	Name of Road	Length in m			Work Completed					Remarks
			Progress		Total	Sub-base	Base	Asphalt	RCC	Paint	
			Previous	This Month		m	m	m	m	m	
11	B3	Keshaliya Marg	1,623.20		1623.2	1,623.20	1,623.20	1,623.20			
12	S13		1,724.20		1724.2	1,724.20	1,724.20	1,724.20		1,812.60	
13	R12	Brikuti to Keshalya	844.20		844.2	844.20	844.20	844.20			
14	R12	Kanchha Dai Marg	900		900	900	900	700			
15	Rani site	Rani	3,725.15		3725.15	3,725.15	3,725.15	3,725.15			
16	R16	Satya Marg	583.9		583.9	583.9	583.9	583.9			
17	R26	Pasang Marg	602.3		602.3	602.3	602.3	602.3			
18	R28	Pustakalaya Marg	606.1		606.1	606.1	606.1	606.1			
19	R27	Peepal Marg	794.7		794.7	794.7	794.7	794.7		639.2	
20	R25	Devi Marg	592.3		592.3	592.3	592.3	592.3			
21	R24	Prabhat Marg	382.9		382.9	382.9	382.9	382.9			
22	R37	Banglamukhi Marg	470.5		470.5	470.5	470.5	470.5			



SN	Road Number	Name of Road	Length in m			Work Completed				Remarks	
			Progress		Total	Sub-base	Base	Asphalt	RCC		Paint
			Previous	This Month		m	m	m	m		m
23	R7	R25 to R27	152.57		152.57	152.57	152.57	152.57			
24	R7	R21 to R25	267		267	267	267	267			
25	R30	Shanti Marg	348.6		348.6	348.6	348.6	348.6			
26	R9	Fadindra Marg	119		119	119	119	119			
27	R9(R37 to R41)		254.6		254.6	254.6	254.6	254.6			
28	S11	Samrat Marg	502.6		502.6	502.6	502.6	502.6		504.6	
29	R22	Amar Marga	373.5		373.5	373.5	373.5	373.5			
30	R29	Shanti Marg	879.6		879.6	879.6	879.6	879.6		585.6	
31	R36	Gaurav Marg	221.1		221.1	221.1	221.1	221.1		440	
32	R33	Tarun Marg	282.5		282.5	282.5	282.5	282.5			
33	R8	R29 to N36)	226.9		226.9	226.9	226.9	226.9			
34	N36		184		184	184	184	184			
35	R188	Shakti Marg	115.1		115.1	115.1	115.1	115.1			





SN	Road Number	Name of Road	Length in m			Work Completed				Remarks	
			Progress		Total	Sub-base	Base	Asphalt	RCC		Paint
			Previous	This Month		m	m	m	m		m
36	R2	Main Road	3,116.10		3116.1	3,116.10	3,116.10	3,116.10		4350	
37	T3 Line 6A	Pandit Meghnath Marg	279.3		279.3	279.3	279.3	279.3			
38	R63 (DSP Road)	DSP Road	424		424	424	424	424			
39	R90	Shakti Marg	449.3		449.3	449.3	449.3	449.3		640	
40	R77	Arniko Marg	87.7		87.7	87.7	87.7	87.7			
41	R76	Mitra Marg	275.6		275.6	275.6	275.6	275.6		541.2	
42	R183	Nava Jyoti Marg	217.2		217.2	217.2	217.2	217.2			
43	T1 L16B	Xenial Front	203.7		203.7	203.7	203.7	203.7			
44	T1L16A	Xenial South	165.7		165.7	165.7	165.7	165.7			
45	R114	Dharanidhar Marg	569		569	569	569	569		560	
46	R113	Kavi Lekh Marg	746.2		746.2	746.2	746.2	746.2			



SN	Road Number	Name of Road	Length in m			Work Completed					Remarks
			Progress		Total	Sub-base	Base	Asphalt	RCC	Paint	
			Previous	This Month		m	m	m	m	m	
47	R3	Dharamban Marg	2,254.10		2254.1	2,254.10	2,254.10	2,254.10		2,080.30	
48	R3 -(T3 Family planning to DUDBC)		337		337	337	337	337			
49	R84	West of school	237		237	237	237	237			
50	R84		248.9		248.9	248.9	248.9	248.9			
51	R85	Machha Line	153.8		153.8	153.8	153.8	153.8			
52	R87	Mahabir Chowk	234.2		234.2	234.2	234.2	234.2			
53	R86	Petrol pump side -R12	191.5		191.5	191.5	191.5	191.5			
54	R11	R18/R86	204.1		204.1	204.1	204.1	204.1			
55	N3	Jatuwa	122		122	122	122	122			
56	N3	Janani Marga		280	280	280	280	280			
57	N4(R16 to R21)	Jatuwa	168.8		168.8	168.8	168.8	168.8			
58	R10	R35 to R76	670.8		670.8	670.8	670.8	670.8		853.2	
59	T2L26F	APF	55		55	55	55	55			



SN	Road Number	Name of Road	Length in m			Work Completed				Paint	Remarks
			Progress		Total	Sub-base m	Base m	Asphalt m	RCC m		
			Previous	This Month							
60	T2L27		75		75	75	75	75			
61	R122		251		251	251	251	251		497.4	
62	N9		222.6		222.6	222.6	222.6	222.6			
63	R17		374		374	374	374	374		730	
64	R18		387.3		387.3	387.3	387.3	387.3			
65	N2		117		117	117	117	117			
66	T3L6	Moti marga	158.3		158.3	158.3	158.3	158.3			
67	T3L6	CDO Office front	49.4		49.4	49.4	49.4	49.4			
68	R45	Bata road	510.7		510.7	510.7	510.7	510.7			
69	T3L21		547		547	547	547	547		774	
70	N5	R16 to R18	67.2		67.2	67.2	67.2	67.2		122	
71	T3L39		340		340	340	340	340		491	
72	T3L39A		138		138	138	138	138		179.4	
73	T3L39B		60		60	60	60	60		117.6	
74		Milan Marga		130	130	130	130	130			
75	R68 - T2L24G		218		218	218	218	218			
76	N10		194		194	194	194	194			



SN	Road Number	Name of Road	Length in m			Work Completed					Remarks
			Progress		Total	Sub-base	Base	Asphalt	RCC	Paint	
			Previous	This Month		m	m	m	m	m	
77	T3L24C &D	Hanuman Das Road	180	20	200	200	200	200			
78	R6(N2 to R41)		1,832.80		1832.8	1,832.80	1,832.80	1,832.80			
79	N24		144		144	144	144	144			
80	R31		189.2		189.2	189.2	189.2	189.2			
81	N27	Bindabasini Marga	354		354	354	354	354			
82	R73 (R2 to R5)		217		217	217	217	217			
83	R6 (R41-R44)	Bata Galli	269		269	269	269	269			
84	R9 (T3Line11K)		194.8		194.8	194.8	194.8	194.8			
85	R44	Thakurbari Road	727.1		727.1	727.1	727.1	727.1			
86	R102	Main	140		140	140	140	140			
87	R102	Branch	71.3		71.3	71.3	71.3	71.3			
88	R103		171.3		171.3	171.3	171.3	171.3			
89	R32		189.2		189.2	189.2	189.2	189.2			
90	T2L18Y		116.2		116.2	116.2	116.2	116.2			
91	R20		108		108	108	108	108			



SN	Road Number	Name of Road	Length in m			Work Completed				Remarks	
			Progress		Total	Sub-base	Base	Asphalt	RCC		Paint
			Previous	This Month		m	m	m	m		m
92	R82 (T1Line5)	Everest School	522.8		522.8	522.8	522.8	522.8			
93	T1L5A		171.9		171.9	171.9	171.9	171.9			
94	T3L23C	North to Jay Nepal	87		87	87	87	87		87	
95	T3L25B		285		285	285	285	285			
96	T3L25C		140		140	140	140	140			
97	R3(T3 Trunk)	Tinpaini to Sanihat	680		680	680	680	680			
98	Nagmandir to R3		55		55	55	55	55		55	
99	R4		860	100	960	960	960	960			
100	R75		137		137	137	137	137			
101	R43		329.4		329.4	329.4	329.4	329.4			
102	T219P		124.8		124.8	124.8	124.8	124.8			
103	T219Q		113.7		113.7	113.7	113.7	113.7			
104	R106		195		195	195	195	195			
105	T3L12		80		80	80	80	80			
106	R46		610		610	610	610	610			
107	T3L11E		124.55		124.55	124.55	124.55	124.55			
108	T3L13D		70		70	70	70	70			
109	T3L13C		102		102	102	102	102			



SN	Road Number	Name of Road	Length in m			Work Completed				Remarks
			Progress		Total	Sub-base	Base	Asphalt	RCC	
			Previous	This Month		m	m	m	m	
110	R34		157.4		157.4	157.4	157.4	157.4		
111	T3L13E		64		64	64	64	64		
112	T3L13K		76		76	76	76	76		
113	R19		228		228	228	228	228		
114	R41		540		540	540	540	540		
115	R9B		83.85		83.85	83.85	83.85	83.85		
116	R67		119.4		119.4	119.4	119.4	119.4		
117	R74		95		95	95	95	95		
118	R9A		109		109	109	109	109		
119	T2L19F		120		120	120	117.2	117.2		
120	T3L7A		190		190	190	158	158		
121	T3L13F		75		75	75	75	75		
122	T3L11M		85		85	85	85	85		
123	T3L33A (N7)		135		135	135	135	135		
124	R35		142.5		142.5	142.5	142.5	142.5		
125	R83		130		130	130	130	130		
126	R105		174		174	174	174	174		
127	R15		194		194	194	194	194		
128	R181A		196		196	196	196	196		
129	N38		358		358	358	358	358		
130	T2L26E	Bhanu Tole	107		107	107	107	107		
131	T2L19G		63		63	63	63	63		





SN	Road Number	Name of Road	Length in m			Work Completed				Paint	Remarks
			Progress		Total	Sub-base	Base	Asphalt	RCC		
			Previous	This Month		m	m	m	m		
132	T3L19H		84		84	84	84	84			
133	T2L19V		90		90	90	90	90			
134	T2L19Y		110		110	110	110	110			
135	T2L19Z		64		64	64	64	64			
136	R110		255		255	255	255	255			
137	T2L18A		97		97	97	97	97			
138	B2		2584.65		2584.65	2584.65	2584.65	2584.65	210		
139	R7	Sani Haat Chowk to Hospital	746.8		746.8	746.8	746.8	746.8			
140	R7	(R46-R44) Shree Hospital	155		155	155	155	155			
141	T3 Line18A	Nearby Neuro parking	79.32		79.32	79.32	79.32	79.32			
142	T3L21A	Milan Chowk	123.4		123.4	123.4	123.4	123.4			
143	T3L18C		103		103	103	103	103			
144	R39	Sansari Maisthan	160	20	180	180	180	180			
145	R40		330.6		330.6	330.6	330.6	330.6			



SN	Road Number	Name of Road	Length in m			Work Completed				Paint	Remarks
			Progress		Total	Sub-base	Base	Asphalt	RCC		
			Previous	This Month		m	m	m	m		
146	R101		260	10	270	270	270	270			
147	T3Line5	Sanihat to Nagarpalika	285		285	285	285	285			
148	R7(R21 to R18)		68		68	68	68	68			
149	R7(R25 to R27		155		155	155	155	155			
150	R9(R37 to R30)		219.6		219.6	219.6	219.6	219.6			
151	N8		166.9		166.9	166.9	166.9	166.9			
152	R7		983		983	983	983	983			
153	R5		110		110	110	110	110			
154	T2Line11N		65		65	65	65	65			
155	R6	Siddhartha to R46	130	55	185	185	185	185			
156	R100 (T2Line 22B)		150		150	150	150	150			
157	T3 Trunk Line	Devkota to Family Planning	340		340	340	340	340			
158	T3Line25A		302		302	302	302	302			



SN	Road Number	Name of Road	Length in m			Work Completed				Remarks	
			Progress		Total	Sub-base	Base	Asphalt	RCC		Paint
			Previous	This Month		m	m	m	m		m
159	T3 Line23C		90		90	90	90	90			
160	R10		180		180	180					
161	T2 Line18K		76		76	76	76	76			
162	R47	Matrika Marga	322		322	322	322	322			
163	T3 Line22 (Devkota chowk to NRB		190		190	190	190	190		190	
164	R26	east of R3	324		324	324	324	324			
165	R27	east of R3	186		186	186	186	186			
166	N33	Parichaya Marga	194.5		194.5	194.5	194.5	194.5			
167	T3Line10C	Green cross Line	100	50	150	150	150	150			
168	N23		75		75	75	75	75			
169	R10		181		181	181	181	181			
170	R15		340		340	340	340	340			
171	T3 Trunk	DUDBC off to Sanihat	231.7		231.7	231.7	231.7	231.7			



SN	Road Number	Name of Road	Length in m			Work Completed				Paint	Remarks
			Progress		Total	Sub-base	Base	Asphalt	RCC		
			Previous	This Month		m	m	m	m		
172	R16	East of Dharambad	218.1		218.1	218.1	218.1	218.1			
173	T3Line10	Green cross Line	184.2		184.2	184.2	184.2	184.2			
174	T2Line19B	Jaycess Marga	148		148	148	148	148			
175	T3Line13C	Kumari Mill Line	229.3		229.3	229.3	229.3	229.3			
176	T2Line22A	Indreni Marga	382		382	382	382	382			
177	T2Line19W	Near Parichaya Marga	58.8		58.8	58.8	58.8	58.8			
178	R64		123		123	123	123	123			
179	R6	Shital Yadav Clinic Road	180		180	180	180	180			
180	R11	Om Shanti Marga	317		317	317	317	317			
181	R17	Dharambad East	230		230	230	230	230			



SN	Road Number	Name of Road	Length in m			Work Completed				Remarks	
			Progress		Total	Sub-base m	Base m	Asphalt m	RCC m		Paint m
			Previous	This Month							
182	R23		227		227	227	227	227			
183	R13		226		226	226	226	226			
184	T2Line18D(N19)		80		80	80	80				
185	T2Line19K		205		205	205	205	205			
186	T1Line7A		75		75	75	75	75			
187	T1Line7B		86		86	86	86	86			
188	T1Line7C		70		70	70	70	70			
189	T1Line 8C		56	20	76	76	76	76			
190	T1Line8B		108.6	46.4	155	155	155	155			
191	R70		216		216	216	70	70			
192	R4		200	1000	1200	1200	260				
193	R83			370	370	370	370				
194	R5(Satghumti to Mahabir)			200	200	200	200				
195	R71			105	105	105					
196	T1Line 17			85	85	85					
197	T1Line16			215	215						
198	T3Line7			120	120	120	120	120			
	Total		65,008.09	2,161.40	67,868.49	67,653.49	65,842.69	64,732.69	210.00	18,968.90	



**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	Revised Length	Total Up to Previous Month	This Month	Total Up to this Month	Progress
1	Sub grade	m	74,573.60	65,008.09	2,860.40	67,868.49	91.01%
2	Sub Base	m	74,573.60	64,642.09	3,011.40	67,653.49	90.72%
3	Base	m	74,573.60	63,667.29	2,175.40	65,842.69	88.29%
4	Prime/Tack	m	74,573.60	62,480.29	2,452.40	64,932.69	87.07%
5	Asphalt	m	74,573.60	62,183.29	2,549.40	64,732.69	86.80%

### 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
			Original	Revised	Progress		Total	Brick	RCC	
					Previous	This Month		m	m	
1	B1	Kanchan Marg	-	-	45.00		45.00	45.00		
2	R29	Shanti Marg	270.00		256.52		256.52	256.52		
3	N36				185.88		185.88	185.88		
4	R8		370.00		219.83		219.83	219.83		
5	R7	Devi Marg and Pipal Marg	155.00	155.00	89.76		89.76	89.76		
6	R63	DSP Road	418.79		418.79		418.79	418.79		



SN	Road Number	Name of Road	Length in m					Work Completed		Remarks
			Original	Revised	Progress		Total	Brick	RCC	
					Previous	This Month		m	m	
7	R9	Baglamukhi path	120.00	103.20	103.20		103.20	103.20		
8	S13	Udaya Marga	-	158.10	79.05		79.05	79.05		
9	N33		-	70.00	60.00		60.00	60.00		
10	R28	Pustakalaya Marg	340.00	278.00	139.00		139.00	139.00		
11	R90	Shakti Marg	320.00		377.30		377.30	377.30		
12	R114	Dharanidhar Marg	-	312.33	312.33		312.33	312.33		
13	R11	Om Shiv Marg	-		204.25		204.25	204.25		
14	R18		-	382.50	389.50		389.50	389.50		
15	R17		-		372.00		372.00	372.00		
16	R113	Kavi Lekhnath Marg	-	312.45	157.15		157.15	157.15		
17	R77	Arniko Marg	97.00		80.00		80.00	80.00		
18	R76	Mitra Marg	272.00	275.00	270.00		270.00	270.00		
19	N9	Devi Marga	-		222.58		222.58	222.58		
20	N4		-	170.00	162.20		162.20	162.20		
21	R33	Tarun Marg	-	265.00	283.15		283.15	283.15		
22	R36	Gaurav Marg	218.00		221.80		221.80	221.80		
23	R86	Janpath Marg	215.00		192.15		192.15	192.15		
24	R183	Nava Jyoti Marg	242.00		219.40		219.40	219.40		
25	R7a		77.81		67.35		67.35	67.35		
26	Rani site	Rani B	-	650.00	365.33		365.33	365.33		
27	Rani site	Rani A	-	300.00	271.50		271.50	271.50		
28	N3		-		126.25		126.25	126.25		
29	N5		-		65.00		65.00	65.00		
30	R21	Binayak Marga	-	390.00	194.13		194.13	194.13		



SN	Road Number	Name of Road	Length in m					Work Completed		Remarks
			Original	Revised	Progress		Total	Brick	RCC	
					Previous	This Month		m	m	
31	R2	Main Road	2,060.00	2,060.00	2,793.50		2,793.50	2,793.50		
32	T1L16B	Xenial Front	-		205.68		205.68	205.68		
33	T1L16A	Xenial South	-	160.00	160.74		160.74	160.74		
34	R75	Tintoliya Marga	135.00	135.00	143.00		143.00	143.00		
35	R122	Amar Marga	-		256.00		256.00	256.00		
36	R18 Branch		-	30.00	30.00		30.00	30.00		
37	R7(b)(Neuro to sidhartha chowk)	Siddhartha Marga	317.00	317.00	365.00		365.00	365.00		
38	R12	Sukra Path	-		846.50		846.50	846.50		
39	R42	Jahada Marga	-		85.50		85.50	85.50		
40	R6	Shahi Marg	460.00		970.00		970.00		970.00	
41	R21(a)	DharamBadh Junction	-	160.00	95.00		95.00	95.00		
42	R188	Shakti Marg		120.00	115.60		115.60	115.60		
43	R40	Brahma Kumari Marga	-		328.20		328.20	328.20		
44	Rani Site C		-	100.00	97.50		97.50	97.50		
45	Ranit Site D		-	131.45	131.45		131.45	131.45		
46	T3L21	Moti Marga	380.00	380.00	527.00		527.00	527.00		
47	T3L39	Gaheli Marga	-	278.00	340.00		340.00	340.00		
48	T3 Line 39A		-	90.00	139.00		139.00	139.00		
49	T3 L39B		-	-	58.50		58.50	58.50		
50	T2L27	Bhumi Prashasan Junction	92.00	80.00	79.50		79.50	79.50		
51	N2				103.20		103.20	103.20		
52	T2 Line 26E	College Road	80.00	80.00	90.00		90.00	90.00		
53	T2 Line 18C	Maisthan Marga	-	105.00	102.00		102.00	102.00		
54	T2Line 18A	Makalu Marga	90.00		90.00		90.00	90.00		



SN	Road Number	Name of Road	Length in m					Work Completed		Remarks
			Original	Revised	Progress		Total	Brick	RCC	
					Previous	This Month		m	m	
55	R6 (T3L11i)		-	275.00	265.00		265.00	265.00		
56	R9 (T3L11k)	Tathasthu Marga	-	200.00	180.00		180.00	180.00		
57	R45 (T3Line10D)	Dadhiram Marga	302.00	302.00	298.00		298.00	298.00		
58	R9, T2 L19	Fanindra Marga and Banglamukhi Marga	256.00	256.00	362.00		362.00	362.00		
59	R7c (Neuro to Shanti Chowk)	Siddhartha Marga	240.00		600.00		600.00	600.00		
60	R84	School Marga and Tenjing Marga	673.00		560.00		560.00	560.00		
61	R85	Lekhanath Marga	162.00		150.00		150.00	150.00		
62	R87	Byas Marga	160.00		150.00		150.00	150.00		
63	Rani B (Bus park)		-	120.00	90.00		90.00	90.00		
64	R8(a)	Madhumara Marg	218.00		312.00		312.00	312.00		
65	T3L23A, R101		263.47	263.47	220.00		220.00	220.00		
66	Rani E		85.00	85.00	80.00		80.00	80.00		
67	R102	Hamro Marg			140.00		140.00	140.00		
68	R10/R10a	Ram Marga	1,092.41		740.36		740.36	740.36		
69	N10	APF	154.48	154.48	193.00		193.00	193.00		
70	R23	Bani Marg	226.12	226.12	200.00		200.00	200.00		
71	R103	Vibuti Marga	173.00	173.00	170.00		170.00	170.00		
72	T3L6 and T3L7	Sahid Marga		350.00	730.00		730.00	730.00		
73	P1, T3L6A	Pandit Meghnath Marga	280.00	280.00	260.00		260.00	260.00		
74	T2 L24C & D	Hanuman Das Marga	176.93	176.93	180.00		180.00	180.00		
75	T2 L25 (R5)	Chulachuli Marga	409.00	409.00	230.00		230.00	230.00		
76	R20		190.00	190.00	108.00		108.00	108.00		



SN	Road Number	Name of Road	Length in m					Work Completed		Remarks
			Original	Revised	Progress		Total	Brick	RCC	
					Previous	This Month		m	m	
77	T2L24F		120.00	120.00	115.50		115.50	115.50		
78	R105		168.19	168.19	86.00		86.00	86.00		
79	R34	Prabhu Marg	151.00	151.00	158.35		158.35	158.35		
80	R35	Garima Marg	138.00	138.00	140.00		140.00	140.00		
81	R107		180.00	180.00	160.00		160.00	160.00		
82	T3L13D		80.00	80.00	70.63		70.63	70.63		
83	T3L13E		70.00	70.00	62.40		62.40	62.40		
84	T3L11E		160.00	160.00	110.00		110.00	110.00		
85	B2				210.00		210.00	210.00		
86	R78				35.00		35.00	35.00		
87	T3L21B				70.00		70.00	70.00		
88	T3L21A				50.00		50.00	50.00		
89	R74				96.00		96.00	96.00		
90	R46, (T3L7 and T3L22)	Rangeli Road			400.00		400.00	400.00		
91	T3L7A				125.00		125.00	125.00		
92	T3L8				75.00		75.00	75.00		
93	R5, (T2 L24)	Gudari Marga			300.00		300.00	300.00		
94	R82				190.00		190.00	190.00		
95	T1L13A				100.00		100.00	100.00		
96	T1L14A				150.00		150.00	150.00		
97	R68				200.00		200.00	200.00		
98	T3L22A				335.00		335.00	335.00		
99	T3L22B				120.00		120.00	120.00		
100	T3L25C				140.00		140.00	140.00		
101	T3L11B				71.00		71.00	71.00		



SN	Road Number	Name of Road	Length in m					Work Completed		Remarks
			Original	Revised	Progress		Total	Brick	RCC	
					Previous	This Month		m	m	
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		
126	R19				226.00		226.00	226.00		





SN	Road Number	Name of Road	Length in m					Work Completed		Remarks
			Original	Revised	Progress		Total	Brick	RCC	
					Previous	This Month		m	m	
127	R83	Shiva Marga			480.00		480.00	480.00		
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			490.00		490.00	-	490.00	
131	T3L25B, Outlet	Madhumara			96.00		96.00	96.00		
132	T3L7B	Matrika Marga			150.00		150.00	150.00		
133	T3L5	Sanihat Marga			210.00		210.00	210.00		
134	T2L19H				85.00		85.00	85.00		
135	R181				193.00		193.00	193.00		
136	N38				200.00		200.00	200.00		
137	T3L10C	Paurakh Marga			110.00		110.00	110.00		
138	T3L10F				135.00		135.00	135.00		
139	T3L10, R6				340.00		340.00	340.00		
140	R47 (T3L10A)	Matrika Marga			150.00		150.00	150.00		
141	R12	Kanchhadai Marga			475.00	320.00	795.00	795.00		
142	R8 (b)	Sahayogi Marga			65.00		65.00	65.00		
143	T1L7A	Piyush Marga			70.00		70.00	70.00		
144	T1L7B				70.00		70.00	70.00		
145	T1L7C				70.00		70.00	70.00		
146	T1L8C				70.00		70.00	70.00		
147	R39	Maisthan Marga			100.00		100.00	100.00		
148	N7	Amar Marga			130.00		130.00	130.00		
149	N8	Amar Marga			160.00		160.00	160.00		
150	R26	Amar Marga			290.00		290.00	290.00		
151	T3L25A	Bhakti Marga			280.00		280.00	280.00		



SN	Road Number	Name of Road	Length in m					Work Completed		Remarks
			Original	Revised	Progress		Total	Brick	RCC	
					Previous	This Month		m	m	
152	R16, T3L36	Satya Marga			200.00		200.00	200.00		
153	R17, T3L35				227.00		227.00	227.00		
154	T3L20	Janani Marga			275.00		275.00	275.00		
155	N34, T3L31A				168.00		168.00	168.00		
156	T2L19W	Bhugol Marga			57.00		57.00	57.00		
157	T2L19V	Bhugol Marga			90.00		90.00	90.00		
158	T1L8B	School Marga			185.00	100.00	285.00	285.00		
159	T2L19K	Sundar Marga			207.00		207.00	207.00		
160	T2L19o				35.00	35.00	70.00	70.00		
161	T3L26E	R29 Branch 3			248.00		248.00	248.00		
162	T1L16C	CPN-UML office opposite			204.00		204.00	204.00		
163	T1L17	R181---R90			84.60		84.60	84.60		
164	R70	Himalaya Road			200.00		200.00	200.00		
165	R6	Abadhnarayan Memorial Road			230.00	170.00	400.00	400.00		
166	R71	Morang Sahakari Hospital			55.00	52.00	107.00	107.00		
167	T1L13	Om Shiv Marg			40.00	32.50	72.50	72.50		
168	R4 Branch	Jatuwa Marga			75.00	110.00	185.00	185.00		
169	N1				70.00	30.00	100.00	100.00		
170	R111				160.00	55.00	215.00	215.00		
171	N40				30.00		30.00	30.00		
172	T3L24B	Asta Chiranjivi Marga			-	72.00	72.00	72.00		
180					-		-	-		
	<b>Total</b>				<b>38,145.61</b>	<b>976.50</b>	<b>39,122.11</b>	<b>37,662.11</b>	<b>1460.00</b>	



### 3.2. ENVIRONMENTAL ASPECT

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

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

#### 3.2.1. BORROW/ QUARRY SITES

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

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

#### 3.2.2. DISPOSAL OF SPOIL AND CONSTRUCTION WASTE

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

The contractor has already provided the safe tipping sites and the excess materials are dumped as per the approved tipped sites. Spoil and construction wastes are disposed at Madhumara site similarly excess construction materials are stocked at Madhumara site and at the open space of north side of Degree College (Rani Site).

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

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

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



S. No.	Location of Camp	Details	Remarks
1	Amar Tole, Biratnagar – 8	Three storey building in 2.5 Katha land with 5 Nos. of toilet with facilities mentioned in bullet No.: 3.2.3 of this report.	Have proper electric lightning system, water supply,
2	Panchali, Biratnagar – 11	<ul style="list-style-type: none"><li>▪ Office space three &amp; half storey building in 4.5 Katha land with 5 Nos. of toilet with facilities mentioned in bullet No.: 3.2.3 of this report.</li><li>▪ Staff quarter is of one storey building with 2 Nos. of Toilet with facilities mentioned in bullet No.: 3.2.3 of this report.</li><li>▪ Staff quarter is of three storey building but only one storey has been taken in rent, having 2 Nos. of Toilet with facilities mentioned in bullet No.: 3.2.3 of this report.</li></ul>	Have proper electric lightning system, water supply,
3	Tinpaini, Biratnagar – 2	Three storey building having land area of 3 Katha with 5 Nos. of toilet and facilities in toilets are mentioned in bullet No.: 3.2.3 of this report.	Have proper electric lightning system, water supply,
4	Rani, Biratnagar – 15	<ul style="list-style-type: none"><li>▪ Yard space in 10 Katha land with 4 Nos. of toilet with facilities mentioned in bullet No.: 3.2.3 of this report.</li><li>▪ Asphalt plant is having 2 Biggha land possess 6 Nos. of Toilet which are going to use by the gangs of road workers fulfil the criteria mentioned in bullet No.: 3.2.3 of this report.</li></ul>	Have proper electric lightning system, water supply,
5	Madhumara yard	Occupied area of 9 Katha	Have proper electric lightning system, water supply and toilets with facilities mentioned in bullet No.: 3.2.3 of this report.



### **3.2.3. PROVISION AND MAINTENANCE OF TOILETS**

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

Toilets have been provided at each labor camp. The contractor has been instructed to improve the toilet conditions where required.

Toilets in all the camps are found to be in the acceptable condition.

### **3.2.4. CRUSHING PLANTS**

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

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

### **3.2.5. ASPHALT PLANTS AND BATCHING PLANTS**

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

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

### **3.2.6. OCCUPATIONAL HEALTH AND SAFETY MEASURES**

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

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

The project is the environmental improvement project and mainly constitutes sewerage and drainage improvement works in BMC besides others. As per ADB guide-lines on Environmental Assessment requirements, this project is classified as Environment Category B. According to Environmental Protection Regulation-2054BS, First Revised (2055 BS) schedule-3, IEE is



required for Operations of Sewerage Schemes under Schedule 1.h.2.e (pertaining to Rule3). The final report was submitted to MoUD on 14<sup>th</sup> May, 2013 and has already been approved.

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

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

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

### **3.3. SOCIAL ASPECT**

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

### **3.4. SAFEGUARD/ GESI COMPONENT**

#### **3.4.1. COMMUNITY AWARENESS:**

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

#### **3.4.2. GRIEVANCE REDRESSES MECHANISM:**



Although many grievances are received verbally and written, all total 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 (6numbers) at Construction sites, thus Contractor was instructed as follow:

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

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

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

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

- i. Efforts are being made to control dust emission at construction site by sprinkling water. As personal safety was given prime importance, construction workers were made to use helmet, globe and jacket while on the construction site.
- ii. Besides that, special attentions were given on the placement of safety board and traffic signboards, safety tools, barricades, tapes, etc. and special care were taken to make sign boards big enough to make them visible from distant.
- iii. Taking into consideration of the fact that the involvement of the significant numbers of female as employee in ADB project is the main project objective of ADB, contractor paid especial attention to have a separate toilet and separate labor camp for female that facilitates and encourages female to get work in the construction field.
- iv. Significant improvement was found to be done in health and sanitation issues in the labor camp than in the previous monitoring visit; like, quality and quantity of drinking water was improved and condition of toilet was found to be enhanced. However, to meet the sanitation condition to predetermined level, further instructions were given by contractor to make provision for sufficient water in toilet and soap for hand-wash. Furthermore, yard in charge was suggested to have sufficient medications, bandages and other necessary first aid equipment's.
- v. Efforts are being made to control the spread of virus, TL, Mr. Chand strictly instructed to obey protocol of GoN & Local governance. Frequently, organizing the awareness program and training on how to fight against CORONA Virus (COVID-19). Emphasized on how to





use PPE, physical distancing, managing workers before construction, security procedure at entry/exit, changing & shower, role & responsibilities of the employer, consultant & contractor and how to check the worksite & disinfect (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.

Relocation of water supply pipe lines at R6 (going on length 700m) and R12 (completed of length 320m) have been performed this month.

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	37	115	152	0	24	16	5	107	0
Non local	30	95	125	0	15	18	9	83	0
Indian	3	10	13	0	0	0	10	3	0
<b>TOTAL</b>	<b>70</b>	<b>220</b>	<b>290</b>	<b>0</b>	<b>39</b>	<b>34</b>	<b>24</b>	<b>193</b>	<b>0</b>





### 3.5. FINANCIAL PLAN

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

#### 3.5.1. DISBURSEMENT RECORDS IN CONSTRUCTION

**Table – 6: DISBURSEMENT RECORDS in CONSTRUCTION**

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



9	IPC 09	10 <sup>th</sup> June 2019	1 <sup>st</sup> May 2019 to 31 <sup>st</sup> May 2019	90,419,375.33	
10	IPC 10	11 <sup>th</sup> July 2019	1 <sup>st</sup> June 2019 to 30 <sup>th</sup> June 2019	67,863,056.59	
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	
18	IPC 18	05 <sup>th</sup> Oct. 2020	1 <sup>st</sup> July, 2020 – 30 <sup>th</sup> Sep, 2020	90,563,317.45	
<b>Total amount excluding PA &amp; Mobilization advance till date =</b>				<b>2,533,609,916.27</b>	

**Note:**

- Physical progresses are lagging due to pandemic COVID-19 and unclear ROW at some lanes.
- Revised EOT and VO-3 of the consultant (DSC) has been approved by the Employer



## 4. OBJECTIVES AND SCOPE OF WORKS

### 4.1. OBJECTIVES

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

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

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

### 4.2. SCOPE OF WORKS

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

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

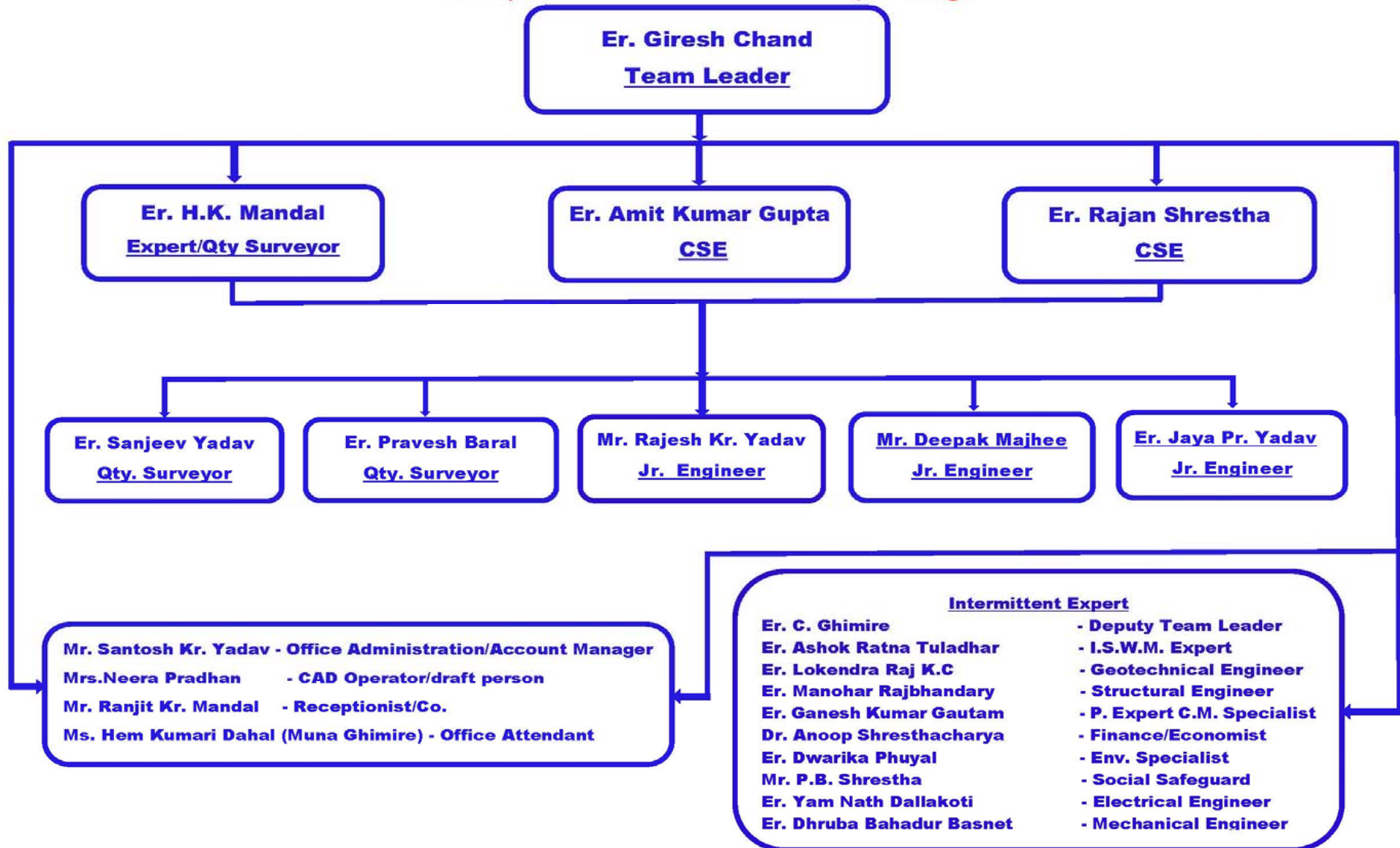
#### 4.3. ORGANIZATION AND STAFFING

Attached



## ORGANIZATION CHART

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



#### 4.4. CONSULTANT'S ACTIVITIES IN CONSTRUCTION PHASE

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

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

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



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

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

## 5. PROGRESS OF SUB – PROJECT COMPONENTS

### 5.1. CONSTRUCTION MATERIALS

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

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

### 5.2. PROGRESS ACHIEVED TILL DATE

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





Month	Target This Month		Achievement This Month		Leading		Lagging		Remarks
	Monthly	Accumulated	Monthly	Accumulated	Monthly	Accumulated	Monthly	Accumulated	
December-2019 (after Revision-2)	5.00%	72.98%	5.14%	73.12%	0.14%	0.14%	NA	NA	Leading
January-20	6.00%	78.98%	10.62%	83.74%	4.62%	4.76%	NA	NA	Leading
February-20	6.70%	85.68%	1.48%	85.22%	NA	NA	-5.22%	-0.46%	Lagging
March-20	6.80%	92.48%	1.67%	86.89%	NA	NA	-5.13%	-5.59%	Lagging
April-20	7.00%	99.48%	0.00%	86.89%	NA	NA	-7.00%	-12.59%	Lagging
May-20	0.52%	100.00%	0.86%	87.75%	0.34%	NA	NA	-12.25%	Lagging
June-20			1.15%	88.90%					
July-20			0.84%	82.97%					wrt VO-2
August-20			0.14%	83.11%					wrt VO-2
September-20	5.00%	88.11%	2.94%	86.05%			-2.06%	-2.06%	wrt VO-2
October-20	3.00%	91.11%	1.05%	87.10%			-1.95%	-4.01%	Wrt VO-2

### 5.3. KEYEVENTS

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

**Table 8: KEY DATES of EVENTS / ACTIVITIES**

S. No.	Date	Activities/Events	Remarks
1		<ul style="list-style-type: none"> <li>A meeting chaired by Project Manager, Mr. Bharat Neupane held at PIU office, Biratnagar on dated 18 October 2020</li> <li>The Revised VO and EoT of the consultant (DSC) has been approved by the Employer</li> </ul>	
3		<ul style="list-style-type: none"> <li>The Employer has approved Standard Operating Procedure (SOP) submitted by contractor. The consultant has already instructed contractor for the implementation of Safety procedures as per approved SOP. The contractor is on the process of procurement of goods as approved.</li> <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> <li>The COVID-19 has been tested positive on some of the staffs of Employer at PIU</li> </ul>	



## 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		90551.00	1250	91,801.00	Under progress
2	Kerb Stone	Rm	127,247.02	101,210.80		101,210.80	79.54%

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

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



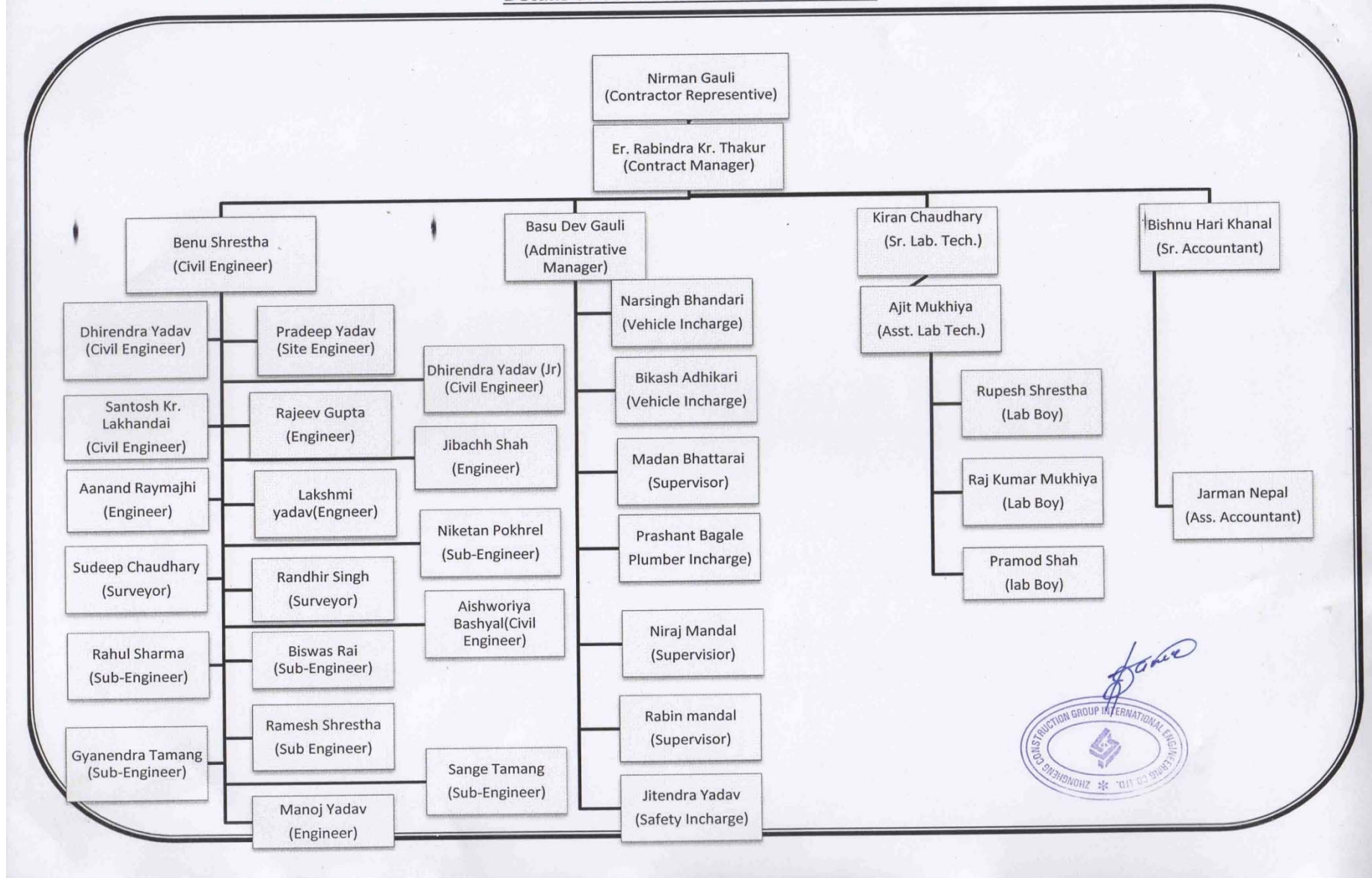
**Table 11: PHYSICAL PROGRESS in PRODUCTION/PURCHASE OF HDPE Pipe till date.**

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

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

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

Details of Contractor's Site Personnel's



## 7. CONTRACTOR'S MANPOWER

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

S.No.	Position	Minimum Number Required as per Contract	ZHONGHENG CONSTRUCTION Group	Remarks
1	Project/Contract Manager (1 No) 15/10 Yrs. (Total/Similar Exp.)	1	1	
2	Civil Engineer-10/6	2	2	
3	Sanitary Engineer- (1no.)-12/8	1	-	
4	Road Engineer-(1no.)-12/8	1	1	
5	Electromechanical Engineer-(1no)- 10/5	1	-	
6	Safety Engineer	-	1	
7	Site Engineer	-	8	
8	Sub- Engineer	-	4	
9	Accountant	-	2	
10	Lab Technician	-	1	
11	Store Keeper	-	1	
12	Vehicle In charge	-	1	
13	Skilled Labors		70	
14	Unskilled Labors		220	



## 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-5Nos.
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.:- 2ton 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	2	
9	Track Dozer (120 to 180 HP)	1	-	
10	Bitumen distributor (4 to 6 Kilo Liters)	1	2	
11	Water browser ( minimum 5000 Liters)	3	2	
12	Chips spreader	1	-	
13	Bitumen decanter minimum 4000 Liters. ( preheating container)	2	1	
	Air compressor	2	1	
14	Tipping Trucks	5	4	
15	Service vehicle	15	4	Tractor = 15 Nos.



S.No.	Equipment Type and Characteristics	Min Number required as per Contract	ZHONGHENG CONSTRUCTION Group	Remarks
16	Survey equipment (Total station with accessories)	2		
17	Theodolite	1	-	
18	Levelling	2	4	
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.
- Kerbstone painting work
- Placement of Sewer inlet and House Connection works.
- Relocation of electric poles and water supply works.
- Repair & Maintenance works, etc.

**Note:**

- The above mentioned work for the upcoming month can only be executed smoothly once the panic situations normalizes, Disputes on unclear RoW at some lanes and if uncertainty for unexpected rainfall being not occurred.
- The contractor claimed for time & cost pursuant to relevant clauses of the contract which are under perusal.



## ANNEX-1: Photographs of October 2020







Drain works at N39



Drain works works at T3Line26H





Field Density works at R70( Traffic Chowk)



Asphalt works at T3Line25C (Madhumara)

ANNEX-2: Minutes of Meeting October 2020

(As Attached)





Minutes of Meeting – RUDP, Biratnagar

**MINUTES OF MEETING**

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

Date: 18 October 2020

Time: 11:00AM

Venue: PIU, Biratnagar

**Attendance****Employer:**

- |   |                               |                                   |                   |
|---|-------------------------------|-----------------------------------|-------------------|
| 1 | Mr. Bharat Kumar Neupane      | Project Manager (PM), PIU         | <i>Bharat</i>     |
| 2 | Mr. Prakash Narayan Chaudhary | Deputy Project Manager (DPM), PIU | <i>Prakash</i>    |
| 4 | Mr Anil Singh                 | Electrical Engineer, PIU          | <i>Anil</i>       |
| 5 | Mr Ghanashyam Kafley          | Project Engineer (PE), PIU        | <i>Ghanashyam</i> |

**Contractor:**

- |   |                           |   |                  |
|---|---------------------------|---|------------------|
| 1 | Mr. Ravindra Kumar Thakur | CM, M/S Zhongheng Construction Group International Engineering Co. Ltd.       | <i>Ravindra</i>  |
| 2 | Mr. Dharendra Kumar Yadav | Engineer, M/S Zhongheng Construction Group International Engineering Co. Ltd. | <i>Dharendra</i> |

**Consultant:**

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

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

S. NO	Minutes	Action by
1	<p>Discussed about the present and over all progress status of the project under RUDP, emphasized on timely completion of project &amp; discussed on concerns which may delay the project.</p> <p>As the project is near to complete i.e. physical progress is approximately 90% and noticed that, due to differ site conditions as assumed (estimated quantity) earlier, the quantities of some items in BoQ may (increases/decreases) varies and required minor adjustment of quantities wrt BOQ. Due to which it is decided to adjust the quantities (+ and -) in internal Variation Order during statement at completion, <b>not to exceed the total approved amount in VO-2 (Nrs. 2,988,389,581.81).</b></p>	The employer, contractor & consultant

### ANNEX-3: Laboratory Test Results of October 2020





## 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		October		
							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	
1	TIL16C	MR-2868	Arghakhanchi	OPC	Chisang Khola	4-Sep-20	11-Sep-20	2-Oct-20	9.17	7.5	
2	R-6	MR-2869	Arghakhanchi	OPC	Chisang Khola	4-Sep-20	11-Sep-20	2-Oct-20	8.90	7.5	
3	R-5	MR-2870	Arghakhanchi	OPC	Chisang Khola	4-Sep-20	11-Sep-20	2-Oct-20	8.50	7.5	
4	N-39	MR-2871	Arghakhanchi	OPC	Chisang Khola	5-Sep-20	12-Sep-20	3-Oct-20	9.94	7.5	
5	R-111	MR-2872	Arghakhanchi	OPC	Chisang Khola	5-Sep-20	12-Sep-20	3-Oct-20	8.90	7.5	
6	R-83	MR-2873	Arghakhanchi	OPC	Chisang Khola	5-Sep-20	12-Sep-20	3-Oct-20	9.17	7.5	
7	N-1	MR-2874	Arghakhanchi	OPC	Chisang Khola	6-Sep-20	13-Sep-20	4-Oct-20	8.90	7.5	
8	R-83	MR-2875	Arghakhanchi	OPC	Chisang Khola	8-Sep-20	15-Sep-20	6-Oct-20	8.98	7.5	
9	R-83	MR-2876	Arghakhanchi	OPC	Chisang Khola	8-Sep-20	15-Sep-20	6-Oct-20	8.63	7.5	
10	R-70	MR-2877	Arghakhanchi	OPC	Chisang Khola	9-Sep-20	16-Sep-20	7-Oct-20	8.36	7.5	
11	R-12, New gudri	MR-2878	Arghakhanchi	OPC	Chisang Khola	10-Sep-20	17-Sep-20	8-Oct-20	8.63	7.5	
12	R-111	MR-2879	Arghakhanchi	OPC	Chisang Khola	11-Sep-20	18-Sep-20	9-Oct-20	9.71	7.5	
13	N-1	MR-2880	Arghakhanchi	OPC	Chisang Khola	11-Sep-20	18-Sep-20	9-Oct-20	9.04	7.5	
14	R-83	MR-2881	Arghakhanchi	OPC	Chisang Khola	11-Sep-20	18-Sep-20	9-Oct-20	9.71	7.5	
15	R-5	MR-2882	Arghakhanchi	OPC	Chisang Khola	12-Sep-20	19-Sep-20	10-Oct-20	8.90	7.5	
16	R-39	MR-2883	Arghakhanchi	OPC	Chisang Khola	12-Sep-20	19-Sep-20	10-Oct-20	8.77	7.5	
17	N-3, Junction	MR-2884	Arghakhanchi	OPC	Chisang Khola	13-Sep-20	20-Sep-20	11-Oct-20	9.57	7.5	
18	TIL16C	MR-2885	Arghakhanchi	OPC	Chisang Khola	13-Sep-20	20-Sep-20	11-Oct-20	8.63	7.5	
19	R-5	MR-2886	Arghakhanchi	OPC	Chisang Khola	14-Sep-20	21-Sep-20	12-Oct-20	9.84	7.5	
20	R-70	MR-2887	Arghakhanchi	OPC	Chisang Khola	14-Sep-20	21-Sep-20	12-Oct-20	8.77	7.5	
21	N-1	MR-2888	Arghakhanchi	OPC	Chisang Khola	14-Sep-20	21-Sep-20	12-Oct-20	9.17	7.5	
22	R-6	MR-2889	Arghakhanchi	OPC	Chisang Khola	14-Sep-20	21-Sep-20	12-Oct-20	9.57	7.5	
23	N-39	MR-2890	Arghakhanchi	OPC	Chisang Khola	15-Sep-20	22-Sep-20	13-Oct-20	8.77	7.5	
24	R-111	MR-2891	Arghakhanchi	OPC	Chisang Khola	15-Sep-20	22-Sep-20	13-Oct-20	8.63	7.5	
25	TIL13	MR-2892	Arghakhanchi	OPC	Chisang Khola	15-Sep-20	22-Sep-20	13-Oct-20	9.98	7.5	
26	N-1	MR-2893	Arghakhanchi	OPC	Chisang Khola	16-Sep-20	23-Sep-20	14-Oct-20	9.44	7.5	
27	R-70	MR-2894	Arghakhanchi	OPC	Chisang Khola	16-Sep-20	23-Sep-20	14-Oct-20	8.36	7.5	
28	TIL16C	MR-2895	Arghakhanchi	OPC	Chisang Khola	16-Sep-20	23-Sep-20	14-Oct-20	9.71	7.5	
29	R-5	MR-2896	Arghakhanchi	OPC	Chisang Khola	16-Sep-20	23-Sep-20	14-Oct-20	8.90	7.5	
30	N-3, Junction	MR-2897	Arghakhanchi	OPC	Chisang Khola	16-Sep-20	23-Sep-20	14-Oct-20	9.44	7.5	
31	R-71	MR-2898	Arghakhanchi	OPC	Chisang Khola	17-Sep-20	24-Sep-20	15-Oct-20	8.90	7.5	
32	TIL8B	MR-2899	Arghakhanchi	OPC	Chisang Khola	17-Sep-20	24-Sep-20	15-Oct-20	9.30	7.5	
33	R-111	MR-2900	Arghakhanchi	OPC	Chisang Khola	17-Sep-20	24-Sep-20	15-Oct-20	9.44	7.5	
34	R-70	MR-2901	Arghakhanchi	OPC	Chisang Khola	17-Sep-20	24-Sep-20	15-Oct-20	9.04	7.5	

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 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 Mortar Test Report

							Page no. 1 of 2				
							Month		October		
							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	
35	R-83	MR-2902	Arghakhanchi	OPC	Chisang Khola	17-Sep-20	24-Sep-20	15-Oct-20	8.77	7.5	
36	T1L16C	MR-2903	Arghakhanchi	OPC	Chisang Khola	18-Sep-20	25-Sep-20	16-Oct-20	8.23	7.5	
37	R-39	MR-2904	Arghakhanchi	OPC	Chisang Khola	18-Sep-20	25-Sep-20	16-Oct-20	9.30	7.5	
38	N-3,Juction	MR-2905	Arghakhanchi	OPC	Chisang Khola	18-Sep-20	25-Sep-20	16-Oct-20	8.77	7.5	
39	R-4	MR-2906	Arghakhanchi	OPC	Chisang Khola	18-Sep-20	25-Sep-20	16-Oct-20	9.98	7.5	
40	R-71	MR-2907	Arghakhanchi	OPC	Chisang Khola	19-Sep-20	26-Sep-20	17-Oct-20	8.50	7.5	
41	T1L8B	MR-2908	Arghakhanchi	OPC	Chisang Khola	19-Sep-20	26-Sep-20	17-Oct-20	9.44	7.5	
42	R-71	MR-2909	Arghakhanchi	OPC	Chisang Khola	20-Sep-20	27-Sep-20	18-Oct-20	8.90	7.5	
43	R-6	MR-2910	Arghakhanchi	OPC	Chisang Khola	20-Sep-20	27-Sep-20	18-Oct-20	8.77	7.5	
44	R-12,New gudri	MR-2911	Arghakhanchi	OPC	Chisang Khola	21-Sep-20	28-Sep-20	19-Oct-20	9.44	7.5	
45	T1L8B	MR-2912	Arghakhanchi	OPC	Chisang Khola	21-Sep-20	28-Sep-20	19-Oct-20	8.23	7.5	
46	R-4	MR-2913	Arghakhanchi	OPC	Chisang Khola	22-Sep-20	29-Sep-20	20-Oct-20	9.44	7.5	
47	T1L13	MR-2914	Arghakhanchi	OPC	Chisang Khola	22-Sep-20	29-Sep-20	20-Oct-20	8.77	7.5	
48	R-4,Branch Road	MR-2915	Arghakhanchi	OPC	Chisang Khola	22-Sep-20	29-Sep-20	20-Oct-20	8.50	7.5	
49	T1L8B	MR-2916	Arghakhanchi	OPC	Chisang Khola	23-Sep-20	30-Sep-20	21-Oct-20	9.71	7.5	
50	R-12,New gudri	MR-2917	Arghakhanchi	OPC	Chisang Khola	23-Sep-20	30-Sep-20	21-Oct-20	8.50	7.5	
51	R-6	MR-2918	Arghakhanchi	OPC	Chisang Khola	24-Sep-20	1-Oct-20	22-Oct-20	6.07	8.63	
52	R-71	MR-2919	Arghakhanchi	OPC	Chisang Khola	25-Sep-20	2-Oct-20	23-Oct-20	6.20	8.23	
53	R-4(Branch)	MR-2920	Arghakhanchi	OPC	Chisang Khola	26-Sep-20	3-Oct-20	24-Oct-20	6.74	9.30	
54	T1L8B	MR-2921	Arghakhanchi	OPC	Chisang Khola	27-Sep-20	4-Oct-20	25-Oct-20	6.78	9.44	
55	R-12	MR-2922	Arghakhanchi	OPC	Chisang Khola	28-Sep-20	5-Oct-20	26-Oct-20	6.07	8.50	
56	T2L24	MR-2923	Arghakhanchi	OPC	Chisang Khola	28-Sep-20	5-Oct-20	26-Oct-20	6.74	9.30	
57	N-1	MR-2924	Arghakhanchi	OPC	Chisang Khola	30-Sep-20	7-Oct-20	28-Oct-20	6.74	8.77	
58	R-111A	MR-2925	Arghakhanchi	OPC	Chisang Khola	1-Oct-20	8-Oct-20	29-Oct-20	6.07	8.50	
59	R-4	MR-2926	Arghakhanchi	OPC	Chisang Khola	1-Oct-20	8-Oct-20	29-Oct-20	6.74	9.57	
60	T2L26H	MR-2927	Arghakhanchi	OPC	Chisang Khola	2-Oct-20	9-Oct-20	30-Oct-20	7.15	9.17	
61	B-2(Branch)	MR-2928	Arghakhanchi	OPC	Chisang Khola	3-Oct-20	10-Oct-20	31-Oct-20	6.07	8.90	
62	N-90	MR-2929	Arghakhanchi	OPC	Chisang Khola	4-Oct-20	11-Oct-20	1-Nov-20	5.80	7.5	
63	R-20	MR-2930	Arghakhanchi	OPC	Chisang Khola	4-Oct-20	11-Oct-20	1-Nov-20	6.20	7.5	
64	R-20	MR-2931	Arghakhanchi	OPC	Chisang Khola	5-Oct-20	12-Oct-20	2-Nov-20	6.88	7.5	
65	N-35	MR-2932	Arghakhanchi	OPC	Chisang Khola	8-Oct-20	15-Oct-20	5-Nov-20	5.80	7.5	
66	T1L8B	MR-2933	Arghakhanchi	OPC	Chisang Khola	9-Oct-20	16-Oct-20	6-Nov-20	6.20	7.5	
67	R-12	MR-2934	Arghakhanchi	OPC	Chisang Khola	10-Oct-20	17-Oct-20	7-Nov-20	6.61	7.5	
68	T2L24	MR-2935	Arghakhanchi	OPC	Chisang Khola	10-Oct-20	17-Oct-20	7-Nov-20	6.74	7.5	

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







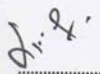







## REGIONAL URBAN DEVELOPMENT PROJECT

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	October	Remarks
							Year	2020	
							Type of Material	Brick	
1	1305	2-Oct-20	T1L8B	Dadarbairya	ACC	16.24	15.94		
2	1306	4-Oct-20	R-71	Dadarbairya	ACC	13.02	14.51		
3	1307	4-Oct-20	R-111A	Dadarbairya	Aanand	14.10	14.08		
4	1308	5-Oct-20	T2L24	Dadarbairya	Aanand	15.92	13.96		
5	1309	7-Oct-20	R-12	Dadarbairya	Aanand	13.49	15.08		
6	1310	9-Oct-20	N-90	Dadarbairya	ACC	13.48	15.21		
7	1311	9-Oct-20	N-1	Dadarbairya	ACC	16.57	14.27		
8	1312	12-Oct-20	T2L26H	Dadarbairya	Aanand	15.16	13.69		
9	1313	13-Oct-20	R-20	Dadarbairya	Aanand	13.80	15.21		
10	1314	15-Oct-20	N-35	Dadarbairya	Aanand	14.56	14.39		
11	1315	16-Oct-20	N-39	Dadarbairya	ACC	15.46	15.86		
12	1316	16-Oct-20	R-6	Dadarbairya	ACC	16.09	14.31		
13	1317	17-Oct-20	R-4	Dadarbairya	ACC	15.06	15.08		
Sp. Limit						<20%	>8 to 10 N/mm <sup>2</sup>		
Comments:-									
 <b>Contractor</b> ZHONGHENG CONSTRUCTION GROUP INTERNATIONAL ENGINEERING CO. LTD					 <b>Consultant</b> 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 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

							Page No 1 of 1				
							Month		October		
							Year		2020		
							Type of Material		Conc. Cube		
S.N.	Location	Lab Ref.no.	Type of Cement	Brand of Cement	Source of Sand+Agg.	Date of Casting	Date of Testing		Strength, N/mm2		Concrete Grade
							7 Days	28 Days	7 Days	28 Days	
1	N-1	RUDP-3659	Arghakhanchi	OPC	Chisang Khola	3-Sep-20	10-Sep-20	1-Oct-20		22.89	M20
2	R-101	RUDP-3660	Arghakhanchi	OPC	Chisang Khola	3-Sep-20	10-Sep-20	1-Oct-20		23.52	M20
3	T3L23C	RUDP-3661	Arghakhanchi	OPC	Chisang Khola	3-Sep-20	10-Sep-20	1-Oct-20		21.89	M20
4	R-12,New gudri	RUDP-3662	Arghakhanchi	OPC	Chisang Khola	4-Sep-20	11-Sep-20	2-Oct-20		23.97	M20
5	R-70	RUDP-3663	Arghakhanchi	OPC	Chisang Khola	4-Sep-20	11-Sep-20	2-Oct-20		22.03	M20
6	N-39	RUDP-3664	Arghakhanchi	OPC	Chisang Khola	4-Sep-20	11-Sep-20	2-Oct-20		23.07	M20
7	N-40	RUDP-3665	Arghakhanchi	OPC	Chisang Khola	5-Sep-20	12-Sep-20	3-Oct-20		23.21	M20
8	Madhumara Yard	RUDP-3666	Arghakhanchi	OPC	Chisang Khola	5-Sep-20	12-Sep-20	3-Oct-20		27.72	M25
9	R-6	RUDP-3667	Arghakhanchi	OPC	Chisang Khola	8-Sep-20	15-Sep-20	6-Oct-20		23.05	M20
10	N-1	RUDP-3668	Arghakhanchi	OPC	Chisang Khola	8-Sep-20	15-Sep-20	6-Oct-20		22.83	M20
11	R-39	RUDP-3669	Arghakhanchi	OPC	Chisang Khola	9-Sep-20	16-Sep-20	7-Oct-20		21.89	M20
12	R-12,New gudri	RUDP-3670	Arghakhanchi	OPC	Chisang Khola	9-Sep-20	16-Sep-20	7-Oct-20		22.05	M20
13	R-111	RUDP-3671	Arghakhanchi	OPC	Chisang Khola	10-Sep-20	17-Sep-20	8-Oct-20		22.60	M20
14	R-101	RUDP-3672	Arghakhanchi	OPC	Chisang Khola	11-Sep-20	18-Sep-20	9-Oct-20		23.23	M20
15	T1L16C	RUDP-3673	Arghakhanchi	OPC	Chisang Khola	11-Sep-20	18-Sep-20	9-Oct-20		22.68	M20
16	R-83	RUDP-3674	Arghakhanchi	OPC	Chisang Khola	12-Sep-20	19-Sep-20	10-Oct-20		23.44	M20
17	R-5	RUDP-3675	Arghakhanchi	OPC	Chisang Khola	12-Sep-20	19-Sep-20	10-Oct-20		23.15	M20
18	R-71	RUDP-3676	Arghakhanchi	OPC	Chisang Khola	14-Sep-20	21-Sep-20	12-Oct-20		22.76	M20
19	N-39	RUDP-3677	Arghakhanchi	OPC	Chisang Khola	14-Sep-20	21-Sep-20	12-Oct-20		23.66	M20
20	R-5	RUDP-3678	Arghakhanchi	OPC	Chisang Khola	15-Sep-20	22-Sep-20	13-Oct-20		22.73	M20
21	R-71	RUDP-3679	Arghakhanchi	OPC	Chisang Khola	15-Sep-20	22-Sep-20	13-Oct-20		23.05	M20
22	N-39	RUDP-3680	Arghakhanchi	OPC	Chisang Khola	15-Sep-20	22-Sep-20	13-Oct-20		22.81	M20
23	N-39	RUDP-3681	Arghakhanchi	OPC	Chisang Khola	16-Sep-20	23-Sep-20	14-Oct-20		22.68	M20
24	R-12,New gudri	RUDP-3682	Arghakhanchi	OPC	Chisang Khola	16-Sep-20	23-Sep-20	14-Oct-20		22.76	M20
25	R-18	RUDP-3683	Arghakhanchi	OPC	Chisang Khola	18-Sep-20	25-Sep-20	16-Oct-20		22.99	M20
26	T1L8B	RUDP-3684	Arghakhanchi	OPC	Chisang Khola	18-Sep-20	25-Sep-20	16-Oct-20		23.21	M25
27	N-39	RUDP-3685	Arghakhanchi	OPC	Chisang Khola	18-Sep-20	25-Sep-20	16-Oct-20		23.66	M20
28	T3L23C	RUDP-3686	Arghakhanchi	OPC	Chisang Khola	18-Sep-20	25-Sep-20	16-Oct-20		22.91	M20
29	R-71	RUDP-3687	Arghakhanchi	OPC	Chisang Khola	19-Sep-20	26-Sep-20	17-Oct-20		21.97	M20
30	R-6	RUDP-3688	Arghakhanchi	OPC	Chisang Khola	19-Sep-20	26-Sep-20	17-Oct-20		22.76	M20
31	R-101	RUDP-3689	Arghakhanchi	OPC	Chisang Khola	20-Sep-20	27-Sep-20	18-Oct-20		22.44	M20
32	N-39	RUDP-3690	Arghakhanchi	OPC	Chisang Khola	20-Sep-20	27-Sep-20	18-Oct-20		23.34	M20
33	R-6	RUDP-3691	Arghakhanchi	OPC	Chisang Khola	20-Sep-20	27-Sep-20	18-Oct-20		22.91	M20
34	R-12,New gudri	RUDP-3692	Arghakhanchi	OPC	Chisang Khola	21-Sep-20	28-Sep-20	19-Oct-20		22.68	M20
35	R-18	RUDP-3693	Arghakhanchi	OPC	Chisang Khola	21-Sep-20	28-Sep-20	19-Oct-20		23.58	M20
36	T3L23C	RUDP-3694	Arghakhanchi	OPC	Chisang Khola	22-Sep-20	29-Sep-20	20-Oct-20		22.60	M20
37	R-5	RUDP-3695	Arghakhanchi	OPC	Chisang Khola	23-Sep-20	30-Sep-20	21-Oct-20		23.15	M20
38	T1L8B	RUDP-3696	Arghakhanchi	OPC	Chisang Khola	25-Sep-20	2-Oct-20	23-Oct-20	14.64	22.60	M20
39	R-71	RUDP-3697	Arghakhanchi	OPC	Chisang Khola	25-Sep-20	2-Oct-20	23-Oct-20	16.52	21.42	M20
40	R-4(Branch)	RUDP-3698	Arghakhanchi	OPC	Chisang Khola	26-Sep-20	3-Oct-20	24-Oct-20	14.72	22.52	M20
41	R-111	RUDP-3699	Arghakhanchi	OPC	Chisang Khola	27-Sep-20	4-Oct-20	25-Oct-20	16.52	22.20	M20
42	R-6	RUDP-3700	Arghakhanchi	OPC	Chisang Khola	29-Sep-20	6-Oct-20	27-Oct-20	16.05	23.44	M20
43	N-1	RUDP-3701	Arghakhanchi	OPC	Chisang Khola	29-Sep-20	6-Oct-20	27-Oct-20	14.80	22.83	M20
44	N-40	RUDP-3702	Arghakhanchi	OPC	Chisang Khola	29-Sep-20	6-Oct-20	27-Oct-20	16.05	21.97	M20
45	R-4	RUDP-3703	Arghakhanchi	OPC	Chisang Khola	30-Sep-20	7-Oct-20	28-Oct-20	14.88	23.52	M20
46	T2L26H	RUDP-3704	Arghakhanchi	OPC	Chisang Khola	1-Oct-20	8-Oct-20	29-Oct-20	15.35	22.91	M20
47	B-2(Branch)	RUDP-3705	Arghakhanchi	OPC	Chisang Khola	3-Oct-20	10-Oct-20	31-Oct-20	16.05	23.28	M20

Contractor

ZHONGHENG CONSTRUCTION GROUP  
INTERNATIONAL ENGINEERING CO. LTDBUILDING DESIGN AUTHORITY (P) LTD IN JOINT VENTURE WITH B.N.  
CONSULTANCY PVT. LTD AND PLUS ENGINEERS & ARCHITECTS (P)  
LTD, KATHMANDU, NEPALChecked By  
Engineer  
Dhirendra YadavSubmitted By  
Contract Manager  
Rabindra K. ThakurVerified By  
Expert Qty Surveyor/CSE  
H.K. Mandal/Rajan ShresthaApproved By  
Team Leader  
Giresh Chand



## REGIONAL URBAN DEVELOPMENT PROJECT

Biratnagar Metropolitan City



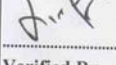

Contract No:- RUDP/ICB/BRT-02

## Summary Sheet of Concrete Cube Test Report

Page No 1 of 2

S.N.	Location	Lab Ref.no.	Type of Cement	Brand of Cement	Source of Sand+Agg.	Date of Casting	Month		Year		Type of Material	Conc. Cube		
							October		2020			Strength, N/mm <sup>2</sup>		Concrete Grade
							Date of Testing		7 Days			28 Days		
							7 Days	28 Days	7 Days	28 Days				
48	TIL14C	RUDP-3706	Arghakhanchi	OPC	Chisang Khola	4-Oct-20	11-Oct-20	1-Nov-20			16.29		M20	
49	T2L26H	RUDP-3707	Arghakhanchi	OPC	Chisang Khola	4-Oct-20	11-Oct-20	1-Nov-20			15.03		M20	
50	N-1	RUDP-3708	Arghakhanchi	OPC	Chisang Khola	5-Oct-20	12-Oct-20	2-Nov-20			15.97		M20	
51	R-6	RUDP-3709	Arghakhanchi	OPC	Chisang Khola	6-Oct-20	13-Oct-20	3-Nov-20			14.72		M20	
52	N-40	RUDP-3710	Arghakhanchi	OPC	Chisang Khola	6-Oct-20	13-Oct-20	3-Nov-20			16.60		M20	
53	Koshi Yard	RUDP-3711	Arghakhanchi	OPC	Chisang Khola	6-Oct-20	13-Oct-20	3-Nov-20			16.99		M20	
54	R-71	RUDP-3712	Arghakhanchi	OPC	Chisang Khola	7-Oct-20	14-Oct-20	4-Nov-20			15.82		M20	
55	T2L26H	RUDP-3713	Arghakhanchi	OPC	Chisang Khola	7-Oct-20	14-Oct-20	4-Nov-20			17.23		M20	
56	TIL8B	RUDP-3714	Arghakhanchi	OPC	Chisang Khola	8-Oct-20	15-Oct-20	5-Nov-20			16.21		M20	
57	N-40	RUDP-3715	Arghakhanchi	OPC	Chisang Khola	9-Oct-20	16-Oct-20	6-Nov-20			17.30		M20	
58	R-4	RUDP-3716	Arghakhanchi	OPC	Chisang Khola	11-Oct-20	18-Oct-20	8-Nov-20			15.35		M20	
59	N-1	RUDP-3717	Arghakhanchi	OPC	Chisang Khola	11-Oct-20	18-Oct-20	8-Nov-20			15.74		M20	
60	N-40	RUDP-3718	Arghakhanchi	OPC	Chisang Khola	13-Oct-20	20-Oct-20	10-Nov-20			14.33		M20	
61	R-111	RUDP-3719	Arghakhanchi	OPC	Chisang Khola	14-Oct-20	21-Oct-20	11-Nov-20			15.66		M20	
62	R-71	RUDP-3720	Arghakhanchi	OPC	Chisang Khola	14-Oct-20	21-Oct-20	11-Nov-20			16.52		M20	
63	R-6	RUDP-3721	Arghakhanchi	OPC	Chisang Khola	16-Oct-20	23-Oct-20	13-Nov-20			15.42		M20	
64	N-40	RUDP-3722	Arghakhanchi	OPC	Chisang Khola	16-Oct-20	23-Oct-20	13-Nov-20			16.91		M20	
65	B-2(Branch)	RUDP-3723	Arghakhanchi	OPC	Chisang Khola	17-Oct-20	24-Oct-20	14-Nov-20			15.03		M20	
66	T2L26H	RUDP-3724	Arghakhanchi	OPC	Chisang Khola	19-Oct-20	26-Oct-20	16-Nov-20			17.07		M20	
67	Madhumara Yard	RUDP-3725	Arghakhanchi	OPC	Chisang Khola	19-Oct-20	26-Oct-20	16-Nov-20					M20	

Contractor		Consultant	
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 K. Thakur	 Verified By Expert Qty Surveyor/CSE H.K. Mandal/Rajan Shrestha	 Approved By Team Leader Giresh Chand





### Summary Sheet of Monthly Test Report of 20mm Agg.

<p><b>Contractor</b></p>	<p><b>ZHONGHENG CONSTRUCTION GROUP INTERNATIONAL ENGINEERING CO. LTD</b></p>	<p><b>Consultant</b></p>	<p><b>BUILDING DESIGN AUTHORITY (P) LTD IN JOINT VENTURE WITH B.N. CONSULTANCY PVT. LTD AND PLUS ENGINEERS &amp; ARCHITECTS (P) LTD, KATHMANDU, NEPAL</b></p>
<p><b>Checked By</b> Engineer</p>	<p><b>Submitted By</b> Contract Manager</p>	<p><b>Verified By</b> Expert Qty Surveyor/CSE</p>	<p><b>Approved By</b> Team Leader</p>
<p><i>[Signature]</i></p>	<p><i>[Signature]</i></p>	<p><i>[Signature]</i></p>	<p><i>[Signature]</i></p>
<p><b>Thireshandra Yadav</b></p>	<p><b>Rabindra K. Thakur</b></p>	<p><b>H.K. Manda/Raim Shrestha</b></p>	<p><b>Chief Clerk</b></p>

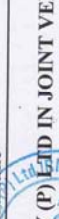



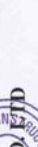



REGIONAL URBAN DEVELOPMENT PROJECT															
Biratnagar Metropolitan City															
Contract No:- RUDP/ICB/BRT-02															
Summary Sheet of Monthly Test Report of Concrete Sand															
Page no 1 of 1															
Month Year 2020															
Type of Concrete Sand															
S.N.	Lab.Ref no.	Date of Testing	Location of Sample	Source of Sample	Sieve Size in mm / % Passing by weight										Remarks
					10	5.0	2.36	1.18	0.600	0.300	0.150	Clay Content			
1	RUDP-CS-735	2-Oct-20	R-6	Chisang Khola	100.00	94.79	73.05	44.52	25.38	11.23	2.29	0.81			
2	RUDP-CS-736	2-Oct-20	R-71	Chisang Khola	100.00	95.40	73.02	43.98	23.38	11.11	2.02	0.97			
3	RUDP-CS-737	3-Oct-20	R-4 (Branch)	Chisang Khola	100.00	92.41	66.74	43.89	24.30	11.39	3.49	0.99			
4	RUDP-CS-738	3-Oct-20	TIL8B	Chisang Khola	100.00	94.50	67.66	43.75	24.77	11.39	3.27	0.82			
5	RUDP-CS-739	4-Oct-20	R-12	Chisang Khola	100.00	94.13	67.40	43.58	24.67	11.35	3.26	0.82			
6	RUDP-CS-740	5-Oct-20	Koshi Yard	Chisang Khola	100.00	95.60	64.66	42.19	26.80	10.93	2.76	1.04			
7	RUDP-CS-741	5-Oct-20	N-1	Chisang Khola	100.00	96.34	66.75	42.40	23.73	9.26	2.65	1.40			
8	RUDP-CS-742	6-Oct-20	TIL24	Chisang Khola	100.00	96.02	70.12	47.14	29.46	13.86	3.49	1.12			
9	RUDP-CS-743	7-Oct-20	R-111A	Chisang Khola	100.00	94.90	67.44	49.97	30.84	15.02	4.20	0.95			
10	RUDP-CS-744	7-Oct-20	R-4	Chisang Khola	100.00	95.63	79.92	63.13	36.17	21.80	9.77	1.42			
11	RUDP-CS-745	8-Oct-20	TIL26H	Chisang Khola	100.00	96.49	77.29	57.35	34.48	18.95	10.78	1.84			
12	RUDP-CS-746	8-Oct-20	B-2 (Branch)	Chisang Khola	100.00	92.85	68.37	44.13	24.10	13.18	5.72	1.50			
13	RUDP-CS-747	11-Oct-20	N-90	Chisang Khola	100.00	91.65	66.34	45.29	19.41	9.66	4.91	1.47			
14	RUDP-CS-748	11-Oct-20	N-39	Chisang Khola	100.00	93.07	73.23	52.53	25.21	17.04	7.39	2.07			
15	RUDP-CS-749	12-Oct-20	R-20	Chisang Khola	100.00	92.33	66.06	50.64	24.68	14.60	6.70	1.54			
16	RUDP-CS-750	13-Oct-20	N-35	Chisang Khola	100.00	91.97	73.55	55.73	29.74	14.83	6.12	1.48			
17	RUDP-CS-751	13-Oct-20	R-71	Chisang Khola	100.00	94.00	65.40	40.32	22.60	15.18	6.36	1.03			
18	RUDP-CS-752	15-Oct-20	R-6	Chisang Khola	100.00	92.46	63.42	31.07	26.00	9.88	4.91	1.16			
19	RUDP-CS-753	15-Oct-20	TIL14C	Chisang Khola	100.00	92.54	68.32	51.78	27.63	13.78	5.68	1.19			
20	RUDP-CS-754	16-Oct-20	Madhumara Yard	Chisang Khola	100.00	92.97	81.32	54.79	37.28	22.40	12.41	0.83			
21	RUDP-CS-755	17-Oct-20	N-1	Chisang Khola	100.00	95.63	79.92	63.13	36.17	21.80	9.77	1.42			
22	RUDP-CS-756	19-Oct-20	N-40	Chisang Khola	100.00	96.49	77.32	57.42	34.58	19.09	10.93	0.96	<3%		
Spec. Limit :					100	89-100	60-100	30-100	15-100	5-70	0-15				

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



## Summary Sheet of Monthly Test Report

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



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

### Summary Sheet of Field Density Test

**Location:-R-10,Sanchay Kosh**



## Biratnagar Metropolitan City

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

### Summary Sheet of Monthly Test Report

**Location :-R-5,Sani mandir to satghumti**

[illegible]



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

Location:-R-5



[illegible]



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

Location:-R-83

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



















### Summary Sheet of Field Density Test

Month	October
Year	2020
Type of Material	Sub-Grade
Density(gm/cc)	Compaction %

[illegible]

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

Approved By  
Team Leader  
Giresch Chand

### Summary Sheet of Monthly Test Report

Month:	October
Year	2020
Type of Material	Sub grade

[illegible]

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  
Ravindra k. Thakur

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

Approved By  
Team Leader



### Summary Sheet of Field Density Test

Location:-R-4,(East of R-3)WTP







**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 OCTOBER 2020

Type of Bitumen: 80/100 P.G

S.N.	Location	Date of Tack coat	Station From	Station to	Side of Tack coat	Area of Tack coat	Intersection Area m2	Total Area M2	Bitumen Consumption	Application Rate		Page no 1 of 2
										By Dip Lit/m2	By Tray Test Lit/m2	
8	R-5	16-Oct-20	0+000	0+063	BHS	469.35	0	469.35	240	0.51	0.50	
9	R-70	16-Oct-20	0+000	0+067	BHS	704.84	0	704.84	400	0.57	0.54	
10	T3L7	16-Oct-20	0+000	0+117	BHS	369.72	0	369.72	210	0.57	0.54	
11	R-10	16-Oct-20	0+000	0+180	BHS	774	0	774.00	435	0.56	0.54	
12	R-4	17-Oct-20	0+800	0+1000	BHS	1144	0	1144.00	650	0.57	0.54	
13	R-101	18-Oct-20	0+000	0+138	BHS	621	0	621.00	340	0.55	0.52	

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

**Specific Gravity of Bitumen 1.023**

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

## REGIONAL URBAN DEVELOPMENT PROJECT

Biratnagar Metropolitan City

Contract No: RUDP/ICB/BRT-02

## Daily Application Rate Check for TACK COAT

SUMMARY FOR THE MONTH OF OCTOBER 2020

Type of Bitumen: 80/100 P.G

S.N.	Location	Date of Tack coat	Station From	Station to	Side of Tack coat	Area of Tack coat	Intersection Area m2	Total Area M2	Bitumen Consumption	Application Rate By Dip Lit/m2	Application Rate By Tray Test Lit/m2
1	T2L8C	11-Oct-20	0+000	0+075	BHS	266.25	0	266.25	140	0.53	0.52
2	T1L7A	11-Oct-20	0+000	0+075	BHS	307.5	0	307.5	165	0.54	0.51
3	T1L7B	11-Oct-20	0+000	0+083	BHS	398.4	0	398.40	215	0.54	0.52
4	T1L7C	11-Oct-20	0+000	0+071	BHS	340.8	0	340.80	190	0.56	0.53
5	T1L8B	11-Oct-20	0+000	0+119	BHS	466.48	0	466.48	270	0.58	0.56
6	R-64	11-Oct-20	0+000	0+123	BHS	590.4	0	590.40	310	0.53	0.49
7	T2L19K	12-Oct-20	0+000	0+197	BHS	689.5	0	689.50	370	0.54	0.53

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

Specific Gravity of Bitumen 1.023

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, NEPALChecked By  
Engineer  
Dhirendra YadavSubmitted By  
Contract Manager  
Rabindra Kr. ThakurVerified By  
Expert Qty Surveyor/CSE  
H.K. Mandal/Rajan ShresthaApproved By  
Team Leader  
Gireesh Chand





## REGIONAL URBAN DEVELOPMENT PROJECT

Biratnagar Metropolitan City

Contract No: RUDP/ICB/BRT-02

## Test Result BY MARSHALL METHOD (AASHTO T 245-78)

## SUMMARY FOR THE MONTH OF October 2020

SUMMARY FOR THE MONTH OF October 2020																	
S. No.	LAB REF. NO.	Date of Laying	Location of Work ch:	Mix Agg Gradation							Blumen Content From Extraction Test %	Mix Density gm/cc	Air Voids %	VMA %	Stability N	Flow mm	P.g 1 of 1
				% Passing Sieve Sizes mm													
				20	16	9.5	4.75	2.36	0.6	0.075							
1	252	11/10/2020	T2L8C(0+000 to 0+075)	100	100	77.10	56.43	35.12	16.78	6.71	5.68	2.454	3.01	16.08	11546	2.33	
2	253	11/10/2020	T1L7A(0+000 to 0+075)	100	100	80.88	55.91	34.13	16.60	6.50	5.88	2.371	3.08	16.56	11642	2.48	
3	254	11/10/2020	T1L7B(0+000 to 0+083)	100	100	80.06	55.14	36.37	18.03	7.42	5.70	2.378	3.08	16.19	11631	2.35	
4	255	11/10/2020	T1L7C(0+000 to 0+071)	100	100	81.39	54.28	34.18	20.78	8.02	5.96	2.360	3.22	16.82	11642	2.48	
5	256	11/10/2020	T1L8B(0+000 to 0+119)	100	100	81.82	55.66	35.57	18.35	6.12	5.95	2.365	3.02	16.63	11686	2.62	
6	257	11/10/2020	R-64(0+000 to 0+1213)	100	100	82.09	56.22	36.93	19.98	8.10	5.65	2.386	4.25	17.28	11576	2.38	
7	258	12/10/2020	T2L19K(0+000 to 0+123)	100	100	81.42	55.63	34.93	16.88	6.26	5.80	2.397	3.57	17.01	11675	2.55	
8	259	16/10/2020	R-5(0+000 to 0+063)	100	100	81.84	56.36	35.54	17.49	7.40	5.83	2.372	4.52	17.90	11465	2.25	
9	260	16/10/2020	R-70(0+000 to 0+180)	100	100	81.44	55.57	34.57	16.57	7.85	5.70	2.383	4.29	17.42	11199	2.32	
10	261	10/10/2020	T3L7(0+000 to 0+117)	100	100	80.97	55.13	38.87	19.84	8.67	5.94	2.398	3.34	17.11	11421	2.50	
11	262	16/10/2020	R-10(0+000 to 0+180)	100	100	81.78	55.93	35.28	17.80	7.73	5.60	2.390	4.12	16.35	11642	2.48	
12	263	17/10/2020	R-4(0+800 to 0+100)	100	100	81.99	55.92	35.46	17.87	6.91	5.63	2.380	4.49	17.45	11089	2.23	
13	264	18/10/2020	R-101(0+000 to 0+138)	100	100	81.62	56.02	35.30	17.88	8.31	5.88	2.375	4.36	17.86	11509	2.33	
14	265	21/10/2020	R-5,Sani mandir(0+000 to 0+180)	100	100	80.91	55.45	34.98	17.37	7.08	5.72	2.404	3.41	16.71	11089	2.27	
Specifications				100	100-100	76-82	54-59	33-37	16-21	6 to 9	5.703	Min 2.358	3-6%	≥ 15	≥ 8500	2-3	
Job Mix Tolerances from RUDP Specification Table 2-4-10				±5%	Nil	±5%	±3%	±2%	±1%	Nil					For (25-51)mm Thickness W/C Course		

REMARKS:

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





## REGIONAL URBAN DEVELOPMENT PROJECT

Biratnagar Metropolitan City

Contract No: RUDP/ICB/BRT-02

## Daily Application Rate Check for Priming work



Type of Bitumen: 80/100 P.G

Cutter Percentage: MC/70/MC30

## SUMMARY FOR THE MONTH OF OCTOBER 2020

SN NO	Location	Date of Priming	Station From	Station to	Side of Priming	Area of Priming (m <sup>2</sup> )	Intersection Area m <sup>2</sup>	Total Area M <sup>2</sup>	Bitumen Consumption (Ltr)	Application Rate By Deep Ltr/m <sup>2</sup>	Application Rate Bt Tray Test Ltr/m <sup>2</sup>
1	T2L19K	10-Oct-20	0+000	0+197	Both side	689.50	0.00	689.50	740	1.07	1.04
2	R-64	10-Jan-20	0+000	0+123	Both Side	590.40	0.00	590.40	615	1.04	1.03
3	R-5	13-Oct-20	0+000	0+63	Both Side	469.35	0.00	469.35	495	1.05	1.04
4	R-70	13-Oct-20	0+000	0+067	Both Side	705.00	0.00	705.00	725	1.03	1.04
5	T3L7	13-Oct-20	0+000	0+117	Both Side	352.17	0.00	352.17	375	1.06	1.03
6	R-10	13-Oct-20	0+000	0+180	Both Side	774.00	0.00	774.00	790	1.02	1.01
7	R-101	17-Oct-20	0+000	0+146	Both Side	621.00	0.00	621.00	655	1.05	1.04
8	R-5(Sani mandir)	19-Oct-20	0+000	0+180	Both Side	1200.60	0.00	1200.60	1260	1.05	1.03
9	T2L24,CD	20-Oct-20	0+000	0+020	Both Side	132.00	0.00	132.00	140	1.06	1.03

Required specification for Prime coat 1.0 Lit/M<sup>2</sup> ± 5% Specific Gravity of Bitumen 1.020

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



## ANNEX-4: SOCIAL& ENVIRONMENT SAFEGUARD

### **Monitoring Formats– October 2020**



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

Month/Year: -Oct. 2020

LABOUR CLASS	LABOUR		COMPOSITION				ETHNIC COMPOSITION			
	SKILLED	UNSKILLED	MALE	FEMALE	JANJATI	DALIT	MUSLIM	MADHESI	BRAHMIN/CHHETRI	
LOCAL	37	115	152	0	24	16	5	107	0	
NON LOCAL	30	95	125	0	15	18	9	83	0	
INDIAN	3	10	13	0	0	0	10	3	0	
TOTAL	70	220	290	0	39	34	24	193	0	





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

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

S.NO	LOCATION	TYPES OF WORK	TYPES OF WORKERS	LABOUR		COMPOSITION		JANUATI	DALIT	ETHNIC COMPOSITION		
				SKILLED	UNSKILLED	MALE	FEMALE			MUSLIM	MADHESI	BRAHMIN/CHHETRI
1	Koshi Yard	Production	LOCAL NON LOCAL INDIAN TOTAL	6 22 28		28		8	5		15	
2	R83	Weephole	LOCAL NON LOCAL INDIAN TOTAL	2 5 7	5	7		5	2			
3	R83	Gutter	LOCAL NON LOCAL INDIAN TOTAL	5 12 17		17			5		12	
4	R4	Base	LOCAL NON LOCAL INDIAN TOTAL	2 5 7	5	7		3			4	
5	R4	Sub-Base	LOCAL NON LOCAL INDIAN TOTAL	2 3 5	3	5			2		3	
6	Madhumara Yard	Production	LOCAL NON LOCAL INDIAN TOTAL	4 16 20	12	16			6		10	
7	R6	House Connection	LOCAL NON LOCAL INDIAN TOTAL	3 10 13	7	10						
8	R71	Kerb Stone	LOCAL NON LOCAL INDIAN TOTAL	4 12 16	12	16					16	
				16								



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

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

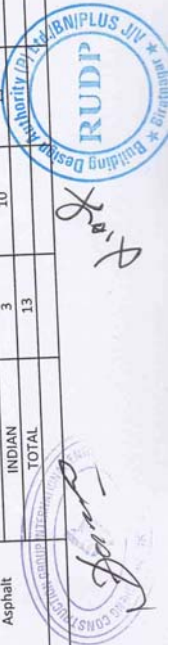
1.General information																					
Subproject: -RUDP/ICB/BRT/2																					
on Group/International Engineering Co pvt Beijing China.																					
S.NO	LOCATION	TYPES OF WORK	TYPES OF WORKERS	LABOUR		COMPOSITION		ETHNIC COMPOSITION													
				SKILLED	UNSKILLED	MALE	FEMALE	JANJATI	DALIT	MUSLIM	MADHESI	BRAHMIN/CHHETRI									
9	R4	Kerb Stone	LOCAL	3	11	14		4	2		8										
			NON LOCAL																		
			INDIAN	14																	
			TOTAL																		
10	N40	Drain	LOCAL	3	12	15						5	5								
			NON LOCAL																		
			INDIAN	15																	
			TOTAL																		
11	N40	Drain Bed Pcc	LOCAL	2	10	12															
			NON LOCAL																		
			INDIAN	12																	
			TOTAL																		
12	R120	Brick Work	LOCAL	2	9	11					2										
			NON LOCAL																		
			INDIAN	11																	
			TOTAL																		
13	B2(Branch)	Brick Work	LOCAL	4	9	13															
			NON LOCAL																		
			INDIAN	13																	
			TOTAL																		
14	N35	Brick work	LOCAL	2	7	9															
			NON LOCAL																		
			INDIAN	9																	
			TOTAL																		
15	T118B	Brick Work	LOCAL	3	8	11					3										
			NON LOCAL																		
			INDIAN	11																	
			TOTAL																		



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

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

Contract Package: RUDP/ICB/BRT/2																
1.General information																
Subproject: -RUDP/ICB/BRT/2																
on Group/International Engineering Co pvt Beijing China.																
S.NO	LOCATION	TYPES OF WORK	TYPES OF WORKERS	LABOUR		COMPOSITION		JANJATI	DALIT	ETHNIC COMPOSITION		BRAHMIN/CHHETRI				
				SKILLED	UNSKILLED	MALE	FEMALE			MUSUM	MADHESI					
16	R12	Brick Work	LOCAL NON LOCAL INDIAN TOTAL	2 7	9							9				
17	R6	Brick Work	LOCAL NON LOCAL INDIAN TOTAL	2 12	14			5	2			7				
18	R6	Drain Rise	LOCAL NON LOCAL INDIAN TOTAL	2 8	6	8		2	2			4				
19	R12	Drain Rise	LOCAL NON LOCAL INDIAN TOTAL	3 6	9	11		2				7				
20	T1114C	Crossing	LOCAL NON LOCAL INDIAN TOTAL	3 11	8	11		5				6				
21	R6	Kerb Stone	LOCAL NON LOCAL INDIAN TOTAL	2 11	9	11						5	3			
22	R5	Prime	LOCAL NON LOCAL INDIAN TOTAL	2 8	6	8						10	3			
23	R101	Asphalt	LOCAL NON LOCAL INDIAN TOTAL	3 13	10	13										



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

**1.General Information**

Subproject: -RUDP/ICB/BRT/2

on Group/International Engineering Co pvt Beijing China.

S.NO	LOCATION	TYPES OF WORK	TYPES OF WORKERS			LABOUR		COMPOSITION		ETHNIC COMPOSITION				Month/Year: - Oct. 2020
			LOCAL	NON LOCAL	INDIAN	SKILLED	UNSKILLED	MALE	FEMALE	JANJATI	DAUIT	MUSUM	MADHESI	
24	RS	Brooming				4	12	16					16	BRAHMIN/CHHETRI
						16								



**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: Oct. 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	Pichra	
3.2	First aid facilities available at camp and worksites	Shanti Chowk, Khosi Project	
3.3	Drinking water supply and sanitation facilities/ pit latrines	Yes	
3.4	Waste Disposal and Management facilities	Tap water/ Hand Pump	
3.5	Type of fuel used for cooking	Yes 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	No any disturbance to	





4.4	movement Use of private land and agreement with land owners	pedestrians & traffic movement Yes	
5	<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	
6	<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	
7	<b>Impact/Disruption of Private properties</b>		
7.1	Building structures	Not Applicable	
7.2	Other utilities	Not Applicable	
8	<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	
9	<b>Sites for cultural and religious values</b>		
9.1	Cultural and religious sensitive spots (if any)	Not Applicable	
10	<b>Forest and vegetation</b>		
10.1	Number of trees removal	00	
10.2	No of tree plantation (Roadside)	Not Applicable	
11	<b>Accident cases and records</b>	No any records	
12	<b>Employment to local people</b>		
12.1	Men and women	Yes, both men and women	
12.2	Child labor (if any)	No	
13	<b>Establishment of Safeguard desk and meeting</b>	Yes	
14	<b>Grievances from local people and addressed</b>	Yes	



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

Subproject Road : -RUDP/ICB/BRT/2

Month/Year: Oct 2020

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

Contract Package: RUDP/ICB/BRT/2

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

Prepared by:



Verified by:



Monitored by:





**Contractors' Staff Name List**

SN.	Name	Position	Contact No	Remarks
1	Ravindra kumar Thakur	CM	9801159860	
2	Dhirendra Yadav	Engineer	9801225283	
3	Randhir Singh	Engineer	9801159918	
4	Pradeep Yadav	Engineer	9801159896	
5	Jibachha Sah	Engineer	9805932183	
6	Dhirendra yadav jr	Engineer	9805913881	
7	Aanand Rayamajhi	Engineer	9801157317	
8	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	Raj kr Mukhiya	LT		
18	Bishnu Hari Khanal	Chief Accountant	9801157314	
19	Jarman Nepal	Assistant Accountant	9801159919	
20	Narsingh Bhandari	Vehicle incharge	9801157318	
21	Madan Bhattarai	Store Keeper	9801159634	
22	Niraj Mandal	Supervisor	9801160169	
23	Rabin Mandal	Supervisor		



**Contractors' Equipments List**

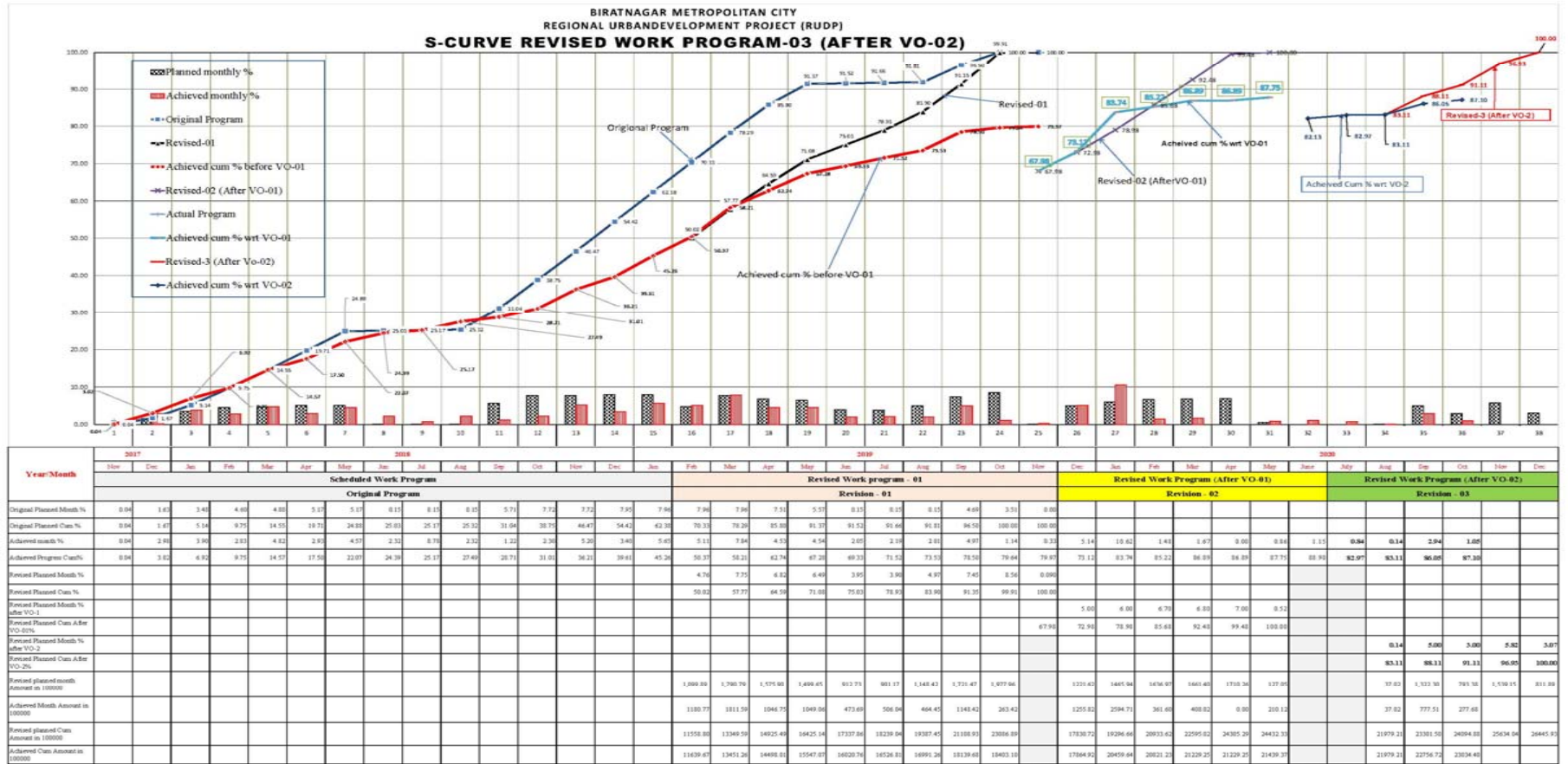
S.N	Equipment Type and Characteristics	ZHONGHENG CONSTRUCTION GROUP
1	Excavator	1
2	Backhoe Loader	5
3	Asphalt plant of adequate capacity	1
4	Asphalt pavers	1
5	Vibrating roller	4
6	Pneumatic tyre roller 8 to 10 ton	1
7	Smooth wheeled roller 8 to 10 ton	1
8	Tipper	4
9	Crane	1
10	Grader	2
11	Bitumen distributor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



ANNEX-5: S-Curve

**(ATTACHED)**





Note: Our Claim for Extension of Time will be remained valid as per contract till everything normalizes which occurred due to COVID-19.





## Annex-6: Master Plan of RUDP Project



