



## **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**



**December 2020**

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

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## EXECUTIVE SUMMARY

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

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





## 1. PROJECT DESCRIPTION

### 1.1. INTRODUCTION/BACKGROUND

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

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

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



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

General Features	
Name of Project	Regional Urban Development Project(RUDP)
Executing Agency	Government of Nepal,
	Ministry of Urban Development
	Department of Urban Development and Building Construction (DUDBC)
Implementing Agency	Biratnagar Metropolitan City, Biratnagar
Funded By	Asian Development Bank & Government of Nepal
Package	Construction and Completion of Sewerage, Drainage, Road, Footpath and Road furniture works
Contract No.	RUDP/ICB/BRT/2
Location	Biratnagar Metropolitan City, Biratnagar
<b><u>The Consultant:</u></b>	
Consultant	Building Design Authority (P) LTD in Joint Venture With B.N. consultancy Pvt and PLUS Engineers and Architects (P) Ltd Kathmandu.
Date of Sign of Design and Supervision Consulting Service	28 <sup>th</sup> August 2017
Date of Commencement of Design and Supervision Consulting Service	6 <sup>th</sup> September 2017
Date of Completion	5 <sup>th</sup> September 2020
Revised Date of Completion	26 <sup>th</sup> February 2022 including DNP & Final Discharge
<b><u>The Contractor:</u></b>	
Contractor	ZHONGHENG Construction Group International Engineering Co Ltd. Beijing, China.
Date of Agreement Made	10 <sup>th</sup> October 2017
Date of Commencement	2 <sup>nd</sup> November 2017
Date of Completion	1 <sup>st</sup> November 2019
Revised Date of Completion	28 <sup>th</sup> December 2020
Contract Amount including PS and VAT	NRs. 2,611,092,249.63



<b>General Features</b>	
Contract Amount including PS and VAT (After arithmetic correction)	NRs. 2,611,088,390.60
Additional Financing 100% funded by BMC after VO-2 (provisional items)	NRs. 39,999,966.94
Revised Contract Amount including PS and VAT	NRs. 2, 988,389,581.81 (excluding Additional Financing 100% funded by BMC NRs. 39,999,966.94).
<b>Progress</b>	
Road Rehabilitation (Asphalt)	91.91%
Sewer Line	100%
Storm Drain	100%
Road Side Drain	99.80%
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>Planned: 100.00%,Actual: 91.73%; Lead (+) or Lag (-) by( -) 8.27 %;</b></p> <ul style="list-style-type: none"> <li>• Work progress is lagging due to pandemic “COVID – 19” as Cases of COVID-19 has continued to surge along with fatalities in the region</li> </ul>
Financial Progress up to date ( <i>on the basis of IPC forwarded for disbursement</i> )	<p>In Percentage: <b>87.74%</b>, In Figure: NRs. <b>2,621,934,208.79</b>(including VAT and PS) up to IPC –19 wrt to VO-2.</p> <p><b>In Words:</b> NRs. Two Billion Six Hundred Twenty One Millions Nine Hundred Thirty Four Thousand Two Hundred Eight and Seventy Nine Paisa Only.</p>



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

S.No	Description	Unit	Revised Quantity	Progress up to date	Remaining	Progress Status expressed in (%)	Remarks
1	Sewer Line						
a	HDPE/RCC	m	18,559.80	18,559.80	0.00	100.00%	w.r.t VO-2
b	Manhole	No.	606.00	606.00	0.00	100.00%	
c	Sewer Inlet	No.	1,010.00	564.00	446.00	55.84%	
d	House Connection	No.	3,784.00	2,616.00	1,168.00	69.13%	
2	Storm Water Drain						
a	RCC Drain	m	585	585	-	100.00%	w.r.t VO-2
b	Piles	No.	138	138	-	100.00%	
3	Road						
a	Subgrade	m	74,573.60	71,758.73	2,814.87	96.23%	w.r.t VO-2
b	Subbase	m	74,573.60	70,568.73	4,004.87	94.63%	
c	Base	m	74,573.60	69,498.93	5,074.67	93.20%	
d	Prime	m	74,573.60	68,740.00	5,833.60	92.18%	
e	Asphalt	m	74,573.60	68,537.93	6,035.67	91.91%	
4	Road Side Drain	m	39,200.69	39,122.11	78.58	99.80%	Wrt VO-2
5	Footpath	sqm	49,481.82	24,721.60	24,760.22	49.96%	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. The SI & HCC works are in progress also the maintenance work of sewer lines, sewer inlet and house chamber connections are in progress where required as per instruction. Details of all major components of the project are as illustrated in Table – 1 below.

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



Table 1: PROPOSED ALL MAJOR COMPONENTS OF THE PROJECT

S. No.	Description	Unit	Revised Quantity (After VO-2)
<b>1</b>	<b>Sewerage Pipe Supply and Installation</b>	<b>m</b>	<b>18,559.80</b>
	<b>Reinforced Concrete Pipe laying and jointing</b>		<b>1,967.50</b>
	Line T2 (Secondary)	m	205.00
	Line T3 (Trunk)	m	1,632.50
	Line T4 (Trunk)	m	130.00
	<b>HDPE laying and jointing</b>	<b>m</b>	<b>16,592.30</b>
	Line T1 (Secondary)	m	1,743.20
	Line T2 (Secondary)	m	3,153.40
	Line T3 (Secondary)	m	9,643.80
	Line T4 (Secondary)	m	2,051.90
<b>2</b>	<b>Manhole ( Brick / RCC)</b>	<b>no.</b>	<b>606.00</b>
<b>3</b>	<b>Sewer Inlet</b>	<b>no.</b>	<b>1,010.00</b>
<b>4</b>	<b>House Connection</b>	<b>no.</b>	<b>3,784.00</b>
<b>5</b>	<b>Reinstatement of Roads</b>	<b>km</b>	<b>74.57</b>
<b>6</b>	<b>Road side Drain</b>	<b>Km</b>	<b>39.20</b>
<b>7</b>	<b>Storm Water Drain</b>	<b>m</b>	<b>585.00</b>





**Table: - 2 PHYSICAL PROGRESS IN SEWER LINES till date**

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



SN	Description	Revised Quantity	Up to Pre Month	This month	Total to date in Nos.	Progress %
1	Sewer inlet	1,010.00	564.00	-	564.00	55.84
2	House connection	3,784.00	2,512.00	104.00	2,616.00	69.13



### 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 and is in full function. The detail of the progress is shown in the table 3:

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

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

### 3.1.3. ROADS AND LANES

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

Out of 74.57 km. about 71.75 Km. has been attempted. About 68.50 Km. Asphalt work has been completed. The summary of physical progress of flexible pavement, rigid pavement and foot paths areas tabulated in Table 4, 4.1 & 4.2 below: -



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

SN	Road Number	Name of Road	Length in m			Work Completed				Remarks	
			Progress		Total	Sub-base	Base	Asphalt	RCC		Paint
			Previous	This Month		m	m	m	m		m
1	R42	Bhagwati Marg	229		229	229	229	229			
2	R5	College Road	594		594	594	594	594			
3	R5	Chulachuli Road	230		230	230	230	230		230	
4	R5	Transprtation Line	377.2		377.2	377.2	377.2	377.2		377.2	
5	R65	Satghumti Marg	320		320	320					
6	R107		167		167	167	167	167			
7	R104	VIP Marg	275		275	275	275	275		275	
8	R8(R3 to Devkota)	Madhumara Marg	920		920	920	920	920		600	
9	B1	Kanchan Marg	1,181.10		1181.1	1,181.10	1,181.10	1,181.10		1,106.00	
10	R21	Pratibha Marg	1,490.10		1490.1	1,490.10	1,490.10	1,490.10		1,012.80	
11	B3	Keshaliya Marg	1,623.20		1623.2	1,623.20	1,623.20	1,623.20		1623.2	



SN	Road Number	Name of Road	Length in m			Work Completed					Remarks
			Progress		Total	Sub-base	Base	Asphalt	RCC	Paint	
			Previous	This Month		m	m	m	m	m	
12	S13		1,724.20		1724.2	1,724.20	1,724.20	1,724.20		1,812.60	
13	R12	Brikuti to Keshalya	844.20		844.2	844.20	844.20	844.20		844.20	
14	R12	Kanchha Dai Marg	900		900	900	900	900			
15	Rani site	Rani	3,725.15		3725.15	3,725.15	3,725.15	3,725.15		3725.15	
16	R16	Satya Marg	583.9		583.9	583.9	583.9	583.9		583.9	
17	R26	Pasang Marg	602.3		602.3	602.3	602.3	602.3		602.3	
18	R28	Pustakalaya Marg	606.1		606.1	606.1	606.1	606.1		606.1	
19	R27	Peepal Marg	794.7		794.7	794.7	794.7	794.7		639.2	
20	R25	Devi Marg	592.3		592.3	592.3	592.3	592.3		592.3	
21	R24	Prabhat Marg	382.9		382.9	382.9	382.9	382.9		382.9	
22	R37	Banglamukhi Marg	470.5		470.5	470.5	470.5	470.5		470.5	
23	R7	R25 to R27	152.57		152.57	152.57	152.57	152.57		152.57	



SN	Road Number	Name of Road	Length in m			Work Completed					Remarks
			Progress		Total	Sub-base	Base	Asphalt	RCC	Paint	
			Previous	This Month		m	m	m	m	m	
24	R7	R21 to R25	267		267	267	267	267		267	
25	R30	Shanti Marg	348.6		348.6	348.6	348.6	348.6		348.6	
26	R9	Fadindra Marg	119		119	119	119	119			
27	R9(R37 to R41)		254.6		254.6	254.6	254.6	254.6			
28	S11	Samrat Marg	502.6		502.6	502.6	502.6	502.6		504.6	
29	R22	Amar Marga	373.5		373.5	373.5	373.5	373.5		373.5	
30	R29	Shanti Marg	879.6		879.6	879.6	879.6	879.6		585.6	
31	R36	Gaurav Marg	221.1		221.1	221.1	221.1	221.1		440	
32	R33	Tarun Marg	282.5		282.5	282.5	282.5	282.5			
33	R8	R29 to N36)	226.9		226.9	226.9	226.9	226.9			
34	N36		184		184	184	184	184		184	
35	R188	Shakti Marg	115.1		115.1	115.1	115.1	115.1		115.1	
36	R2	Main Road	3,116.10		3116.1	3,116.10	3,116.10	3,116.10		4350	





SN	Road Number	Name of Road	Length in m			Work Completed					Remarks
			Progress		Total	Sub-base	Base	Asphalt	RCC	Paint	
			Previous	This Month		m	m	m	m	m	
37	T3 Line 6A	Pandit Meghnath Marg	279.3		279.3	279.3	279.3	279.3		279.3	
38	R63 (DSP Road)	DSP Road	424		424	424	424	424		424	
39	R90	Shakti Marg	449.3		449.3	449.3	449.3	449.3		640	
40	R77	Arniko Marg	87.7		87.7	87.7	87.7	87.7		87.7	
41	R76	Mitra Marg	275.6		275.6	275.6	275.6	275.6		541.2	
42	R183	Nava Jyoti Marg	217.2		217.2	217.2	217.2	217.2		217.2	
43	T1 L16B	Xenial Front	203.7		203.7	203.7	203.7	203.7		203.7	
44	T1L16A	Xenial South	165.7		165.7	165.7	165.7	165.7		165.7	
45	R114	Dharanidhar Marg	569		569	569	569	569		560	
46	R113	Kavi Lekh Marg	746.2		746.2	746.2	746.2	746.2		746.2	
47	R3	Dharamban Marg	2,254.10		2254.1	2,254.10	2,254.10	2,254.10		2,080.30	



SN	Road Number	Name of Road	Length in m			Work Completed					Remarks
			Progress		Total	Sub-base	Base	Asphalt	RCC	Paint	
			Previous	This Month		m	m	m	m	m	
48	R3 -(T3 Family planning to DUDBC)		337		337	337	337	337			
49	R84	West of school	237		237	237	237	237		237	
50	R84		248.9		248.9	248.9	248.9	248.9		248.9	
51	R85	Machha Line	153.8		153.8	153.8	153.8	153.8		153.8	
52	R87	Mahabir Chowk	234.2		234.2	234.2	234.2	234.2		234.2	
53	R86	Petrol pump side -R12	191.5		191.5	191.5	191.5	191.5		191.5	
54	R11	R18/R86	204.1		204.1	204.1	204.1	204.1			
55	N3	Jatuwa	122		122	122	122	122		122	
56	N3	Janani Marga	280		280	280	280	280		280	
57	N4(R16 to R21)	Jatuwa	168.8		168.8	168.8	168.8	168.8		168.8	
58	R10	R35 to R76	670.8		670.8	670.8	670.8	670.8		853.2	
59	T2L26F	APF	55		55	55	55	55			
60	T2L27		75		75	75	75	75			
61	R122		251		251	251	251	251		497.4	



SN	Road Number	Name of Road	Length in m			Work Completed				Remarks	
			Progress		Total	Sub-base	Base	Asphalt	RCC		Paint
			Previous	This Month		m	m	m	m		m
62	N9		222.6		222.6	222.6	222.6	222.6			
63	R17		374		374	374	374	374		730	
64	R18		387.3		387.3	387.3	387.3	387.3			
65	N2		117		117	117	117	117			
66	T3L6	Moti marga	158.3		158.3	158.3	158.3	158.3		158.3	
67	T3L6	CDO Office front	49.4		49.4	49.4	49.4	49.4		49.4	
68	R45	Bata road	510.7		510.7	510.7	510.7	510.7		510.7	
69	T3L21		547		547	547	547	547		774	
70	N5	R16 to R18	67.2		67.2	67.2	67.2	67.2		122	
71	T3L39		340		340	340	340	340		491	
72	T3L39A		138		138	138	138	138		179.4	
73	T3L39B		60		60	60	60	60		117.6	
74		Milan Marga	130		130	130	130	130			
75	R68 - T2L24G		218		218	218	218	218			
76	N10		194		194	194	194	194			
77	T3L24C &D	Hanuman Das Road	200		200	200	200	200			



SN	Road Number	Name of Road	Length in m			Work Completed					Remarks
			Progress		Total	Sub-base	Base	Asphalt	RCC	Paint	
			Previous	This Month		m	m	m	m	m	
78	R6(N2 to R41)		1,832.80		1832.8	1,832.80	1,832.80	1,832.80			
79	N24		144		144	144	144	144			
80	R31		189.2		189.2	189.2	189.2	189.2			
81	N27	Bindabasini Marga	354		354	354	354	354			
82	R73 (R2 to R5)		217		217	217	217	217			
83	R6 (R41-R44)	Bata Galli	269		269	269	269	269		269	
84	R9 (T3Line11K)		194.8		194.8	194.8	194.8	194.8		194.8	
85	R44	Thakurbari Road	727.1		727.1	727.1	727.1	727.1		727.1	
86	R102	Main	140		140	140	140	140			
87	R102	Branch	71.3		71.3	71.3	71.3	71.3			
88	R103		171.3		171.3	171.3	171.3	171.3			
89	R32		189.2		189.2	189.2	189.2	189.2			
90	T2L18Y		116.2		116.2	116.2	116.2	116.2			
91	R20		108		108	108	108	108			
92	R82 (T1Line5)	Everest School	522.8		522.8	522.8	522.8	522.8		522.8	
93	T1L5A		171.9		171.9	171.9	171.9	171.9		171.9	



SN	Road Number	Name of Road	Length in m			Work Completed					Remarks
			Progress		Total	Sub-base	Base	Asphalt	RCC	Paint	
			Previous	This Month		m	m	m	m	m	
94	T3L23C	North to Jay Nepal	87		87	87	87	87		87	
95	T3L25B		285		285	285	285	285			
96	T3L25C		140		140	140	140	140			
97	R3(T3 Trunk)	Tinpaini to Sanihat	680		680	680	680	680			
98	Nagmandir to R3		55		55	55	55	55		55	
99	R4		960		960	960	960	960			
100	R75		137		137	137	137	137			
101	R43		329.4		329.4	329.4	329.4	329.4		329.4	
102	T219P		124.8		124.8	124.8	124.8	124.8		124.8	
103	T219Q		113.7		113.7	113.7	113.7	113.7		113.7	
104	R106		195		195	195	195	195			
105	T3L12		80		80	80	80	80			
106	R46		610		610	610	610	610		610	
107	T3L11E		124.55		124.55	124.55	124.55	124.55		124.55	
108	T3L13D		70		70	70	70	70		70	
109	T3L13C		102		102	102	102	102		102	
110	R34		157.4		157.4	157.4	157.4	157.4			
111	T3L13E		64		64	64	64	64		64	
112	T3L13K		76		76	76	76	76		76	



SN	Road Number	Name of Road	Length in m			Work Completed				Paint	Remarks
			Progress		Total	Sub-base	Base	Asphalt	RCC		
			Previous	This Month							
113	R19		228		228	228	228	228		228	
114	R41		540		540	540	540	540		540	
115	R9B		83.85		83.85	83.85	83.85	83.85		83.85	
116	R67		119.4		119.4	119.4	119.4	119.4			
117	R74		95		95	95	95	95			
118	R9A		109		109	109	109	109			
119	T2L19F		120		120	120	117.2	117.2			
120	T3L7A		190		190	190	158	158			
121	T3L13F		75		75	75	75	75			
122	T3L11M		85		85	85	85	85		85	
123	T3L33A (N7)		135		135	135	135	135			
124	R35		142.5		142.5	142.5	142.5	142.5			
125	R83		130		130	130	130	130			
126	R105		174		174	174	174	174			
127	R15		194		194	194	194	194			
128	R181A		196		196	196	196	196			
129	N38		358		358	358	358	358			
130	T2L26E	Bhanu Tole	107		107	107	107	107			
131	T2L19G		63		63	63	63	63			
132	T3L19H		84		84	84	84	84			
133	T2L19V		90		90	90	90	90			
134	T2L19Y		110		110	110	110	110			





SN	Road Number	Name of Road	Length in m			Work Completed					Remarks
			Progress		Total	Sub-base	Base	Asphalt	RCC	Paint	
			Previous	This Month		m	m	m	m	m	
135	T2L19Z		64		64	64	64	64			
136	R110		255		255	255	255	255			
137	T2L18A		97		97	97	97	97			
138	B2		2584.65		2584.65	2584.65	2584.65	2584.65	210	2584.65	
139	R7	Sani Haat Chowk to Hospital	746.8		746.8	746.8	746.8	746.8		746.8	
140	R7	(R46-R44) Shree Hospital	155		155	155	155	155		155	
141	T3 Line18A	Nearby Neuro parking	79.32		79.32	79.32	79.32	79.32		79.32	
142	T3L21A	Milan Chowk	123.4		123.4	123.4	123.4	123.4		123.4	
143	T3L18C		103		103	103	103	103			
144	R39	Sansari Maisthan	180		180	180	180	180			
145	R40		330.6		330.6	330.6	330.6	330.6			
146	R101		270		270	270	270	270		270	



SN	Road Number	Name of Road	Length in m			Work Completed					Remarks
			Progress		Total	Sub-base	Base	Asphalt	RCC	Paint	
			Previous	This Month		m	m	m	m	m	
147	T3Line5	Sanihat to Nagarpalika	285		285	285	285	285		285	
148	R7(R21 to R18)		68		68	68	68	68		68	
149	R7(R25 to R27		155		155	155	155	155		155	
150	R9(R37 to R30)		219.6		219.6	219.6	219.6	219.6		219.6	
151	N8		166.9		166.9	166.9	166.9	166.9		166.9	
152	R7		983		983	983	983	983		983	
153	R5		110		110	110	110	110			
154	T2Line11N		65		65	65	65	65			
155	R6	Siddhartha to R46	185		185	185	185	185			
156	R100 (T2Line 22B)		150		150	150	150	150			
157	T3 Trunk Line	Devkota to Family Planning	340		340	340	340	340			
158	T3Line25A		302		302	302	302	302			
159	T3 Line23C		90		90	90	90	90		90	



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



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



SN	Road Number	Name of Road	Length in m			Work Completed				Paint	Remarks
			Progress		Total	Sub-base	Base	Asphalt	RCC		
			Previous	This Month		m	m	m	m		
182	R23		227		227	227	227	227			
183	R13		226		226	226	226	226			
184	T2Line18D(N19)		80		80	80	80	80			
185	T2Line19K		205		205	205	205	205			
186	T1Line7A		75		75	75	75	75			
187	T1Line7B		86		86	86	86	86			
188	T1Line7C		70		70	70	70	70			
189	T1Line 8C		76		76	76	76	76			
190	T1Line8B		155	145	300	155	155	155			
191	R70		216		216	216	216	70			
192	R4		1200		1200	1200	1200	1150			
193	R83		370		370	370	370	370			
194	R5(Satghumti to Mahabir)		200		200	200	200	200			
195	R71		105		105	105	105	105			
196	T1Line 17		85		85	85	85				
197	T1Line16		215		215	215	215	215			
198	T3Line7		120		120	120	120	120			
199	T3Line26E		250		250	250	250	250			
200	T3Line26H		55		55	55	55				
201	R7(R28-R29)		200		200	200					



SN	Road Number	Name of Road	Length in m			Work Completed				Remarks	
			Progress		Total	Sub-base	Base	Asphalt	RCC		Paint
			Previous	This Month		m	m	m	m		m
202	R4 Branch		200		200	200	200	200			
203	N34		175.24		175.24	175.24	175.24	175.24			
204	R6		460		460	460	460	460			
205	R111			160	160	160					
206	R111(A)			65	65	65	65				
207	R112			140	140						
208	T3L-26			130	130						
209	Mahendra to R12 (T1Line 13)			230	230	230					
210	T3Line24B			230	230	230	230				
211	N1			105	105						
212	R121			125	125	125					
213	T3 Line 11F (Gyan Marga)			70	70						
214	B2 Branch			80	80	80	80				
215	N40 (Near R29)			135	135						
216	N39			95	95						
217	T2Line 19o( Prativa chowk)			60	60						
218	N15			50	50						





SN	Road Number	Name of Road	Length in m			Work Completed					Remarks
			Progress		Total	Sub-base	Base	Asphalt	RCC	Paint	
			Previous	This Month		m	m	m	m	m	
219	N35			80	80						
220	Ghoghapaini		270	380	650	650	650	400			
221	R3-under STIUEIP	Tinpaini to pusalal chowk								4000	
	Total		69,478.73	2,280.00	71,758.73	70,568.73	69,498.93	68,537.93	210.00	50,074.39	



**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		902	902	0.98	879.45	RHS
2	R2	Precast block	602		602	602	1.1	662.2	LHS
3	R29	Precast block	330		330	330	0.9	297	RHS
4	R29	Precast block	330		330	330	0.9	297	LHS
5	R28	Precast block	322		322	322	0.9	289.8	RHS
6	R28	Precast block	335		335	335	0.9	301.5	LHS
7	R28	Precast block	341		341	341	0.9	306.9	RHS
8	R21	Precast block	365		365	365	1	365	RHS
9	R21	Precast block	765		765	765	1	765	LHS
10	R78	Precast block	75		75	75	1.2	90	RHS
11	R78	Precast block	75		75	75	1.2	90	LHS
12	R77	Precast block	115		115	115	0.9	103.5	RHS
13	R77	Precast block	115		115	115	0.9	103.5	LHS
14	R76	Precast block	275		275	275	0.95	261.25	RHS
15	R76	Precast block	275		275	275	0.95	261.25	LHS
16	R75	Precast block	160		160	160	0.95	152	RHS
17	R75	Precast block	160		160	160	0.95	152	LHS
18	R10	Precast block	700		700	700	0.95	665	RHS
19	R10	Precast block	700		700	700	0.95	665	LHS
20	R31	Precast block	175		175	175	0.95	166.25	RHS
21	R31	Precast block	175		175	175	0.95	166.25	LHS



SN	Road Number	Type*	Progress in m			Footpath			Remarks
			Previous	This Month	Cumulative	Length (m)	Avg. Breadth (m)	Quantity (m <sup>2</sup> )	
22	R32	Precast block	185		185	185	0.3	55.5	RHS
23	R32	Precast block	185		185	185	0.3	55.5	LHS
24	R33	Precast block	285		285	285	0.9	256.5	RHS
25	R33	Precast block	170		170	170	0.9	153	LHS
26	R16	Precast block	170		170	170	1.2	204	RHS
27	R16	Precast block	170		170	170	1.2	204	LHS
28	R6	Precast block	700		700	700	1.2	840	RHS
29	R6	Precast block	700		700	700	1.2	840	LHS
30	B1	Precast block	490		490	490	1.2	588	RHS
31	B1	Precast block	490		490	490	3.4	1,666.00	LHS
32	B2 (2)	Precast block	715		715	715	0.59	421.85	RHS
33	B2 (2)	Precast block	715		715	715	1.65	1,179.75	LHS
34	B2 (1)	Precast block	131		131	131	2.6	340.6	RHS
35	B2 (1)	Precast block	131		131	131	0.9	117.9	LHS
36	B3	Precast block	1,160.00		1,160.00	1,160.00	2.33	2,697.00	RHS
37	B3	Precast block	670		670	670	0.7	469	LHS
38	S11	Precast block	112		112	112	0.95	106.4	RHS
39	S11	Precast block	75		75	75	1.21	90.75	LHS
40	Rani	Precast block	425		425	425	1	425	RHS
41	Rani	Precast block	425		425	425	1	425	LHS
42	R3	Precast block	310		310	310	1.1	341	RHS
43	R3	Precast block	1,050.00		1,050.00	1,050.00	1.1	1,155.00	LHS



SN	Road Number	Type*	Progress in m			Footpath			Remarks
			Previous	This Month	Cumulative	Length (m)	Avg. Breadth (m)	Quantity (m <sup>2</sup> )	
44	R27	Precast block	400		400	400	1.1	440	RHS
45	R27	Precast block	400		400	400	0.85	340	LHS
46	R26	Precast block	300		300	300	1.23	369	RHS
47	R26	Precast block	285		285	285	1.1	313.5	LHS
48	R25	Precast block	205		205	205	1	205	RHS
49	R25	Precast block	201		201	201	1	201	LHS
50	R7	Precast block	300		300	300	1	300	LHS
51	R2	Precast block		600	600	600	0.85	510	LHS
52	R2	Precast block		600	600	600	0.85	510	RHS
53	T3 Trunk Line	Precast block		650	650	650	0.85	552.5	LHS
54	T3 Trunk Line	Precast block		600	600	600	0.85	510	RHS
55	T3 Line6A	Precast block		150	150	150	0.85	127.5	LHS
56	T3 Line6A	Precast block		150	150	150	0.85	127.5	RHS
57	R7	Precast block		320	320	320	0.85	272	LHS
58	R7	Precast block		320	320	320	0.85	272	RHS
	<b>Total =</b>		<b>18,847.00</b>	<b>3390</b>	<b>22,237.00</b>	<b>22,237.00</b>		<b>24,721.60</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	69,478.73	2,280.00	71,758.73	96.23%
2	Sub Base	m	74,573.60	68,973.73	1,595.00	70,568.73	94.63%
3	Base	m	74,573.60	68,158.69	1,340.24	69,498.93	93.20%
4	Prime/Tack	m	74,573.60	66,197.69	2,542.31	68,740.00	92.18%
5	Asphalt	m	74,573.60	65,997.69	2,540.24	68,537.93	91.91%

### 3.1.4. ROAD SIDE DRAIN

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

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

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



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



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



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





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



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



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



SN	Road Number	Name of Road	Length in m					Work Completed		Remarks
			Original	Revised	Progress		Total	Brick	RCC	
					Previous	This Month		m	m	
153	R17, T3L35				227.00		227.00	227.00		
154	T3L20	Janani Marga			275.00		275.00	275.00		
155	N34, T3L31A				168.00		168.00	168.00		
156	T2L19W	Bhugol Marga			57.00		57.00	57.00		
157	T2L19V	Bhugol Marga			90.00		90.00	90.00		
158	T1L8B	School Marga			285.00		285.00	285.00		
159	T2L19K	Sundar Marga			207.00		207.00	207.00		
160	T2L19o				70.00		70.00	70.00		
161	T3L26E	R29 Branch 3			248.00		248.00	248.00		
162	T1L16C	CPN-UML office opposite			204.00		204.00	204.00		
163	T1L17	R181---R90			84.60		84.60	84.60		
164	R70	Himalaya Road			200.00		200.00	200.00		
165	R6	Abadhnarayan Memorial Road			400.00		400.00	400.00		
166	R71	Morang Sahakari Hospital			107.00		107.00	107.00		
167	T1L13	Om Shiv Marg			72.50		72.50	72.50		
168	R4 Branch	Jatuwa Marga			185.00		185.00	185.00		
169	N1				100.00		100.00	100.00		
170	R111				215.00		215.00	215.00		
171	N40				30.00		30.00	30.00		
172	T3L24B	Asta Chiranjivi Marga			72.00		72.00	72.00		
	<b>Total</b>				<b>39,122.11</b>	<b>0</b>	<b>39,122.11</b>	<b>37,662.11</b>	<b>1460.00</b>	



### 3.2. ENVIRONMENTAL ASPECT

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

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

#### 3.2.1. BORROW/ QUARRY SITES

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

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

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

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

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

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

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

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



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



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

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

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

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

### **3.2.4. CRUSHING PLANTS**

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

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

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

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

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

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

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

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

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



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

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

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

### 3.3. SOCIAL ASPECT

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

### 3.4. SAFEGUARD/ GESI COMPONENT

#### 3.4.1. COMMUNITY AWARENESS:

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

#### 3.4.2. GRIEVANCE REDRESSES MECHANISM:

- ❖ Although many grievances are received verbally and written, all Total 267 no. of grievances have been registered formally up to November 2020. Among them, 17 grievances are registered in GRC desk, total 77 no. of grievances are listed in PIU registered similarly, 162





Grievances are received through telephone in PIU. Received all grievances have immediately been addressed and solved. Received grievances are tabled in Social Safeguard desk, SD discussed over different grievances and social and environmental agendas to immediate mitigate of public complains. Total 15 no. of SD meeting has held up to this reporting period. Project manager has chaired the meeting. GRC meeting has held as per need and mayor has chaired the meeting.

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

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

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

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

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

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

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



distancing, wash hand frequently, how to stay at camp, to use sanitizer and wear mask to protect yourself).The contractor's submitted Standard Operating Procedures for COVID-19 Risk Management at Workplace SoP has already been approved and the procurement and supply of goods as per SoP has already been done.

- vi. Separate Isolation room in emergency, sanitizer, thermal gun for fever detection, oximeter etc are provided in Contractor's camp and Consultant's office.The photos have been attached at Annex.

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

### 3.4.5. STATUS OF RELOCATION OF SERVICES

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

Relocation of water supply pipe lines at R26 (L=500m) is going on in 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	24	66	90	0	14	8	10	61	0
Non local	53	154	185	22	43	39	7	118	0
Indian	2	12	14	0	0	0	14	0	0
<b>TOTAL</b>	<b>79</b>	<b>232</b>	<b>289</b>	<b>22</b>	<b>57</b>	<b>44</b>	<b>31</b>	<b>179</b>	<b>0</b>



### 3.5. FINANCIAL PLAN

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

#### 3.5.1. DISBURSEMENT RECORDS IN CONSTRUCTION

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

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



9	IPC 09	10 <sup>th</sup> June 2019	1 <sup>st</sup> May 2019 to 31 <sup>st</sup> May 2019	90,419,375.33	
10	IPC 10	11 <sup>th</sup> July 2019	1 <sup>st</sup> June 2019 to 30 <sup>th</sup> June 2019	67,863,056.59	
11	IPC 11	30 <sup>th</sup> September 2019	1 <sup>st</sup> July 2019 to 30 <sup>th</sup> September 2019	95,296,297.30	
12	IPC 12	3 <sup>rd</sup> November 2019	1 <sup>st</sup> October 2019 to 31 <sup>st</sup> October 2019	53,113,369.86	
13	IPC 13	30 <sup>th</sup> November 2019	4 <sup>th</sup> June 2019 to 30 <sup>th</sup> June 2019	125,965,923.87	
14	IPC 14	31 <sup>st</sup> December 2019	1 <sup>st</sup> December 2019 to 31 <sup>st</sup> December 2019	63,509,092.84	
15	IPC 15	4 <sup>th</sup> February 2020	1 <sup>st</sup> Jan 2020 to 31 <sup>st</sup> Jan 2020	232,027,037.24	
16	IPC 16	1 <sup>st</sup> March 2020	1 <sup>st</sup> Feb, 2020 – 29 <sup>th</sup> Feb, 2020	102,186,834.62	
17	IPC 17	1 <sup>st</sup> July 2020	1 <sup>st</sup> March, 2020 – 30 <sup>th</sup> June, 2020	153,448,663.15	
18	IPC 18	05 <sup>th</sup> Oct. 2020	1 <sup>st</sup> July, 2020 – 30 <sup>th</sup> Sep, 2020	90,563,317.45	
19	IPC 19	2 <sup>nd</sup> Dec 2020	1 <sup>st</sup> Oct 2020 to 30 <sup>th</sup> Nov 2020	88,324,292.52	
<b>Total amount excluding PA &amp; Mobilization advance till date =</b>				<b>2,621,934,208.79</b>	

**Note:**

- Physical progresses are lagging due to pandemic COVID-19.
- Revised EOT-04 for civil work has been submitted to the Employer.



## 4. OBJECTIVES AND SCOPE OF WORKS

### 4.1. OBJECTIVES

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

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

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

### 4.2. SCOPE OF WORKS

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

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

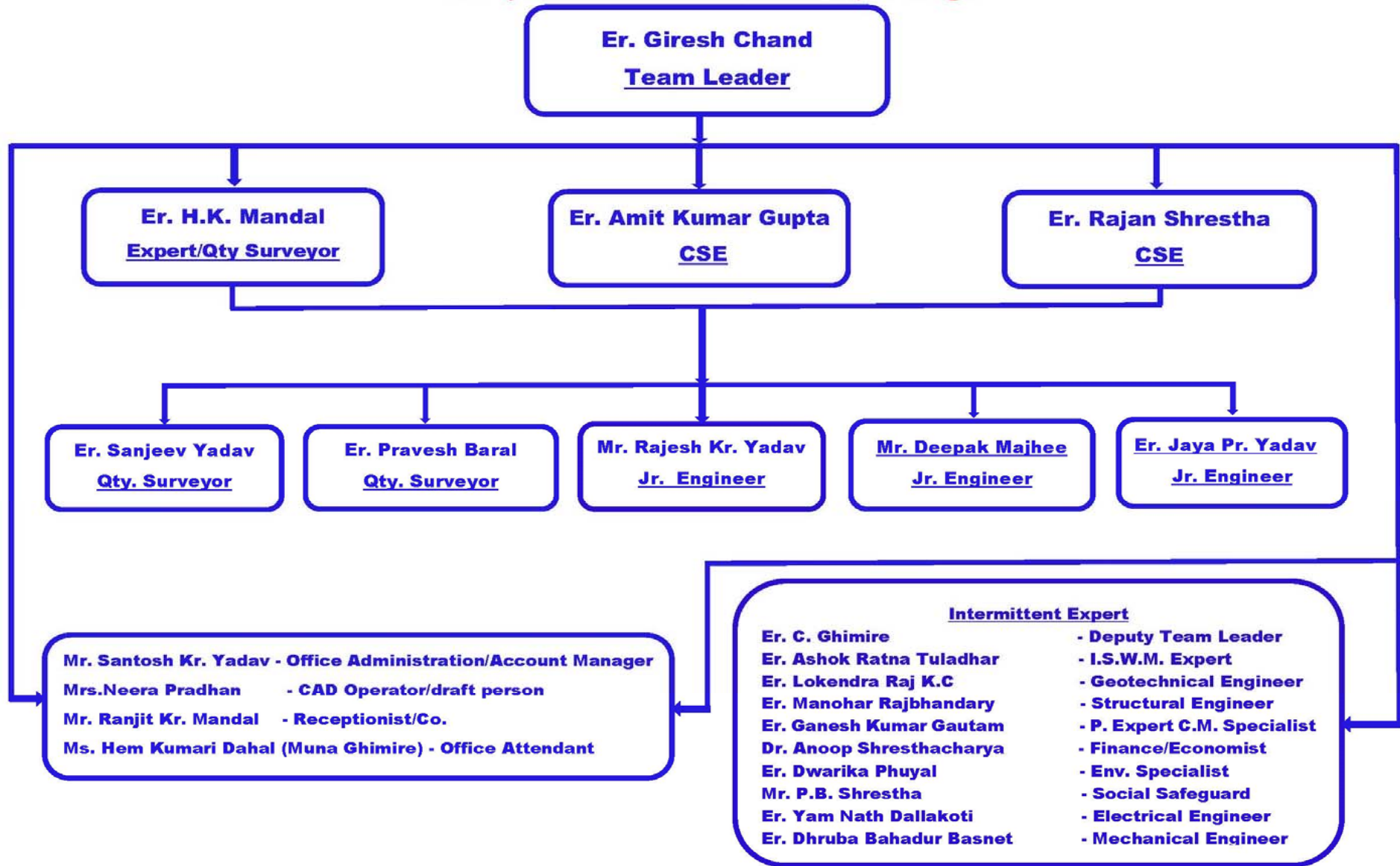


#### 4.3. ORGANIZATION AND STAFFING

Attached

## ORGANIZATION CHART

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



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

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

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

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





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

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

## 5. PROGRESS OF SUB – PROJECT COMPONENTS

### 5.1. CONSTRUCTION MATERIALS

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

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

### 5.2. PROGRESS ACHIEVED TILL DATE

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



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

### 5.3. KEYEVENTS

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

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

S. No.	Date	Activities/Events	Remarks
1		<ul style="list-style-type: none"> <li>ADB Mission (The virtual meeting for Review Mission was held on 2 &amp; 4 December 2020)</li> </ul>	
2		<ul style="list-style-type: none"> <li>As usual conferred about the awareness and training on COVID-19, regarding maintain physical distancing, frequently hand washing, use of PPE (masks, gloves, etc.).</li> <li>Monitoring compliances of PPE's during Pandemic due to COVID-19.</li> </ul>	



## 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		93001.00	3050.00	96051.00	Under progress
2	Kerb Stone	Rm	127,247.02	101,210.80	1080.00	102,290.80	80.39%

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

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



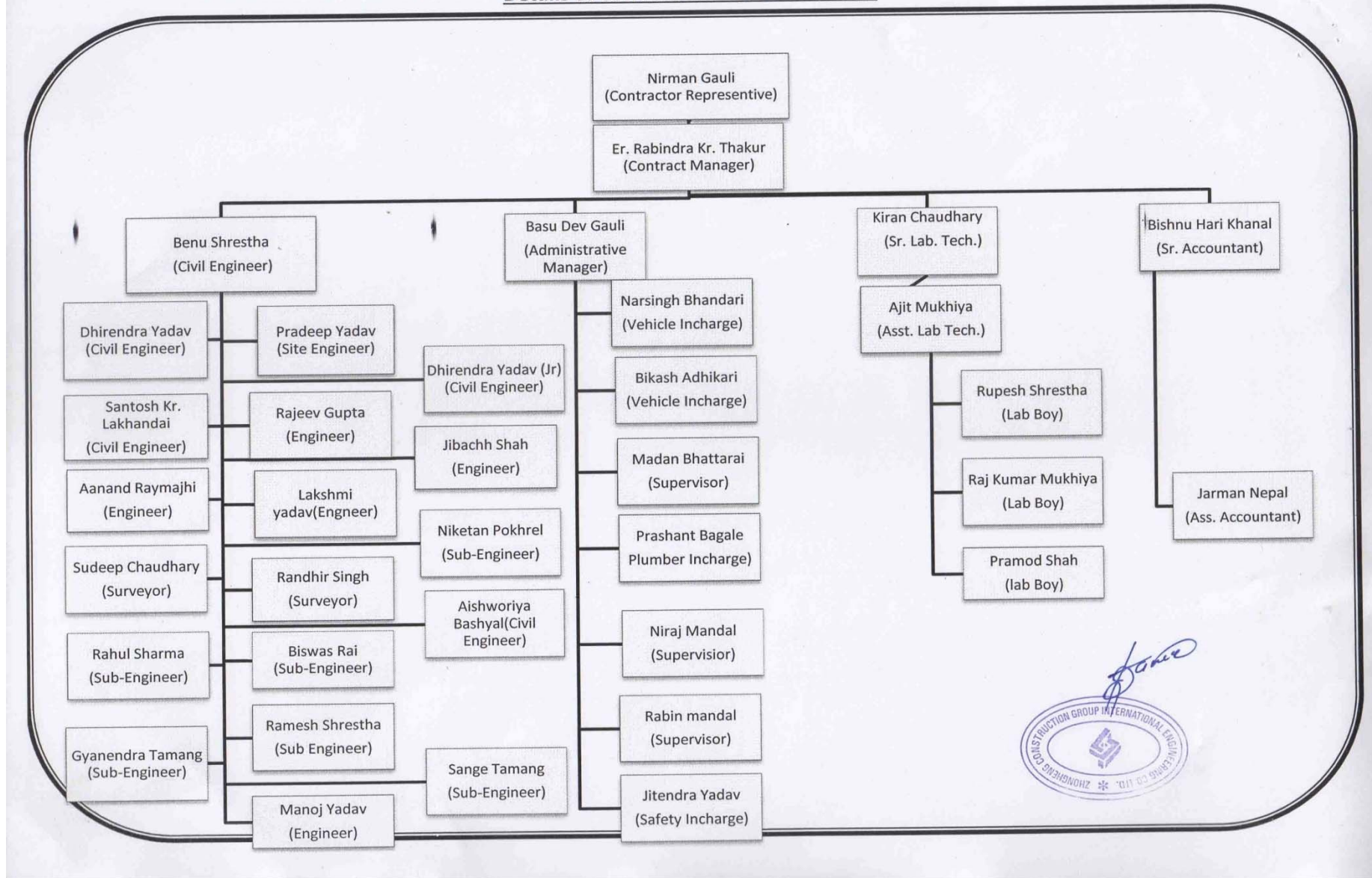
**Table 11: PHYSICAL PROGRESS in PRODUCTION/PURCHASE OF HDPE Pipe till date.**

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

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

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

Details of Contractor's Site Personnel's



## 7. CONTRACTOR'S MANPOWER

Table 13: CONTRACTOR'S KEY STAFFS.

S.No.	Position	Minimum Number Required as per Contract	ZHONGHENG CONSTRUCTION Group	Remarks
1	Project/Contract Manager (1 No) 15/10 Yrs. (Total/Similar Exp.)	1	1	
2	Civil Engineer-10/6	2	2	
3	Sanitary Engineer- (1no.)-12/8	1	-	
4	Road Engineer-(1no.)-12/8	1	1	
5	Electromechanical Engineer-(1no)- 10/5	1	-	
6	Safety Engineer	-	1	
7	Site Engineer	-	4	
8	Sub- Engineer	-	3	
9	Accountant	-	2	
10	Lab Technician	-	1	
11	Store Keeper	-	1	
12	Vehicle In charge	-	1	
13	Skilled Labors		79	
14	Unskilled Labors		232	



## 8. CONTRACTOR'S EQUIPMENT

Table 14: CONTRACTOR'S EQUIPMENT

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





S.No.	Equipment Type and Characteristics	Min Number required as per Contract	ZHONGHENG CONSTRUCTION Group	Remarks
16	Survey equipment (Total station with accessories)	2		
17	Theodolite	1	-	
18	Levelling	2	5	
19	Mobile Generator 15-20 KVA	5	6	
20	Mixer Machine	3	5	
21	Concrete Batching Plant	1	-	
22	Concrete pump	1	-	
23	Drain cleaner/ Nala cleaner	2	-	
24	Broomer	-	2	
25	Motor Bike	-	13	
26	Plate Compactor	-	5	
27	Water Pump	-	2	

## 9. WORK PLAN FOR THE NEXT MONTH

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

- Detail Surveying works at various Road sections.
- Road works
- Precast elements production works at contractor's yard.
- Road Side drain maintenance work
- Laying of Kerb Stone, cover slab and interlocking tiles.
- Kerbstone painting work
- Placement of 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.



## ANNEX-1: Photographs of December 2020





Asphalt work at Ghoghapaini



Base work at Ghoghapaini





Line Level correction work at R6



Thermoplastic work at T3Line22A





Interlocking work at R7 (near Sahid Stadium)



Moulding for CBR of Subbase at Lab





Public Notice for Road closure



Water sprinkling for dust minimization

## ANNEX-2: Minutes of Meeting December 2020

(NA)



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













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

Month	December
Year	2020
Type of Material	Sub-Grade

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

















## REGIONAL URBAN DEVELOPMENT PROJECT

Biratnagar Metropolitan City

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

### Summary Sheet of Monthly Test Report

Location:-B-2,Branch

Month:	December
Year	2020
Type of Material	Sub grade

[illegible]

Contractor

ZHONGHENG CONSTRUCTION GROUP INTERNATIONAL  
ENGINEERING CO. LTD.

## Consultant

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

Checked By  
Engineer  
Dhirendra yadav

Submitted By  
Contract Manager  
Rabindra Kr. Thakur

**Verified By**  
Expert Qty surveyor/CSE  
H.k. Mandal/Rajan Shrestha

**Approved By**  
Team Leader  
Giresch Chand















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

Month:	December
Year	2020
Type of Material	Sub grade

[illegible]

### Consultant

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

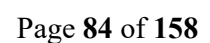
**Approved By**  
Team Leader  
Giresch Chand



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

**Location:-R-111**

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





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

### Summary Sheet of Monthly Test Report

**Location :-T3L26H**

[illegible]





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

### Summary Sheet of Monthly Test Report

**Location :-T3L22**

[illegible]

Sp

Contractor

ZHONGHENG CONSTRUCTION GROUP INTERNATIONAL  
ENGINEERING CO., LTD

### Consultant

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

Checked By \_\_\_\_\_

Engineer

Dhirendra Yadav

Submitted By \_\_\_\_\_

Contract Manager

**Rabindra Kr. Thakur**

Verified By

Verified By  
Port City Supply

Export Qty Surveyor/CSE

H.K. Mandal/Rajan Shrestha

Approved \_\_\_\_\_

Team Leader

**Gireesh Chand**





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

### Summary Sheet of Monthly Test Report

Consultant  
P.L.D. IN JOINT VENTURE  
ENGINEERS & ARCHITECTS (P)











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

### Summary Sheet of Monthly Test Report

**Location :-R-12,(New gudri to panchali Road)**

[illegible]

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

### Summary Sheet of Field Density Test

**Location:-R-12,(New gudri to Panchali Road)**

[illegible]



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

Contract No:- RUDP/ICB/BRT-02

## Summary Sheet of Monthly Test Report

[illegible]












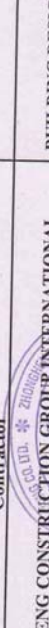
**Biratnagar Metropolitan City**  
**Contract No:- RUDP/ICB/BRT-02**

### Summary Sheet of Monthly Test Report

**Location :-R-181A**

[illegible]

Spec. Limit :	100
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<p><b>Contractor</b></p> <p><b>ZHONGHENG CONSTRUCTION GROUP INTERNATIONAL ENGINEERING CO. LTD</b></p> 	<p><b>Consultant</b></p> <p><b>BUILDING DESIGN AUTHORITY (P) LTD IN JOINT VENTURE WITH B.N. CONSULTANCY PVT. LTD AND PLUS ENGINEERS &amp; ARCHITECTS (P) LTD, KATHMANDU, NEPAL</b></p> 
<p>.....</p> <p><b>Checked By</b> Engineer</p> <p><i>[Signature]</i></p> <p><b>Dhirendra Yadav</b></p>	<p>.....</p> <p><b>Submitted By</b> Contract Manager</p> <p><i>[Signature]</i></p> <p><b>Rabindra K.r. Thakur</b></p>
<p>.....</p> <p><b>Verified By</b> Expert Qty Surveyor/CSE</p> <p><i>[Signature]</i></p> <p><b>H.K. Mandal/Rajan Shrestha</b></p>	<p>.....</p> <p><b>Approved By</b> Team Leader</p> <p><i>[Signature]</i></p> <p><b>Gresh Chand</b></p>







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

### Summary Sheet of Monthly Test Report

Consultant  
LLTD IN JOINT VENTURE  
& ARCHITECTS (PVT) LTD.







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

### Summary Sheet of Monthly Test Report

**Location :-B-2,Branch**

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Spec

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





## Biratnagar Metropolitan City

Contract No: RU DP/ICB/BRT-02

### Summary Sheet of Monthly Test Report

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Is

Contractor

Consultant

ZHONGHENG CONSTRUCTION GROUP INTERNATIONAL ENGINEERING

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

Checked By  
Engineer

Submitted By  
Contract Manager

Verified By  
Expert City State

Submitted By	Verified By
Contract Manager	Expert Qty Surveyor/CSE
Ravindra K. Thakur	H.K. Mandal/Rajan Shrestha

Approved By  
Team Leader  
Gireesh Chand



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

**Location:-R-4,(WWTP)**

<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>Checked By Engineer Dhirendra Yadav</p>	<p>Submitted By Contract Manager Ravindra K. Thakur</p>
<p>Verified By Expert Qty Surveyor/CSE H.K. Mandal/Rajan Shrestha</p>	<p>Approved By Team Leader Gresh Chaud</p>



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

## Summary Sheet of Monthly Test Report

**Location:-R-181A**

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S

Contractor

Contractor



ZHONGHENG CONSTRUCTION GROUP INTERNATIONAL ENGINEERING CO., LTD.

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

Checked By  
Engineer  
Dhirendra vadav

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

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

Approved By  
Team Leader  
Gireesh Chand



**Location:-R-181A**

**Approved By**  
Team Leader  
Giresh Chand

## Summary Sheet of Monthly Test Report

**Location:-R-111A**

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Sp

Contractor

Consultant

ZHONGHENG CONSTRUCTION GROUP INTERNATIONAL ENGINEERING CO.

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

Checked By  
Engineer  
Dhirendra vadav

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

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

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





## REGIONAL URBAN DEVELOPMENT PROJECT

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

## Summary Sheet of Monthly Test Report

		Month		December 2020																		
		Year																				
		Type of Material		Base																		
		L.A.A. %	FI and EI %	A.I.V. %	CR %	CBR %	Remarks															
Location:-R-6,(South of golchha Road)																						
S.N.	Lab Ref no.	Location of Sample	Source of Sample	Date of Testing	Sieve Size in mm / % passing By Weight										MDD	OMC	PI%	A.I.V. %	CR %	CBR %	Remarks	
					40	31.5	20	10	4.75	2.36	0.6	0.075										
1	RUDP-B-01	R-6,(0+050)	Chisang Khola	3-Dec-20	100	91.09	64.08	53.05	36.71	29.51	15.28	3.69	0.075	2.242	5.70	NP	31.50	18.51/15.04	21.13	81.56	82.00	
2	RUDP-B-02	R-6,(0+120)	Chisang Khola	3-Dec-20	100	86.61	64.92	53.27	42.92	28.39	15.19	8.25										
3	RUDP-B-03	R-6,(0+340)	Chisang Khola	3-Dec-20	100	89.45	67.30	55.61	43.82	26.90	13.96	5.89										
4	RUDP-B-04	R-6,(0+390)	Chisang Khola	4-Dec-20	100	88.81	67.04	54.27	42.26	31.55	21.80	9.18										
5	RUDP-B-05	R-6,(0+430)	Chisang Khola	4-Dec-20	100	89.75	69.85	57.80	44.08	33.30	20.51	6.55										
					Spec. Limit : 100 85-100 62-92 40-70 26-55 21-53 12-28 2-10																	
		Contractor		Consultant																		
		ZHONGHENG CONSTRUCTION GROUP INTERNATIONAL ENGINEERING CO.,LTD		BUILDING DESIGN AUTHORITY (P) LTD IN JOINT VENTURE WITH B.N. CONSULTANCY PVT. LTD AND PLUS ENGINEERS & ARCHITECTS (P) LTD, KATHMANDU, NEPAL																		
		Checked By Engineer Dhirendra Yadav		Submitted By Contract Manager Rabindra Kr. Thakur		Verified By Expert Qty Surveyor/CSE H.K. Mandal/Rajan Shrestha		Approved By Team Leader Gireesh Chand														





### Summary Sheet of Field Density Test

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



## Summary Sheet of Monthly Test Report

Contractor

CHINA GROUP INTERNATIONAL ENGINEERING CO., LTD.

CHINA GROUP INTERNATIONAL ENGINEERING CO., LTD.



Contract No:- RUDP/ICB/BRT-02

Summary Sheet of Field Density Test

## Summary Sheet of Monthly Test Report

Contractor



### Summary Sheet of Field Density Test

Base

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



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

### Summary Sheet of Monthly Test Report

Contractor



Summary Sheet of Field Density Test

Month	December
Year	2020
Type of Material	Base

Approved By  
Team Leader  
Giresch Chand

### Summary Sheet of Monthly Test Report

ZHONGHENG CONSTRUCTION GROUP INTERNATIONAL ENGINEERING

BUILDING DESIGN AUTHORITY (P) LTD IN JOINT VENTURE WITH  
B.N. CONSULTANCY PVT. LTD AND PLUS ENGINEERS &  
ARCHITECTS (P) LTD, KATHMANDU, NEPA<sup>1</sup>

Submitted By  
Contract Manager  
Rabindra Kr. Thakur

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

Approved By  
Team Leader  
Gireesh Chand



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

### Summary Sheet of Field Density Test

**Location:-**Ghoghapainai

<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;">Checked By Engineer Dhirendra Yadav</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;">Submitted By Contract Manager Rabindra Kr. Thakur</p>
<p style="text-align: center;">Verified By Expert Qty Surveyor/CSE H.K. Mandal/Rajan Shrestha</p>	<p style="text-align: center;">Approved By Team Leader Girish Chand</p>



## Summary Sheet of Monthly Test Report

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### Summary Sheet of Field Density Test

**Location:-T1L16C**



### Summary Sheet of Monthly Test Report

Contractor



**Location:-N-35**



## REGIONAL URBAN DEVELOPMENT PROJECT

Biratnagar Metropolitan City

Contract No: RUDP/ICB/BRT-02

## Daily Application Rate Check for Priming work

## SUMMARY FOR THE MONTH OF DECEMBER 2020

Type of Bitumen: 80/100 P.G

Cutter Percentage: MC 70: MC 30

Cutter Percentage:MC 70:MC30											Page no 1 of 1	
SN NO	Location	Date of Priming	Station		Side of Priming	Area of Priming ( m2)	Intersection Area m2	Total Area M2	Bitumen Consumption (Ltr)	Application Rate By Deep Ltr/m2	Application Rate Bt Tray Test Ltr/m2	
1	R-70	1-Dec-20	0+000	0+138	Both side	1508.34	0.00	1508.34	1600	1.06	1.04	
2	T1L16C	2-Dec-20	0+000	0+212	Both side	954.00	0.00	954.00	1000	1.05	1.03	
3	R-4,WWTP	4-Dec-20	1+988	2+188	Both Side	1510.00	0.00	1510.00	1600	1.06	1.05	
4	R-4,WWTP	7-Dec-20	1+193	1+493	Both Side	1938.00	0.00	1938.00	2100	1.08	1.04	
5	R-4,WWTP	8-Dec-20	1+493	1+843	Both Side	2642.50	0.00	2642.50	2875	1.09	1.06	
6	R-6	16-Dec-20	0+000	0+311	Both Side	1772.70	0.00	1772.70	1900	1.07	1.04	
7	R-6	17-Dec-20	0+311	0+462	Both Side	1247.26	0.00	1247.26	1350	1.08	1.04	
8	N-34	18-Dec-20	0+000	0+168	Both Side	633.36	0.00	633.36	675	1.07	1.03	
9	N-35	18-Dec-20	0+000	0+081	Both Side	340.20	0.00	340.20	350	1.03	1.02	
10	Ghoghapaini	23-Dec-20	0+340	0+665	Both Side	2203.20	0.00	2203.20	2350	1.07	1.05	
11	R-12	24-Dec-20	1+350	1+665	Both Side	1512.00	0.00	1512.00	1650	1.09	1.04	
12	R-4,WWTP	25-Dec-20	1+843	1+988	Both Side	952.65	0.00	952.65	1025	1.08	1.05	
13	Ghoghapaini	27-Dec-20	0+000	0+340	Both Side	2414.00	0.00	2414.00	2550	1.06	1.04	
14	R-111A	30-Dec-20	0+000	0+059	Both Side	253.70	0.00	253.70	275	1.08	1.03	
								Total	21300			

Required specification for Prime coat 1.0 Lit/M<sup>2</sup> ± 5% Specific Gravity of Bitumen 1.039

Contractor


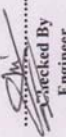

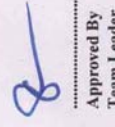
Consultant

ZHONGHENG CONSTRUCTION GROUP INTERNATIONAL ENGINEERING CO. LTD

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

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



REGIONAL URBAN DEVELOPMENT PROJECT Biratnagar Metropolitan City Contract No: RUDP/ICB/BRT-02 Daily Application Rate Check for TACK COAT SUMMARY FOR THE MONTH OF DECEMBER-2020											Page no 1 of 1
Type of Bitumen: 80/100 P.G											
S.N.	Location	Date of Tack coat	From	Station to	Side of Tack coat	Area of Tack coat	Intersection Area m <sup>2</sup>	Total Area M <sup>2</sup>	Bitumen Consumption	Application Rate By Dip Lit/m <sup>2</sup>	Application Rate By Tray Test Lit/m <sup>2</sup>
1	R-4, Branch Road	3-Dec-20	0+000	0+120	BHS	1070.88	0.00	1070.88	600	0.56	0.53
2	TIL16C	4-Dec-20	0+000	0+212	BHS	954	0.00	954	550	0.58	0.56
3	R-4, WWTP	7-Dec-20	1+988	2+188	BHS	1510	0.00	1510	875	0.58	0.55
4	R-4, WWTP	10-Dec-20	1+193	1+493	BHS	1938	0.00	1938	1100	0.57	0.53
5	R-4, WWTP	12-Dec-20	1+493	1+843	BHS	2642.50	0.00	2642.50	1525	0.58	0.55
6	R-6	19-Dec-20	0+000	0+311	BHS	1886.70	0.00	1886.70	1000	0.53	0.51
7	R-6	20-Dec-20	0+311	0+465	BHS	1272.04	0.00	1272.04	750	0.59	0.56
8	N-34	20-Dec-20	0+000	0+168	BHS	646.80	0.00	646.80	350	0.54	0.52
9	N-35	20-Dec-20	0+000	0+081	BHS	340.20	0.00	340.20	200	0.59	0.49
10	Ghaghapaini	25-Dec-20	0+340	0+665	BHS	2203.20	0.00	2203.20	1275	0.58	0.54
11	R-12	25-Dec-20	1+350	1+665	BHS	1527.75	0.00	1527.75	875	0.57	0.55
12	R-4, WWTP	28-Dec-20	1+843	1+988	BHS	942.50	0.00	942.50	550	0.58	0.52
								Total	9650		
Required tack coat is 0.40 to 0.60 Lit/M <sup>2</sup> According to Road Note -3, Section 711.2											
Specific Gravity of Bitumen 1.039											
											
 Checked By Engineer Dharendra Yadav						 Submitted By Contract Manager Rabindra Kr. Thakur					
						 Verified By Expert Qty Surveyor/CSE H.K. Mandal/Rajan Shrestha					
						 Approved By Team Leader Gireesh Chand					



REGIONAL URBAN DEVELOPMENT PROJECT																	
Biratnagar Metropolitan City																	
Contract No: RUDP/CB/BRT-02																	
Test Result BY MARSHALL METHOD (AASHTO T 245-78)																	
SUMMARY FOR THE MONTH OF DECEMBER 2020																	
S. No.	LAB REF. NO.	Date of Laying	Location of Work ch:	Mix Agg Gradation								Blow Count From Extraction Test %	Mix Density g/mcc	Air Voids %	VMA %	Stability N	Flow mm
				% Passing Sieve Sizes mm													
				20	16	9.5	4.75	2.36	0.6	0.075							
1	272	3/12/2020	R-4, Branch Road, (0+000 to 0+120)	100	100	81.76	55.78	35.00	17.29	7.43	5.69	2.367	3.72	16.93	10091	2.45	
2	273	4/12/2020	T1116C, (0+000 to 0+212)	100	100	79.11	56.31	35.31	17.49	7.10	5.71	2.364	3.78	16.76	9760	2.38	
3	274	7/12/2020	R-4, WWTP, (1+988 to 2+188)	100	100	78.48	57.18	37.15	18.71	7.26	5.65	2.364	4.18	17.03	9536	2.40	
4	275	10/12/2020	R-4, WWTP, (1+193 to 1+493)	100	100	77.20	56.42	35.21	16.76	6.58	5.69	2.375	3.52	16.52	9931	2.30	
5	276	12/12/2020	R-4, WWTP, (1+493 to 1+843)	100	100	80.06	55.04	36.37	18.13	7.53	5.70	2.364	4.06	17.03	9803	2.50	
6	277	19/12/2020	R-6, (0+000 to 0+311)	100	100	81.44	54.61	34.25	20.78	7.95	5.70	2.372	3.82	16.83	10123	2.50	
7	278	20/12/2020	R-6, (0+311 to 0+465)	100	100	81.97	55.99	35.84	18.45	6.36	5.71	2.363	3.78	16.76	10283	2.43	
8	279	20/12/2020	N-34, (0+000 to 0+168)	100	100	82.08	56.30	36.79	19.82	8.04	5.72	2.371	3.64	16.68	10101	2.40	
9	280	20/12/2020	N-35, (0+000 to 0+081)	100	100	81.87	56.10	35.21	17.61	7.65	5.69	2.370	3.81	16.79	10165	2.32	
10	281	25/12/2020	Ghoghnapaini, (0+340 to 0+665)	100	100	78.26	56.84	36.80	18.56	7.00	5.70	2.366	3.94	16.92	9845	2.43	
11	282	25/12/2020	R-12, (1+350 to 1+665)	100	100	78.48	56.74	36.91	18.46	7.01	5.69	2.364	3.70	16.63	9867	2.42	
12	283	28/12/2020	R-4, WWTP, (1+843 to 1+988)	100	100	78.26	55.57	34.36	17.07	6.57	5.70	2.366	3.57	16.55	9877	2.55	
REMARKS:																	
Job Mix Tolerances from RUDP Specification Table 2.4-10				±5%	Nil	±5%	±3%	±2%	±1%	Nil	±0.3%	Min 2.358	3-6%	≥ 15	≥ 8500	2-3	
Contractor				For (25-51)mm Thickness W/C Course													
ZHONGHENG CONSTRUCTION GROUP INTERNATIONAL ENGINEERING CO. LTD				Consultant													
Submitted By Contract Manager Rabindra Kr. Thakur				BUILDING DESIGN AUTHORITY (P) LTD IN JOINT VENTURE WITH B.N. CONSULTANCY PVT. LTD AND PLUS ENGINEERS & ARCHITECTS (P) LTD, KATHMANDU, NEPAL													
Checked By Engineer Dhirendra yadav				Approved By Team Leader Gresh Chand													





## REGIONAL URBAN DEVELOPMENT PROJECT

Biratnagar Metropolitan City

Contract No:- RUDP/ICB/BRT-02

## Summary Sheet of Concrete Cube Test Report

Page No 1 of 1

S.N.	Location	Lab Ref.no.	Type of Cement	Brand of Cement	Source of Sand+Agg.	Date of Casting	Month		December	
							Year		2020	
							Type of Material		Conc. Cube	
							Date of Testing		Strength, N/mm <sup>2</sup>	
							7 Days	28 Days	7 Days	28 Days
1	R-109	RUDP-3737	Ambe Hi-Tech	OPC	Chisang Khola	3-Nov-20	10-Nov-20	1-Dec-20	23.13	M20
2	R-12	RUDP-3738	Ambe Hi-Tech	OPC	Chisang Khola	3-Nov-20	10-Nov-20	1-Dec-20	22.76	M20
3	Koshi Yard	RUDP-3739	Ambe Hi-Tech	OPC	Chisang Khola	4-Nov-20	11-Nov-20	2-Dec-20	22.44	M20
4	S-13,East	RUDP-3740	Ambe Hi-Tech	OPC	Chisang Khola	4-Nov-20	11-Nov-20	2-Dec-20	22.44	M20
5	TIL14C	RUDP-3741	Ambe Hi-Tech	OPC	Chisang Khola	4-Nov-20	11-Nov-20	2-Dec-20	22.52	M20
6	N-39	RUDP-3742	Ambe Hi-Tech	OPC	Chisang Khola	5-Nov-20	12-Nov-20	3-Dec-20	21.89	M20
7	R-29,Branch	RUDP-3743	Ambe Hi-Tech	OPC	Chisang Khola	5-Nov-20	12-Nov-20	3-Dec-20	23.36	M20
8	Madhumara Yard	RUDP-3744	Ambe Hi-Tech	OPC	Chisang Khola	6-Nov-20	13-Nov-20	4-Dec-20	23.23	M30
9	N-40	RUDP-3745	Ambe Hi-Tech	OPC	Chisang Khola	6-Nov-20	13-Nov-20	4-Dec-20	22.52	M20
10	R-12	RUDP-3746	Ambe Hi-Tech	OPC	Chisang Khola	7-Nov-20	14-Nov-20	5-Dec-20	22.76	M20
11	R-121	RUDP-3747	Ambe Hi-Tech	OPC	Chisang Khola	7-Nov-20	14-Nov-20	5-Dec-20	23.73	M20
12	T3L11F	RUDP-3748	Ambe Hi-Tech	OPC	Chisang Khola	8-Nov-20	15-Nov-20	6-Dec-20	21.89	M20
13	T3L11F	RUDP-3749	Ambe Hi-Tech	OPC	Chisang Khola	9-Nov-20	16-Nov-20	7-Dec-20	22.91	M20
14	Koshi Yard	RUDP-3750	Ambe Hi-Tech	OPC	Chisang Khola	9-Nov-20	16-Nov-20	7-Dec-20	22.76	M20
15	R-29,Branch	RUDP-3751	Ambe Hi-Tech	OPC	Chisang Khola	10-Nov-20	17-Nov-20	8-Dec-20	21.89	M20
16	R-71	RUDP-3752	Ambe Hi-Tech	OPC	Chisang Khola	19-Nov-20	26-Nov-20	17-Dec-20	22.44	M20
17	TIL14C	RUDP-3753	Ambe Hi-Tech	OPC	Chisang Khola	19-Nov-20	26-Nov-20	17-Dec-20	23.76	M20
18	TIL14C	RUDP-3754	Ambe Hi-Tech	OPC	Chisang Khola	20-Nov-20	27-Nov-20	18-Dec-20	21.81	M20
19	R-4,Branch	RUDP-3755	Ambe Hi-Tech	OPC	Chisang Khola	20-Nov-20	27-Nov-20	18-Dec-20	23.28	M20
20	Koshi Yard	RUDP-3756	Ambe Hi-Tech	OPC	Chisang Khola	20-Nov-20	27-Nov-20	18-Dec-20	22.81	M20
21	R-12	RUDP-3757	Ambe Hi-Tech	OPC	Chisang Khola	21-Nov-20	28-Nov-20	19-Dec-20	22.52	M20
22	R-4,Branch	RUDP-3758	Ambe Hi-Tech	OPC	Chisang Khola	22-Nov-20	29-Nov-20	20-Dec-20	22.44	M20
23	R-121	RUDP-3759	Ambe Hi-Tech	OPC	Chisang Khola	23-Nov-20	30-Nov-20	21-Dec-20	23.36	M20
24	Madhumara yard	RUDP-3760	Ambe Hi-Tech	OPC	Chisang Khola	23-Nov-20	30-Nov-20	21-Dec-20	32.50	M30
25	R-10	RUDP-3761	Ambe Hi-Tech	OPC	Chisang Khola	25-Nov-20	2-Dec-20	23-Dec-20	15.27	21.81
26	N-15	RUDP-3762	Ambe Hi-Tech	OPC	Chisang Khola	26-Nov-20	3-Dec-20	24-Dec-20	14.56	22.20
27	R-121	RUDP-3763	Ambe Hi-Tech	OPC	Chisang Khola	26-Nov-20	3-Dec-20	24-Dec-20	16.05	21.65
28	R-72	RUDP-3764	Ambe Hi-Tech	OPC	Chisang Khola	26-Nov-20	3-Dec-20	24-Dec-20	14.80	21.81
29	N-15,Branch	RUDP-3765	Ambe Hi-Tech	OPC	Chisang Khola	28-Nov-20	5-Dec-20	26-Dec-20	16.29	22.20
30	R-4	RUDP-3766	Ambe Hi-Tech	OPC	Chisang Khola	28-Nov-20	5-Dec-20	26-Dec-20	15.11	23.50
31	R-6	RUDP-3767	Ambe Hi-Tech	OPC	Chisang Khola	30-Nov-20	7-Dec-20	28-Dec-20	16.44	22.76
32	R-72	RUDP-3768	Ambe Hi-Tech	OPC	Chisang Khola	1-Dec-20	8-Dec-20	29-Dec-20	14.88	22.83
33	Koshi Yard	RUDP-3769	Ambe Hi-Tech	OPC	Chisang Khola	4-Dec-20	11-Dec-20	1-Jan-21	16.60	M20
34	N-15	RUDP-3770	Ambe Hi-Tech	OPC	Chisang Khola	4-Dec-20	11-Dec-20	1-Jan-21	15.89	M20
35	R-109	RUDP-3771	Ambe Hi-Tech	OPC	Chisang Khola	5-Dec-20	12-Dec-20	2-Jan-21	14.95	M20
36	Madhumara Yard	RUDP-3772	Ambe Hi-Tech	OPC	Chisang Khola	6-Dec-20	13-Dec-20	3-Jan-21	22.36	M30
37	Koshi Yard	RUDP-3773	Ambe Hi-Tech	OPC	Chisang Khola	7-Dec-20	14-Dec-20	4-Jan-21	17.15	M20
38	N-15,Branch	RUDP-3774	Ambe Hi-Tech	OPC	Chisang Khola	7-Dec-20	14-Dec-20	4-Jan-21	16.13	M20
39	R-6	RUDP-3775	Ambe Hi-Tech	OPC	Chisang Khola	8-Dec-20	15-Dec-20	5-Jan-21	15.74	M20
40	Ghoshapaini	RUDP-3776	Ambe Hi-Tech	OPC	Chisang Khola	9-Dec-20	16-Dec-20	6-Jan-21	16.44	M20
41	R-10	RUDP-3777	Ambe Hi-Tech	OPC	Chisang Khola	9-Dec-20	16-Dec-20	6-Jan-21	14.56	M20
42	R-121	RUDP-3778	Ambe Hi-Tech	OPC	Chisang Khola	10-Dec-20	17-Dec-20	7-Jan-21	16.13	M20
43	N-15,Branch	RUDP-3779	Ambe Hi-Tech	OPC	Chisang Khola	10-Dec-20	17-Dec-20	7-Jan-21	15.50	M20
44	Koshi Yard	RUDP-3780	Ambe Hi-Tech	OPC	Chisang Khola	11-Dec-20	18-Dec-20	8-Jan-21	16.99	M20
45	Koshi Yard	RUDP-3781	Ambe Hi-Tech	OPC	Chisang Khola	13-Dec-20	20-Dec-20	10-Jan-21	15.66	M20
46	R-4	RUDP-3782	Ambe Hi-Tech	OPC	Chisang Khola	13-Dec-20	20-Dec-20	10-Jan-21	15.03	M20
47	R-12	RUDP-3783	Ambe Hi-Tech	OPC	Chisang Khola	14-Dec-20	21-Dec-20	11-Jan-21	14.56	M20

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

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

Checked By  
 Engineer  
 Dharendra Yadav



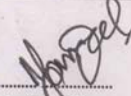

Submitted By  
 Contract Manager  
 Rabindra K. Thakur

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

Approved By  
 Team Leader  
 Gireesh Chand





REGIONAL URBAN DEVELOPMENT PROJECT											
Biratnagar Metropolitan City											
Contract No:- RUDP/ICB/BRT-02											
Summary Sheet of Concrete Cube Test Report											
										Page No 1 of 2	
										Month	
										December	
										Year	
										2020	
										Type of Material	
										Conc. Cube	
S.N.	Location	Lab Ref.no.	Type of Cement	Brand of Cement	Source of Sand+Agg.	Date of Casting	Date of Testing		Strength, N/mm2		Concrete Grade
							7 Days	28 Days	7 Days	28 Days	
48	R-109	RUDP-3784	Ambe Hi-Tech	OPC	Chisang Khola	14-Dec-20	21-Dec-20	11-Jan-21	16.76		M20
49	R-109	RUDP-3785	Ambe Hi-Tech	OPC	Chisang Khola	15-Dec-20	22-Dec-20	12-Jan-21	15.27		M20
50	N-15	RUDP-3786	Ambe Hi-Tech	OPC	Chisang Khola	15-Dec-20	22-Dec-20	12-Jan-21	16.13		M20
51	Madhumara Yard	RUDP-3787	Ambe Hi-Tech	OPC	Chisang Khola	15-Dec-20	22-Dec-20	12-Jan-21	24.34		M30
52	Ghoghapaini	RUDP-3788	Ambe Hi-Tech	OPC	Chisang Khola	16-Dec-20	23-Dec-20	13-Jan-21	15.82		M20
53	R-6	RUDP-3789	Ambe Hi-Tech	OPC	Chisang Khola	16-Dec-20	23-Dec-20	13-Jan-21	14.56		M20
54	R-72	RUDP-3790	Ambe Hi-Tech	OPC	Chisang Khola	16-Dec-20	23-Dec-20	13-Jan-21	16.29		M20
55	R-10	RUDP-3791	Ambe Hi-Tech	OPC	Chisang Khola	18-Dec-20	25-Dec-20	15-Jan-21	14.95		M20
56	R-109	RUDP-3792	Ambe Hi-Tech	OPC	Chisang Khola	19-Dec-20	26-Dec-20	16-Jan-21	16.13		M20
57	R-72	RUDP-3793	Ambe Hi-Tech	OPC	Chisang Khola	19-Dec-20	26-Dec-20	16-Jan-21	16.29		M20
58	R-12	RUDP-3794	Ambe Hi-Tech	OPC	Chisang Khola	20-Dec-20	27-Dec-20	17-Jan-21	14.72		M20
59	R-4	RUDP-3795	Ambe Hi-Tech	OPC	Chisang Khola	21-Dec-20	28-Dec-20	18-Jan-21	17.07		M20
60	Koshi Yard	RUDP-3796	Ambe Hi-Tech	OPC	Chisang Khola	21-Dec-20	28-Dec-20	18-Jan-21	15.89		M20
61	Ghoghapaini	RUDP-3797	Ambe Hi-Tech	OPC	Chisang Khola	22-Dec-20	29-Dec-20	19-Jan-21	15.11		M20
62	R-10	RUDP-3798	Ambe Hi-Tech	OPC	Chisang Khola	23-Dec-20	30-Dec-20	20-Jan-21	16.29		M20
63	Koshi Yard	RUDP-3799	Ambe Hi-Tech	OPC	Chisang Khola	23-Dec-20	30-Dec-20	20-Jan-21	17.46		M20
Contractor						Consultant					
ZHONGHENG CONSTRUCTION GROUP INTERNATIONAL ENGINEERING CO. LTD						BUILDING DESIGN AUTHORITY (P) LTD IN JOINT VENTURE WITH B.N. CONSULTANCY PVT. LTD AND PLUS ENGINEERS & ARCHITECTS (P) LTD, KATHMANDU, NEPAL					
 Checked By Engineer Dharendra Yadav						 Submitted By Contract Manager Rabindra K.Thakur					
 Verified By Expert Qty Surveyor/CSE H.K. Mandal/Rajan Shrestha						 Approved By Team Leader Giresch Chand					





## REGIONAL URBAN DEVELOPMENT PROJECT

Biratnagar Metropolitan City

Contract No:- RUDP/ICB/BRT-02

## Summary Sheet of Mortar Test Report

							Page no. 1 of 1				
							Month		December		
							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	TIL8B	MR-2960	Ambe Hi-Tech	OPC	Chisang Khola	4-Nov-20	11-Nov-20	2-Dec-20	8.50	7.5	
2	N-1	MR-2961	Ambe Hi-Tech	OPC	Chisang Khola	4-Nov-20	11-Nov-20	2-Dec-20	9.30	7.5	
3	N-15	MR-2962	Ambe Hi-Tech	OPC	Chisang Khola	4-Nov-20	11-Nov-20	2-Dec-20	8.77	7.5	
4	R-112	MR-2963	Ambe Hi-Tech	OPC	Chisang Khola	5-Nov-20	12-Nov-20	3-Dec-20	8.23	7.5	
5	N-39	MR-2964	Ambe Hi-Tech	OPC	Chisang Khola	5-Nov-20	12-Nov-20	3-Dec-20	9.17	7.5	
6	R-29,Branch	MR-2965	Ambe Hi-Tech	OPC	Chisang Khola	7-Nov-20	14-Nov-20	5-Dec-20	9.44	7.5	
7	T3L6A	MR-2966	Ambe Hi-Tech	OPC	Chisang Khola	7-Nov-20	14-Nov-20	5-Dec-20	8.50	7.5	
8	R-12	MR-2967	Ambe Hi-Tech	OPC	Chisang Khola	9-Nov-20	16-Nov-20	7-Dec-20	9.71	7.5	
9	R-6	MR-2968	Ambe Hi-Tech	OPC	Chisang Khola	9-Nov-20	16-Nov-20	7-Dec-20	9.17	7.5	
10	N-1	MR-2969	Ambe Hi-Tech	OPC	Chisang Khola	10-Nov-20	17-Nov-20	8-Dec-20	8.50	7.5	
11	R-121	MR-2970	Ambe Hi-Tech	OPC	Chisang Khola	11-Nov-20	18-Nov-20	9-Dec-20	9.57	7.5	
12	T3L6A	MR-2971	Ambe Hi-Tech	OPC	Chisang Khola	19-Nov-20	26-Nov-20	17-Dec-20	8.63	7.5	
13	N-15	MR-2972	Ambe Hi-Tech	OPC	Chisang Khola	20-Nov-20	27-Nov-20	18-Dec-20	8.90	7.5	
14	R-112	MR-2973	Ambe Hi-Tech	OPC	Chisang Khola	20-Nov-20	27-Nov-20	18-Dec-20	9.57	7.5	
15	T3L6A	MR-2974	Ambe Hi-Tech	OPC	Chisang Khola	21-Nov-20	28-Nov-20	19-Dec-20	8.23	7.5	
16	TIL14C	MR-2975	Ambe Hi-Tech	OPC	Chisang Khola	22-Nov-20	29-Nov-20	20-Dec-20	8.90	7.5	
17	R-29,Branch	MR-2976	Ambe Hi-Tech	OPC	Chisang Khola	22-Nov-20	29-Nov-20	20-Dec-20	9.04	7.5	
18	R-112	MR-2977	Ambe Hi-Tech	OPC	Chisang Khola	23-Nov-20	30-Nov-20	21-Dec-20	8.50	7.5	
19	R-12	MR-2978	Ambe Hi-Tech	OPC	Chisang Khola	23-Nov-20	30-Nov-20	21-Dec-20	8.23	7.5	
20	N-15	MR-2979	Ambe Hi-Tech	OPC	Chisang Khola	24-Nov-20	1-Dec-20	22-Dec-20	6.07	9.17 7.5	
21	T3L14C	MR-2980	Ambe Hi-Tech	OPC	Chisang Khola	24-Nov-20	1-Dec-20	22-Dec-20	6.47	8.36 7.5	
22	T3L14C	MR-2981	Ambe Hi-Tech	OPC	Chisang Khola	24-Nov-20	1-Dec-20	22-Dec-20	6.47	8.90 7.5	
23	R-112	MR-2982	Ambe Hi-Tech	OPC	Chisang Khola	26-Nov-20	3-Dec-20	24-Dec-20	5.93	9.04 7.5	
24	R-29,Branch	MR-2983	Ambe Hi-Tech	OPC	Chisang Khola	26-Nov-20	3-Dec-20	24-Dec-20	6.88	8.90 7.5	
25	R-72	MR-2984	Ambe Hi-Tech	OPC	Chisang Khola	26-Nov-20	3-Dec-20	24-Dec-20	6.20	8.63 7.5	
26	TIL24C	MR-2985	Ambe Hi-Tech	OPC	Chisang Khola	28-Nov-20	5-Dec-20	26-Dec-20	6.88	8.63 7.5	
27	R-10	MR-2986	Ambe Hi-Tech	OPC	Chisang Khola	29-Nov-20	6-Dec-20	27-Dec-20	6.20	9.44 7.5	
28	N-15	MR-2987	Ambe Hi-Tech	OPC	Chisang Khola	30-Nov-20	7-Dec-20	28-Dec-20	5.80	8.50 7.5	
29	R-112	MR-2988	Ambe Hi-Tech	OPC	Chisang Khola	1-Dec-20	8-Dec-20	29-Dec-20	6.74	9.57 7.5	
30	R-10	MR-2989	Ambe Hi-Tech	OPC	Chisang Khola	3-Dec-20	10-Dec-20	31-Dec-20	6.20	8.09 7.5	
31	TIL14C	MR-2990	Ambe Hi-Tech	OPC	Chisang Khola	4-Dec-20	11-Dec-20	1-Jan-21	6.47	7.5	
32	N-15	MR-2991	Ambe Hi-Tech	OPC	Chisang Khola	5-Dec-20	12-Dec-20	2-Jan-21	5.80	7.5	
33	R-29,Branch	MR-2992	Ambe Hi-Tech	OPC	Chisang Khola	6-Dec-20	13-Dec-20	3-Jan-21	6.34	7.5	
34	R-71	MR-2993	Ambe Hi-Tech	OPC	Chisang Khola	8-Dec-20	15-Dec-20	5-Jan-21	7.01	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.E. CONSULTANCY PVT. LTD AND PLUS</b> <b>ENGINEERS &amp; ARCHITECTS (P) LTD, KATHMANDU,</b> <b>NEPAL</b>		
 <b>Checked By</b> Engineer Dharendra Yadav	 <b>Submitted By</b> Contract Manager Rabindra Kr. Thakur	 <b>Verified By</b> Expert Qty Surveyor/CSE H.K. Mandal/Rajan Shrestha	 <b>Approved By</b> Team Leader Giresh Chand

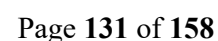




### Summary Sheet of Mortar Test Report

## Brick Wall

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





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

## SUMMARY SHEET OF CEMENT TEST

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Comments:-

Contractor

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

Consultant

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

Checked By  
Engineer

Dhirendra yadav

Submitted By .....

Contract Manager  
Rabindra Kr. Thakur



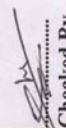



.....  
Verified By

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

Approved By  
Team Leader  
Gireesh Chand

REGIONAL URBAN DEVELOPMENT PROJECT															
Biratnagar Metropolitan City															
Contract No:- RUDP/ICB/BRT-02															
Summary Sheet of Monthly Test Report of Concrete Sand															
Page no 1 of 1															
December 2020															
S.n.	Lab.Ref no.	Date of Testing	Location of Sample	Source of Sample	Sieve Size in mm / % Passing by weight								Type of		Remarks
					10	5.0	2.36	1.18	0.600	0.300	0.150	Clay	Content		
1	RUDP-CS-781	2-Dec-20	R-10	Chisang Khola	100.00	95.47	70.94	48.07	27.35	10.10	5.48	1.08			
2	RUDP-CS-782	5-Dec-20	Madhumara Yard	Chisang Khola	100.00	95.09	65.00	40.44	23.35	10.83	5.78	0.94			
3	RUDP-CS-783	6-Dec-20	Koshi Yard	Chisang Khola	100.00	96.04	79.94	58.77	35.30	14.36	7.36	0.63			
4	RUDP-CS-784	8-Dec-20	N-15	Chisang Khola	100.00	96.29	81.30	63.30	38.64	13.06	5.65	1.60			
5	RUDP-CS-785	10-Dec-20	R-72	Chisang Khola	100.00	94.99	70.53	51.19	29.12	11.81	3.70	1.92			
6	RUDP-CS-786	11-Dec-20	R-109	Chisang Khola	100.00	94.44	71.58	51.73	32.93	15.88	6.35	0.82			
7	RUDP-CS-787	14-Dec-20	N-15	Chisang Khola	100.00	95.92	82.60	55.95	37.47	23.94	4.38	1.17			
8	RUDP-CS-788	16-Dec-20	R-121	Chisang Khola	100.00	94.51	78.77	56.00	34.41	16.84	3.29	0.73			
9	RUDP-CS-789	17-Dec-20	R-4	Chisang Khola	100.00	94.68	80.58	59.67	35.84	16.98	4.06	0.98			
10	RUDP-CS-790	18-Dec-20	TILJAC	Chisang Khola	100.00	92.15	70.02	42.34	24.00	11.22	2.52	0.76			
11	RUDP-CS-791	19-Dec-20	R-72	Chisang Khola	100.00	95.58	77.31	56.10	29.46	16.79	4.42	1.43			
12	RUDP-CS-792	21-Dec-20	R-29 Branch	Chisang Khola	100.00	91.99	76.57	58.19	33.81	16.61	5.34	0.69			
13	RUDP-CS-793	25-Dec-20	R-112	Chisang Khola	100.00	93.95	75.58	58.39	40.01	25.79	9.19	0.81			
14	RUDP-CS-794	27-Dec-20	Ghoghapaini	Chisang Khola	100.00	96.44	69.73	43.86	26.66	14.98	5.33	0.59			
15	RUDP-CS-795	29-Dec-20	Ghoghapaini	Chisang Khola	100.00	94.26	64.67	41.20	21.68	10.20	2.81	0.88			
					Spec. Limit :	100	89-100	60-100	30-100	15-100	5-70	0-15	<3%		

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







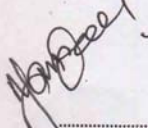



## REGIONAL URBAN DEVELOPMENT PROJECT

Biratnagar Metropolitan City

Contract No:- RUDP/ICB/BRT-02

Summary Sheet Of Monthly Test Report

S.N.	Lab Ref.No.	Testing Date	Location of Sample	Source of Brick	Name of Brick	Water Absorption of Brick(%)	Month	December	Remarks
							Year	2020	
							Type of Material	Brick	
1	1336	2-Dec-20	N-15	Dadarbairya	ACC	16.33	14.84		
2	1337	2-Dec-20	TIL14C	Dadarbairya	ACC	14.78	13.62		
3	1338	4-Dec-20	R-112	Dadarbairya	ACC	15.12	14.39		
4	1339	4-Dec-20	R-29,Branch	Dadarbairya	Aanand	14.90	15.13		
5	1340	7-Dec-20	R-72	Dadarbairya	Aanand	13.71	14.00		
6	1341	9-Dec-20	TIL14C	Dadarbairya	Aanand	15.37	14.16		
7	1342	12-Dec-20	R-10	Dadarbairya	Aanand	16.49	16.21		
8	1343	12-Dec-20	R-109	Dadarbairya	ACC	14.30	14.41		
9	1344	17-Dec-20	R-109	Dadarbairya	ACC	14.50	15.04		
10	1345	19-Dec-20	R-29,Branch	Dadarbairya	ACC	15.75	13.83		
11	1346	19-Dec-20	N-15	Dadarbairya	ACC	15.22	13.83		
12	1347	20-Dec-20	R-109	Dadarbairya	ACC	14.80	16.25		
13	1348	23-Dec-20	R-10	Dadarbairya	Aanand	13.48	13.71		
14	1349	24-Dec-20	TIL14C	Dadarbairya	Aanand	14.72	16.10		
15	1350	25-Dec-20	R-72	Dadarbairya	Aanand	13.24	14.87		
Sp. Limit						<20%	>8 to 10 N/mm <sup>2</sup>		
Comments:-									
									
 Checked By Engineer Dhirendra Yadav						 Submitted By Contract Manager Rabindra Kr. Thakur			
 Verified By Expert Qty Surveyor/CSE H.K. Mandal/Rajar. Shrestha						 Approved By Team Leader Giresh Chand			





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

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

Month Year		December 2020															
Type of Material					20 mm Agg												
S.n.	Lab.Ref no.	Date of Testing	Location of Sample	Source of Sample	Sieve Size in mm / % Passing by weight					L.A.A.%	Fl and El %	A.I.V.%	Remarks				
					37.5	20	14	10	5								
1	RUDP-CA-676	2-Dec-20	Madhumara Yard	Chisang Khola	100.00	91.82	50.71	16.63	3.00	24.92	20.09/18.48	19.34					
2	RUDP-CA-677	4-Dec-20	R-10	Chisang Khola	100.00	87.89	48.64	20.76	4.81	23.10	21.35/16.70	19.50					
3	RUDP-CA-678	6-Dec-20	R-121	Chisang Khola	100.00	93.42	59.18	21.09	3.17	19.60	19.92/16.84	23.02					
4	RUDP-CA-679	9-Dec-20	koshi yard	Chisang Khola	100.00	94.18	39.29	15.43	2.67	21.10	16.79/16.10	20.52					
5	RUDP-CA-680	11-Dec-20	N-15	Chisang Khola	100.00	91.83	39.07	10.49	3.89	22.88	16.49/18.10	21.60					
6	RUDP-CA-681	12-Dec-20	R-109	Chisang Khola	100.00	91.23	41.99	15.57	2.87	22.70	17.34/17.62	18.86					
7	RUDP-CA-682	12-Dec-20	Ghoghapaini	Chisang Khola	100.00	92.03	48.61	12.75	1.28	22.62	19.33/18.21	19.56					
8	RUDP-CA-683	14-Dec-20	R-12	Chisang Khola	100.00	94.72	49.05	14.32	4.28	20.90	15.82/16.47	20.99					
9	RUDP-CA-684	16-Dec-20	R-6	Chisang Khola	100.00	88.72	46.12	14.79	3.76	21.76	21.31/18.89	19.69					
10	RUDP-CA-685	19-Dec-20	R-12	Chisang Khola	100.00	92.12	51.32	16.15	4.33	22.24	18.01/17.36	17.81					
11	RUDP-CA-686	20-Dec-20	koshi yard	Chisang Khola	100.00	94.48	49.33	14.49	2.79	20.02	16.32/15.22	19.22					
12	RUDP-CA-687	23-Dec-20	Madhumara Yard	Chisang Khola	100.00	88.07	42.39	13.58	3.29	19.76	19.94/17.13	20.67					
					Spec. Limit :					100	85-100	0-70	0-25	0-5	<35	<25	<25
					Consultant												
					Contractor												
					BUILDING DESIGN AUTHORITY (P) LTD IN JOINT VENTURE WITH B.N. CONSULTANCY PVT. LTD AND PLUS ENGINEERS & ARCHITECTS (P) LTD, KATHMANDU, NEPAL												
					ZHONGHENG CONSTRUCTION GROUP INTERNATIONAL ENGINEERING CO. LTD												
					Submitted By Contract Manager Rabindra K. Thakur												
					Verified By Expert Qty Surveyor/CSE H.K. Mandal/Raijan Shrestha												
					Approved By Team Leader Gresh Chand												

## ANNEX- 4: SOCIAL& ENVIRONMENT SAFEGUARD

### **Monitoring Formats– December 2020**



**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: December 2020

**Checklist**

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





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

Subproject Road : -RUDP/ICB/BRT/2

Month/Year: Dec. 2020

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

Contract Package: RUDP/ICB/BRT/2

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

Prepared by:



Verified by:



Monitored by:



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



Occupational health and safety

## Regional Urban Development Project (RUDP)/Biratnagar

Name of Sub Project: RUDP/ Biratnagar

Contract Package: RUDP/ICB/BRT/02

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

Month: December 2020

## Checklist

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





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

S.NO	LOCATION	TYPES OF WORK	TYPES OF WORKERS	LABOUR		COMPOSITION		ETHNIC COMPOSITION				Month/Year: December 2020
				SKILLED	UNSKILLED	MALE	FEMALE	JATI	DALIT	MUSLIM	MADHESI	
1	Ghoghapaini	Gutter	LOCAL									
			NON LOCAL	4	12	16		5	5		6	
			INDIAN									
			TOTAL	16								
2	R12	Weep Hole	LOCAL									
			NON LOCAL	3	13	16		8	4		4	
			INDIAN									
			TOTAL	16								
3	T3122	Sub-Grade	LOCAL	2	6	8		5	3			
			NON LOCAL									
			INDIAN									
			TOTAL	8								
4	R10	Brick Work	LOCAL									
			NON LOCAL	3	7	10					10	
			INDIAN									
			TOTAL	10								
5	Koshi Yard	Precast Production	LOCAL									
			NON LOCAL	5	28	33		13	7		13	
			INDIAN									
			TOTAL	33								
6	Bargachhi	Kerbstone	LOCAL	7	15	22					22	
			NON LOCAL									
			INDIAN									
			TOTAL	22								



Regional Urban Development Project (RUDP) Project Implementation Unit (PIU) Biratnagar, Nepal LABOUR DATA										Month/Year: December 2020
7	R109	Drain	LOCAL	4	8	12				
			NON LOCAL						5	7
			INDIAN							
			TOTAL	12						
8	R12	Drain	LOCAL	3	12	15				
			NON LOCAL						5	10
			INDIAN							
			TOTAL	15						
9	Ghoghapaini	Bromming	LOCAL							
			NON LOCAL	4	18		22		5	17
			INDIAN							
			TOTAL	22						
10	R4	Gutter	LOCAL							
			NON LOCAL	2	9	11			2	9
			INDIAN							
			TOTAL	11						
11	R4	Ashphalt	LOCAL							
			NON LOCAL							
			INDIAN	2	12	14			14	
			TOTAL	14						
12	Ghoghapaini	Base	LOCAL	2	5	7				5
			NON LOCAL						2	
			INDIAN							
			TOTAL	7						
13	R3 Trunk Line	Tile	LOCAL							
			NON LOCAL	5	12	17		5	2	10
			INDIAN							
			TOTAL	17						

Regional Urban Development Project (RUDP) Project Implementation Unit (PIU) Biratnagar, Nepal LABOUR DATA														Month/Year: December 2020	
14	R2	Tile	LOCAL	3	12	15			5		5	5			
			NON LOCAL												
			INDIAN												
			TOTAL	15											
15	R5	Road Paint	LOCAL												
			NON LOCAL	3	6	9							9		
			INDIAN												
			TOTAL	9											
16	R110	House Connection	LOCAL	4	10	14						14			
			NON LOCAL												
			INDIAN												
			TOTAL	14											
17	R121	House Connection	LOCAL	3	6	9			4			5			
			NON LOCAL												
			INDIAN												
			TOTAL	9											
18	Madhumara Yard	Precast Production	LOCAL												
			NON LOCAL	4	10	14			4	5		5			
			INDIAN												
			TOTAL	14											
19	R4	Prime	LOCAL												
			NON LOCAL	3	5	8					2	6			
			INDIAN												
			TOTAL	8											





Regional Urban Development Project (RUDP) Project Implementation Unit (PIU) Biratnagar, Nepal LABOUR DATA										Month/Year: December 2020
20	Pratibha Chowk	Electric Work	LOCAL	4	10	14	5	4	5	
			NON LOCAL							
			INDIAN							
			TOTAL	14						
21	R4	MH Raise	LOCAL						8	
			NON LOCAL	2	6	8				
			INDIAN							
			TOTAL	8						
22	R3 Trunk Line	MH Cleaning	LOCAL						4	
			NON LOCAL	4	5	9	3	2		
			INDIAN							
			TOTAL	9						




Regional Urban Development Project (RUDP) Project Implementation Unit (PIU) Biratnagar, Nepal LABOUR DATA														Month/Year: December 2020
23	T3L21A	Sub-Base	LOCAL	3	5	8	COMPOSITION				ETHNIC COMPOSITION			
			NON LOCAL	INDIAN	TOTAL	MALE	FEMALE	JANJATI	DALIT	MUSLIM	MADHESI	RAHMIN/CHHETI		
				8										
24			LOCAL											
			NON LOCAL											
			INDIAN											
			TOTAL											
			LABOUR CLASS	SKILLED	UNSKILLED	MALE	FEMALE	JANJATI	DALIT	MUSLIM	MADHESI	RAHMIN/CHHETI		
			LOCAL	24	66	90	0	14	5	10	61	0		
			NON LOCAL	53	154	185	22	43	39	7	118	0		
			INDIAN	2	12	14	0	0	0	14	0	0		
			TOTAL	79	232	289	22	57	44	31	179	0		



## A. Staffs Name List

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





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

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



## ANNEX- 5: SOP Health Monitoring Format





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

Date: 17 Dec-2020

Project Name:		Construction and Completion of sewerage, drainage, Road, Footpath and Road furniture works Contract No: RUDP/ICB/BRT/02							
S.No.	Staff Name	Position	Temperature	Yes/No					Remarks
				Cold	Cough	Difficulty in Breathing	Have you done hand sanitization before entering site/office	Has the person wearing mask	
1	Giresh Chand	TL	97.1	NO	NO	NO	Yes	Yes	
2	H.K. Mandal	E./Qty S.	93.2	NO	NO	NO	Yes	Yes	
3	Amit Kumar Gupta	CSE	95.2	NO	NO	NO	Yes	Yes	
4	Rajan Shrestha	CSE	97.1	NO	NO	NO	Yes	Yes	
5	Santosh Kumar Yadav	OM	96.8	NO	NO	NO	Yes	Yes	
6	Rajesh Kumar Yadav	Jr.	95.9	NO	NO	NO	Yes	Yes	
7	Deepak Majhee	Jr.	93.3	NO	NO	NO	Yes	Yes	
8	Jaya Prakash Yadav	Jr.	92.3	NO	NO	NO	Yes	Yes	
9	Ranjit Mandal	R/C	91.1	NO	NO	NO	Yes	Yes	
10	Youba Raj Poudel	Driver	96.5	NO	NO	NO	Yes	Yes	
11	Pulkit Gothiya Yadav	Driver	96.0	NO	NO	NO	Yes	Yes	
12	Rudra Kharel	O/A	96.6	NO	NO	NO	Yes	Yes	
13	Kesab Katuwal	Guard	96.4	NO	NO	NO	Yes	Yes	

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

DSC

Date: 18 Dec-2020

Project Name:		Construction and Completion of sewerage, drainage, Road, Footpath and Road furniture works Contract No: RUDP/ICB/BRT/02							
S.No.	Staff Name	Position	Temperature	Yes/No					Remarks
				Cold	Cough	Difficulty in Breathing	Have you done hand sanitization before entering site/office	Has the person wearing mask	
1	Giresh Chand	TL	97.3	NO	NO	NO	Yes	Yes	
2	H.K. Mandal	E./Qty S.	93.9	NO	NO	NO	Yes	Yes	
3	Amit Kumar Gupta	CSE	95.5	NO	NO	NO	Yes	Yes	
4	Rajan Shrestha	CSE	97.1	NO	NO	NO	Yes	Yes	
5	Santosh Kumar Yadav	OM	97.3	NO	NO	NO	Yes	Yes	
6	Rajesh Kumar Yadav	Jr.	96.9	NO	NO	NO	Yes	Yes	
7	Deepak Majhee	Jr.	96.0	NO	NO	NO	Yes	Yes	
8	Jaya Prakash Yadav	Jr.	96.3	NO	NO	NO	Yes	Yes	
9	Ranjit Mandal	R/C	97.0	NO	NO	NO	Yes	Yes	
10	Youba Raj Poudel	Driver	96.6	NO	NO	NO	Yes	Yes	
11	Pulkit Gothiya Yadav	Driver	96.0	NO	NO	NO	Yes	Yes	
12	Rudra Kharel	O/A	95.7	NO	NO	NO	Yes	Yes	
13	Kesab Katuwal	Guard	96.8	NO	NO	NO	Yes	Yes	





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

Employer (PIU)

Date: 20/11/2020

Project Name:		Construction and Completion of sewerage, drainage, Road, Footpath and Road furniture works Contract No: RUDP/ICB/BRT/02							
S.No.	Staff Name	Position	Temperature	Yes/No					Remarks
				Cold	Cough	Difficulty in Breathing	Have you done hand sanitization before entering site/office	Has the person wearing mask	
1	Bharat Kumar Neupane	PM	98.0	No	No	No	Yes	Yes	
2	Prakash Narayan Chaudhary	DPM	97.1	"	"	"	"	"	
3	Punam Kumar Dahal	SDO	97.7	"	"	"	"	"	
4	Anil Singh	Electrical Er.	97.1	"	"	"	"	"	
5	Ghanashyam Kafley	Project Er.	96.7	"	"	"	"	"	
6	Mister KC	Account/Officer	97.5	"	"	"	"	"	
7	Purushottam Lamichhane	Asst/Ad	94.9	"	"	"	"	Yes	
8	Uddab Nepal	Office Assistant	97.1	"	"	"	"	"	
9	Girja Kumar Chaudhary	Office Assistant	94.6	"	"	"	"	"	
10	Rabi Kumar Rai	Heavy Driver	98.1	"	"	"	"	"	
11	Mayakant Kamat	Heavy Driver	96.7	"	"	"	"	"	
12								"	
13								"	

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

Employer (PIU)

Date: 20/11/2020

Project Name:		Construction and Completion of sewerage, drainage, Road, Footpath and Road furniture works Contract No: RUDP/ICB/BRT/02							
S.No.	Staff Name	Position	Temperature	Yes/No					Remarks
				Cold	Cough	Difficulty in Breathing	Have you done hand sanitization before entering site/office	Has the person wearing mask	
1	Bharat Kumar Neupane	PM	98.0	No	No	No	Yes	Yes	
2	Prakash Narayan Chaudhary	DPM	95.7	"	"	"	"	"	
3	Punam Kumar Dahal	SDO	94.6	"	"	"	"	Yes	
4	Anil Singh	Electrical Er.	92.9	"	"	"	"	"	
5	Ghanashyam Kafley	Project Er.	96.9	"	"	"	"	"	
6	Mister KC	Account/Officer	94.9	"	"	"	"	Yes	
7	Purushottam Lamichhane	Asst/Ad	97.1	"	"	"	"	"	
8	Uddab Nepal	Office Assistant	97.9	"	"	"	"	"	
9	Girja Kumar Chaudhary	Office Assistant	96.1	"	"	"	"	"	
10	Rabi Kumar Rai	Heavy Driver	97.9	"	"	"	"	Yes	
11	Mayakant Kamat	Heavy Driver	97.8	"	"	"	"	"	
12								"	
13								"	

*B. Neupane*  
Project Manager



Annex 6C Regular health Monitoring Template at Site/Office									
Zhongheng Construction Group International Engineering Co. Ltd.									
Date: 11-12-2020									
Project Name:		RUDP Construction and Completion of sewerage, drainage, Road, Footpath and Road furniture works Contract No: RUDP/ICB/BRT/02, Biratnagar							
S.N.	Staff Name	Position	Temperature	Yes/No					Remarks
				Cold	Cough	Difficulty in breathing	Have You done hand sanitization before entering site/office	Has the person Wearing mask	
1	Manod Kumar Yadav		97.2	NO	NO	NO	Yes	Yes	
2	Susil Mahatao		96.8	NO	NO	NO	Yes	Yes	
3	Ardun Rai		96.7	NO	NO	NO	Yes	Yes	
4	Jesman nepal		96.2	NO	NO	NO	Yes	Yes	
5	Susil chhy		96.3	NO	NO	NO	Yes	Yes	
6	Guyendra tamang		95.3	NO	NO	NO	Yes	Yes	
7	Dhisen Yadav		95.4	NO	NO	NO	Yes	Yes	
8	Ram Kadi		95.8	NO	NO	NO	Yes	Yes	
9	Dhrendra Yadav		95.7	NO	NO	NO	Yes	Yes	
10	Rahul Sharma		96.8	NO	NO	NO	Yes	Yes	
11	Saludin Miya		97.3	NO	NO	NO	Yes	Yes	
12	Santosh Rai		97.8	NO	NO	NO	Yes	Yes	
13	Imran Paudel		96.2	NO	NO	NO	Yes	Yes	
14	Manod choudhary		97.8	NO	NO	NO	Yes	Yes	
15	Mina Das		96.6	NO	NO	NO	Yes	Yes	
16	JHendra Yadav		95.6	NO	NO	NO	Yes	Yes	
17	Shresthan Yadav		95.4	NO	NO	NO	Yes	Yes	
18	Narshing Bhundari		96.4	NO	NO	NO	Yes	Yes	
19	Bachha Prasanna		95.9	NO	NO	NO	Yes	Yes	
20	Kiran Chy		97.2	NO	NO	NO	Yes	Yes	
21									
22									
23									
24									
25									
26									
27									
28									
29									
30									
31									
32									



## ANNEX- 6: Bi-Weekly Report





Annex 7 Monitoring Checklist for SOP Bi-weekly Report									
Zhongheng Construction Group International Engineering Co. Ltd.									
Period: 1 December,2020 to 15 December,2020									
Project Name:		RUDP Construction and Completion of sewerage, drainage, Road, Footpath and Road furniture works Contract No: RUDP/ICB/BRT/02, Biratnagar							
S.N.	Staff Name	Position	Temperature/ Fever	Yes/No					Remarks
				Cold	Cough	Difficulty in breathing	Have You done hand sanitization before entering site/office	Has the person Wearing mask	
1	Ravindra kumar Thakur	CM	No	No	No	No	Yes	Yes	
2	Dhirendra Yadav	Engineer	No	No	No	No	Yes	Yes	
3	Randhir Singh	Engineer	No	No	No	No	Yes	Yes	
4	Pradeep Yadav	Engineer	No	No	No	No	Yes	Yes	
5	Jibachha Sah	Engineer	No	No	No	No	Yes	Yes	
6	Dhirendra yadav jr	Engineer	No	No	No	No	Yes	Yes	
7	Aanand Rayamajhi	Engineer	No	No	No	No	Yes	Yes	
8	Rahul Kr Sharma	Sub-Engineer	No	No	No	No	Yes	Yes	
9	Sudip Chaudhary	Surveyor	No	No	No	No	Yes	Yes	
10	Sange Tamang	Sub-Engineer	No	No	No	No	Yes	Yes	
11	Ramesh Shrestha	Sub-Engineer	No	No	No	No	Yes	Yes	
12	Jitendra Yadav	Safety incharge	No	No	No	No	Yes	Yes	
13	Kiran Chaudhary	SLT	No	No	No	No	Yes	Yes	
14	Pramod shah	LT	No	No	No	No	Yes	Yes	
15	Raj kr Mukhiya	LT	No	No	No	No	Yes	Yes	
16	Bishnu Hari Khanal	Chief Accountant	No	No	No	No	Yes	Yes	
17	Jarman Nepal	Assistant Accountant	No	No	No	No	Yes	Yes	
18	Narsingh Bhandari	Vehicle incharge	No	No	No	No	Yes	Yes	
19	Madan Bhattarai	Store Keeper	No	No	No	No	Yes	Yes	
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Annex 7 Monitoring Checklist for SOP Bi-weekly Report									
Zhongheng Construction Group International Engineering Co. Ltd.									
Period: 15 December,2020 to 31 December,2020									
Project Name:		RUDP Construction and Completion of sewerage, drainage, Road, Footpath and Road furniture works Contract No: RUDP/ICB/BRT/02, Biratnagar							
S.N.	Staff Name	Position	Temperature/ Fever	Yes/No					Remarks
				Cold	Cough	Difficulty in breathing	Have You done hand sanitization before entering site/office	Has the person Wearing mask	
1	Ravindra kumar Thakur	CM	No	No	No	No	Yes	Yes	
2	Dhirendra Yadav	Engineer	No	No	No	No	Yes	Yes	
3	Randhir Singh	Engineer	No	No	No	No	Yes	Yes	
4	Pradeep Yadav	Engineer	No	No	No	No	Yes	Yes	
5	Jibachha Sah	Engineer	No	No	No	No	Yes	Yes	
6	Dhirendra yadav jr	Engineer	No	No	No	No	Yes	Yes	
7	Aanand Rayamajhi	Engineer	No	No	No	No	Yes	Yes	
8	Rahul Kr Sharma	Sub-Engineer	No	No	No	No	Yes	Yes	
9	Sudip Chaudhary	Surveyor	No	No	No	No	Yes	Yes	
10	Sange Tamang	Sub-Engineer	No	No	No	No	Yes	Yes	
11	Ramesh Shrestha	Sub-Engineer	No	No	No	No	Yes	Yes	
12	Jitendra Yadav	Safety incharge	No	No	No	No	Yes	Yes	
13	Kiran Chaudhary	SLT	No	No	No	No	Yes	Yes	
14	Pramod shah	LT	No	No	No	No	Yes	Yes	
15	Raj kr Mukhiya	LT	No	No	No	No	Yes	Yes	
16	Bishnu Hari Khanal	Chief Accountant	No	No	No	No	Yes	Yes	
17	Jarman Nepal	Assistant Accountant	No	No	No	No	Yes	Yes	
18	Narsingh Bhandari	Vehicle incharge	No	No	No	No	Yes	Yes	
19	Madan Bhattarai	Store Keeper	No	No	No	No	Yes	Yes	
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ANNEX-7: S-Curve

**(ATTACHED)**







## ANNEX-8: Master Plan of RUDP Project



