

ORIGINAL



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

*in joint Venture with*

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

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

## **Monthly Progress Report**

**Regional Urban Development Project (RUDP)**

**Project Implementation Unit**

**Biratnagar, Nepal**



***August 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	28th August 2017
Date of Commencement of Design and Supervision Consulting Service	6th September 2017
Date of Completion	5th September 2020
VO and EOT	Revised VO and EOT has been submitted to the employer for approval on dated 28 <sup>th</sup> August 2020
<b><u>The Contractor:</u></b>	
Contractor	ZHONGHENG Construction Group International Engineering Co Ltd. Beijing, China.
Date of Agreement Made	10 <sup>th</sup> October 2017
Date of Commencement	2 <sup>nd</sup> November 2017
Date of Completion (Scheduled)	1 <sup>st</sup> November 2019
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)	79.99%
Sewer Line	99.46%
Storm Drain	100.00%
Road Side Drain	94.18%
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: 83.11%, Actual: 83.11%; Lead (+) or Lag (-) by (-) 0.00%;</b></p> <p>Work progress is lagging due to lockdown imposed by BMC across the metropolis and prohibitory order imposed by District Administrative office due to pandemic "COVID – 19" as Cases of COVID-19 has continued to surge along with fatalities in the region:</p> <ul style="list-style-type: none"> <li>Biratnagar Metropolitan City office has re-imposed lockdown across the metropolis starting from Saturday 1<sup>st</sup> August, 2020 till 14<sup>th</sup> August, 2020 through letter dated 31<sup>st</sup> July 2020 and further extended till 21<sup>st</sup> August 2020 through letter dated 13<sup>th</sup> August 2020 after the number of coronavirus cases increased.</li> <li>District Administration office (DAO), Morang has issued prohibitory order for five days starting from 22 August, 2020 to 26 August 2020 through letter dated 21<sup>st</sup> August 2020 which is further extended to 1 September 2020 through letter dated 26<sup>th</sup> August 2020 until further notice.</li> </ul>
Financial Progress up to date ( <i>on the basis of IPC forwarded for</i>	In Percentage: <b>81.75%</b> , In Figure: NRs. <b>2,443,046,598.82</b> (including VAT and PS) up to IPC –17 wrt to VO-2.



General Features	
<i>disbursement)</i>	<b>In Words:</b> NRs. Two Billion Four Hundred Forty Three Millions Forty Six Thousand Five Hundred Ninety Eight and Eighty Two Paisa Only.

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

S.No	Description	Unit	Revised Quantity	Progress up to date	Remaining	Progress Status expressed in (%)	Remarks
1	Sewer Line						
a	HDPE/RCC	m	18,559.80	18,459.80	100.00	99.46%	w.r.t VO-2
b	Manhole	No.	606.00	604.00	2.00	99.67%	
c	Sewer Inlet	No.	1,010.00	564.00	446.00	55.84%	
d	House Connection	No.	3,784.00	2,215.00	1,569.00	58.54%	
2	Storm Water Drain						
a	RCC Drain	m	585.00	585.00	-	100.00%	w.r.t VO-2
b	Piles	No.	138.00	138.00	-	100.00%	
3	Road						
a	Subgrade	m	74,573.60	63,945.09	10,808.51	85.75%	w.r.t VO-2
b	Sub base	m	74,573.60	63,672.09	11,127.51	85.38%	
c	Base	m	74,573.60	61,496.49	13,077.11	82.46%	
d	Prime	m	74,573.60	59,651.29	14,922.31	79.99%	
e	Asphalt	m	74,573.60	59,651.29	14,922.31	79.99%	
4	Road Side Drain	m	39,200.69	36,918.01	2,282.68	94.18%	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
<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	2215.00	3.00	2,218.00	58.61



### 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 Baari Nala)	652.89	585.00	585.00		585.00	585.00	100% Completed
2	CN2-CN3 (Chyangh Baari Nala)	132 Nos. of piles	138 Nos. of piles	138 Nos. of piles		138 Nos. of piles		100% Completed

### 3.1.3. ROADS AND LANES

Most of the roads/lanes in Biratnagar are in a poor state due to lack of periodic maintenance, and need improvement where as some of the roads are graveled and would benefit from upgrading. In the areas where drainage and sewerage works are proposed, there will be significant impact on the existing roads. The Project has considered on design based on reinstatement, rehabilitation and upgrading of existing roads length 74.57 km as per VO-02. Some of the roads of the project have been completed and some of them are in the process of being upgraded.

Out of 74.57 km. about 63.67 Km. has been attempted for Sub Base. About 59.65 km. Asphalt work has been completed. The summary of physical progress of flexible pavement, rigid pavement and footpaths are as tabulated in Table 4, 4.1 & 4.2 below: -



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

SN	Road Number	Name of Road	Work Completed								Remarks
			Progress		Total	Sub-base	Base	Asphalt	RCC	Paint	
			Previous	This Month		m	m	m	m	m	
1	R42	Bhagwati Marg	229.00		229.00	229.00	229.00	229.00			
2	R5	College Road	594.00		594.00	594.00	594.00	594.00			
3	R5	Chulachuli Road	196.00		196.00	196.00	196.00	196.00			
4	R5	Transprtation Line	377.20		377.20	377.20	377.20	377.20			
5	R65	Satghumti Marg	320.00		320.00	320.00					
6	R107		167.00		167.00	167.00	167.00	167.00			
7	R104	VIP Marg	275.00		275.00	275.00	275.00	275.00			
8	R8(R3 to Devkota)	Madhumara Marg	920.00		920.00	920.00	920.00	920.00		358.40	
9	B1	Kanchan Marg	1,181.10		1,181.10	1,181.10	1,181.10	1,181.10		1,106.00	
10	R21	Pratibha Marg	1,490.10		1,490.10	1,490.10	1,490.10	1,490.10		1,012.80	
11	B3	Keshaliya Marg	1,623.20		1,623.20	1,623.20	1,623.20	1,623.20			
12	S13		1,724.20		1,724.20	1,724.20	1,724.20	1,724.20		1,812.60	
13	R12	Brikuti to Keshalya	844.20		844.20	844.20	844.20	844.20			
14	R12	Kanchha Dai Marg	900.00		900.00	900.00	900.00	700.00			



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



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



SN	Road Number	Name of Road	Work Completed								Remarks
			Progress		Total	Sub-base	Base	Asphalt	RCC	Paint	
			Previous	This Month		m	m	m	m	m	
46	R113	Kavi Lekh Marg	746.20		746.20	746.20	746.20	746.20			
47	R5(Branch Road)		57.60		57.60	57.60	57.60	57.60			
48	R3	Dharamban Marg	2,254.10		2,254.10	2,254.10	2,254.10	2,254.10		2,080.30	
49	R3 -(T3 Family planning to DUDBC)		337.00		337.00	337.00	337.00	337.00			
50	R84	West of school	237.00		237.00	237.00	237.00	237.00			
51	R84		248.90		248.90	248.90	248.90	248.90			
52	R85	Machha Line	153.80		153.80	153.80	153.80	153.80			
53	R87	Mahabir Chowk	234.20		234.20	234.20	234.20	234.20			
54	R86	Petrol pump side - R12	191.50		191.50	191.50	191.50	191.50			
55	R11	R18/R86	204.10		204.10	204.10	204.10	204.10			
56	N3	Jatuwa	122.00		122.00	122.00	122.00	122.00			
57	N4(R16 to R21)	Jatuwa	168.80		168.80	168.80	168.80	168.80			
58	R10	R35 to R76	670.80		670.80	670.80	670.80	670.80		853.20	
59	T2L26F	APF	55.00		55.00	55.00					
60	T2L27		75.00		75.00	75.00	75.00	75.00			
61	R122										





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



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



SN	Road Number	Name of Road	Work Completed							Remarks	
			Progress		Total	Sub-base	Base	Asphalt	RCC		Paint
			Previous	This Month		m	m	m	m		m
			171.90		171.90	171.90	171.90	171.90			
93	T3L23C	North to Jay Nepal	87.00		87.00	87.00	87.00	87.00			
94	T3L25B		285.00		285.00	285.00	285.00	285.00			
95	T3L25C		140.00		140.00	140.00	140.00	140.00			
96	R3(T3 Trunk)	Tinpaini to Sanihat	680.00		680.00	680.00	680.00	680.00			
97	Nagmandir to R3		55.00		55.00	55.00	55.00	55.00			
98	R4		760.00	100.00	860.00	760.00	760.00	760.00			
99	R75		137.00		137.00	137.00	137.00	137.00			
100	R43		329.40		329.40	329.40	329.40	329.40			
101	T219P		124.80		124.80	124.80	124.80	124.80			
102	T219Q		113.70		113.70	113.70	113.70	113.70			
103	R106		195.00		195.00	195.00	195.00	195.00			
104	T3L12		80.00		80.00	80.00	80.00	80.00			
105	R46		610.00		610.00	610.00	610.00	610.00			
106	T3L11E		124.55		124.55	124.55	124.55	124.55			
107	T3L13D		70.00		70.00	70.00	70.00	70.00			



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



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



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



SN	Road Number	Name of Road	Work Completed								Remarks
			Progress		Total	Sub-base	Base	Asphalt	RCC	Paint	
			Previous	This Month		m	m	m	m	m	
154	T2Line11N		65.00		65.00	65.00	65.00	65.00			
155	R6	Siddhartha to R46	130.00		130.00	130.00	130.00				
156	R100 (T2Line 22B)		150.00		150.00	150.00	150.00				
157	T3 Trunk Line	Devkota to Family Planning	340.00		340.00	340.00	340.00	340.00			
158	T3Line25A		302.00		302.00	302.00	302.00				
159	T3 Line23C		90.00		90.00	90.00	90.00	90.00			
160	R10		180.00		180.00	180.00					
161	T2 Line18K		76.00		76.00	76.00	76.00	76.00			
162	R47	Matrika Marga	322.00		322.00	155.00	155.00	155.00			
163	T3 Line22 (Devkota chowk to NRB)		190.00		190.00	190.00	190.00	190.00			
164	R26	East of R3	324.00		324.00	324.00	324.00	324.00			
165	R27	East of R3	186.00		186.00	186.00	186.00	186.00			
166	N33	Parichaya Marga	194.50		194.50	194.50	194.50	194.50			
167	T3Line10C	Green cross Line	100.00		100.00	100.00	100.00	100.00			
168	N23		75.00		75.00	75.00	75.00	75.00			





SN	Road Number	Name of Road	Work Completed								Remarks
			Progress		Total	Sub-base	Base	Asphalt	RCC	Paint	
			Previous	This Month		m	m	m	m	m	
169	R10		181.00		181.00	181.00					
170	R15		340.00		340.00	340.00	340.00	286.00			
171	T3 Trunk	DUDBC off to Sanihat	231.70		231.70	231.70	231.70	231.70			
172	R16	East of Dharambad	218.10		218.10	218.10	218.10	218.10			
173	T3Line10	Green cross Line	184.20		184.20	184.20	184.20	140.00			
174	T2Line19B		148.00		148.00	148.00	148.00				
175	T3Line13C	Kumari Mill Line	229.30		229.30	229.30	229.30	229.30			
176	T2Line22A	Indreni Marga	382.00		382.00	382.00	382.00	260.00			
177	T2Line19W	Near Parichaya Marga	58.80		58.80	58.80					
178	R23		227.00		227.00	227.00	227.00	227.00			
179	R11	Om Shanti Marga	317.00		317.00	317.00					
180	R6	Shital Yadav Clinic Road	180.00		180.00	150.00					
181	R64		123.00		123.00	123.00					
182	R13				226.00	226.00					
183	T2Line18D(N19)			80.00	80.00						
	Total		63,765.09	180.00	63,945.09	63,672.09	61,496.49	59,651.29	210.00	18,395.30	



**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	63,765.09	180.00	63,945.09	85.75%
2	Sub Base	m	74,573.60	63,446.09	226.00	63,672.09	85.3%
3	Base	m	74,573.60	61,496.49		61,496.49	82.46%
4	Prime/Tack	m	74,573.60	59,651.29		59,651.29	79.99%
5	Asphalt	m	74,573.60	59,651.29		59,651.29	79.99%

### 3.1.4. ROAD SIDE DRAIN

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

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

SN	Road Number	Name of Road	Length in (m)			Work Completed		Remarks
			Progress		Total	Brick	RCC	
			Previous	This Month		m	m	
1	B1	Kanchan Marg	45.00		45.00	45.00		
2	R29	Shanti Marg	256.52		256.52	256.52		
3	N36		185.88		185.88	185.88		
4	R8		219.83		219.83	219.83		
5	R7	Devi Marg and Pipal Marg	89.76		89.76	89.76		
6	R63	DSP Road	418.79		418.79	418.79		



SN	Road Number	Name of Road	Length in (m)			Work Completed		Remarks
			Progress		Total	Brick	RCC	
			Previous	This Month		m	m	
7	R9	Baglamukhi path	103.20		103.20	103.20		
8	S13	Udaya Marga	79.05		79.05	79.05		
9	N33		60.00		60.00	60.00		
10	R28	Pustakalaya Marg	139.00		139.00	139.00		
11	R90	Shakti Marg	377.30		377.30	377.30		
12	R114	Dharanidhar Marg	312.32		312.32	312.32		
13	R11	Om Shiv Marg	204.25		204.25	204.25		
14	R18		389.50		389.50	389.50		
15	R17		372.00		372.00	372.00		
16	R113	Kavi Lekhnath Marg	157.15		157.15	157.15		
17	R77	Arniko Marg	80.00		80.00	80.00		
18	R76	Mitra Marg	270.00		270.00	270.00		
19	N9	Devi Marga	222.58		222.58	222.58		
20	N4		162.20		162.20	162.20		
21	R33	Tarun Marg	283.15		283.15	283.15		
22	R36	Gaurav Marg	221.80		221.80	221.80		
23	R86	Janpath Marg	192.15		192.15	192.15		
24	R183	Nava Jyoti Marg	219.40		219.40	219.40		
25	R7a		67.35		67.35	67.35		
26	Rani site	Rani B	365.33		365.33	365.33		
27	Rani site	Rani A	271.50		271.50	271.50		
28	N3		126.25		126.25	126.25		
29	N5		65.00		65.00	65.00		
30	R21	Binayak Marga	194.13		194.13	194.13		



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



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





SN	Road Number	Name of Road	Length in (m)			Work Completed		Remarks
			Progress		Total	Brick	RCC	
			Previous	This Month		m	m	
77	T2L24F		115.50		115.50	115.50		
78	R105		86.00		86.00	86.00		
79	R34	Prabhu Marg	158.35		158.35	158.35		
80	R35	Garima Marg	140.00		140.00	140.00		
81	R107		160.00		160.00	160.00		
82	T3L13D		70.63		70.63	70.63		
83	T3L13E		62.40		62.40	62.40		
84	T3L11E		110.00		110.00	110.00		
85	B2		210.00		210.00	210.00		
86	R78		35.00		35.00	35.00		
87	T3L21B		70.00		70.00	70.00		
88	T3L21A		50.00		50.00	50.00		
89	R74		96.00		96.00	96.00		
90	R46, (T3L7 and T3L22)	Rangeli Road	400.00		400.00	400.00		
91	T3L7A		125.00		125.00	125.00		
92	T3L8		75.00		75.00	75.00		
93	R5, (T2 L24)	Gudari Marga	274.00		274.00	274.00		
94	R82		190.00		190.00	190.00		
95	T1L13A		100.00		100.00	100.00		
96	T1L14A		150.00		150.00	150.00		
97	R68		200.00		200.00	200.00		
98	T3L22A		335.00		335.00	335.00		
99	T3L22B		120.00		120.00	120.00		
100	T3L25C		130.00		130.00	130.00		



SN	Road Number	Name of Road	Length in (m)			Work Completed		Remarks
			Progress		Total	Brick	RCC	
			Previous	This Month		m	m	
101	T3L11B		71.00		71.00	71.00		
102	T3L11M		82.00		82.00	82.00		
103	R106		70.00		70.00	70.00		
104	R41		520.00		520.00	520.00		
105	T2L19B		130.00		130.00	130.00		
106	R30		180.00		180.00	180.00		
107	T3L13C		300.00		300.00	300.00		
108	T3L13J		72.53		72.53	72.53		
109	T2L18Y		100.00		100.00	100.00		
110	T2L19P		114.38		114.38	114.38		
111	T2L19Q		126.55		126.55	126.55		
112	R9A		109.30		109.30	109.30		
113	R9B		85.00		85.00	85.00		
114	T2L18K		74.70		74.70	74.70		
115	T3L23C		105.00		105.00	105.00		
116	T2L24E	Mahabir Marga	216.00		216.00	216.00		
117	R44		700.00		700.00	700.00		
118	R110		250.00		250.00	250.00		
119	Parichaya Marga		190.00		190.00	190.00		
120	T3L25B		195.00		195.00	195.00		
121	T1L5, 5A		590.00		590.00	590.00		
122	T2L19Y		150.00		150.00	150.00		
123	T3 Trunk		1,555.08		1,555.08	1,555.08		
124	T2L19F		118.00		118.00	118.00		
125	T2L18D		75.00		75.00	75.00		



SN	Road Number	Name of Road	Length in (m)			Work Completed		Remarks
			Progress		Total	Brick	RCC	
			Previous	This Month		m	m	
126	R19		226.00		226.00	226.00		
127	R83	Shiva Marga	370.00	40.00	410.00	370.00		
128	T3L10B, T3L7D (R46)	Rangeli Road	400.00		400.00	400.00		
129	T2L19G		60.00		60.00	60.00		
130	R4 (T2 Trunk)	Jatuwa Marga	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		475.00	475.00		
142	R8 (b)	Sahayogi Marga	65.00		65.00	65.00		
143	T1L7A	Piyush Marga	70.00		70.00	70.00		
144	T1L7B		70.00		70.00	70.00		
145	T1L7C		70.00		70.00	70.00		
146	T1L8C		70.00		70.00	70.00		
147	R39	Maisthan Marga	100.00		100.00	100.00		
148	N7	Amar Marga	130.00		130.00	130.00		
149	N8	Amar Marga	160.00		160.00	160.00		
150	R26	Amar Marga	290.00		290.00	290.00		



SN	Road Number	Name of Road	Length in (m)			Work Completed		Remarks
			Progress		Total	Brick	RCC	
			Previous	This Month		m	m	
151	T3L25A	Bhakti Marga	280.00		280.00	280.00		
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	115.00		115.00	115.00		
159	T2L19K	Sundar Marga	207.00		207.00	207.00		
160	T2L19o		35.00		35.00	35.00		
161	T3L26E	R29 Branch 3		230.00	230.00			
162	T1L16C	CPN-UML office opposite		30.00	30.00			
163	T1L17	R181---R90		80.00	80.00			
164	R70	Himalaya Road		35.00	35.00			
	<b>Total</b>		<b>36,503.01</b>	<b>415.00</b>	<b>36,918.01</b>	<b>35,458.01</b>	<b>1,460.00</b>	



### 3.2. ENVIRONMENTAL ASPECT

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

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

#### 3.2.1. BORROW/ QUARRY SITES

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

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

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

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

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

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

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

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



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

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

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

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

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

### **3.2.4. CRUSHING PLANTS**

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

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

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

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

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

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

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

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

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



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

A regular monitoring visit by DSC was carried out and a standard site specific environmental monitoring checklist was used to record the present status of the project to verify if work has been done as per EMP Guidelines. A sample of environmental checklist is attached herewith as Annex. Also the contractor has been instructed to update the OHS 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 (6 numbers) at Construction sites, thus Contractor was instructed as follow:

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

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

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

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

- i. Efforts are being made to control dust emission at construction site by sprinkling water. As personal safety was given prime importance, construction workers were made to use helmet, globe and jacket while on the construction site.
- ii. Besides that, special attentions were given on the placement of safety board and traffic signboards, safety tools, barricades, tapes, etc. and special care were taken to make sign boards big enough to make them visible from distant.
- iii. Taking into consideration of the fact that the involvement of the significant numbers of female as employee in ADB project is the main project objective of ADB, contractor paid especial attention to have a separate toilet and separate labor camp for female that facilitates and encourages female to get work in the construction field.
- iv. Significant improvement was found to be done in health and sanitation issues in the labor camp than in the previous monitoring visit; like, quality and quantity of drinking water was improved and condition of toilet was found to be enhanced. However, to meet the sanitation condition to predetermined level, further instructions were given by contractor to make provision for sufficient water in toilet and soap for hand-wash. Furthermore, yard in charge was suggested to have sufficient medications, bandages and other necessary first aid equipment's.
- v. Efforts are being made to control the spread of virus, TL, Mr. Chand strictly instructed to obey protocol of GoN & Local governance. Frequently, organizing the awareness program and training on how to fight against CORONA Virus (COVID-19). Emphasized on how to use PPE, 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, no new works 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	16	38	54	0	10	5	6	33	0
Non local	0	0	0	0	0	0	0	0	0
Indian	0	0	0	0	0	0	0	0	0
<b>TOTAL</b>	<b>16</b>	<b>38</b>	<b>54</b>	<b>0</b>	<b>10</b>	<b>5</b>	<b>6</b>	<b>33</b>	<b>0</b>



### 3.5. FINANCIAL PLAN

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

#### 3.5.1. DISBURSEMENT RECORDS IN CONSTRUCTION

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

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



			May 2019		
10	IPC 10	11 <sup>th</sup> July 2019	1 <sup>st</sup> June 2019 to 30 <sup>th</sup> June 2019	67,863,056.59	
11	IPC 11	30 <sup>th</sup> September 2019	1 <sup>st</sup> July 2019 to 30 <sup>th</sup> September 2019	95,296,297.30	
12	IPC 12	3 <sup>rd</sup> November 2019	1 <sup>st</sup> October 2019 to 31 <sup>st</sup> October 2019	53,113,369.86	
13	IPC 13	30 <sup>th</sup> November 2019	4 <sup>th</sup> June 2019 to 30 <sup>th</sup> June 2019	125,965,923.87	
14	IPC 14	31 <sup>st</sup> December 2019	1 <sup>st</sup> December 2019 to 31 <sup>st</sup> December 2019	63,509,092.84	
15	IPC 15	4 <sup>th</sup> February 2020	1 <sup>st</sup> Jan 2020 to 31 <sup>st</sup> Jan 2020	232,027,037.24	
16	IPC 16	1 <sup>st</sup> March 2020	1 <sup>st</sup> Feb, 2020 – 29 <sup>th</sup> Feb, 2020	102,186,834.62	
17	IPC 17	1 <sup>st</sup> July 2020	1 <sup>st</sup> March, 2020 – 30 <sup>th</sup> June, 2020	153,448,663.15	
<b>Total amount excluding PA &amp; Mobilization advance till date =</b>				<b>2,443,046,598.82</b>	

**Note:**

- The contractor requested for cost claim under various categories like idle manpower, idle equipment, interest on delay payment, works hampered due to events occurred during various Banda, site possession not available on time and disputes of right of way pursue to clause 2.1, 8.4, 14.8 and 20.1 of GCC/PCC and those are under perusal. The contractor further claimed for the time and cost on assumption that as the work progress is negligible wrt planned one due to lockdown. BMC imposed lockdown till 21<sup>st</sup> August, 2020 followed by prohibitory order imposed District Administration Office, Morang till 1<sup>st</sup> September 2020 until next notice.
- Physical progresses are lagging due to lockdown followed by prohibitory order, unavailability of sufficient pass/permit, stocks of materials and rainy season, etc so that we focus mainly on maintenance works which minimize the risks of waterlogging and facilitate the traffic movement in improved approaches. Also help to finish the incomplete works.
- Revised EOT and VO of the consultant submitted to the employer on 28<sup>th</sup> August, 2020 to peruse and further action toward approval from the concerned authorities.



## 4. OBJECTIVES AND SCOPE OF WORKS

### 4.1. OBJECTIVES

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

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

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

### 4.2. SCOPE OF WORKS

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

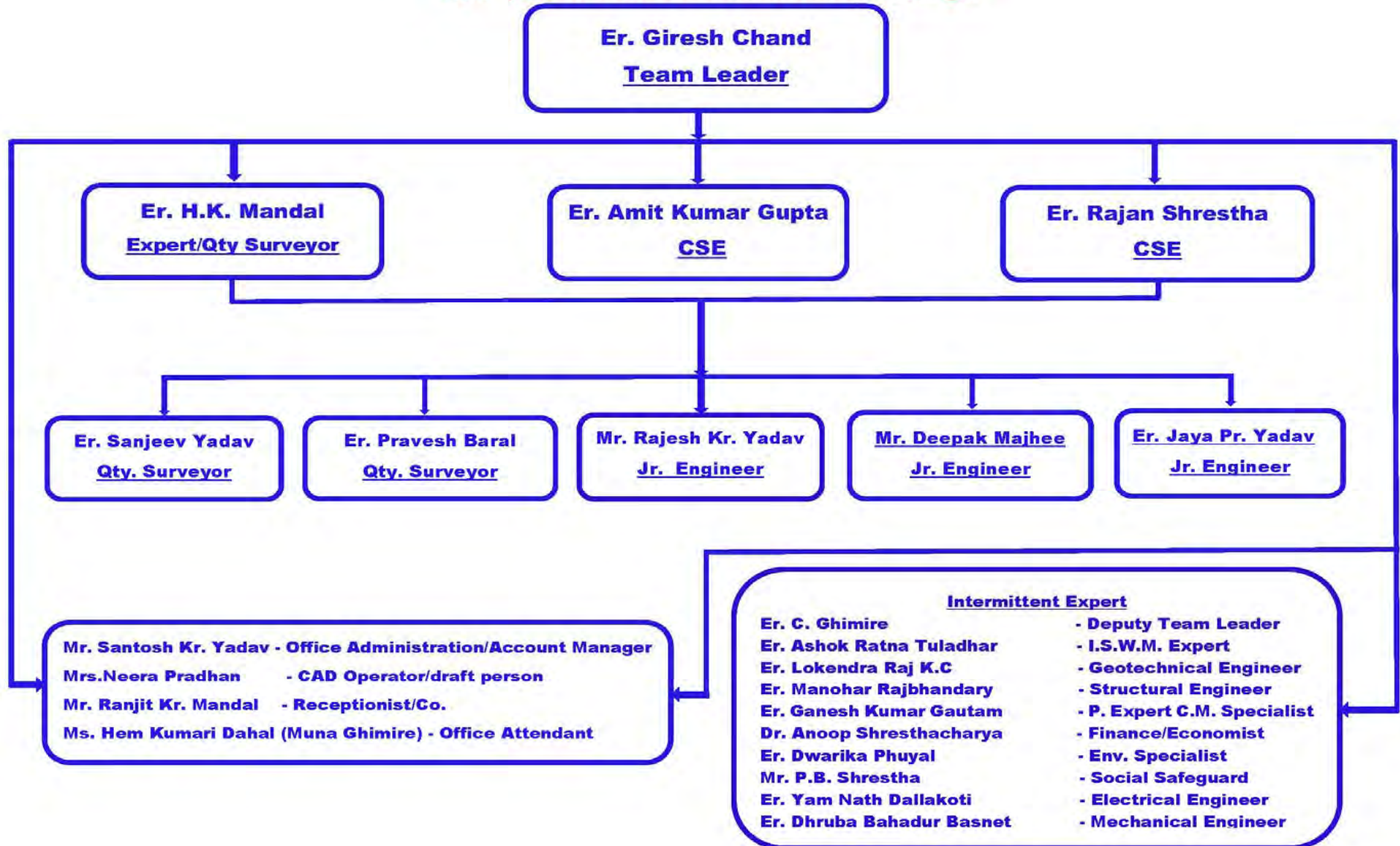
- Detailed Design and Procurement Assistance Phase for integrated solid waste management design (ISWM)
- Monthly progress report and quarterly progress report.
- Semi- annual Environmental monitoring report.
- Semi-annual Safeguard monitoring report.
- Annual progress report including annual Environmental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

#### 4.3. ORGANIZATION AND STAFFING

Attached



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



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

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

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

SN	Name	Designation	Joining date	Remarks
1	Mr. 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 Majhi	Junior Engineer-4	1 <sup>st</sup> March 2018	
16	Mrs. Neera Pradhan	CAD operator/Draft Person	10 <sup>th</sup> Dec 2017	
17	Mr. Yubraj Poudel	Driver	10 <sup>th</sup> Feb-2019	





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

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

## 5. PROGRESS OF SUB – PROJECT COMPONENTS

### 5.1. CONSTRUCTION MATERIALS

Before using any construction material in the project, as per clause 7.3, engineer gave prior notice to contractor for joint inspection of the construction materials and all materials have been jointly checked and verified. Team leader issued letter to contractor to do the lab test of the construction materials from the authorized organizations and lab reports of the tested materials have been submitted by contractor. Engineer has emphasized on the production of the pre-cast item like (Kerb stone, drain cover slab, manhole etc.) for better work progress of the project. The Contractor has established three production yards at Koshi project and Madhumara camp for pre-cast items like Kerb stone, drain cover slab, sewer precast elements, etc. But as more than 80% work done wrt VO-2 so that the production yard at Koshi project has been closed but production at Madhumara camp is going on.

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

### 5.2. PROGRESS ACHIEVED TILL DATE

Month	Target This Month		Achievement This Month		Leading		Lagging		Remarks
	Monthly	Accumulated	Monthly	Accumulated	Monthly	Accumulated	Monthly	Accumulated	
July-18	0.15%	25.17%	0.78%	25.18%	0.63%	0.01%			Leading
August-18	0.15%	25.32%	2.32%	27.50%	2.17%	2.18%			Leading
September-18	5.71%	31.03%	1.22%	28.72%				-2.31%	Lagging
October-18	7.72%	38.75%	2.30%	31.03%				-7.72%	Lagging
November-18	7.72%	46.47%	5.20%	36.22%				-10.25%	Lagging
December-18	7.95%	54.41%	3.40%	39.62%				-14.79%	Lagging
January-19	7.96%	62.37%	5.65%	45.27%				-17.10%	Lagging
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

### 5.3. KEY EVENTS

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

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

S. No.	Date	Activities/Events	Remarks
1		<ul style="list-style-type: none"> <li>Contractor has executed very less work due to lockdown followed by prohibitory order issued by BMC and DAO, Morang respectively as the cases increased due to Corona Virus</li> <li>Biratnagar Metropolitan City office has re-imposed lockdown across the metropolis starting from Saturday 1<sup>st</sup> August, 2020 till 14<sup>th</sup> August, 2020 through letter dated 31<sup>st</sup> July 2020 and further extended till 21<sup>st</sup> August 2020 through letter dated 13<sup>th</sup> August 2020 after the number of coronavirus cases increased.</li> <li>District Administration office (DAO), Morang has issued prohibitory order for five days starting from 22 August, 2020 to 26 August 2020 through letter dated 21<sup>st</sup> August 2020 which is further extended to 1 September 2020 through letter dated 26<sup>th</sup> August 2020 until further notice.</li> <li>The consultant asked the Contractor to submit Standard Operating Procedure (SoP) for Covid-19 Risk Management at workplace via. Letter ref No.: rudpbdbabt/tl 2020- 516 on 24<sup>th</sup> July 2020 &amp; as discussed.</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		88,951.00		88,951.00	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	



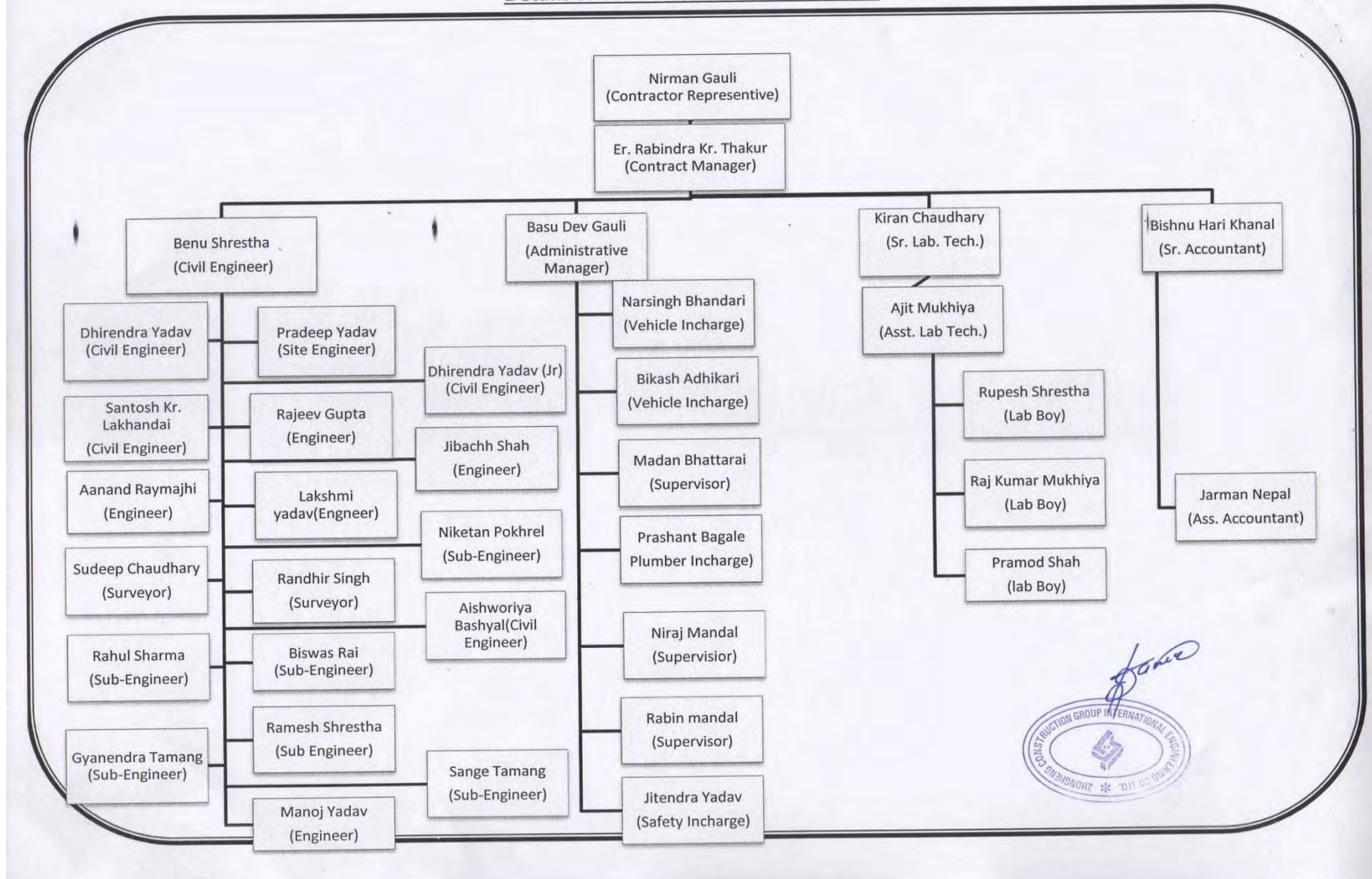
**Table 11: PHYSICAL PROGRESS in PRODUCTION/PURCHASE OF HDPE Pipe till date.**

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

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

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

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



## 7. CONTRACTOR'S MANPOWER

Table 13: CONTRACTOR'S KEY STAFFS.

S. No.	Position	Minimum Number Required as per Contract	ZHONGHENG CONSTRUCTION Group	Remarks
1	Project / Contract Manager (1 No) 15/10 Yrs. (Total / Similar Exp.)	1	1	
2	Civil Engineer-10/6	2	2	
3	Sanitary Engineer - (1no.) -12/8	1	-	
4	Road Engineer-(1no.) -12/8	1	1	
5	Electromechanical Engineer - (1no) - 10/5	1	-	
6	Safety Engineer	-	1	
7	Site Engineer	-	8	
8	Sub- Engineer	-	6	
9	Accountant	-	2	
10	Lab Technician	-	1	
11	Store Keeper	-	1	
12	Vehicle In charge	-	2	
13	Skilled Labors		16	
14	Unskilled Labors		38	





## 8. CONTRACTOR'S EQUIPMENT

**Table 14: CONTRACTOR'S EQUIPMENT**

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





S. No.	Equipment Type and Characteristics	Min Number required as per Contract	ZHONGHENG CONSTRUCTION Group	Remarks
	station with accessories)			
17	Theodolite	1	-	
18	Levelling	2	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.
- 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.
- The contractor claimed for time & cost pursuant to relevant clauses of the contract which are under perusal, District Administration Office (DAO) extended the prohibitory order from 27<sup>th</sup> August 2020 to 1<sup>st</sup> September 2020 until further notice.



## ANNEX-1: Photographs of August 2020





Subgrade preparation work at T2Line19K (Sudhaar Marga)



Sampling for MDD and OMC at T1Line7B





Drain works at R83



A view of road at R2 (near Aagan Hotel)

## ANNEX-2: Minutes of Meeting August 2020

**Several meeting has been arranged on virtual media:**

- Orientation Webinar on SOP for COVID-19 Risk Management at Workplace- 22 July 10:30-11:30AM via. MS Team,
- Review meeting on 24<sup>th</sup> August 2020, etc.



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













[illegible]





### Summary Sheet of Field Density Test

Month	August
Year	2020

Type of Material	Sub-Grade
------------------	-----------

density(gm/cc)	Compaction %

<p style="text-align: center;"><b>Contractor</b></p> <p style="text-align: center;">ZHONGHENG CONSTRUCTION GROUP INTERNATIONAL ENGINEERING CO. LTD</p>	<p style="text-align: center;"><b>Consultant</b></p> <p style="text-align: center;">BUILDING DESIGN AUTHORITY (P) LTD IN JOINT VENTURE WITH B.N. CONSULTANCY PVT. LTD AND PLUS ENGINEERS &amp; ARCHITECTS (P) LTD, KATHMANDU, NEPAL</p>
<p style="text-align: center;"><i>[Signature]</i></p> <p style="text-align: center;">Checked By Engineer Dhirendra yadav</p>	<p style="text-align: center;"><i>[Signature]</i></p> <p style="text-align: center;">Submitted By Contract Manager Rabindra Kr Thakur</p> <p style="text-align: center;"><i>[Signature]</i></p> <p style="text-align: center;">Verified By Export Qty Surveyor/CSE H.K. Mandal/Rajan Shrestha</p> <p style="text-align: center;"><i>[Signature]</i></p> <p style="text-align: center;">Approved By Team Leader Giresch Chand</p>











## 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		August		
							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	R-111	MR-2798	Ambe Hi-tech	OPC	Chisang Khola	5-Jul-20	12-Jul-20	2-Aug-20		9.17	7.5
2	T1L7	MR-2799	Ambe Hi-tech	OPC	Chisang Khola	5-Jul-20	12-Jul-20	2-Aug-20		9.84	7.5
3	R-111	MR-2800	Ambe Hi-tech	OPC	Chisang Khola	6-Jul-20	13-Jul-20	3-Aug-20		9.17	7.5
4	T1L17	MR-2801	Ambe Hi-tech	OPC	Chisang Khola	6-Jul-20	13-Jul-20	3-Aug-20		8.63	7.5
5	R-83	MR-2802	Ambe Hi-tech	OPC	Chisang Khola	7-Jul-20	14-Jul-20	4-Aug-20		8.77	7.5
6	T1L7	MR-2803	Ambe Hi-tech	OPC	Chisang Khola	7-Jul-20	14-Jul-20	4-Aug-20		9.57	7.5
7	T1L17	MR-2804	Ambe Hi-tech	OPC	Chisang Khola	8-Jul-20	15-Jul-20	5-Aug-20		8.36	7.5
8	R-111	MR-2805	Ambe Hi-tech	OPC	Chisang Khola	8-Jul-20	15-Jul-20	5-Aug-20		9.71	7.5
9	R-83	MR-2806	Ambe Hi-tech	OPC	Chisang Khola	8-Jul-20	15-Jul-20	5-Aug-20		9.98	7.5
10	T1L7	MR-2807	Ambe Hi-tech	OPC	Chisang Khola	9-Jul-20	16-Jul-20	6-Aug-20		9.04	7.5
11	R-83	MR-2808	Ambe Hi-tech	OPC	Chisang Khola	9-Jul-20	16-Jul-20	6-Aug-20		9.44	7.5
12	R-111	MR-2809	Ambe Hi-tech	OPC	Chisang Khola	9-Jul-20	16-Jul-20	6-Aug-20		9.71	7.5
13	T1L17	MR-2810	Ambe Hi-tech	OPC	Chisang Khola	10-Jul-20	17-Jul-20	7-Aug-20		8.63	7.5
14	R-111	MR-2811	Ambe Hi-tech	OPC	Chisang Khola	10-Jul-20	17-Jul-20	7-Aug-20		9.04	7.5
15	T1L7	MR-2812	Ambe Hi-tech	OPC	Chisang Khola	10-Jul-20	17-Jul-20	7-Aug-20		9.30	7.5
16	R-83	MR-2813	Ambe Hi-tech	OPC	Chisang Khola	12-Jul-20	19-Jul-20	9-Aug-20		9.17	7.5
17	T1L17	MR-2814	Ambe Hi-tech	OPC	Chisang Khola	12-Jul-20	19-Jul-20	9-Aug-20		8.90	7.5
18	R-111	MR-2815	Ambe Hi-tech	OPC	Chisang Khola	13-Jul-20	20-Jul-20	10-Aug-20		8.50	7.5
19	T1L7	MR-2816	Ambe Hi-tech	OPC	Chisang Khola	13-Jul-20	20-Jul-20	10-Aug-20		9.17	7.5
20	R-83	MR-2817	Ambe Hi-tech	OPC	Chisang Khola	13-Jul-20	20-Jul-20	10-Aug-20		9.30	7.5
21	R-111	MR-2818	Ambe Hi-tech	OPC	Chisang Khola	15-Jul-20	22-Jul-20	12-Aug-20		8.63	7.5
22	T1L7	MR-2819	Ambe Hi-tech	OPC	Chisang Khola	15-Jul-20	22-Jul-20	12-Aug-20		8.90	7.5
23	T1L17	MR-2820	Ambe Hi-tech	OPC	Chisang Khola	17-Jul-20	24-Jul-20	14-Aug-20		9.30	7.5
24	R-83	MR-2821	Ambe Hi-tech	OPC	Chisang Khola	17-Jul-20	24-Jul-20	14-Aug-20		9.84	7.5
25	T1L17	MR-2822	Ambe Hi-tech	OPC	Chisang Khola	19-Jul-20	26-Jul-20	16-Aug-20		8.50	7.5
26	R-83	MR-2823	Ambe Hi-tech	OPC	Chisang Khola	20-Jul-20	27-Jul-20	17-Aug-20		9.71	7.5
27	R-111	MR-2824	Ambe Hi-tech	OPC	Chisang Khola	22-Jul-20	29-Jul-20	19-Aug-20		9.84	7.5
28	T1L7	MR-2825	Ambe Hi-tech	OPC	Chisang Khola	22-Jul-20	29-Jul-20	19-Aug-20		9.17	7.5
29	T1L7	MR-2826	Ambe Hi-tech	OPC	Chisang Khola	24-Jul-20	31-Jul-20	21-Aug-20		9.44	7.5
30	R-111	MR-2827	Ambe Hi-tech	OPC	Chisang Khola	24-Jul-20	31-Jul-20	21-Aug-20		9.71	7.5

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









REGIONAL URBAN DEVELOPMENT PROJECT											
Biratnagar Metropolitan City											
Contract No:- RUDP/ICB/BRT-02											
Summary Sheet of Concrete Cube Test Report											
										Page No 1 of 1	
										Month	
										August	
										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/mm <sup>2</sup>		Concrete Grade
							7 Days	28 Days	7 Days	28 Days	
1	R-111	RUDP-3585	Sarbottom	OPC	Chisang Khola	5-Jul-20	12-Jul-20	2-Aug-20		22.44	M20
2	T3L23	RUDP-3586	Sarbottom	OPC	Chisang Khola	5-Jul-20	12-Jul-20	2-Aug-20		22.69	M20
3	T1L8B	RUDP-3587	Sarbottom	OPC	Chisang Khola	7-Jul-20	14-Jul-20	4-Aug-20		21.65	M20
4	Koshi yard	RUDP-3588	Sarbottom	OPC	Chisang Khola	7-Jul-20	14-Jul-20	4-Aug-20		23.21	M20
5	Madhumara Yard	RUDP-3589	Sarbottom	OPC	Chisang Khola	8-Jul-20	15-Jul-20	5-Aug-20		32.58	M30
6		RUDP-3590	Sarbottom	OPC	Chisang Khola	9-Jul-20	16-Jul-20	6-Aug-20		26.56	M25
7	R-83	RUDP-3591	Sarbottom	OPC	Chisang Khola	9-Jul-20	16-Jul-20	6-Aug-20		22.07	M20
8	T1L7B	RUDP-3592	Sarbottom	OPC	Chisang Khola	10-Jul-20	17-Jul-20	7-Aug-20		22.33	M20
9	T3L23	RUDP-3593	Sarbottom	OPC	Chisang Khola	10-Jul-20	17-Jul-20	7-Aug-20		23.06	M20
10	Koshi yard	RUDP-3594	Sarbottom	OPC	Chisang Khola	11-Jul-20	18-Jul-20	8-Aug-20		23.28	M20
11	T1L7	RUDP-3595	Sarbottom	OPC	Chisang Khola	11-Jul-20	18-Jul-20	8-Aug-20		21.93	M20
12	R-111	RUDP-3596	Sarbottom	OPC	Chisang Khola	11-Jul-20	18-Jul-20	8-Aug-20		23.06	M20
13	R-83	RUDP-3597	Sarbottom	OPC	Chisang Khola	12-Jul-20	19-Jul-20	9-Aug-20		22.11	M20
14	T1L7	RUDP-3598	Sarbottom	OPC	Chisang Khola	12-Jul-20	19-Jul-20	9-Aug-20		22.03	M20
15	Koshi yard	RUDP-3599	Sarbottom	OPC	Chisang Khola	12-Jul-20	19-Jul-20	9-Aug-20		23.50	M20
16	Madhumara Yard	RUDP-3600	Sarbottom	OPC	Chisang Khola	14-Jul-20	21-Jul-20	11-Aug-20		32.21	M30
17	T1L17	RUDP-3601	Sarbottom	OPC	Chisang Khola	14-Jul-20	21-Jul-20	11-Aug-20		22.36	M20
18	Koshi yard	RUDP-3602	Sarbottom	OPC	Chisang Khola	14-Jul-20	21-Jul-20	11-Aug-20		33.03	M30
19	T1L17	RUDP-3603	Sarbottom	OPC	Chisang Khola	14-Jul-20	21-Jul-20	11-Aug-20		21.86	M20
20	R-83	RUDP-3604	Sarbottom	OPC	Chisang Khola	15-Jul-20	22-Jul-20	12-Aug-20		22.48	M20
21	T3L23	RUDP-3605	Sarbottom	OPC	Chisang Khola	15-Jul-20	22-Jul-20	12-Aug-20		23.03	M20
22	R-111	RUDP-3606	Sarbottom	OPC	Chisang Khola	15-Jul-20	22-Jul-20	12-Aug-20		21.89	M20
23	T1L8B	RUDP-3607	Sarbottom	OPC	Chisang Khola	17-Jul-20	24-Jul-20	14-Aug-20		22.73	M20
24	Koshi yard	RUDP-3608	Sarbottom	OPC	Chisang Khola	17-Jul-20	24-Jul-20	14-Aug-20		22.51	M20
25	R-83	RUDP-3609	Sarbottom	OPC	Chisang Khola	18-Jul-20	25-Jul-20	15-Aug-20		23.65	M20
26	T3L5	RUDP-3610	Sarbottom	OPC	Chisang Khola	25-Jul-20	1-Aug-20	22-Aug-20	14.98	23.06	M20
27	T2L24C,D	RUDP-3611	Sarbottom	OPC	Chisang Khola	25-Jul-20	1-Aug-20	22-Aug-20	15.87	23.80	M20
28	Koshi yard	RUDP-3612	Sarbottom	OPC	Chisang Khola	27-Jul-20	3-Aug-20	24-Aug-20	16.17	24.54	M20
29	T3L26E	RUDP-3613	Sarbottom	OPC	Chisang Khola	27-Jul-20	3-Aug-20	24-Aug-20	14.90	22.03	M20
30	R-70	RUDP-3614	Sarbottom	OPC	Chisang Khola	27-Jul-20	3-Aug-20	24-Aug-20	15.72	22.69	M20
31	Madhumara Yard	RUDP-3615	Sarbottom	OPC	Chisang Khola	29-Jul-20	5-Aug-20	26-Aug-20	17.74	27.44	M25
32	T3L5	RUDP-3616	Sarbottom	OPC	Chisang Khola	29-Jul-20	5-Aug-20	26-Aug-20	15.65	22.29	M20
33	R-83	RUDP-3617	Sarbottom	OPC	Chisang Khola	30-Jul-20	6-Aug-20	27-Aug-20	14.90	22.84	M20
34	T2L24,(R-5)	RUDP-3618	Sarbottom	OPC	Chisang Khola	30-Jul-20	6-Aug-20	27-Aug-20	15.50	23.65	M20
35	Koshi yard	RUDP-3619	Sarbottom	OPC	Chisang Khola	30-Jul-20	6-Aug-20	27-Aug-20	16.25	24.99	M20
36	T1L16C	RUDP-3620	Sarbottom	OPC	Chisang Khola	1-Aug-20	8-Aug-20	29-Aug-20	14.90	22.11	M20
37	R-181B	RUDP-3621	Sarbottom	OPC	Chisang Khola	1-Aug-20	8-Aug-20	29-Aug-20	14.75	23.03	M20
38	T3L5	RUDP-3622	Sarbottom	OPC	Chisang Khola	3-Aug-20	10-Aug-20	31-Aug-20	15.43	23.25	M20
39	Madhumara Yard	RUDP-3623	Sarbottom	OPC	Chisang Khola	3-Aug-20	10-Aug-20	31-Aug-20	17.89	27.76	M25
40	R-83	RUDP-3624	Sarbottom	OPC	Chisang Khola	5-Aug-20	12-Aug-20	2-Sep-20	15.13		M20
41	T3L26E	RUDP-3625	Sarbottom	OPC	Chisang Khola	5-Aug-20	12-Aug-20	2-Sep-20	14.83		M20
42	T1L16C	RUDP-3626	Sarbottom	OPC	Chisang Khola	7-Aug-20	14-Aug-20	4-Sep-20	15.35		M20
43	R-70	RUDP-3627	Sarbottom	OPC	Chisang Khola	8-Aug-20	15-Aug-20	5-Sep-20	15.43		M20
44	R-5	RUDP-3628	Sarbottom	OPC	Chisang Khola	9-Aug-20	16-Aug-20	6-Sep-20	14.46		M20
45	T2L24C,D	RUDP-3629	Sarbottom	OPC	Chisang Khola	9-Aug-20	16-Aug-20	6-Sep-20	15.80		M20
46	Koshi yard	RUDP-3630	Sarbottom	OPC	Chisang Khola	10-Aug-20	17-Aug-20	7-Sep-20	16.69		M20
47	T1L16C	RUDP-3631	Sarbottom	OPC	Chisang Khola	10-Aug-20	17-Aug-20	7-Sep-20	15.13		M20

<p><b>ZHONGHENG CONSTRUCTION GROUP</b> <b>INTERNATIONAL ENGINEERING CO. LTD</b></p> <p>Checked By Engineer Dhirendra Yadav</p>	<p>Submitted By Contract Manager Rabindra K. Thakur</p>	<p>Verified By Expert Qty Surveyor/CSE H.K. Mandal/Rajan Shrestha</p>	<p>Consultant</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>Approved By Team Leader Giresh Chand</p>
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### Summary Sheet of Concrete Cube Test Report

Page No 1 of 2



### Summary Sheet of Monthly Test Report of Concrete Sand

<p><b>ZHONGHENG CONSTRUCTION GROUP INTERNATIONAL ENGINEERING CO. LTD</b></p> <p><i>[Signature]</i> Checked By Engineer Dhirendra Yadav</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><i>[Signature]</i> Verified By Expert Qty Surveyor/CSE D.K. Mardal/Rajan Shrestha</p>	<p><b>Consultant</b></p> <p><i>[Signature]</i> Approved By Team Leader Gresh Choud</p>
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## 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(%)	Strength of Brick(N/mm <sup>2</sup> )	Remarks
1	1250	1-Aug-20	R-70	Dadarbairya	ACC	14.16	13.96	
2	1251	1-Aug-20	R-181B	Dadarbairya	ACC	14.48	14.02	
3	1252	2-Aug-20	R-70	Dadarbairya	ACC	15.43	13.97	
4	1253	2-Aug-20	R-5	Dadarbairya	Aanand	15.34	14.17	
5	1254	2-Aug-20	T3L26E	Dadarbairya	Aanand	13.39	15.31	
6	1255	5-Aug-20	T1L16C	Dadarbairya	Aanand	13.63	13.99	
7	1256	7-Aug-20	R-70	Dadarbairya	Aanand	16.02	15.76	
8	1257	9-Aug-20	R-181B	Dadarbairya	Aanand	13.11	13.82	
9	1258	9-Aug-20	T1L16C	Dadarbairya	ACC	13.89	13.96	
10	1259	11-Aug-20	R-5	Dadarbairya	Aanand	14.74	15.87	
11	1260	11-Aug-20	T3L26E	Dadarbairya	Aanand	13.30	13.42	
12	1261	11-Aug-20	R-181B	Dadarbairya	Aanand	15.66	13.85	
13	1262	12-Aug-20	R-70	Dadarbairya	ACC	14.78	15.26	
14	1263	14-Aug-20	R-5	Dadarbairya	Aanand	15.04	13.29	
15	1264	15-Aug-20	T1L16C	Dadarbairya	Aanand	14.59	14.13	
16	1265	16-Aug-20	R-70	Dadarbairya	ACC	16.06	13.84	
17	1266	17-Aug-20	R-181B	Dadarbairya	ACC	15.18	16.09	
18	1267	17-Aug-20	T3L26E	Dadarbairya	Aanand	14.88	15.00	
19	1268	18-Aug-20	T1L16C	Dadarbairya	Aanand	15.66	14.72	
20	1269	18-Aug-20	R-181B	Dadarbairya	ACC	16.08	15.07	
Sp. Limit						<20%	>8 to 10 N/mm <sup>2</sup>	

Comments:-

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



## REGIONAL URBAN DEVELOPMENT PROJECT

Biratnagar Metropolitan City

Contract No:- RUDP/ICB/BRT-02

Summary Sheet of Monthly Test Report of 20mm Agg.

Sl. No.	Lab. Ref. No.	Date of Testing	Location of Sample	Source of Sample	Sieve Size in mm / % Passing by weight					Type of Material		Month Year		Remarks
					37.5	20	14	10	5	I.A.A. %	Fl and F1 %	A.I.V. %	20 mm Agg	
1	RUDP-CA-603	1-Aug-20	Koshi Yard	Chiang Khola	100.00	91.31	47.25	12.33	2.51	21.30	22.71/21.96	20.52	✓	
2	RUDP-CA-604	1-Aug-20	Koshi Yard	Chiang Khola	100.00	92.60	49.13	12.44	2.47	21.10	22.71/21.85	21.49	✓	
3	RUDP-CA-605	3-Aug-20	R-181B	Chiang Khola	100.00	90.58	46.35	12.17	3.40	23.10	22.96/23.43	21.84	✓	
4	RUDP-CA-606	6-Aug-20	TIL-16C	Chiang Khola	100.00	92.02	47.40	13.47	2.87	22.24	23.04/21.28	22.91	✓	
5	RUDP-CA-607	8-Aug-20	Koshi Yard	Chiang Khola	100.00	93.84	49.91	15.21	2.42	22.02	23.37/23.06	23.86	✓	
6	RUDP-CA-608	11-Aug-20	R-5	Chiang Khola	100.00	93.67	51.97	14.57	2.99	23.10	23.37/22.50	22.01	✓	
7	RUDP-CA-609	13-Aug-20	T21.24CD	Chiang Khola	100.00	91.42	48.37	15.86	3.12	21.20	23.09/21.96	23.30	✓	
8	RUDP-CA-610	14-Aug-20	T31.5	Chiang Khola	100.00	92.03	48.66	13.48	2.37	19.76	23.26/22.94	22.64	✓	
9	RUDP-CA-611	14-Aug-20	T21.24	Chiang Khola	100.00	91.34	51.50	13.24	3.01	21.20	22.97/22.85	23.59	✓	
10	RUDP-CA-612	16-Aug-20	Koshi Yard	Chiang Khola	100.00	92.35	48.68	14.17	2.64	22.10	23.03/22.97	23.76	✓	
11	RUDP-CA-613	19-Aug-20	Machumara Yard	Chiang Khola	100.00	92.73	47.60	14.27	2.49	24.24	22.87/23.04	21.71	✓	
12	RUDP-CA-614	20-Aug-20	T11.16C	Chiang Khola	100.00	89.94	46.98	14.03	2.64	22.90	23.00/23.50	23.02	✓	
Spec. Limit :					100	85-100	0-70	0-25	0-5	<35	<25	<25	<25	
Contractor					Consultant									
ZHONGHENG CONSTRUCTION GROUP INTERNATIONAL ENGINEERING CO. LTD					BUILDING DESIGN AUTHORITY'S (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 Rabinchandra K. Thakur					Verified By Expert Qty Surveyor/CSE H.K. Manand/Prabin Sinha				
										Approved By Team Leader Gurab Choud				







## ANNEX-4: SOCIAL& ENVIRONMENT SAFEGUARD

### **Monitoring Formats – August 2020**



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

Month/Year: -August 2020

LABOUR CLASS	LABOUR		COMPOSITION			ETHNIC COMPOSITION			
	SKILLED	UNSKILLED	MALE	FEMALE	JANJATI	DALIT	MUSLIM	MADHESI	BRAHMIN/CHHETRI
LOCAL	16	38	54	0	10	5	6	33	0
NON LOCAL	0	0	0	0	0	0	0	0	0
INDIAN	0	0	0	0	0	0	0	0	0
TOTAL	16	38	54	0	10	5	6	33	0





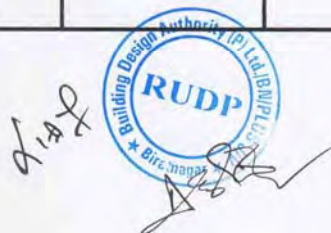
Regional Urban Development Project (RUDP)  
Social Safeguard Monitoring  
Inventory of Social Facilities

1. General Information				Month/Year: -August 2020				Contract Package: RUDP/ICB/BRT/2			
Subproject: -RUDP/ICB/BRT/2				Month/Year: -August 2020				Contract Package: RUDP/ICB/BRT/2			
In Group/International Engineering Co pvt. Belling China.				Month/Year: -August 2020				Contract Package: RUDP/ICB/BRT/2			
S.NO	LOCATION	TYPES OF WORK	TYPES OF WORKERS	LABOUR		COMPOSITION		ETHNIC COMPOSITION			
				SKILLED	UNSKILLED	MALE	FEMALE	JATI	DAIT	MUSLIM	MADHESI
1	T2L180	Sub-Grade	LOCAL NON LOCAL INDIAN TOTAL	1 3 4	3	4		1			3
2	R83	Drain	LOCAL NON LOCAL INDIAN TOTAL	3 5 8	5	8					8
3	T1L16C	Drain	LOCAL NON LOCAL INDIAN TOTAL	5 12 17	12	17		2	2		13
4	T2L26E	Drain	LOCAL NON LOCAL INDIAN TOTAL	3 8 11	8	11		2		3	6
5	R4	Sub-Grade	LOCAL NON LOCAL INDIAN TOTAL	2 6 8	6	8		3	2	1	2
6	R13	Sub-Grade	LOCAL NON LOCAL INDIAN TOTAL	2 4 6	4	6		2	1	2	1



**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



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

Subproject Road : -RUDP/ICB/BRT/2

Month/Year: August 2020

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

Contract Package: RUDP/ICB/BRT/2

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

Prepared by:



Verified by:

Monitored by:






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

Name of Sub Project: RUDP/ Biratnagar

Contract Package: RUDP/ICB/BRT/02

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

Month: August 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	Yes (Awareness Program training on COVID-19).	
<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, muffs, 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 movement	No any disturbance to pedestrians & traffic movement	
4.4	Use of private land and agreement with land owners	Yes	
<b>5</b>	<b>Air, Noise and Water Pollution</b>		
5.1	Dust emission and Noise pollution sites	Water sprinkled by tanker on such sites.	
5.2	Water quality monitoring result and locations	ok	
5.3	Block age of natural drainages ,water logging, drain water discharge into farmland/risky areas	Not Applicable	
<b>6</b>	<b>Quarrying of construction materials and Plants Installment</b>		
6.1	Quarry/borrow operation sites	Not Applicable	
6.2	Crusher plant and Asphalt plant operation restoration	Asphalt Plant	
<b>7</b>	<b>Impact/Disruption of Private properties</b>		
7.1	Building structures	Not Applicable	
7.2	Other utilities	Not Applicable	
<b>8</b>	<b>Impact/disruption of public infrastructures</b>		
8.1	Irrigation canal	Not Applicable	
8.2	Water supply pipe	Not Applicable	
8.3	Access road	Not Applicable	
8.4	Electric/Telephone pole	Not Applicable	
8.5	Others	Not Applicable	
<b>9</b>	<b>Sites for cultural and religious values</b>		
9.1	Cultural and religious sensitive spots (if any)	Not Applicable	
<b>10</b>	<b>Forest and vegetation</b>		
10.1	Number of trees removal	00	
10.2	No of tree plantation (Roadside)	Not Applicable	
<b>11</b>	<b>Accident cases and records</b>	No any records	
<b>12</b>	<b>Employment to local people</b>		
12.1	Men and women	Yes, both men and women	
12.2	Child labor (if any)	No	
<b>13</b>	<b>Establishment of Safeguard desk and meeting</b>	Yes	
<b>14</b>	<b>Grievances from local people and addressed</b>	Yes	





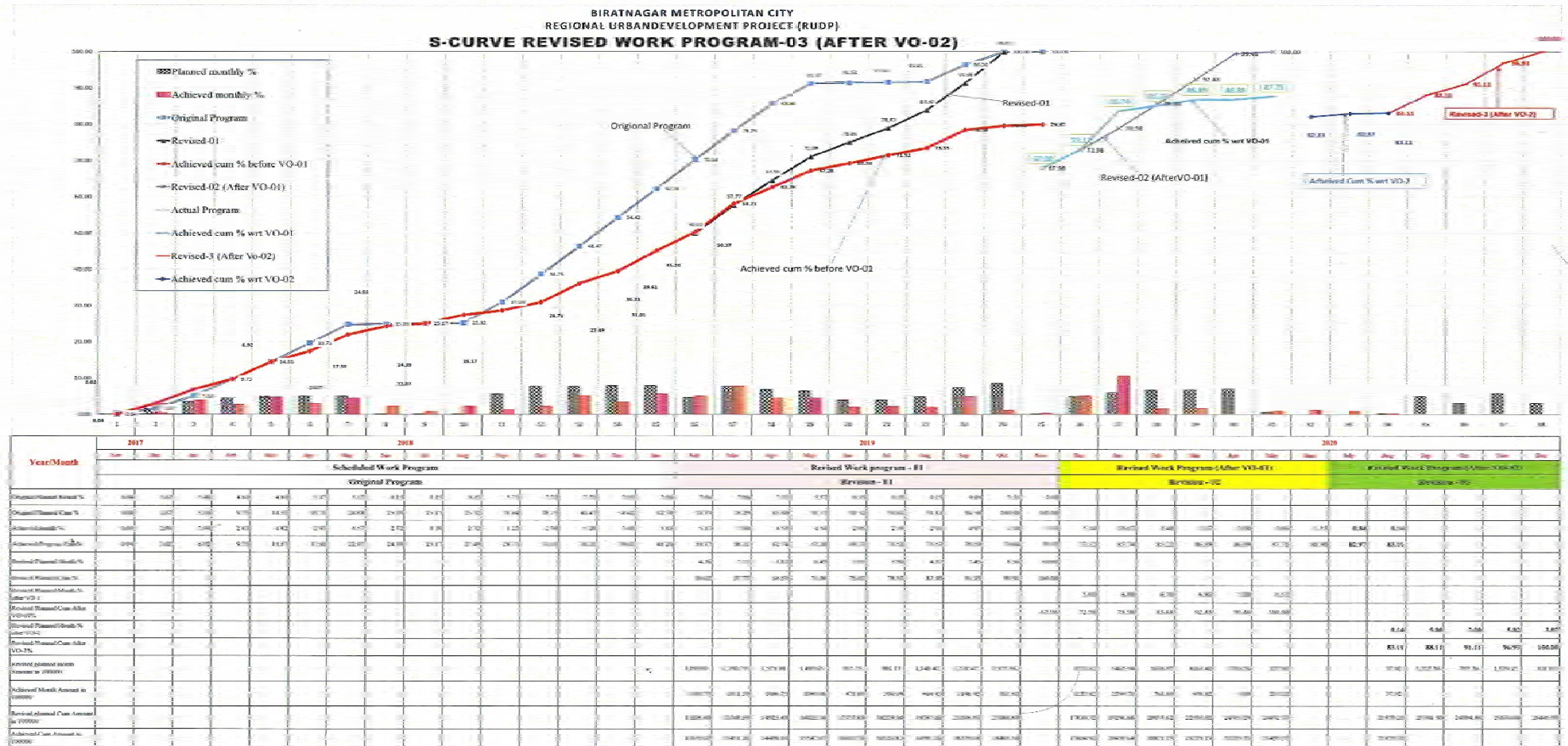

ANNEX-5: S-Curve

(ATTACHED)

**The program will be monitored by DSC according to Revised Work Plan from September 2020 onward.**







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



