

ORIGINAL



Building Design Authority (P) Ltd

in joint Venture with

B.N. Consultancy Pvt. Ltd and

PLUSH Engineering & architects (P) Ltd, Kathmandu.

Monthly Progress Report

Regional Urban Development Project (RUDP)

Project Implementation Unit

Biratnagar, Nepal



June 2020

Biratnagar Metropolitan City (BMC), Nepal

Table of Contents

EXECUTIVE SUMMARY I

1. PROJECT DESCRIPTION 5

1.1. INTRODUCTION/BACKGROUND 5

2. CONTRACT DATA: - RUDP/ICB/BRT/2 6

3. SUMMARY OF PROGRESS STATUS OF ALL MAJOR COMPONENTS 8

3.1. SUB PROJECT COMPONENTS 9

 3.1.1. SEWER LINES 9

 3.1.2. STORM WATER DRAIN 13

 3.1.3. ROADS AND LANES 13

 3.1.4. ROAD SIDE DRAIN 27

3.2. ENVIRONMENTAL ASPECT 35

 3.2.1. BORROW/ QUARRY SITES 35

 3.2.2. DISPOSAL OF SPOIL AND CONSTRUCTION WASTE 35

 3.2.3. PROVISION AND MAINTENANCE OF TOILETS 37

 3.2.4. CRUSHING PLANTS 37

 3.2.5. ASPHALT PLANTS AND BATCHING PLANTS 37

 3.2.6. OCCUPATIONAL HEALTH AND SAFETY MEASURES 37

3.3. SOCIAL ASPECT 38

3.4. SAFEGUARD/ GESI COMPONENT 38

 3.4.1. COMMUNITY AWARENESS: 38

 3.4.2. GRIEVANCE REDRESSES MECHANISM: 38

 3.4.3. GENDER EQUITY AND SOCIAL INCLUSION (GESI): 38

 3.4.4. STATUS OF SOCIAL AND ENVIRONMENTAL SAFEGUARD MEASURES 39

 3.4.5. STATUS OF RELOCATION OF SERVICES 39

3.5. FINANCIAL PLAN 41

 3.5.1. DISBURSEMENT RECORDS IN CONSTRUCTION 41

4. OBJECTIVES AND SCOPE OF WORKS 43

4.1. OBJECTIVES 43

4.2. SCOPE OF WORKS 43

4.3. ORGANIZATION AND STAFFING 44

4.4. CONSULTANT’S ACTIVITIES IN CONSTRUCTION PHASE 46

5. PROGRESS OF SUB – PROJECT COMPONENTS 48

5.1. CONSTRUCTION MATERIALS 48

5.2. PROGRESS ACHIEVED TILL DATE 48

5.3. KEY EVENTS 49

6. DETAILS OF PRE CAST ACTIVITIES 50

7. CONTRACTOR’S MANPOWER 53

8. CONTRACTOR’S EQUIPMENT 54

9. WORK PLAN FOR THE NEXT MONTH 55

ANNEX-1: PHOTOGRAPHS OF JUNE 2020 56

ANNEX-2: MINUTES OF MEETING JUNE 2020 60

ANNEX-3: LABORATORY TEST RESULTS OF JUNE 2020 61

ANNEX-4: SOCIAL& ENVIRONMENT SAFEGUARD 103

ANNEX-5: S-CURVE 109

ANNEX-6: MASTER PLAN OF RUDP PROJECT 111

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 28th 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
<u>The Consultant:</u>	
Consultant	Building Design Authority (P) LTD in Joint Venture With B.N. consultancy Pvt and PLUS Engineers and Architects (P) Ltd Kathmandu.
Date of Sign of Design and Supervision Consulting Service	28th August 2017
Date of Commencement of Design and Supervision Consulting Service	6th September 2017
Date of Completion	5th September 2020
VO and EOT	VO and EOT has submitted to the employer for approved on dated 9 th June 2020
<u>The Contractor:</u>	
Contractor	ZHONGHENG Construction Group International Engineering Co Ltd. Beijing, China.
Date of Agreement Made	10 th October 2017
Date of Commencement	2 nd November 2017
Date of Completion (Scheduled)	1 st November 2019
Date of Completion (after EOT-2)	31 st July 2020



General Features	
Contract Amount including PS and VAT	NRs. 2,611,092,249.63
Contract Amount including PS and VAT (Corrected)	NRs. 2,611,088,390.60
Contract Amount including PS and VAT (after VO-1)	NRs. 2,760,853,674.59
Additional Financing 100% funded by BMC after VO-1 (provisional items)	NRs. 39,999,893.49
Progress	wrt VO-1
Road Rehabilitation (Asphalt)	88.00%
Sewer Line	99.46%
Storm Drain	100.00%
Road Side Drain	100.00%
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>Actual: 88.90% with respect to Revised Work Program-02 (after VO-01);</p> <p>“Work progress is lagging due to delay in approval of Variation Order – 2 & EOT”, start of monsoon and Nationwide lockdown due to pandemic “COVID – 19”.</p> <p>Planned progress has not been addressed because EOT approved till 31st July 2020 from the concerned authorities has been provisionally accepted by the contractor and once EOT as recommended till 10th Jan 2021 accepted, the contractor may submit revised work program and s – curve along with resource planning to plan.</p>
Financial Progress up to date (<i>on the basis of IPC forwarded for disbursement</i>)	<p>In Percentage: 82.93%, In Figure: NRs. 2,289,597,935.67 (including VAT and PS) up to IPC –16 wrt to VO-1.</p> <p>In Words: NRs. Two Billion Two Hundred Eighty Nine Millions Five Hundred Ninety Seven Thousand Nine Hundred Thirty Five and Sixty Seven Paise Only.</p> <p>IPC 17 is under examination.</p>



3. SUMMARY OF PROGRESS STATUS OF ALL MAJOR COMPONENTS

S. No.	Description	Unit	Quantity as per VO-1	Progress up to date	Remaining	Progress Status expressed in (%) wrt VO-1	Remarks
1	Sewer Line						
a	HDPE/RCC	m	18,559.80	18,459.80	100.00	99.46%	
b	Manhole	No.	606.00	604.00	2.00	99.67%	
c	Sewer Inlet	No.	1,010.00	556.00	454.00	55.05%	
d	House Connection	No.	3,784.00	2,164.00	1,620.00	57.19%	
2	Storm Water Drain						
a	RCC Drain	m	585.00	585.00	-	100.00%	
b	Piles	No.	138.00	138.00	-	100.00%	
3	Road						
a	Sub grade	m	66,718.00	62,923.09	3,794.91	94.31%	
b	Sub base	m	66,718.00	62,756.09	3,961.91	94.06%	
c	Base	m	66,718.00	60,503.49	6,214.51	90.69%	
d	Prime	m	66,718.00	58,712.29	8,005.71	88.00%	
e	Asphalt	m	66,718.00	58,712.29	8,005.71	88.00%	
4	Road Side Drain	m	35,424.00	35,424.00	0.00	100.00%	



3.1. SUB PROJECT COMPONENTS

3.1.1. SEWER LINES

Trunk Line T1 & T2 were already completed in STIUEIP (Secondary Town Integrated Urban Environmental Improvement Project). But after various discussion, formal communication & meetings with representatives of BMC, PIU, representatives of Department of Road & representatives of six lane's contractor regarding timely execution and completion of rectification, raising, repair, maintenance, placement of missing CI covers and cleansing works of sewer system in N-S Highway (Six lanes) which damaged by the contractor of six lane highway. Yet no further progresses have been observed towards repair & maintenance works of sewer lines at N-S Highway which certainly have an effect on the successful completion of the project. Remaining part of sewer lines in T3 and T4 completed under RUDP except 100m length of secondary sewer lines of T3 east of Sanihat Chowk. The SI & HCC works are in progress also the maintenance work of sewer lines, sewer inlet and house chamber connections are in progress where required as per instruction. Details of all major components of the project are as illustrated in Table – 1 below.

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



Table 1: PROPOSED ALL MAJOR COMPONENTS OF THE PROJECT

S. No.	Description	Unit	Quantity after VO-1
1	Sewerage Pipe Supply and Installation	m	18,559.80
	Reinforced Concrete Pipe laying and jointing		1,967.50
	Line T2 (Secondary)	m	205.00
	Line T3 (Trunk)	m	1,632.50
	Line T4 (Trunk)	m	130.00
	HDPE laying and jointing	m	16,592.30
	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
2	Manhole (Brick / RCC)	no.	606.00
3	Sewer Inlet	no.	1,010.00
4	House Connection	no.	3,784.00
5	Reinstatement of Roads	km	66.718
6	Road side Drain	Km	35.424
7	Storm Water Drain	m	585.00

Table: - 2 PHYSICAL PROGRESS IN SEWER LINES till date

SN	Description	Quantity as per VO-01		Up to Pre Month		This month		Total to date		Progress %
		Length (m)	Manhole (Nos.)	Length (m)	Manhole (Nos.)	Length (m)	Manhole (Nos.)	Length (m)	Manhole (Nos.)	
Hume Pipe:										
1	Hume pipe (T2)	205.00	6.00	205.00	6.00			205.00	6.00	
2	Hume pipe (T3)	1,632.50	25.00	1,632.50	25.00			1,632.50	25.00	
3	Hume Pipe (T4)	130.00	4.00	130.00	4.00			130.00	4.00	
Subtotal in (m)		1,967.50	35.00	1,967.50	35.00			1,967.50	35.00	
HDPE Pipe:										
1	HDPE (T1)	1,743.20	54.00	1,743.20	54.00			1,743.20	54.00	
2	HDPE (T2)	3,153.40	121.00	3,153.40	121.00			3,153.40	121.00	
3	HDPE (T3)	9,643.80	340.00	9,543.80	338.00			9,543.80	338.00	
4	HDPE (T4)	2,051.90	56.00	2,051.90	56.00			2,051.90	56.00	
Subtotal in (m)		16,592.30	571.00	16,492.30	569.00			16,492.30	569.00	
Total		18,559.80	606.00	18,459.80	604.00			18,459.80	604.00	99.46%



SN	Description	Quantity as per VO-01 (Nos.)	Up to Pre Month	This month	Total to date	Progress %
1	Sewer inlet	1,010.00	548.00	8.00	556.00	55.05
2	House connection	3,784.00	1,910.00	254.00	2,164.00	57.19



3.1.2. STORM WATER DRAIN

The storm water drain CN2 and CN3 has been provisioned in Regional Urban Development Project (RUDP). The Contractor has already completed the works except some minor works at inlet and outlet which have been proceeding soon. The detail of the progress is shown in the table 3:

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

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

3.1.3. ROADS AND LANES

Most of the roads/lanes in Biratnagar are in a poor state due to lack of periodic maintenance, and need improvement where as some of the roads are graveled and would benefit from upgrading. In the areas where drainage and sewerage works are proposed, there will be significant impact on the existing roads. The Project has considered on design based on reinstatement, rehabilitation and upgrading of existing roads length 66.718 km as per VO-01. Some of the roads of the project have been completed and some of them are in the process of being upgraded.

Out of 66.718 km. about 62.75 Km. has been attempted for Sub Base. About 58.71 km. Asphalt work has been completed. The summary of physical progress of flexible pavement, rigid pavement and footpaths are as tabulated in Table 4, 4.1 & 4.2 below: -



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

SN	Road Number	Name of Road	Progress			Work Completed					Remarks
			Progress		Total	Sub-base	Base	Asphalt	RCC	Paint	
			Previous	This Month		m	m	m	m	m	
1	R42	Bhagwati Marg	229.00		229.00	229.00	229.00	229.00			
2	R5	College Road	594.00		594.00	594.00	594.00	594.00			
3	R5	Chulachuli Road	196.00		196.00	196.00	196.00	196.00			
4	R5	Transprtation Line	377.20		377.20	377.20	377.20	377.20			
5	R65	Satghumti Marg	320.00		320.00	320.00					
6	R107		167.00		167.00	167.00	167.00	167.00			
7	R104	VIP Marg	275.00		275.00	275.00	275.00	275.00			
8	R8(R3 to Devkota)	Madhumara Marg	920.00		920.00	920.00	920.00	920.00		358.40	
9	B1	Kanchan Marg	1,181.10		1,181.10	1,181.10	1,181.10	1,181.10		1,106.00	
10	R21	Pratibha Marg	1,490.10		1,490.10	1,490.10	1,490.10	1,490.10		1,012.80	
11	B3	Keshaliya Marg	1,623.20		1,623.20	1,623.20	1,623.20	1,623.20			
12	S13		1,724.20		1,724.20	1,724.20	1,724.20	1,724.20		1,812.60	
13	R12	Brikuti to Keshalya	844.20		844.20	844.20	844.20	844.20			
14	R12	Kanchha Dai Marg	900.00		900.00	900.00	900.00	700.00			
15	Rani site	Rani	3,725.15		3,725.15	3,725.15	3,725.15	3,725.15			
16	R16	Satya Marg	583.90		583.90	583.90	583.90	583.90			
17	R26	Pasang Marg	602.30		602.30	602.30	602.30	602.30			



SN	Road Number	Name of Road	Progress			Work Completed					Remarks
			Previous	This Month	Total	Sub-base	Base	Asphalt	RCC	Paint	
						m	m	m	m	m	
18	R28	Pustakalaya Marg	606.10		606.10	606.10	606.10	606.10			
19	R27	Peepal Marg	794.70		794.70	794.70	794.70	794.70		639.20	
20	R25	Devi Marg	592.30		592.30	592.30	592.30	592.30			
21	R24	Prabhat Marg	382.90		382.90	382.90	382.90	382.90			
22	R37	Banglamukhi Marg	470.50		470.50	470.50	470.50	470.50			
23	R7	R25 to R27	152.57		152.57	152.57	152.57	152.57			
24	R7	R21 to R25	267.00		267.00	267.00	267.00	267.00			
25	R30	Shanti Marg	348.60		348.60	348.60	348.60	348.60			
26	R9	Fadindra Marg	119.00		119.00	119.00	119.00	119.00			
27	R9(R37 to R41)		254.60		254.60	254.60	254.60	254.60			
28	S11	Samrat Marg	502.60		502.60	502.60	502.60	502.60		504.60	
29	R22	Amar Marga	373.50		373.50	373.50	373.50	373.50			
30	R29	Shanti Marg	879.60		879.60	879.60	879.60	879.60		585.60	
31	R36	Gaurav Marg	221.10		221.10	221.10	221.10	221.10		440.00	
32	R33	Tarun Marg	282.50		282.50	282.50	282.50	282.50			
33	R8	R29 to N36)	226.90		226.90	226.90	226.90	226.90			
34	N36		184.00		184.00	184.00	184.00	184.00			
35	R188	Shakti Marg	115.10		115.10	115.10	115.10	115.10			
36	R2	Main Road	3,116.10		3,116.10	3,116.10	3,116.10	3,116.10		4,350.00	



SN	Road Number	Name of Road	Progress			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	279.30		279.30	279.30	279.30	279.30			
38	R63 (DSP Road)	DSP Road	424.00		424.00	424.00	424.00	424.00			
39	R90	Shakti Marg	449.30		449.30	449.30	449.30	449.30		640.00	
40	R77	Arniko Marg	87.70		87.70	87.70	87.70	87.70			
41	R76	Mitra Marg	275.60		275.60	275.60	275.60	275.60		541.20	
42	R183	Nava Jyoti Marg	217.20		217.20	217.20	217.20	217.20			
43	T1 L16B	Xenial Front	203.70		203.70	203.70	203.70	203.70			
44	T1L16A	Xenial South	165.70		165.70	165.70	165.70	165.70			
45	R114	Dharanidhar Marg	569.00		569.00	569.00	569.00	569.00		560.00	
46	R113	Kavi Lekh Marg	746.20		746.20	746.20	746.20	746.20			
47	R5(Branch Road)		57.60		57.60	57.60	57.60	57.60			
48	R3	DharamBadh Marg	2,254.10		2,254.10	2,254.10	2,254.10	2,254.10		2,080.30	
49	R3 -(T3 Family planning to DUDBC)		337.00		337.00	337.00	337.00	337.00			
50	R84	West of school	237.00		237.00	237.00	237.00	237.00			
51	R84		248.90		248.90	248.90	248.90	248.90			
52	R85	Machha Line	153.80		153.80	153.80	153.80	153.80			
53	R87	Mahabir Chowk	234.20		234.20	234.20	234.20	234.20			
54	R86	Petrol pump side -R12	191.50		191.50	191.50	191.50	191.50			



SN	Road Number	Name of Road	Progress			Work Completed					Remarks
			Previous	This Month	Total	Sub-base	Base	Asphalt	RCC	Paint	
						m	m	m	m	m	
55	R11	R18/R86	204.10		204.10	204.10	204.10	204.10			
56	N3	Jatuwa	122.00		122.00	122.00	122.00	122.00			
57	N4(R16 to R21)	Jatuwa	168.80		168.80	168.80	168.80	168.80			
58	R10	R35 to R76	670.80		670.80	670.80	670.80	670.80		853.20	
59	T2L26F	APF	55.00		55.00	55.00		-			
60	T2L27		75.00		75.00	75.00	75.00	75.00			
61	R122		251.00		251.00	251.00	251.00	251.00		497.40	
62	N9		222.60		222.60	222.60	222.60	222.60			
63	R17		374.00		374.00	374.00	374.00	374.00		730.00	
64	R18		387.30		387.30	387.30	387.30	387.30			
65	N2		117.00		117.00	117.00	117.00	117.00			
66	T3L6	Moti Marga	158.30		158.30	158.30	158.30	158.30			
67	T3L6	CDO Office front	49.40		49.40	49.40	49.40	49.40			
68	R45	Bata road	510.70		510.70	510.70	510.70	510.70			
69	T3L21		547.00		547.00	547.00	547.00	547.00		774.00	
70	N5	R16 to R18	67.20		67.20	67.20	67.20	67.20		122.00	
71	T3L39		340.00		340.00	340.00	340.00	340.00		491.00	
72	T3L39A		138.00		138.00	138.00	138.00	138.00		179.40	
73	T3L39B		60.00		60.00	60.00	60.00	60.00		117.60	



SN	Road Number	Name of Road	Progress			Work Completed					Remarks
			Progress		Total	Sub-base	Base	Asphalt	RCC	Paint	
			Previous	This Month		m	m	m	m	m	
74	R68 - T2L24G		218.00		218.00	218.00	218.00	218.00			
75	N10		194.00		194.00	194.00	194.00	194.00			
76	T3L24C &D	Hanuman Das Road	180.00		180.00	180.00		-			
77	R6(N2 to R41)		1,832.80		1,832.80	1,832.80	1,832.80	1,832.80			
78	N24		144.00		144.00	144.00	144.00	144.00			
79	R31		189.20		189.20	189.20	189.20	189.20			
80	N27	Bindabasini Marga	354.00		354.00	354.00	354.00	354.00			
81	R73 (R2 to R5)		217.00		217.00	217.00	217.00	217.00			
82	R6 (R41-R44)	Bata Galli	269.00		269.00	269.00	269.00	269.00			
83	R9 (T3Line11K)		194.80		194.80	194.80	194.80	194.80			
84	R44	Thakurbari Road	727.10		727.10	727.10	727.10	727.10			
85	R102	Main	140.00		140.00	140.00	140.00	140.00			
86	R102	Branch	71.30		71.30	71.30	71.30	71.30			
87	R103		171.30		171.30	171.30	171.30	171.30			
88	R32		189.20		189.20	189.20	189.20	189.20			
89	T2L18Y		116.20		116.20	116.20	116.20	116.20			
90	R20		108.00		108.00	108.00	108.00	108.00			
91	R82 (T1Line5)	Everest School	522.80		522.80	522.80	522.80	522.80			



SN	Road Number	Name of Road	Progress			Work Completed					Remarks
			Previous	This Month	Total	Sub-base	Base	Asphalt	RCC	Paint	
						m	m	m	m	m	
92	T1L5A		171.90		171.90	171.90	171.90	171.90			
93	T3L23C	North to Jay Nepal	87.00		87.00	87.00	87.00	87.00			
94	T3L25B		285.00		285.00	285.00	285.00	285.00			
95	T3L25C		140.00		140.00	140.00	140.00	140.00			
96	R3(T3 Trunk)	Tinpaini to Sanihat	680.00		680.00	680.00	680.00	680.00			
97	Nagmandir to R3		55.00		55.00	55.00	55.00	55.00			
98	R4		760.00		760.00	760.00	760.00	760.00			
99	R75		137.00		137.00	137.00	137.00	137.00			
100	R43		329.40		329.40	329.40	329.40	329.40			
101	T219P		124.80		124.80	124.80	124.80	124.80			
102	T219Q		113.70		113.70	113.70	113.70	113.70			
103	R106		195.00		195.00	195.00	195.00	195.00			
104	T3L12		80.00		80.00	80.00	80.00	80.00			
105	R46		610.00		610.00	610.00	610.00	610.00			
106	T3L11E		124.55		124.55	124.55	124.55	124.55			
107	T3L13D		70.00		70.00	70.00	70.00	70.00			
108	T3L13C		102.00		102.00	102.00	102.00	102.00			
109	R34		157.40		157.40	157.40	157.40	157.40			



SN	Road Number	Name of Road	Progress			Work Completed					Remarks
			Progress		Total	Sub-base	Base	Asphalt	RCC	Paint	
			Previous	This Month		m	m	m	m	m	
110	T3L13E		64.00		64.00	64.00	64.00	64.00			
111	T3L13K		76.00		76.00	76.00	76.00	76.00			
112	R19		228.00		228.00	228.00	228.00	228.00			
113	R41		540.00		540.00	540.00	540.00	540.00			
114	R9B		83.85		83.85	83.85	83.85	83.85			
115	R67		119.40		119.40	119.40	119.40	119.40			
116	R74		95.00		95.00	95.00	95.00	95.00			
117	R9A		109.00		109.00	109.00	109.00	109.00			
118	T2L19F		120.00		120.00	120.00	117.20	117.20			
119	T3L7A		190.00		190.00	190.00	158.00	158.00			
120	T3L13F		75.00		75.00	75.00	75.00	75.00			
121	T3L11M		85.00		85.00	85.00	85.00	85.00			
122	T3L33A (N7)		135.00		135.00	135.00	135.00	135.00			
123	R35		142.50		142.50	142.50	142.50	142.50			
124	R83		130.00		130.00	130.00	130.00	130.00			
125	R101		130.00		130.00	130.00		-			
126	R105		174.00		174.00	174.00	174.00	174.00			
127	R15		194.00		194.00	194.00	194.00	194.00			



SN	Road Number	Name of Road	Progress			Work Completed					Remarks
			Previous	This Month	Total	Sub-base	Base	Asphalt	RCC	Paint	
						m	m	m	m	m	
128	R181A		196.00		196.00	196.00	196.00	196.00			
129	N38		358.00		358.00	358.00	358.00	358.00			
130	T2L26E	Bhanu Tole	107.00		107.00	107.00	107.00	107.00			
131	T2L19G		63.00		63.00	63.00	63.00	63.00			
132	T3L19H		84.00		84.00	84.00	84.00	84.00			
133	T2L19V		90.00		90.00	90.00	90.00	90.00			
134	T2L19Y		110.00		110.00	110.00	110.00	110.00			
135	T2L19Z		64.00		64.00	64.00	64.00	64.00			
136	R110		255.00		255.00	255.00	255.00	255.00			
137	T2L18A		97.00		97.00	97.00	97.00	97.00			
138	B2		2,584.65		2,584.65	2,584.65	2,584.65	2,584.65	210.00		
139	R7	Sani Haat Chowk to Hospital	746.80		746.80	746.80	746.80	746.80			
140	R7	(R46-R44) Shree Hospital	155.00		155.00	155.00	155.00	155.00			
141	T3 Line18A	Nearby Neuro parking	79.32		79.32	79.32	79.32	79.32			
142	T3L21A	Milan Chowk	123.40		123.40	123.40	123.40	123.40			
143	T3L18C		103.00		103.00	103.00	103.00	103.00			
144	R39	Sansari Maisthan	160.00		160.00	160.00	160.00				
145	R40		330.60		330.60	330.60	330.60	330.60			



SN	Road Number	Name of Road	Progress			Work Completed					Remarks
			Progress		Total	Sub-base	Base	Asphalt	RCC	Paint	
			Previous	This Month		m	m	m	m	m	
146	R101		260.00		260.00	260.00					
147	T3Line5	Sanihat to Nagarpalika	285.00		285.00	285.00					
148	R7(R21 to R18)		68.00		68.00	68.00	68.00	68.00			
149	R7(R25 to R27		155.00		155.00	155.00	155.00	155.00			
150	R9(R37 to R30)		219.60		219.60	219.60	219.60	219.60			
151	N8		166.90		166.90	166.90	166.90	166.90			
152	R7		983.00		983.00	983.00	983.00	983.00			
153	R5		110.00		110.00	110.00					
154	T2Line11N		65.00		65.00	65.00	65.00	65.00			
155	R6	Siddhartha to R46	130.00		130.00	130.00	130.00				
156	R100 (T2Line 22B)		150.00		150.00	150.00					
157	T3 Trunk Line	Devkota to Family Planning	340.00		340.00	340.00	340.00	340.00			
158	T3Line25A		248.00	54.00	302.00	302.00	302.00				
159	T3 Line23C		90.00		90.00	90.00	90.00				
160	R10		180.00		180.00	180.00					
161	T2 Line18K		76.00		76.00	76.00	76.00				
162	R47	Matrika Marga	322.00		322.00	155.00	155.00	155.00			



SN	Road Number	Name of Road	Progress			Work Completed					Remarks
			Previous	This Month	Total	Sub-base	Base	Asphalt	RCC	Paint	
						m	m	m	m	m	
163	T3 Line22 (Devkota Chowk to NRB)		190.00		190.00	190.00	190.00	190.00			
164	R26	East of R3	324.00		324.00	324.00	324.00	324.00			
165	R27	East of R3	186.00		186.00	186.00	186.00	186.00			
166	N33	Parichaya Marga	194.50		194.50	194.50	194.50	194.50			
167	T3 Line10C	Green cross Line	100.00		100.00	100.00	100.00	100.00			
168	N23		75.00		75.00	75.00	75.00	75.00			
169	R10		181.00		181.00	181.00					
170	R15		340.00		340.00	340.00	340.00				
171	T3 Trunk	DUDBC off to Sanihat	231.70		231.70	231.70	231.70	231.70			
172	R16	East of DharamBadh	218.10		218.10	218.10	218.10	218.10			
173	T3Line10	Green cross Line		184.20	184.20	184.20	184.20	140.00			
174	T2Line19B			148.00	148.00	148.00					
175	T3Line13C	Kumari Mill Line	229.30		229.30	229.30	229.30	229.30			
176	T2Line22A	Indreni Marga		382.00	382.00	382.00	382.00				
177	T2Line19W	Near Parichaya Marga		58.80	58.80	58.80					
178	R23		227.00		227.00	227.00	227.00				
	Total		62,096.09	827.00	62,923.09	62,756.09	60,503.49	58,712.29	210.00	18,395.30	



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

SN	Road Number	Type*	Progress in m			Footpath			Remarks
			Previous	This Month	Cumulative	Length (m)	Avg. Breadth (m)	Quantity (m ²)	
1	R2	Precast block	902.00		902.00	902.00	0.98	879.45	RHS
2	R2	Precast block	602.00		602.00	602.00	1.10	662.20	LHS
3	R29	Precast block	330.00		330.00	330.00	0.90	297.00	RHS
4	R29	Precast block	330.00		330.00	330.00	0.90	297.00	LHS
5	R28	Precast block	322.00		322.00	322.00	0.90	289.80	RHS
6	R28	Precast block	335.00		335.00	335.00	0.90	301.50	LHS
7	R28	Precast block	341.00		341.00	341.00	0.90	306.90	RHS
8	R21	Precast block	365.00		365.00	365.00	1.00	365.00	RHS
9	R21	Precast block	765.00		765.00	765.00	1.00	765.00	LHS
10	R78	Precast block	75.00		75.00	75.00	1.20	90.00	RHS
11	R78	Precast block	75.00		75.00	75.00	1.20	90.00	LHS
12	R77	Precast block	115.00		115.00	115.00	0.90	103.50	RHS
13	R77	Precast block	115.00		115.00	115.00	0.90	103.50	LHS
14	R76	Precast block	275.00		275.00	275.00	0.95	261.25	RHS
15	R76	Precast block	275.00		275.00	275.00	0.95	261.25	LHS
16	R75	Precast block	160.00		160.00	160.00	0.95	152.00	RHS
17	R75	Precast block	160.00		160.00	160.00	0.95	152.00	LHS



SN	Road Number	Type*	Progress in m			Footpath			Remarks
			Previous	This Month	Cumulative	Length (m)	Avg. Breadth (m)	Quantity (m ²)	
18	R10	Precast block	700.00		700.00	700.00	0.95	665.00	RHS
19	R10	Precast block	700.00		700.00	700.00	0.95	665.00	LHS
20	R31	Precast block	175.00		175.00	175.00	0.95	166.25	RHS
21	R31	Precast block	175.00		175.00	175.00	0.95	166.25	LHS
22	R32	Precast block	185.00		185.00	185.00	0.30	55.50	RHS
23	R32	Precast block	185.00		185.00	185.00	0.30	55.50	LHS
24	R33	Precast block	285.00		285.00	285.00	0.90	256.50	RHS
25	R33	Precast block	170.00		170.00	170.00	0.90	153.00	LHS
26	R16	Precast block	170.00		170.00	170.00	1.20	204.00	RHS
27	R16	Precast block	170.00		170.00	170.00	1.20	204.00	LHS
28	R6	Precast block	700.00		700.00	700.00	1.20	840.00	RHS
29	R6	Precast block	700.00		700.00	700.00	1.20	840.00	LHS
30	B1	Precast block	490.00		490.00	490.00	1.20	588.00	RHS
31	B1	Precast block	490.00		490.00	490.00	3.40	1,666.00	LHS
32	B2 (2)	Precast block	715.00		715.00	715.00	0.59	421.85	RHS
33	B2 (2)	Precast block	715.00		715.00	715.00	1.65	1,179.75	LHS
34	B2 (1)	Precast block	131.00		131.00	131.00	2.60	340.60	RHS
35	B2 (1)	Precast block	131.00		131.00	131.00	0.90	117.90	LHS



SN	Road Number	Type*	Progress in m			Footpath			Remarks
			Previous	This Month	Cumulative	Length (m)	Avg. Breadth (m)	Quantity (m ²)	
36	B3	Precast block	1,160.00		1,160.00	1,160.00	2.33	2,697.00	RHS
37	B3	Precast block	670.00		670.00	670.00	0.70	469.00	LHS
38	S11	Precast block	112.00		112.00	112.00	0.95	106.40	RHS
39	S11	Precast block	75.00		75.00	75.00	1.21	90.75	LHS
40	Rani	Precast block	425.00		425.00	425.00	1.00	425.00	RHS
41	Rani	Precast block	425.00		425.00	425.00	1.00	425.00	LHS
42	R3	Precast block	310.00		310.00	310.00	1.10	341.00	RHS
43	R3	Precast block	1,050.00		1,050.00	1,050.00	1.10	1,155.00	LHS
44	R27	Precast block	400.00		400.00	400.00	1.10	440.00	RHS
45	R27	Precast block	400.00		400.00	400.00	0.85	340.00	LHS
46	R26	Precast block	300.00		300.00	300.00	1.23	369.00	RHS
47	R26	Precast block	285.00		285.00	285.00	1.10	313.50	LHS
48	R25	Precast block	205.00		205.00	205.00	1.00	205.00	RHS
49	R25	Precast block	201.00		201.00	201.00	1.00	201.00	LHS
	Total =		18,547.00		18,547.00	18,547.00		21,540.10	



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

SN	Description	Unit	Proposed in VO-01	Total Up to Previous Month	This Month	Total Up to this Month	Progress wrt VO-01
1	Sub grade	m	66,718.00	62,096.09	827.00	62,923.09	94.31%
2	Sub Base	m	66,718.00	61,265.09	1,491.00	62,756.09	94.06%
3	Base	m	66,718.00	58,242.29	2,261.20	60,503.49	90.69%
4	Prime/Tack	m	66,718.00	56,384.97	2,327.32	58,712.29	88.00%
5	Asphalt	m	66,718.00	56,384.97	2,327.32	58,712.29	88.00%

3.1.4. ROAD SIDE DRAIN

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

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

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



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



SN	Road Number	Name of Road	Length in (m)			Work Completed		Remarks
			Progress		Total	Brick	RCC	
			Previous (Revised)	This Month		m	m	
32	T1L16B	Xenial Front	205.68		205.68	205.68		
33	T1L16A	Xenial South	160.74		160.74	160.74		
34	R75	Tintoliya Marga	143.00		143.00	143.00		
35	R122	Amar Marga	256.00		256.00	256.00		
36	R18 Branch		30.00		30.00	30.00		
37	R7(b)(Neuro to sidhartha chowk)	Siddhartha Marga	365.00		365.00	365.00		
38	R12	Sukra Path	846.50		846.50	846.50		
39	R42	Jahada Marga	85.50		85.50	85.50		
40	R6	Shahi Marg	970.00		970.00	-	970.00	
41	R21(a)	DharamBadh Junction	95.00		95.00	95.00		One Side
42	R78	Binayak Marga	70.00		70.00	70.00		
43	R188	Shakti Marg	115.60		115.60	115.60		
44	R40	Brahma Kumari Marga	328.20		328.20	328.20		
45	Rani Site C		97.50		97.50	97.50		
46	Ranit Site D		131.45		131.45	131.45		
47	T3L21	Moti Marga	527.00		527.00	527.00		
48	T3L39	Gaheli Marga	340.00		340.00	340.00		
49	T3 Line 39A		139.00		139.00	139.00		
50	T3 L39B		58.50		58.50	58.50		
51	T2L27	Bhumi Prashasan Junction	79.50		79.50	79.50		
52	N2		103.20		103.20	103.20		
53	T2 Line 26E	College Road	90.00		90.00	90.00		
54	T2 Line 18C	Maisthan Marga	102.00		102.00	102.00		
55	T2Line 18A	Makalu Marga	90.00		90.00	90.00		



SN	Road Number	Name of Road	Length in (m)			Work Completed		Remarks
			Progress		Total	Brick	RCC	
			Previous (Revised)	This Month		m	m	
56	R6 (T3L11i)		265.00		265.00	265.00		
57	R9 (T3L11k)	Tathasthu Marga	180.00		180.00	180.00		
58	R45 (T3Line10D)	Dadhiram Marga	298.00		298.00	298.00		
59	R9, T2 L19	Fanindra Marga and Banglamukhi Marga	362.00		362.00	362.00		
60	R7c (Neuro to Shanti Chowk)	Siddhartha Marga	600.00		600.00	600.00		
61	R84	School Marga and Tenjing Marga	560.00		560.00	560.00		
62	R85	Lekhanath Marga	150.00		150.00	150.00		
63	R87	Byas Marga	150.00		150.00	150.00		
64	Rani B (Bus park)		90.00		90.00	90.00		
65	R8(a)	Madhumara Marg	312.00		312.00	312.00		
66	T3L23A, R101		220.00		220.00	220.00		
67	Rani E		80.00		80.00	80.00		One Side
68	R102	Hamro Marg	140.00		140.00	140.00		
69	R10/R10a	Ram Marga	740.36		740.36	740.36		
70	N10	APF	193.00		193.00	193.00		
71	R23	Bani Marg	200.00		200.00	200.00		
72	R103	Vibuti Marga	170.00		170.00	170.00		
73	T3L6 and T3L7	Sahid Marga	730.00		730.00	730.00		
74	P1, T3L6A	Pandit Meghnath Marga	260.00		260.00	260.00		
75	T2 L24C & D	Hanuman Das Marga	180.00		180.00	180.00		
76	T2 L25 (R5)	Chulachuli Marga	200.00		200.00	200.00		
77	R20		108.00		108.00	108.00		
78	T2L24F		115.50		115.50	115.50		



SN	Road Number	Name of Road	Length in (m)			Work Completed		Remarks
			Progress		Total	Brick	RCC	
			Previous (Revised)	This Month		m	m	
79	R105		86.00		86.00	86.00		One Side
80	R34	Prabhu Marg	158.35		158.35	158.35		
81	R35	Garima Marg	140.00		140.00	140.00		
82	R107		160.00		160.00	160.00		
83	T3L13D		70.63		70.63	70.63		
84	T3L13E		62.40		62.40	62.40		
85	T3L11E		110.00		110.00	110.00		
86	B2		210.00		210.00	210.00		
87	R78		35.00		35.00	35.00		One Side
88	T3L21B		70.00		70.00	70.00		
89	T3L21A		50.00		50.00	50.00		
90	R74		96.00		96.00	96.00		
91	R46, (T3L7 and T3L22)	Rangeli Road	400.00		400.00	400.00		
92	T3L7A		125.00		125.00	125.00		
93	T3L8		75.00		75.00	75.00		
94	R5, (T2 L24)	Gudari Marga	274.00		274.00	274.00		
95	R82		190.00		190.00	190.00		
96	T1L13A		100.00		100.00	100.00		
97	T1L14A		150.00		150.00	150.00		
98	R68		200.00		200.00	200.00		
99	T3L22A		335.00		335.00	335.00		
100	T3L22B		120.00		120.00	120.00		
101	T3L25C		130.00		130.00	130.00		
102	T3L11B		71.00		71.00	71.00		



SN	Road Number	Name of Road	Length in (m)			Work Completed		Remarks
			Progress		Total	Brick	RCC	
			Previous (Revised)	This Month		m	m	
103	T3L11M		82.00		82.00	82.00		
104	R106		70.00		70.00	70.00		
105	R41		520.00		520.00	520.00		
106	T2L19B		130.00		130.00	130.00		
107	R30		180.00		180.00	180.00		
108	T3L13C		300.00		300.00	300.00		
109	T3L13J		72.53		72.53	72.53		
110	T2L18Y		100.00		100.00	100.00		
111	T2L19P		114.38		114.38	114.38		
112	T2L19Q		126.55		126.55	126.55		
113	R9A		109.30		109.30	109.30		
114	R9B		85.00		85.00	85.00		
115	T2L18K		74.70		74.70	74.70		
116	T3L23C		105.00		105.00	105.00		
117	T2L24E	Mahabir Marga	216.00		216.00	216.00		
118	R44		700.00		700.00	700.00		
119	R110		250.00		250.00	250.00		
120	Parichaya Marga		190.00		190.00	190.00		
121	T3L25B		195.00		195.00	195.00		
122	T1L5, 5A		590.00		590.00	590.00		
123	T2L19Y		150.00		150.00	150.00		
124	T3 Trunk		1,555.08		1,555.08	1,555.08		
125	T2L19F		118.00		118.00	118.00		
126	T2L18D		75.00		75.00	75.00		
127	R19		226.00		226.00	226.00		



SN	Road Number	Name of Road	Length in (m)			Work Completed		Remarks
			Progress		Total	Brick	RCC	
			Previous (Revised)	This Month		m	m	
128	R83	Shiva Marga	125.00		125.00	125.00		
129	T3L10B, T3L7D (R46)	Rangeli Road	400.00		400.00	400.00		
130	T2L19G		60.00		60.00	60.00		
131	R4 (T2 Trunk)	Jatuwa Marga	380.00		380.00	-	380.00	
132	T3L25B, Outlet	Madhumara	96.00		96.00	96.00		
133	T3L7B	Matrika Marga	150.00		150.00	150.00		
134	T3L5	Sanihat Marga	210.00		210.00	210.00		
135	T2L19H		85.00		85.00	85.00		
136	R181		193.00		193.00	193.00		
137	N38		200.00		200.00	200.00		
138	T3L10C	Paurakh Marga	110.00		110.00	110.00		
139	T3L10F		135.00		135.00	135.00		
140	T3L10, R6		340.00		340.00	340.00		
141	R47 (T3L10A)	Matrika Marga	150.00		150.00	150.00		
142	R12	Kanchhadai Marga	450.00		450.00	450.00		
143	R8 (b)	Sahayogi Marga	65.00		65.00	65.00		
144	T1L7A	Piyush Marga	70.00		70.00	70.00		
145	T1L7B		-		-	-		
146	T1L7C		-		-	-		
147	T1L8C		-		-	-		
148	R39	Maisthan Marga	100.00		100.00	100.00		
149	N7	Amar Marga	130.00		130.00	130.00		
150	N8	Amar Marga	160.00		160.00	160.00		
151	R26	Amar Marga	290.00		290.00	290.00		
152	T3L25A	Bhakti Marga	260.00		260.00	260.00		



SN	Road Number	Name of Road	Length in (m)			Work Completed		Remarks
			Progress		Total	Brick	RCC	
			Previous (Revised)	This Month		m	m	
153	R16, T3L36	Satya Marga	200.00		200.00	200.00		
154	R17, T3L35		100.00		100.00	100.00		
155	T3L20	Janani Marga	200.00		200.00	200.00		
156	N34, T3L31A		80.00		80.00	80.00		
157	T2L19W	Bhugol Marga	50.00		50.00	50.00		
158	T2L19V	Bhugol Marga	90.00		90.00	90.00		
159	T1L8B	School Marga	115.00		115.00	115.00		
	Total		35,424.00		35,424.00	34,074.00	1,350.00	



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"> ▪ Office space three & 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. ▪ Staff quarter is of one storey building with 2 Nos. of Toilet with facilities mentioned in bullet No.: 3.2.3 of this report. ▪ 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. 	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"> ▪ Yard space in 10 Katha land with 4 Nos. of toilet with facilities mentioned in bullet No.: 3.2.3 of this report. ▪ 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. 	Have proper electric lightning system, water supply,
5	Madhumara yard	Occupied area of 9 Katha	Have proper electric lightning system, water supply and toilets with facilities mentioned in bullet No.: 3.2.3 of this report.



3.2.3. PROVISION AND MAINTENANCE OF TOILETS

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

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

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

3.2.4. CRUSHING PLANTS

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

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

3.2.5. ASPHALT PLANTS AND BATCHING PLANTS

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

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

3.2.6. OCCUPATIONAL HEALTH AND SAFETY MEASURES

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

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

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



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

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

3.3. SOCIAL ASPECT

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

3.4. SAFEGUARD/ GESI COMPONENT

3.4.1. COMMUNITY AWARENESS:

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

3.4.2. GRIEVANCE REDRESSES MECHANISM:

Although many grievances were received verbally, only 9 (Nine) grievances have been registered formally which have immediately been addressed and resolved. This month, some grievances for some stretches were received verbally and were addressed immediately.

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 (20 numbers) at Construction sites, thus Contractor was instructed as follow:



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

3.4.4. STATUS OF SOCIAL AND ENVIRONMENTAL SAFEGUARD MEASURES

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

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

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

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

3.4.5. STATUS OF RELOCATION OF SERVICES

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

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



Table – 5: Status of Labor at Site

Labour class	Labour		Composition		Ethnic composition				
	Skilled	Unskilled	Male	Female	Janjati	Dalit	Muslim	Madhesi	Brahmin/Chhetri
Local	13	24	34	3	16	13	0	8	0
Non local	3	9	12	0	1	6	0	5	0
Indian	0	0	0	0	0	0	0	0	0
TOTAL	16	33	46	3	17	19	0	13	0



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



			May 2019		
10	IPC 10	11 th July 2019	1 st June 2019 to 30 th June 2019	67,863,056.59	
11	IPC 11	30 th September 2019	1 st July 2019 to 30 th September 2019	95,296,297.30	
12	IPC 12	3 rd November 2019	1 st October 2019 to 31 st October 2019	53,113,369.86	
13	IPC 13	30 th November 2019	4 th June 2019 to 30 th June 2019	125,965,923.87	
14	IPC 14	31 st December 2019	1 st December 2019 to 31 st December 2019	63,509,092.84	
15	IPC 15	4 th February 2020	1 st Jan 2020 to 31 st Jan 2020	232,027,037.24	
16	IPC 16	1 st March 2020	1 st Feb, 2020 – 29 th Feb, 2020	102,186,834.62	
17	IPC 17	1 st July 2020	1 st March, 2020–30 th June, 2020	Under examination	
Total amount excluding PA & Mobilization advance till date =				2,289,597,935.67	

Note:

- The contractor requested for cost claim under various categories like idle manpower, idle equipment, interest on delay payment, works hampered due to events occurred during various Banda, site possession not available on time and disputes of right of way pursue to clause 2.1, 8.4, 14.8 and 20.1 of GCC/PCC and those are under perusal. The contractor further claimed for the time and cost on assumption that as the work progress is negligible wrt planned one due to lockdown which didn't ease yet and to come everything in normal condition takes time, also shows his dissatisfaction on approval of EOT and delayed on VO-2 approval.
- Physical progresses are lagging due to lockdown, unviability of sufficient pass/permit, stocks of materials and rainy season, etc so that we focus mainly on maintenance works which minimize the risks of waterlogging and facilitate the traffic movement in improved approaches. Also help to finish the incomplete works.
- EOT and VO of the consultant submitted to the employer on 9th June, 2020 to peruse and further action toward approval from the concerned authorities.



4. OBJECTIVES AND SCOPE OF WORKS

4.1. OBJECTIVES

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

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

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

4.2. SCOPE OF WORKS

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

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



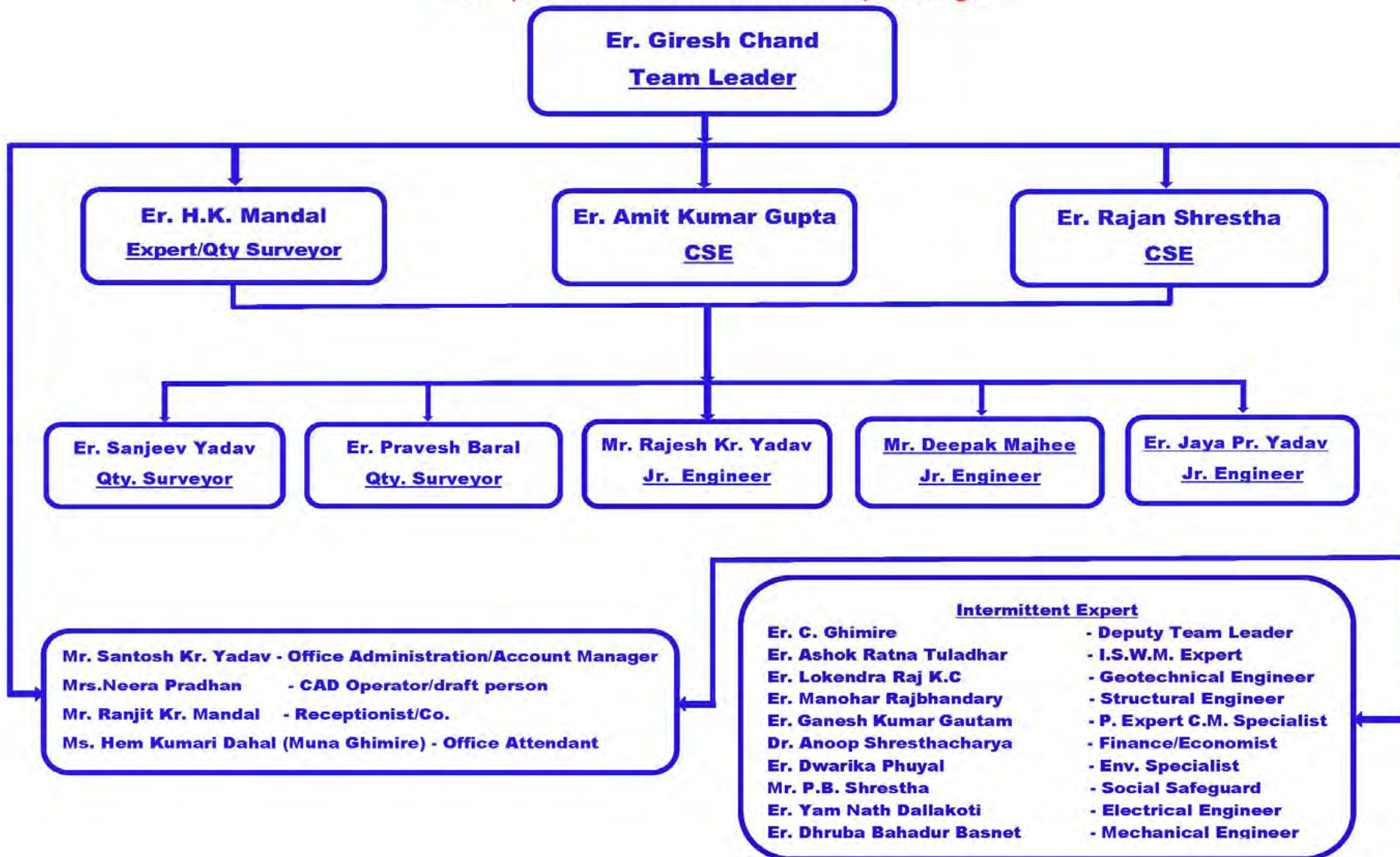
4.3. ORGANIZATION AND STAFFING

Attached



ORGANIZATION CHART

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



4.4. CONSULTANT’S ACTIVITIES IN CONSTRUCTION PHASE

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

Table 7: CONSULTANT’S STAFF at Project Site, Biratnagar

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



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

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



5. PROGRESS OF SUB – PROJECT COMPONENTS

5.1. CONSTRUCTION MATERIALS

Before using any construction material in the project, as per clause 7.3, engineer gave prior notice to contractor for joint inspection of the construction materials and all materials have been jointly checked and verified. Team leader issued letter to contractor to do the lab test of the construction materials from the authorized organizations and lab reports of the tested materials have been submitted by contractor. Engineer has emphasized on the production of the pre-cast item like (Kerb stone, drain cover slab, manhole etc.) for better work progress of the project. The Contractor has established three production yards at Koshi project and Madhumara camp for pre-cast items like Kerb stone, drain cover slab, sewer precast elements, etc. But as more than 85% work done so that the production yard at Koshi project has been closed but production at Madhumara camp is going on.

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

5.2. PROGRESS ACHIEVED TILL DATE

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



Month	Target This Month		Achievement This Month		Leading		Lagging		Remarks
	Monthly	Accumulated	Monthly	Accumulated	Monthly	Accumulated	Monthly	Accumulated	
December-2019 (after Revision-2)	5.00%	72.98%	5.14%	73.12%	0.14%	0.14%	NA	NA	Leading
January-20	6.00%	78.98%	10.62%	83.74%	4.62%	4.76%	NA	NA	Leading
February-20	6.70%	85.68%	1.48%	85.22%	NA	NA	-5.22%	-0.46%	Lagging
March-20	6.80%	92.48%	1.67%	86.89%	NA	NA	-5.13%	-5.59%	Lagging
April-20	7.00%	99.48%	0.00%	86.89%	NA	NA	-7.00%	-12.59%	Lagging
May-20	0.52%	100.00%	0.86%	87.75%	0.34%	NA	NA	-12.25%	Lagging
June-20			1.15%	88.90%					

5.3. KEY EVENTS

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

Table 8: KEY DATES of EVENTS / ACTIVITIES

S. No.	Date	Activities/Events	Remarks
1		<ul style="list-style-type: none"> Frequent visit the site by representatives of the employer as per work program. They available always to sort out the grievances related to the project when required. 	
2		<ul style="list-style-type: none"> As usual conferred about the awareness and training on COVID-19, regarding maintain physical distancing, frequently hand washing, use of PPE (masks, gloves, etc.). Monitoring compliances of PPE's during Pandemic due to COVID-19. 	Frequent discussion and compliances



6. DETAILS OF PRE CAST ACTIVITIES

Table 9: PHYSICAL PROGRESS in PRODUCTION OF PRECAST ITEMS till date,

Physical Progress till date							
S.N.	Description	Unit	Progress			Total to Date (RM.)	Remarks
			BoQ	Up to Previous month (RM.)	This Month (RM.)		
1	Precast Slab	No		87,951.00		87,951.00	Under progress
2	Kerb Stone	Rm	147,729.68	101,210.80		101,210.80	68.51%

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

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



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

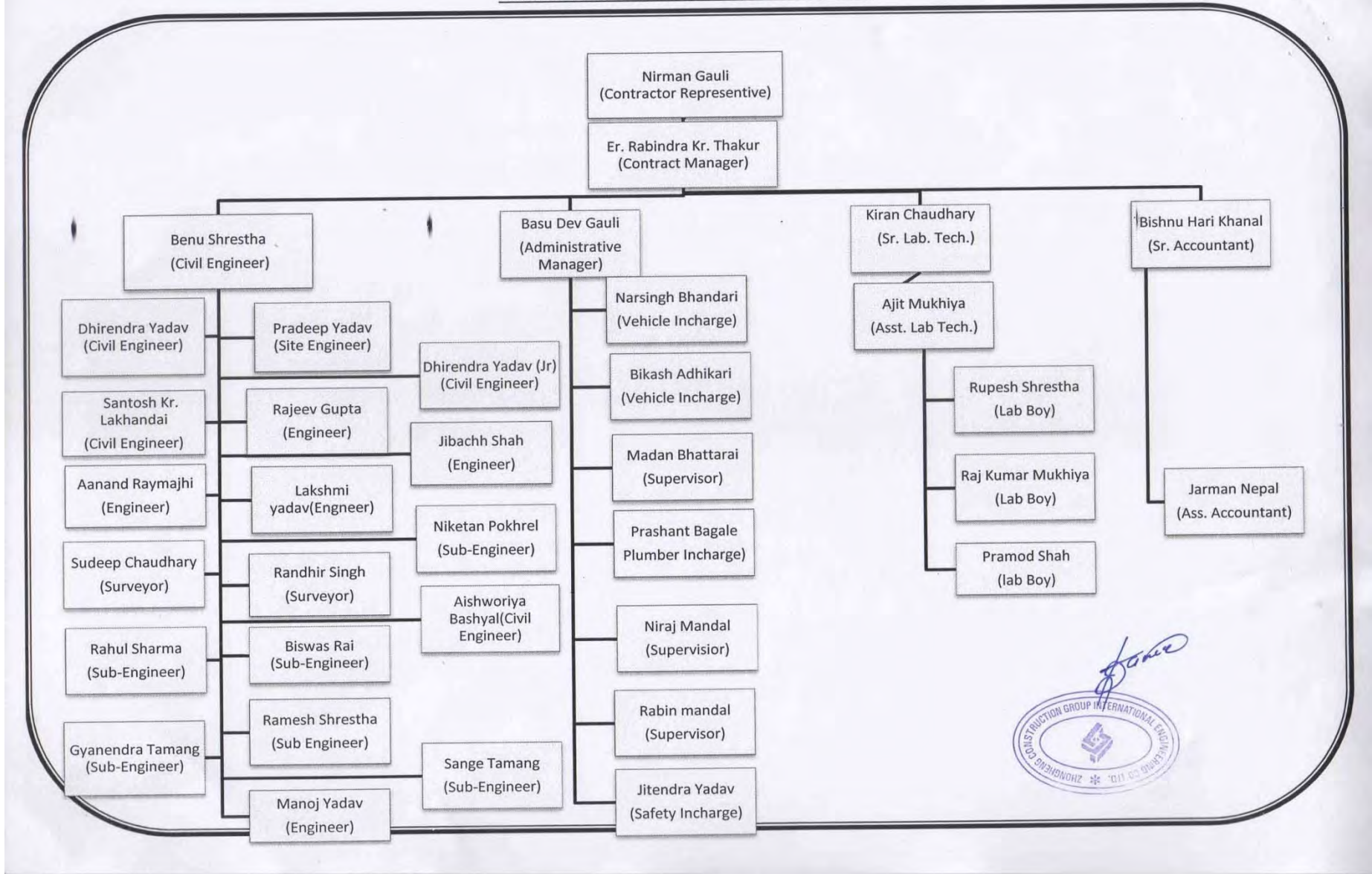
<i>Physical Progress till date</i>							
<i>S.N.</i>	<i>Description</i>	<i>Diameter (mm)</i>	<i>Progress</i>			<i>Total to Date (RM.)</i>	<i>Remarks</i>
			<i>BoQ (RM)</i>	<i>Up to Previous month (RM.)</i>	<i>This Month (RM.)</i>		
1	HDPE Pipe	110.00	1,987.20	4,487.20	-	4,487.20	
2	HDPE Pipe	200.00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

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

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



Details of Contractor's Site Personnel's



7. CONTRACTOR'S MANPOWER

Table 13: CONTRACTOR'S KEY STAFFS.

S. No.	Position	Minimum Number Required as per Contract	ZHONGHENG CONSTRUCTION Group	Remarks
1	Project / Contract Manager (1 No) 15/10 Yrs. (Total / Similar Exp.)	1	1	
2	Civil Engineer-10/6	2	2	
3	Sanitary Engineer - (1no.) -12/8	1	-	
4	Road Engineer-(1no.) -12/8	1	1	
5	Electromechanical Engineer - (1no) - 10/5	1	-	
6	Safety Engineer	-	1	
7	Site Engineer	-	8	
8	Sub- Engineer	-	6	
9	Accountant	-	2	
10	Lab Technician	-	5	
11	Store Keeper	-	1	
12	Vehicle In charge	-	2	
13	Skilled Labors		16	
14	Unskilled Labors		33	



8. CONTRACTOR'S EQUIPMENT

Table 14: CONTRACTOR'S EQUIPMENT

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



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

9. WORK PLAN FOR THE NEXT MONTH

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

- Detail Surveying works at various Road sections.
- Road works
- Precast elements production works at contractor’s yard.
- Road Side drain works.
- Laying of Kerb Stone, cover slab and interlocking tiles.
- Placement of Sewer inlet and House Connection works.
- Relocation of electric poles and water supply works.
- Repair & Maintenance works, etc.

Note: The contractor claimed for time & cost pursuant to relevant clauses of the contract which are under perusal.



ANNEX-1: Photographs of June 2020





Base Laying at T3L25A



Asphalt laying at T2L18A



Maintenance work at Panchali Marga (R114)



Gutter / Teak drain cleansing work at R114



Brooming work at Sri Hospital road - T3Line10F



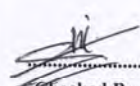

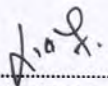

Prime work at T3L23C – Near Jay Nepal Chowk

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



ANNEX-3: Laboratory Test Results of June 2020



REGIONAL URBAN DEVELOPMENT PROJECT									
Biratnagar Metropolitan City									
Contract No:- RUDP/ICB/BRT-02									
Summary Sheet of Monthly Test Report									
Location:-T3L22A						Month: <u>June</u> Year: <u>2020</u>		Type of Material: <u>Sub grade</u>	
Sn.	Lab.Ref no.	Location/Chainage	Source of Sample	Date of Testing	MDD	OMC	PI%	CBR%	Remarks
1	RUDP-SG-01	T3L22A,(0+190)	Existing Road	4-Jun-20	1.980	8.40	8.98	6.98	
Sp.Limit								<18	>3
Contractor ZHONGHENG CONSTRUCTION GROUP INTERNATIONAL ENGINEERING CO. LTD					Consultant BUILDING DESIGN AUTHORITY (P) LTD IN JOINT VENTURE WITH B.N. CONSULTANCY PVT. LTD AND PLUS ENGINEERS & ARCHITECTS (P) LTD, KATHMANDU, NEPAL				
 Checked By Engineer Dhirendra yadav		 Submitted By Contract Manager Rabindra kr. Thakur		 Verified By Expert Qty Surveyor/CSE H.K. Mandal/Rajan Shrestha		 Approved By Team Leader Giresh Chand			



REGIONAL URBAN DEVELOPMENT PROJECT									
Biratnagar Metropolitan City									
Contract No:- RUDP/ICB/BRT-02									
Summary Sheet of Field Density Test									
Location: T3L22A							Month	June	
							Year	2020	
							Type of Material	Sub-Grade	
Sn.	Lab.Ref.no	Testing Date	Change	Moisture content %		Density(gm/cc)		Compaction %	
				OMC%	Field MC%	Max.Dry density gm/cc	Field Dry density, gm/cc	Compaction %	Specified %
1	RUDP-SG-FD-1, R/S	5-Jun-20	0+040	8.40	8.11	1.98	1.895	95.71	95
2	RUDP-SG-FD-1, C/L	5-Jun-20	0+100	8.40	7.91	1.98	1.911	96.53	95
3	RUDP-SG-FD-1, L/S	5-Jun-20	0+160	8.40	5.43	1.98	1.903	96.10	95
4	RUDP-SG-FD-1, C/L	5-Jun-20	0+230	8.40	6.03	1.98	1.939	97.94	95
5	RUDP-SG-FD-1, R/S	5-Jun-20	0+260	8.40	6.01	1.98	1.884	95.17	95
6	RUDP-SG-FD-1, R/S	5-Jun-20	0+330	8.40	7.31	1.98	1.895	95.71	95
<p>Checked By Engineer Dhirendra yadav</p>				<p>Submitted By Contract Manager Rabindra Kr. Thakur</p>		<p>Verified By Expert Qty Surveyor/CSE H.K. Mandal/Rajan Shrestha</p>		<p>Approved By Team Leader Giresch Chand</p>	



REGIONAL URBAN DEVELOPMENT PROJECT

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

Summary Sheet of Monthly Test Report

Month:	June
Year	2020
Type of Material	Sub grade

Location:-T2L19W

Sr.	Lab.Ref no.	Location/Chainage	Source of Sample	Date of Testing	MDD	OMC	PI%	CBR%	Remarks
1	RUDP-SG-01	T2L19W(0+030)	Existing Road	10-Jun-20	1.935	10.10	9.23	7.52	

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 Kr. Thakur	 Verified By Expert Qty Surveyor/CSE H.k. Mandal/Rajan Shrestha	 Approved By Team Leader Giresh Chand



REGIONAL URBAN DEVELOPMENT PROJECT

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

Summary Sheet of Field Density Test

Location:- T2L19W

Month	June
Year	2020
Type of Material	Sub-Grade

Sn.	Lab.Ref.no	Testing Date	Chainage	Moisture content %		Density(gm/cc)		Compaction %	
				OMC%	Field MC%	Max.Dry density gm/cc	Field Dry density, gm/cc	Compaction %	Specified %
1	RUDP-SG-FD-1, L/S	13-Jun-20	0+020	10.10	8.61	1.935	1.868	96.55	95
2	RUDP-SG-FD-1, R/S	13-Jun-20	0+040	10.10	9.42	1.935	1.853	95.78	95
3	RUDP-SG-FD-1, L/S	13-Jun-20	0+060	10.10	8.09	1.935	1.874	96.83	95

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



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

Month:	June 2020																
	Year	Sub-base															
Sn.	Lab.Ref no.	Location of Sample	Source of Sample	Date of Testing	Sieve Size in mm / passing % By Weight						MDD	OMC	PP%	CBR%	Remarks		
					63.0	37.5	20.0	10.0	5.0	2.36	1.18	0.075					
1	RUDP-SB-01	T3L22B,(0+080)	Chisang Khola	19-Jun-20	100	89.86	64.80	52.86	33.29	24.84	16.40	7.95	2.218	5.50	1.40	47.90	

Location :- T3L22B

Spec. Limit : 100 65-95 50-85 40-75 30-60 20-45 15-37 4-15 >30



ZHONGHENG CONSTRUCTION GROUP INTERNATIONAL ENGINEERING CO. LTD



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

Checked By
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

Month:	June		
	Year	2020	
Type of Material	Sub-base		
	OMC	PI%	CBR%
1	5.48	1.86	44.95
2	1.58		

Location :- T3L22A

Sn.	Lab. Ref no.	Location of Sample	Source of Sample	Date of Testing	Sieve Size in mm / passing % By Weight										MDD	Remarks
					63.0	37.5	20.0	10.0	5.0	2.36	1.18	0.075	75	60		
1	RUDP-SB-01	T3L22A, (0+090)	Chisang Khola	19-Jun-20	100	88.64	78.06	64.22	34.36	27.46	18.97	7.99	2.220			
2	RUDP-SB-02	T3L22A, (0+280)	Chisang Khola	20-Jun-20	100	89.56	78.18	63.86	32.87	25.90	18.20	6.24				

<p>Spec. Limit : 100 65-95 50-85 40-75 30-60 20-45 15-37 4-15</p>	<p><6 >30</p>
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<p>Contractor ZHONGHENG CONSTRUCTION GROUP INTERNATIONAL ENGINEERING CO., LTD</p>	<p>Consultant BUILDING DESIGN AUTHORITY (P) LTD IN JOINT VENTURE WITH B.N. CONSULTANCY PVT. LTD AND PLUS ENGINEERS & ARCHITECTS (P) LTD, KATHMANDU, NEPAL</p>
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<p>Checked By Engineer Dharendra yadav</p>	<p>Submitted By Contract Manager Rabindra Kr. Thakur</p>
--	--

<p>Verified By Expert Qty Surveyor/CSE H.K. Mandal/Rajan Shrestha</p>	<p>Approved By Team Leader Giresh Chand</p>
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REGIONAL URBAN DEVELOPMENT PROJECT
 Biratnagar Metropolitan City
 Contract No:- RUDP/ICB/BRT-02
 Summary Sheet of Monthly Test Report

Sn.	Lab. Ref no.	Location of Sample	Source of Sample	Date of Testing	Sieve Size in mm / passing % By Weight										MDD	OMC	PI%	CBR%	Remarks
					63.0	37.5	20.0	10.0	5.0	2.36	1.18	0.075	75	60					
1	RUDP-SB-01	T3L25A ₁ (0+140)	Chisang Khola	12-Jun-20	100	90.98	72.40	50.36	33.47	24.75	18.83	11.50	2.214	5.80	1.38	52.20			
2	RUDP-SB-02	T3L25A ₁ (0+260)	Chisang Khola	12-Jun-20	100	89.09	68.91	55.07	32.91	21.92	15.88	8.14			1.80				
Spec. Limit :					100	65-95	50-85	40-75	30-60	20-45	15-37	4-15			<6		>30		

Location :- T3L25A

Month: June
 Year: 2020
 Type of Material: Sub-base

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



REGIONAL URBAN DEVELOPMENT PROJECT


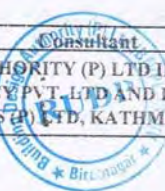
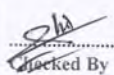
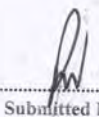
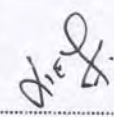

Biratnagar Metropolitan City
Contract No:- RUDP/ICB/BRT-02

Summary Sheet of Field Density Test

Month	June
Year	2020
Type of Material	Sub-Base

Location:-T3L25A

Sn.	Lab.Ref.no	Testing Date	Change	Moisture content %		Density(gm/cc)		Compaction %	
				OMC%	Field MC%	Max.Dry density	Field Dry density	Compaction	Specified %
1	RUDP-SB-FD-1, L/S	15-Jun-20	0+050	5.80	5.66	2.214	2.122	95.83	95
2	RUDP-SB-FD-1, R/S	15-Jun-20	0+140	5.80	5.56	2.214	2.130	96.19	95
3	RUDP-SB-FD-1, L/S	15-Jun-20	0+220	5.80	5.60	2.214	2.113	95.43	95
4	RUDP-SB-FD-1, R/S	15-Jun-20	0+300	5.80	5.71	2.214	2.161	97.60	95

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



REGIONAL URBAN DEVELOPMENT PROJECT

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

Sn.	Lab. Ref no.	Location of Sample	Source of Sample	Date of Testing	Sieve Size in mm / passing % By Weight								MDD	PP% CBR%	Remarks		
					63.0	37.5	20.0	10.0	5.0	2.36	1.18	0.075					
1	RUDP-SB-01	T2L18K,(0+050)	Chisang Khola	12-Jun-20	100	89.66	70.06	57.84	37.53	28.02	15.85	7.09	2.228	6.45	0.52	49.00	

Month: June	Year: 2020	Type of Material: Sub-base
Location :- T2L18K Spec. Limit : 100 65-95 50-85 40-75 30-60 20-45 15-37 4-15 >30 <6		

Contractor
 ZHONGHENG CONSTRUCTION GROUP INTERNATIONAL ENGINEERING CO. LTD

Checked By
 Engineer
 Dharendra Yadav

Submitted By
 Contract Manager
 Rabindra K. Thakur

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

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

Approved By
 Team Leader
 Giresh Chand



REGIONAL URBAN DEVELOPMENT PROJECT

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

Summary Sheet of Field Density Test

Location:-T2L18K

Month	June
Year	2020
Type of Material	Sub-Base

Sn.	Lab.Ref.no	Testing Date	Chainage	Moisture content %		Density(gm/cc)		Compaction %	
				OMC%	Field MC%	Max.Dry density	Field Dry density,	Compaction	Specified %
1	RUDP-SB-FD-1, L/S	15-Jun-20	0+030	6.45	5.55	2.228	2.166	97.20	95
2	RUDP-SB-FD-1, C/L	15-Jun-20	0+040	6.45	5.01	2.228	2.165	97.16	95
3	RUDP-SB-FD-1, R/S	15-Jun-20	0+070	6.45	5.30	2.228	2.152	96.59	95

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



REGIONAL URBAN DEVELOPMENT PROJECT

Biratnagar Metropolitan City


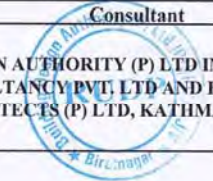



Contract No:- RUDP/ICB/BRT-02

Summary Sheet of Field Density Test

Month	June
Year	2020
Type of Material	Sub-Base

Location:-T3L22A

Sn.	Lab.Ref.no	Testing Date	Chainage	Moisture content %		Density(gm/cc)		Compaction %	
				OMC%	Field MC%	Max.Dry density	Field Dry density	Compaction	Specified %
1	RUDP-SB-FD-1, L/S	12-Jun-20	0+020	6.35	5.90	2.226	2.124	95.44	95
2	RUDP-SB-FD-1, C/L	12-Jun-20	0+050	6.35	5.42	2.226	2.130	95.70	95
3	RUDP-SB-FD-1, R/S	12-Jun-20	0+090	6.35	5.52	2.226	2.148	96.51	95
4	RUDP-SB-FD-1, L/S	12-Jun-20	0+150	6.35	6.50	2.226	2.147	96.46	95
5	RUDP-SB-FD-1, R/S	12-Jun-20	0+210	6.35	6.50	2.226	2.131	95.72	95
6	RUDP-SB-FD-1, R/S	12-Jun-20	0+280	6.35	5.98	2.226	2.147	96.19	95

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



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

Location:- T2L18K

S.N.	Lab Ref no.	Location of Sample	Source of Sample	Date of Testing	Sieve Size in mm / % passing By Weight										MDD	OMC	PP%	L.A.A. %	FI and EI %	A.I.V. %	CR %	CBR %	Remarks
					40	31.5	20	10	4.75	2.36	0.600	0.075											
					100	91.58	65.63	49.42	39.31	31.06	14.55	3.93											
1	RUDP-B-01	T2L18K_(0+040)	Chisang Khola	12-Jun-20														31.70	20.98/17.71	22.86	86.26	93.00	
Spec. Limit :					100	85-100	62-92	40-70	26-55	21-53	12-28	2-10						< 45	< 35	< 35	> 80	> 80	

<p style="text-align: center;">Contractor</p> <p style="text-align: center;"> ZHONGHENG CONSTRUCTION GROUP INTERNATIONAL ENGINEERING CO. LTD </p>	<p style="text-align: center;">Consultant</p> <p style="text-align: center;"> BUILDING DESIGN AUTHORITY (P) LTD IN JOINT VENTURE WITH B.N. CONSULTANCY PVT. LTD AND PLUS ENGINEERS & ARCHITECTS (P) LTD, KATHMANDU, NEPAL. </p>
---	---

Checked By

 Engineer
 Dhirendra yadav

Submitted By

 Contract Manager
 Rabinendra Kr. Thakur

Verified By

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

Approved By

 Team Leader
 Giresh Chand

Month: June 2020
 Year:
 Type of Material:
 Base:




REGIONAL URBAN DEVELOPMENT PROJECT

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

Location:-T2L18K

Month	June
Year	2020
Type of Material	
Base	

Sn.	Lab.Ref.no	Testing Date	Chainage	Moisture content %		Density(gm/cc)		Compaction %	
				OMC%	Field MC%	Max.Dry density gm/cc	Field Dry density, gm/cc	Compaction %	Specified %
1	RUDP-B-FD-1, R/S	16-Jun-20	0+020	5.40	5.08	2.247	2.222	98.89	98
2	RUDP-B-FD-1, C/L	16-Jun-20	0+065	5.40	5.72	2.247	2.237	99.57	98

 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 Kr. Thakur
 Verified By Expert Qty Surveyor/CSE H.K. Mandal/Rajan Shrestha	 Approved By Team Leader Giresch Chand



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

Location: - T3L22A

S.N.	Lab Ref no.	Location of Sample	Source of Sample	Date of Testing	Sieve Size in mm / % passing By Weight										MDD	OMC	P% NP	Type of Material			Remarks
					40	31.5	20	10	4.75	2.36	0.6	0.075	L.A.A. %	FI and EI %				A.L.V. %	CR	CBR %	
1	RUDP-B-01	T3L22A,(0+080)	Chisang Khola	19-Jun-20	100	88.87	68.31	54.29	42.54	32.80	16.97	7.23	2.247	5.10	NP	30.30	22.39/21.24	22.68	81.88	85.00	
2	RUDP-B-02	T3L22A,(0+200)	Chisang Khola	20-Jun-20	100	89.00	67.64	53.13	40.44	30.40	21.09	8.76			NP	31.76	22.93/21.08	21.47	81.07		
Spec. Limit :					100	85-100	62-92	40-70	26-55	21-53	12-28	2-10				< 45	< 35	< 35	> 80	> 80	

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 Export Qty Surveyor/CSE H.K. Mandal/Rajan Shrestha	Approved By Team Leader Girish Chand



REGIONAL URBAN DEVELOPMENT PROJECT
Biratnagar Metropolitan City

Contract No:- RUDP/ICB/BRT-02
 Summary Sheet of Field Density Test

Location:-T3L22A

Sn.	Lab.Ref.no	Testing Date	Chainage	Moisture content %		Density(gm/cc)		Compaction %	
				OMC%	Field MC%	Max.Dry density gm/cc	Field Dry density, gm/cc	Compaction %	Specified %
				Type of Material		Base			
1	RUDP-B-FD-4, L/S	22-Jun-20	0+050	5.65	4.75	2.245	2.213	98.59	98
2	RUDP-B-FD-4, C/L	22-Jun-20	0+110	5.65	5.71	2.245	2.208	98.35	98
3	RUDP-B-FD-4, R/S	22-Jun-20	0+160	5.65	5.16	2.245	2.202	98.09	98
4	RUDP-B-FD-4, C/L	22-Jun-20	0+230	5.65	5.24	2.245	2.212	98.54	98



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 Kr. Thakur



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



Approved By
 Team Leader
 Giresch Chand



REGIONAL URBAN DEVELOPMENT PROJECT



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

Summary Sheet of Monthly Test Report




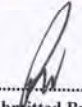
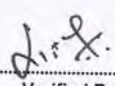




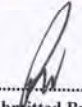
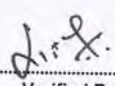




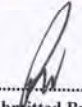
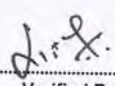

Location:- T3L25A

S.N.	Lab.Ref no.	Location of Sample	Source of Sample	Date of Testing	Sieve Size in mm / % passing By Weight										MDD	OMC	PI%	Type of Material			Remarks
					40	31.5	20	10	4.75	2.36	0.6	0.075	L.A.A. %	Fl and El %				A.I.V. %	CR %	CBR %	
1	RUIDP-B-01	T3L25A,(0+080)	Chisang Khola	17-Jun-20	100	89.54	72.18	52.75	33.23	25.23	13.23	5.85	2.248	5.40	NP	27.50	23.50/23.49	22.32	82.68	89.10	
2	RUIDP-B-02	T3L25A,(0+190)	Chisang Khola	18-Jun-20	100	91.94	70.17	51.85	38.17	30.37	14.99	8.41			NP	30.10	22.47/23.40	21.88	82.52		
3	RUIDP-B-03	T3L25A,(0+310)	Chisang Khola	19-Jun-20	100	91.62	65.39	50.95	37.58	30.02	12.61	6.70			NP	29.80	23.91/18.55	22.83	81.66		

Spec. Limit : 100 85-100 62-92 40-70 26-55 21-53 12-28 2-10 <45 <35 <35 >80 >80

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 Kr. Thakur
Verified By Expert Qty Surveyor/CSE H.K. Mandal/Rajjan Shrestha	Approved By Team Leader Girish Chand



REGIONAL URBAN DEVELOPMENT PROJECT																													
Biratnagar Metropolitan City																													
Contract No:- RUDP/ICB/BRT-02																													
Summary Sheet of Field Density Test																													
Location:-T3L25A																													
				Moisture content %		Density(gm/cc)		Compaction %																					
Sn.	Lab.Ref.no	Testing Date	Chainage	OMC%	Field MC%	Max.Dry density gm/cc	Field Dry density, gm/cc	Compaction %	Specified %																				
1	RUDP-B-FD-1, L/S	23-Jun-20	0+030	5.805	5.71	2.248	2.208	98.24	98																				
2	RUDP-B-FD-1, C/L	23-Jun-20	0+090	5.805	4.63	2.248	2.211	98.37	98																				
3	RUDP-B-FD-1, L/S	23-Jun-20	0+150	5.805	5.07	2.248	2.221	98.81	98																				
4	RUDP-B-FD-1, R/S	23-Jun-20	0+230	5.805	4.42	2.248	2.220	98.77	98																				
5	RUDP-B-FD-1, R/S	23-Jun-20	0+290	5.805	4.87	2.248	2.208	98.23	98																				
6	RUDP-B-FD-1, R/S	23-Jun-20	0+320	5.805	5.68	2.248	2.223	98.87	98																				
				As per report checked by J.K.T.																									
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Contractor  ZHONGHENG CONSTRUCTION GROUP INTERNATIONAL ENGINEERING CO. LTD					Consultant  BUILDING DESIGN AUTHORITY (P) LTD IN JOINT VENTURE WITH B.N. CONSULTANCY PVT. LTD AND PLUS ENGINEERS & ARCHITECTS (P) LTD, KATHMANDU, NEPAL																								
 Checked By Engineer Dhirendra Yadav		 Submitted By Contract Manager Rabindra Kr. Thakur			 Verified By Expert Qty Surveyor/CSE H.K. Mandal/Rajan Shrestha			 Approved By Team Leader Giresh Chand																					



REGIONAL URBAN DEVELOPMENT PROJECT



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

Summary Sheet of Monthly Test Report

S.N.	Lab Ref no.	Location of Sample	Source of Sample	Date of Testing	Sieve Size in mm / % passing By Weight										MDD	OMC	PP%	Type of Material			Remarks				
					40	31.5	20	10	4.75	2.36	0.600	0.075	L.A.A	FI and EI %				A.I.V. %	CB	CBR %					
1	RUDP-B-01	R-23,(0+100)	Chisang Khola	18-Jun-20	100	89.14	68.28	52.53	41.67	29.64	15.99	7.19	2.252	5.80	NP	30.30	21.96	20.33	82.68	82.12	89.00				
2	RUDP-B-02	R-23,(0+210)	Chisang Khola	19-Jun-20	100	87.23	65.26	52.49	41.29	31.76	19.51	8.62		NP	32.20	21.96	20.59	21.10	82.25						

Spec. Limit : 100 85-100 62-92 40-70 26-55 21-53 12-28 2-10 <45 <35 <35 >80 >80 >80

Location: R-23

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

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

Summary Sheet of Monthly Test Report

		Location:-N-3											Month		June 2020						
S.N.	Lab. Ref no.	Location of Sample	Source of Sample	Date of Testing	Sieve Size in mm / % passing By Weight											Type of Material		Base			
					40	31.5	20	10	4.75	2.36	0.600	0.075	MDD	OMC	PP%	L.A.A. %	Fl and El %	A.I.V. %	CR %	CBR %	Remarks
1	RUDP-B-01	N-3,(0+110)	Chising Khola	8-Jun-20	100	93.89	73.17	45.12	37.42	29.52	16.47	6.46	2.242	4.90	NP	32.96	19.00/19.03	22.03	84.12	84.90	
2	RUDP-B-02	N-3,(0+280)	Chising Khola	9-Jun-20	100	92.77	72.02	44.43	37.44	29.20	16.04	5.93			NP	31.76	18.47/18.87	21.30	82.52		
					Spec. Limit : 100 85-100 62-92 40-70 26-55 21-53 12-28 2-10											<45	<35	<35	>80	>80	
		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								
		<p>Checked By Engineer Dhirendra Yadav</p>											<p>Verified By Expert Qty Surveyor/CSE H.K. Mandal/Rajan Shrestha</p>								
		<p>Submitted By Contract Manager Rabindra Kr. Thakur</p>											<p>Approved By Team Leader Gireesh Chand</p>								



REGIONAL URBAN DEVELOPMENT PROJECT



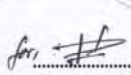

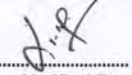

Biratnagar Metropolitan City
Contract No:- RUDP/ICB/BRT-02

Summary Sheet of Field Density Test

Location:-N-3

Month	June
Year	2020
Type of Material	Base

Sn.	Lab.Ref.no	Testing Date	Chainage	Moisture content %		Density (gm/cc)		Compaction %	
				OMC%	Field MC%	Max. Dry density	Field Dry density	Compaction %	Specified %
1	RUDP-B-FD-1, R/S	11-Jun-20	0+050	4.90	4.72	2.242	2.208	98.51	98
2	RUDP-B-FD-1, C/L	11-Jun-20	0+130	4.90	3.91	2.242	2.215	98.80	98
3	RUDP-B-FD-1, R/S	11-Jun-20	0+210	4.90	3.95	2.242	2.231	99.53	98
4	RUDP-B-FD-1, L/S	11-Jun-20	0+290	4.90	4.24	2.242	2.202	98.20	98

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



REGIONAL URBAN DEVELOPMENT PROJECT

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

			Sieve Size in mm / % passing By Weight							MDD		Type of Material		Base					
S.N	Lab. Ref no.	Location of Sample	Date of Testing	%							OMC	PI%	L.A.A. %	Fl and El %	A.I.V. %	CR	CBR %	Remarks	
				40	31.5	20	10	4.75	2.36	0.6									0.075
1	RUDP-B-01	T3L23C(0+050)	4-Jun-20	100	88.46	67.04	56.38	43.90	35.40	19.63	5.23	2.256	4.95	NP					
Spec. Limit : 100 85-100 62-92 40-70 26-55 21-53 12-28 2-10																			

Contractor ZHONGHENG CONSTRUCTION GROUP INTERNATIONAL ENGINEERING CO. LTD	Consultant BUILDING DESIGN AUTHORITY (P) 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 Export Qty Surveyor/CSE H.K. Mandal/Rajan Shrestha	Approved By Team Leader Giresh Chand

REGIONAL URBAN DEVELOPMENT PROJECT

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

Location:-T3L23C

Month	June
Year	2020
Type of Material	Base

Sn.	Lab.Ref.no.	Testing Date	Chainage	Moisture content %		Density(gm/cc)		Compaction %	
				OMC%	Field MC%	Max.Dry density gm/cc	Field Dry density, gm/cc	Compaction %	Specified %
1	RUDP-B-FD-01,LHS	7-Jun-20	0+030	4.95	4.71	2.256	2.232	98.96	98.00%
2	RUDP-B-FD-01,RHS	7-Jun-20	0+070	4.95	4.47	2.256	2.226	99.08	98.00%

 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, BHATIMANDU, 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



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

Location:-R-106

S.N.	Lab. Ref no.	Location of Sample	Source of Sample	Date of Testing	Sieve Size in mm / % passing By Weight										MDD	OMC	PI%	L.A.A. %	Type of Material			Remarks		
					40	31.5	20	10	4.75	2.36	0.6	0.075	100	89.08					68.62	57.78	40.41		32.09	18.05
1	RUDP-B-01	R-106,(0+190)	Chising Khola	4-Jun-20															30.86	19.32/18.74	17.12	83.98	81.90	
Spec. Limit : 100 85-100 62-92 40-70 26-55 21-53 12-28 2-10 <45 <35 <35 >80 >80																								

<p style="text-align: center;">Contractor</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;">Consultant</p> <p style="text-align: center;">BUILDING DESIGN AUTHORITY (P) LTD IN JOINT VENTURE WITH B.N. CONSULTANCY PVT. LTD AND PLUS ENGINEERS & ARCHITECTS (P) LTD, KATHMANDU, NEPAL</p> <p style="text-align: center;">Verified By Expert Qty Surveyor/CSE H.K. Mandal/Rajjan Shrestha</p> <p style="text-align: center;">Approved By Team Leader Gireesh Chand</p>
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REGIONAL URBAN DEVELOPMENT PROJECT										
Biratnagar Metropolitan City										
Contract No:- RUDP/ICB/BRT-02										
Summary Sheet of Field Density Test										
						Month	June			
						Year	2020			
						Type of Material	Base			
Sn.	Lab.Ref.no	Testing Date	Chainage	Moisture content %		Density(gm/cc)		Compaction %		
				OMC%	Field MC%	Max.Dry density	Field Dry density,	Compaction %	Specified %	
1	RUDP-B-FD-1, L/S	8-Jun-20	0+170	5.90	5.18	2.248	2.209	98.26	98	
2	RUDP-B-FD-1, R/S	8-Jun-20	0+210	5.90	4.28	2.248	2.213	98.45	98	
3	RUDP-B-FD-1, C/L	8-Jun-20	0+240	5.90	5.00	2.248	2.246	99.89	98	
4	RUDP-B-FD-1, R/S	8-Jun-20	0+260	5.90	4.82	2.248	2.211	98.37	98	
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 Kr. Thakur		 Verified By Expert Qty Surveyor/CSE H.K. Mandal/Rajan Shrestha		 Approved By Team Leader Giresch Chand				



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

S.N.	Lab. Ref no.	Location of Sample	Source of Sample	Date of Testing	Sieve Size in mm / % passing By Weight										MDD	OMC	PPV	Type of Material			Remarks	
					40	31.5	20	10	4.75	2.36	0.6	0.075	L.A.A. %	Fl and El %				A.I.V. %	CR	CBR %		
1	RUDP-B-01	R-3,(5+200)	Chisang Khola	1-Jun-20	100	89.61	68.03	54.89	42.78	33.53	18.85	8.88	2.255	4.48	NP	31.60	19.64	19.22	20.00	81.14	96.90	
2	RUDP-B-02	R-3,(5+390)	Chisang Khola	2-Jun-20	100	88.09	66.72	52.62	41.65	31.16	17.99	6.75			NP	32.30	17.60	17.77	21.19	82.88		
					Spec. Limit : 100 85-100 62-92 40-70 26-55 21-53 12-28 2-10													<45	<35	<35	>80	>80

Contractor

ZHONGHENG CONSTRUCTION GROUP INTERNATIONAL ENGINEERING CO. LTD

Checked By

 Engineer
 Dhirendra yadav

Consultant

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

Submitted By

 Contract Manager
 Rabindra Kr. Thakur

Verified By

 Export 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 Field Density Test

Location:-T3L Trunk line (R-3)

Sn.	Lab.Ref.no	Testing Date	Chainage	Moisture content %		Density(gm/cc)		Compaction %	
				OMC%	Field MC%	Max.Dry density	Field Dry density,	Compaction %	Specified %
1	RUDP-B-FD-1, L/S	4-Jun-20	5+100	4.48	5.18	2.255	2.214	98.18	98
2	RUDP-B-FD-1, R/S	4-Jun-20	5+150	4.48	4.28	2.255	2.219	98.40	98
3	RUDP-B-FD-1, L/S	4-Jun-20	5+200	4.48	5.00	2.255	2.252	99.84	98
4	RUDP-B-FD-1, R/S	4-Jun-20	5+260	4.48	4.82	2.255	2.217	98.31	98
5	RUDP-B-FD-1, L/S	4-Jun-20	5+400	4.48	5.32	2.255	2.231	98.93	98

Month	June
Year	2020

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



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 JUNE 2020

Type of Bitumen: 80/100 P.G
Cutter Percentage: MC 70:MC 30

SN NO	Location	Date of Priming	Station From	Station to	Side of Priming	Area of Priming (m ²)	Intersection Area m ²	Total Area M ²	Bitumen Consumption (Ltr)	Application Rate By Dec Ltr/m ²	Application Rate Application Rate Bt Tray Test Ltr/m ²
1	T3L Trunk line, (R-3)	5-Jun-20	5+100	5+440	Both side	2866.20	0.00	2866.20	3100	1.08	1.05
2	R-6, (T3L10)	8-Jun-20	0+000	0+138	Both Side	579.60	0.00	579.60	600	1.04	1.03
3	R-106	9-Jun-20	0+160	0+289	Both Side	516.00	0.00	516.00	550	1.07	1.02
4	T2L19H	8-Jun-20	0+000	0+87.5	Both Side	579.60	0.00	579.60	600	1.04	1.03
5	T3L23C	24-Jun-20	0+000	0+086.5	Both Side	664.20	0.00	664.20	700	1.05	1.04
6	R-23	24-Jun-20	0+000	0+239.5	Both Side	926.60	0.00	926.60	1000	1.08	1.05
7	T2L18K	24-Jun-20	0+000	0+072	Both Side	223.20	0.00	223.20	250	1.07	1.03
								Total	6800		

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

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/RajanShrestha

Approved 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 JUNE-2020												Page no 1 of 1
S.N.	Location	Date of Tack coat	Station From	Station to	Sides of Tack coat	Area of Tack coat	Intersection Area m2	Total Area M2	Bitumen(L) Consumption	Application Rate By Dip Lit/m2	Application Rate Bit Tray Test Lit/m2	
1	R-12	2-Jun	0+920	1+100	BHS	1287	0	1287	750	0.58	0.51	
2	R-46	3-Jun	0+000	0+220	BHS	1975.6	0	1975.6	1100	0.56	0.52	
3	T3L10F	7-Jun	0+760	0+905	BHS	725	0	725	425	0.59	0.56	
4	T3L22 & Around Devkota Chowk)	7-Jun	0+000	0+188	BHS	2372.6	0	2372.6	1375	0.58	0.52	
5	T3L Trunk line ,(R-3)	8-Jun-20	5+100	5+440	BHS	2866.2	0	2866.20	1600	0.56	0.53	
6	R-16	9-Jun-20	0+000	0+220	BHS	935	0	935	550	0.59	0.51	
7	R-4	9-Jun-20	0+440	0+760	BHS	2592	0	2592.00	1400	0.54	0.50	
8	T2L19G	10-Jun-20	0+000	0+065	BHS	260	0	260.00	150	0.58	0.50	
9	T2L19H	10-Jun-20	0+000	0+87.5	BHS	659.64	0	659.64	350	0.57	0.46	
10	T3L13C	10-Jun-20	0+000	0+229	BHS	951.59	0	951.59	550	0.58	0.53	
Required tack coat is 0.40 to 0.60Lit/M2 According to Road Note -3,Section 711.2												
Specific Gravity of Bitumen 1.020												
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 Kr. Thakur						
Verified By Expert Qty Surveyor/CSE H.K. Maudal/Rajjan Shrestha						Approved By Team Leader Girish 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 JUNE-2020											
Type of Bitumen:80/100 P.G										Page no 1 of 2	
S.N.	Location	Date of Tack coat	Station From	Station to	Side of Tack coat	Area of Tack coat	Intersection Area m2	Total Area M2	Bitumen Consumption	Application Rate By Dip Lit/m2	Application Rate Bt Tray Test Lit/m2
12	T2L19Y	11-Jun-20	0+000	0+105	BHS	430.5	0	430.50	250	0.58	0.53
13	T2L19V	11-Jun-20	0+000	0+97.3	BHS	428.12	0	428.12	250	0.58	0.52
14	T2L19Z	11-Jun-20	0+000	0+058	BHS	180.96	0	180.96	100	0.55	0.51
15	T2L18A	12-Jun-20	0+000	0+095	BHS	285	0	285.00	150	0.53	0.48
16	R-106	12-Jun-20	0+160	0+289	BHS	516	0	516.00	300	0.58	0.51
17	T3L11N	12-Jun-20	0+000	0+070	BHS	266	0	266.00	150	0.56	0.49
18	R-6,(T3L10)	12-Jun-20	0+000	0+140	BHS	840	0	840.00	450	0.54	0.52
Total									9900		
Required tack coat is 0.40 to 0.60lit/M2 According to Road Note -3,Section 711.2											
Specific Gravity of Bitumen 1.020											
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					
Approved By Team Leader Giresch Chand						Verified By Expert Qty Surveyor/CSE H.K. Mandal/Rajjan Shrestha					



REGIONAL URBAN DEVELOPMENT PROJECT												Pg No. 1			
Biratnagar Metropolitan City															
Contract No: RUDP/ICB/BRT-02															
Test Result BY MARSHALL METHOD (AASHTO T 245-78)															
SUMMARY FOR THE MONTH OF JUNE 2020															
S. No.	LAR REF. No.	Date of Laying	Location of Work ch:	Mix Agg Gradation						Blinnom Content Extinction Test %	Mix Density g/mcc	Air Voids %	VMA %	Stability (N)	Flow (mm)
				20	16	9.5	4.75	2.36	0.6						
1	219	2/6/2020	R-12,(0+920 to 1+100)	100	100	77.07	57.96	36.94	19.74	8.16	5.81	3.43	16.41	11307	2.45
2	220	3/6/2020	R-36,(0+000 to 0+220)	100	100	78.15	55.14	35.09	16.53	6.03	5.71	3.23	16.49	11413	2.58
3	221	7/6/2020	T3L10F,(0+760 to 0+905)	100	100	77.92	54.68	33.66	16.36	6.27	5.79	3.40	16.38	11157	2.47
4	222	7/6/2020	T3L22,Arround dlevkota Chowk,(0+000 to 0+233)	100	100	80.70	55.78	32.98	15.16	6.57	5.70	3.13	16.40	10944	2.53
5	223	8/6/2020	T3L Trunk Lane (R-3),(5+100 to 5+440)	100	100	78.89	55.98	35.71	16.41	6.01	5.74	4.01	17.35	11648	2.28
6	224	9/6/2020	R-16,(0+000 to 0+220)	100	100	78.89	56.31	35.10	16.65	6.26	5.70	3.66	16.35	11413	2.42
7	225	9/6/2020	R-4,(0+440 to 0+760)	100	100	78.57	55.43	34.74	16.91	6.62	5.76	3.05	16.46	11200	2.38
8	226	10/6/2020	T2L19G,(0+000 to 0+065)	100	100	81.42	55.63	34.93	16.88	6.26	5.80	2.386	16.90	11253	2.55
9	227	10/6/2020	T2L19H,(0+000 to 0+87)	100	100	81.84	56.36	35.54	17.49	7.40	5.83	2.372	16.58	11051	2.25
10	228	10/6/2020	T3L13C,(0+000 to 0+229.3)	100	100	80.97	55.13	38.87	19.84	8.67	5.94	2.387	17.22	11008	2.50
11	229	11/6/2020	T2L19Y,(0+000 to 0+105)	100	100	78.04	54.70	35.82	17.15	6.55	5.73	3.51	16.88	10688	2.50
12	230	11/6/2020	T2L19Y,(0+000 to 0+097.3)	100	100	78.90	56.63	35.31	16.75	6.57	5.71	2.365	16.62	11072	2.47
13	231	11/6/2020	T2L19Z,(0+000 to 0+058)	100	100	77.42	54.73	35.01	17.20	6.39	5.68	3.31	16.49	11563	2.27
14	232	12/6/2020	T2L18A,(0+000 to 0+095)	100	100	78.14	56.07	36.45	16.60	6.42	5.75	2.371	16.45	11200	2.62
15	233	12/6/2020	R-106,(0+160 to 0+289)	100	100	77.2	56.42	34.99	16.54	6.79	5.70	2.375	17.08	11499	2.55
16	234	12/6/2020	T3L11N,(0+000 to 0+070)	100	100	78.90	56.31	36.27	16.76	6.36	5.70	2.370	16.46	11232	2.55
17	235	12/6/2020	R-6,T3L10,(0+000 to 0+140)	100	100	78.15	55.14	35.09	16.53	6.03	5.71	2.369	16.49	11413	2.38
Specifications				100-100	78-82	64-59	33-37	16-21	6 to 9	5.703	Min2.358	3-5%	≥ 15%	≥ 8500	2-3
Job Mix Tolerances from RUDP Specification Table2-4-10				±5%	Nil	±5%	±2%	±1%	Nil	±0.3%					
REMARKS:															
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															
<div style="display: flex; justify-content: space-between;"> <div> <p>Submitted By Contract Manager Rabindra Kr. Thakur</p> </div> <div> <p>Verified By Expert Qty Surveyor/CSE H K. Mandal</p> </div> <div> <p>Approved By Team Leader Gireesh Chand</p> </div> </div>															



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 **June**

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 ²		Type of Grade
							7 Days	28 Days	7 Days	28 Days	
							1	R-18	MR-2767	Arghakhanchi	
2	T2L22A	MR-2768	Arghakhanchi	OPC	Chisang Khola	25-May-20	1-Jun-20	22-Jun-20	6.47	8.63	7.5
3	R-6	MR-2769	Arghakhanchi	OPC	Chisang Khola	25-May-20	1-Jun-20	22-Jun-20	6.20	8.23	7.5
4	T2L90	MR-2770	Arghakhanchi	OPC	Chisang Khola	29-May-20	5-Jun-20	26-Jun-20	5.66	8.09	7.5
5	T2L24C	MR-2771	Arghakhanchi	OPC	Chisang Khola	25-May-20	1-Jun-20	22-Jun-20	7.01	9.57	7.5
6	T3L23C	MR-2772	Arghakhanchi	OPC	Chisang Khola	1-Jun-20	8-Jun-20	29-Jun-20	5.93	8.90	7.5
7	T3L24C	MR-2773	Arghakhanchi	OPC	Chisang Khola	1-Jun-20	8-Jun-20	29-Jun-20	6.20	8.23	7.5
8	R-107	MR-2774	Arghakhanchi	OPC	Chisang Khola	3-Jun-20	10-Jun-20	1-Jul-20	7.01	✓	7.5
9	T1L7	MR-2775	Arghakhanchi	OPC	Chisang Khola	3-Jun-20	10-Jun-20	1-Jul-20	6.61		7.5
10	R-70	MR-2776	Arghakhanchi	OPC	Chisang Khola	6-Jun-20	13-Jun-20	4-Jul-20	5.93		7.5
11	T3L26A	MR-2777	Arghakhanchi	OPC	Chisang Khola	8-Jun-20	15-Jun-20	6-Jul-20	6.61		7.5
12	T2L22A	MR-2778	Arghakhanchi	OPC	Chisang Khola	8-Jun-20	15-Jun-20	6-Jul-20	7.15		7.5
13	T1L7	MR-2779	Arghakhanchi	OPC	Chisang Khola	10-Jun-20	17-Jun-20	8-Jul-20	6.20		7.5
14	R-70	MR-2780	Arghakhanchi	OPC	Chisang Khola	10-Jun-20	17-Jun-20	8-Jul-20	7.01		7.5
15	T2L24C	MR-2781	Arghakhanchi	OPC	Chisang Khola	13-Jun-20	20-Jun-20	11-Jul-20	6.61		7.5
16	R-107	MR-2782	Arghakhanchi	OPC	Chisang Khola	13-Jun-20	20-Jun-20	11-Jul-20	5.80		7.5
17	T1L7	MR-2783	Arghakhanchi	OPC	Chisang Khola	15-Jun-20	22-Jun-20	13-Jul-20	6.74		7.5
18	R-70	MR-2784	Arghakhanchi	OPC	Chisang Khola	18-Jun-20	25-Jun-20	16-Jul-20	6.07		7.5
19	T1L7	MR-2785	Arghakhanchi	OPC	Chisang Khola	20-Jun-20	27-Jun-20	18-Jul-20	7.01		7.5
20	T3L26E	MR-2786	Arghakhanchi	OPC	Chisang Khola	20-Jun-20	27-Jun-20	18-Jul-20	6.07		7.5
21	T2L22A	MR-2787	Arghakhanchi	OPC	Chisang Khola	22-Jun-20	29-Jun-20	20-Jul-20	6.47	✓	7.5

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



REGIONAL URBAN DEVELOPMENT PROJECT

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

Page No 1 of 1

S.N.	Location	Lab Ref.no.	Type of Cement	Brand of Cement	Source of Sand+Agg.	Date of Casting	Date of Testing		Strength, N/mm ²		Concrete Grade
							7 Days	28 Days	7 Days	28 Days	
							Month Year		June 2020		
1	T3L10F	RUDP-3511	Ambe Hi-tech	OPC	Chisang Khola	14-May-20	21-May-20	11-Jun-20	22.59		M20
2	R-7	RUDP-3512	Ambe Hi-tech	OPC	Chisang Khola	14-May-20	21-May-20	11-Jun-20	21.96		M20
3	R-4	RUDP-3513	Ambe Hi-tech	OPC	Chisang Khola	15-Mar-20	22-Mar-20	12-Apr-20	17.97		M15
4	R-4	RUDP-3514	Ambe Hi-tech	OPC	Chisang Khola	15-Mar-20	22-Mar-20	12-Apr-20	22.96		M20
5	T3L22	RUDP-3515	Ambe Hi-tech	OPC	Chisang Khola	17-May-20	24-May-20	14-Jun-20	23.50		M20
6	Koshi Yard	RUDP-3516	Ambe Hi-tech	OPC	Chisang Khola	17-May-20	24-May-20	14-Jun-20	22.18		M20
7	T3L10F	RUDP-3517	Ambe Hi-tech	OPC	Chisang Khola	17-May-20	24-May-20	14-Jun-20	21.71		M20
8	R-7	RUDP-3518	Ambe Hi-tech	OPC	Chisang Khola	17-May-20	24-May-20	14-Jun-20	22.18		M20
9	R-4	RUDP-3519	Ambe Hi-tech	OPC	Chisang Khola	18-May-20	25-May-20	15-Jun-20	22.11		M20
10	R-3	RUDP-3520	Ambe Hi-tech	OPC	Chisang Khola	18-May-20	25-May-20	15-Jun-20	23.36		M20
11	R-6	RUDP-3521	Ambe Hi-tech	OPC	Chisang Khola	19-May-20	26-May-20	16-Jun-20	22.26		M20
12	Koshi Yard	RUDP-3522	Ambe Hi-tech	OPC	Chisang Khola	19-May-20	26-May-20	16-Jun-20	23.40		M20
13	R-4	RUDP-3523	Ambe Hi-tech	OPC	Chisang Khola	21-May-20	28-May-20	18-Jun-20	22.03		M20
14	T3L22	RUDP-3524	Ambe Hi-tech	OPC	Chisang Khola	21-May-20	28-May-20	18-Jun-20	23.21		M20
15	Koshi Yard	RUDP-3525	Ambe Hi-tech	OPC	Chisang Khola	21-May-20	28-May-20	18-Jun-20	21.71		M20
16	R-3	RUDP-3526	Ambe Hi-tech	OPC	Chisang Khola	22-May-20	29-May-20	19-Jun-20	23.06		M20
17	R-6(T3L10)	RUDP-3527	Ambe Hi-tech	OPC	Chisang Khola	22-May-20	29-May-20	19-Jun-20	22.08		M20
18	T3L22	RUDP-3528	Ambe Hi-tech	OPC	Chisang Khola	22-May-20	29-May-20	19-Jun-20	22.73		M20
19	R-4	RUDP-3529	Ambe Hi-tech	OPC	Chisang Khola	22-May-20	29-May-20	19-Jun-20	22.81		M20
20	Koshi Yard	RUDP-3530	Ambe Hi-tech	OPC	Chisang Khola	23-May-20	30-May-20	20-Jun-20	23.18		M20
21	R-3	RUDP-3531	Ambe Hi-tech	OPC	Chisang Khola	23-May-20	30-May-20	20-Jun-20	21.93		M20
22	R-4	RUDP-3532	Ambe Hi-tech	OPC	Chisang Khola	23-May-20	30-May-20	20-Jun-20	22.96		M20
23	R-6(T3L10)	RUDP-3533	Ambe Hi-tech	OPC	Chisang Khola	18-Mar-20	25-Mar-20	15-Apr-20	23.43		M20
24	T3L22	RUDP-3534	Ambe Hi-tech	OPC	Chisang Khola	23-May-20	30-May-20	20-Jun-20	21.96		M20
25	R-3	RUDP-3535	Ambe Hi-tech	OPC	Chisang Khola	24-May-20	31-May-20	21-Jun-20	22.69		M20
26	R-4	RUDP-3536	Ambe Hi-tech	OPC	Chisang Khola	24-May-20	31-May-20	21-Jun-20	17.67		M15
27	R6(T3L10)	RUDP-3537	Ambe Hi-tech	OPC	Chisang Khola	24-May-20	31-May-20	21-Jun-20	22.21		M20
28	T3L22	RUDP-3538	Ambe Hi-tech	OPC	Chisang Khola	24-May-20	31-May-20	21-Jun-20	23.06		M20
29	Koshi Yard	RUDP-3539	Ambe Hi-tech	OPC	Chisang Khola	24-May-20	31-May-20	21-Jun-20	22.03		M20
30	R-4	RUDP-3540	Ambe Hi-tech	OPC	Chisang Khola	24-May-20	31-May-20	21-Jun-20	22.96		M20
31	R-4	RUDP-3541	Argbhakhanchi	OPC	Chisang Khola	26-May-20	2-Jun-20	23-Jun-20	16.56	22.03	M20
32	T2L22A	RUDP-3542	Argbhakhanchi	OPC	Chisang Khola	26-May-20	2-Jun-20	23-Jun-20	16.17	22.66	M20
33	T2L90	RUDP-3543	Argbhakhanchi	OPC	Chisang Khola	28-May-20	4-Jun-20	25-Jun-20	15.95	22	M20
34	R-6(T3L10)	RUDP-3544	Argbhakhanchi	OPC	Chisang Khola	29-May-20	5-Jun-20	26-Jun-20	18.65	22.66	M20
35	T2L24C	RUDP-3545	Argbhakhanchi	OPC	Chisang Khola	29-May-20	5-Jun-20	26-Jun-20	16.17	21.96	M20
36	R-107	RUDP-3546	Argbhakhanchi	OPC	Chisang Khola	1-Jun-20	8-Jun-20	29-Jun-20	15.87	22.93	M20
37	T2L22A	RUDP-3547	Argbhakhanchi	OPC	Chisang Khola	2-Jun-20	9-Jun-20	30-Jun-20	16.84	22.99	M20
38	Koshi Yard	RUDP-3548	Argbhakhanchi	OPC	Chisang Khola	4-Jun-20	11-Jun-20	2-Jul-20	22.59		M30
39	Koshi Yard	RUDP-3549	Argbhakhanchi	OPC	Chisang Khola	5-Jun-20	12-Jun-20	3-Jul-20	16.17		M20
40	T2L24C	RUDP-3550	Argbhakhanchi	OPC	Chisang Khola	5-Jun-20	12-Jun-20	3-Jul-20	17.52		M20
41	T2L23C	RUDP-3551	Argbhakhanchi	OPC	Chisang Khola	6-Jun-20	13-Jun-20	4-Jul-20	16.39		M20
42	T1L7	RUDP-3552	Argbhakhanchi	OPC	Chisang Khola	6-Jun-20	13-Jun-20	4-Jul-20	17.29		M20
43	Madhuamara Yard	RUDP-3553	Argbhakhanchi	OPC	Chisang Khola	6-Jun-20	13-Jun-20	4-Jul-20	19.69		M25
44	R-70	RUDP-3554	Argbhakhanchi	OPC	Chisang Khola	6-Jun-20	13-Jun-20	4-Jul-20	16.39		M20
45	Koshi Yard	RUDP-3555	Argbhakhanchi	OPC	Chisang Khola	9-Jun-20	16-Jun-20	7-Jul-20	23.18		M30
46	T3L26E	RUDP-3556	Argbhakhanchi	OPC	Chisang Khola	12-Jun-20	19-Jun-20	10-Jul-20	16.77		M20
47	T2L24C	RUDP-3557	Argbhakhanchi	OPC	Chisang Khola	12-Jun-20	19-Jun-20	10-Jul-20	17.37		M20

Contractor

Consultant

ZHONGHENG CONSTRUCTION GROUP INTERNATIONAL ENGINEERING CO. LTD

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

Checked By
Engineer
Dhirendra Yadav

Submitted By
Contract Manager
Rabindra K.Thakur

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

Approved By
Team Leader
Giresh Chand



REGIONAL URBAN DEVELOPMENT PROJECT


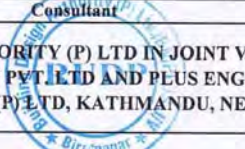
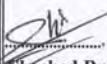

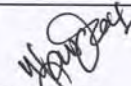

Biratnagar Metropolitan City

Contract No:- RUDP/ICB/BRT-02




Summary Sheet of Concrete Cube Test Report

Page No 1 of 2

S.N.	Location	Lab Ref.no.	Type of Cement	Brand of Cement	Source of Sand+Agg.	Date of Casting	Date of Testing		Strength, N/mm2		Concrete Grade
							7 Days	28 Days	7 Days	28 Days	
							Type of Material		Conc. Cube		
48	T2L22A	RUDP-3558	Ambe Hi-tech	OPC	Chisang Khola	12-Jun-20	19-Jun-20	10-Jul-20	16.69		M20
49	T2L90	RUDP-3559	Ambe Hi-tech	OPC	Chisang Khola	13-Jun-20	20-Jun-20	11-Jul-20	17.67		M20
50	R-6,(T3L10)	RUDP-3560	Ambe Hi-tech	OPC	Chisang Khola	15-Jun-20	22-Jun-20	13-Jul-20	16.99		M20
51	T2L24C	RUDP-3561	Ambe Hi-tech	OPC	Chisang Khola	15-Jun-20	22-Jun-20	13-Jul-20	15.95		M20
52	R-18	RUDP-3562	Ambe Hi-tech	OPC	Chisang Khola	15-Jun-20	22-Jun-20	13-Jul-20	16.77		M20
53	T3L23C	RUDP-3563	Ambe Hi-tech	OPC	Chisang Khola	17-Jun-20	24-Jun-20	15-Jul-20	16.17		M20
54	R-107	RUDP-3564	Ambe Hi-tech	OPC	Chisang Khola	17-Jun-20	24-Jun-20	15-Jul-20	18.50		M20
55	T1L7	RUDP-3565	Ambe Hi-tech	OPC	Chisang Khola	19-Jun-20	26-Jun-20	17-Jul-20	15.84		M20
56	Koshi yard	RUDP-3566	Ambe Hi-tech	OPC	Chisang Khola	19-Jun-20	26-Jun-20	17-Jul-20	17.56		M20
57	T3L26E	RUDP-3567	Ambe Hi-tech	OPC	Chisang Khola	19-Jun-20	26-Jun-20	17-Jul-20	16.59		M25
58	R-70	RUDP-3568	Ambe Hi-tech	OPC	Chisang Khola	19-Jun-20	26-Jun-20	17-Jul-20	18.34		M20
59	R-18	RUDP-3569	Ambe Hi-tech	OPC	Chisang Khola	21-Jun-20	28-Jun-20	19-Jul-20	15.80		M20
60	R-4	RUDP-3570	Ambe Hi-tech	OPC	Chisang Khola	22-Jun-20	29-Jun-20	20-Jul-20	17.22		M20

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



REGIONAL URBAN DEVELOPMENT PROJECT														
Biratnagar Metropolitan City														
Contract No:- RUDP/ICB/BRT-02														
SUMMARY SHEET OF CEMENT TEST														
				Month		Year				June		2020		
S.N.	Lab Ref.no	Type of cement	Test Date	Normal Cons.(%)	Initial(Min)	Final (min)	Soundnes s(mm)	Fineness (%)	Date of Casting	Date of Testing		Strength N/mm ²	Remarks	
					Consistency & Setting Time					3 Days	28 Days	3 days	28-days	
1	68	Arghakhanchi OPC	5-Jun-20	30.85	98.00	201.00	2.81	1.89	7-May-20	10-May-20	4-Jun-20	25.72	45.72	
2	69	Arghakhanchi OPC							5-Jun-20	8-Jun-20	3-Jul-20			
			Sp.Limit:											
						Min-30	<10	<10				>23	>43	
Comments:														
 <p>ZHONGHENG CONSTRUCTION GROUP INTERNATIONAL ENGINEERING CO., LTD Checked By Engineer Dhirendra yadav</p>							 <p>BUILDING DESIGN AUTHORITY (P) LTD IN JOINT VENTURE WITH B.N. CONSULTANCY PVT. LTD. Verified By Expert Qty Surveyor/CSE H.K. Mandal/Rajan Shrestha</p>							
 <p>BUILDING DESIGN AUTHORITY (P) LTD IN JOINT VENTURE WITH B.N. CONSULTANCY PVT. LTD. Approved By Team Leader Gireesh Chaud</p>														



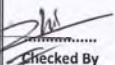

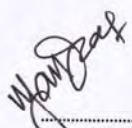



REGIONAL URBAN DEVELOPMENT PROJECT

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	June
							Year	2020
							Type of Material	Brick
1	1210	1-Jun-20	T2L22A	Dadarbairya	AANAND	14.85	13.31	
2	1211	3-Jun-20	T2L90	Dadarbairya	AANAND	13.53	14.00	
3	1212	5-Jun-20	R-6(T3L10)	Dadarbairya	ACC	13.02	14.78	
4	1213	7-Jun-20	T2L24C	Dadarbairya	ACC	15.45	13.28	
5	1214	9-Jun-20	R-18	Dadarbairya	ACC	15.29	14.50	
6	1215	11-Jun-20	T3L23C	Dadarbairya	ACC	13.17	12.86	
7	1216	13-Jun-20	R-107	Dadarbairya	ACC	14.89	15.53	
8	1217	15-Jun-20	T1L7	Dadarbairya	ACC	13.40	12.90	
9	1218	17-Jun-20	T3L26E	Dadarbairya	ACC	14.92	15.00	
10	1219	19-Jun-20	T2L24C	Dadarbairya	ACC	15.26	13.43	
11	1220	21-Jun-20	R-70	Dadarbairya	ACC	14.68	13.05	
12	1221	22-Jun-20	T1L7	Dadarbairya	ACC	12.84	15.85	
Sp. Limit						<20%	>8 to 10 N/mm ²	

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





REGIONAL URBAN DEVELOPMENT PROJECT

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

Summary Sheet of Monthly Test Report of Concrete Sand

S.n.	Lab.Ref no.	Date of Testing	Location of Sample	Source of Sample	Sieve Size in mm / % Passing by weight										Clay Content%	Remarks
					10	5.0	2.36	1.18	0.600	0.300	0.150					
1	RUDP-CS-661	2-Jun-20	T2L22A	Chisang Khola	100.00	94.99	70.67	47.93	28.14	9.78	5.15	0.97				
2	RUDP-CS-662	4-Jun-20	R-6(T3L10)	Chisang Khola	100.00	95.32	72.75	51.94	31.36	9.84	4.87	1.17				
3	RUDP-CS-663	5-Jun-20	T2L90	Chisang Khola	100.00	94.62	71.77	49.82	29.44	8.38	4.88	0.94				
4	RUDP-CS-664	7-Jun-20	T2L24C	Chisang Khola	100.00	95.32	70.56	48.65	29.16	9.45	4.95	0.85				
5	RUDP-CS-665	10-Jun-20	Madhumara Yard	Chisang Khola	100.00	95.25	68.80	46.93	27.43	8.96	4.26	1.06				
6	RUDP-CS-666	12-Jun-20	R-18	Chisang Khola	100.00	94.29	70.58	49.06	29.51	11.42	6.59	1.25				
7	RUDP-CS-667	14-Jun-20	R-107	Chisang Khola	100.00	95.05	70.62	48.69	28.04	10.32	5.59	0.87				
8	RUDP-CS-668	14-Jun-20	T3L23C	Chisang Khola	100.00	94.75	73.09	49.45	28.58	9.98	5.47	1.46				
9	RUDP-CS-669	19-Jun-20	R-4	Chisang Khola	100.00	94.11	70.75	50.17	30.81	8.50	4.42	1.32				
10	RUDP-CS-670	21-Jun-20	Koshi Yard	Chisang Khola	100.00	95.61	71.14	49.92	30.02	9.33	4.98	0.91				
11	RUDP-CS-671	23-Jun-20	R-70	Chisang Khola	100.00	96.04	71.02	49.72	28.02	8.49	4.24	1.16				
12	RUDP-CS-672	26-Jun-20	T3L26E	Chisang Khola	100.00	96.68	70.64	45.92	25.47	7.55	3.85	1.01				
					Spec. Limit :	100	89-100	60-100	30-100	15-100	5-70	0-15	<3%			

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



REGIONAL URBAN DEVELOPMENT PROJECT

Biratnagar Metropolitan City

Contract No:- RUDP/ICB/BRT-02

Summary Sheet of Monthly Test Report of 20mm Agg.

													Month Year		June 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 EI %	A.I.V.%	Remarks															
					37.5	20	14	10	5																				
1	RUDP-CA-578	2-Jun-20	T2L22A	Chisang Khola	100.00	90.75	51.42	16.50	3.15	23.10	22.28/22.00	21.71																	
2	RUDP-CA-579	2-Jun-20	T2L90	Chisang Khola	100.00	89.94	51.82	17.97	2.17	25.10	23.19/22.30	23.18																	
3	RUDP-CA-580	4-Jun-20	R-6	Chisang Khola	100.00	89.35	50.85	16.68	2.40	26.40	21.56/23.43	23.56																	
4	RUDP-CA-581	5-Jun-20	T2L24C	Chisang Khola	100.00	91.67	53.34	20.26	2.82	23.70	22.50/23.95	23.38																	
5	RUDP-CA-582	5-Jun-20	R-18	Chisang Khola	100.00	89.08	49.42	15.22	2.62	21.56	21.63/22.18	23.62																	
6	RUDP-CA-583	11-Jun-20	T3L23C	Chisang Khola	100.00	90.53	50.73	17.36	3.58	25.10	23.21/23.07	22.23																	
7	RUDP-CA-584	13-Jun-20	R-107	Chisang Khola	100.00	89.82	51.08	20.06	3.39	20.30	23.30/23.20	22.93																	
8	RUDP-CA-585	14-Jun-20	T1L7	Chisang Khola	100.00	90.84	51.55	18.69	3.12	25.26	23.96/23.27	23.34																	
9	RUDP-CA-586	14-Jun-20	R-70	Chisang Khola	100.00	88.51	50.85	19.83	3.34	23.36	22.72/23.13	22.84																	
10	RUDP-CA-587	19-Jun-20	Madhumara Yard	Chisang Khola	100.00	89.82	49.22	16.66	2.98	21.10	21.97/24.19	24.27																	
11	RUDP-CA-588	21-Jun-20	T3L26E	Chisang Khola	100.00	89.17	50.08	19.15	2.95	25.04	23.84/23.55	22.03																	
12	RUDP-CA-589	22-Jun-20	R-4	Chisang Khola	100.00	90.63	56.25	20.52	3.02	19.76	22.54/23.32	18.98																	
13	RUDP-CA-590	25-Jun-20	Koshi Yard	Chisang Khola	100.00	92.56	52.16	19.86	3.11	22.42	22.62/22.40	20.17																	
					Spec. Limit : 100									0-5	0-25	0-70	85-100	< 25	< 35	< 25	< 25								
					Submitted By Contract Manager Rabindra K. Thakur										Checked By Engineer Dhirendra Yadav					Verified By Expert Qty Surveyor/CSE H.K. Mandai/Rajjan Shrestha					Approved By Team Leader Gireesh Chand				
					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					Consultant														



ANNEX-4: SOCIAL & ENVIRONMENT SAFEGUARD

Monitoring Formats – June 2020



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

LABOUR CLASS	LABOUR		COMPOSITION		ETHNIC COMPOSITION				
	SKILLED	UNSKILLED	MALE	FEMALE	DALIT	MUSLIM	MADHESI	BRAHMIN/CHHETRI	
LOCAL	13	24	34	3	16	0	8	0	
NON LOCAL	3	9	12	0	1	0	5	0	
INDIAN	0	0	0	0	0	0	0	0	
TOTAL	16	33	46	3	17	0	13	0	



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

Month/year: June, 2020

S.NO	LOCATION	TYPES OF WORK	TYPES OF WORKERS			LABOUR		COMPOSITION		ETHNIC COMPOSITION						
			LOCAL	NON LOCAL	INDIAN	TOTAL	SKILLED	UNSKILLED	MALE	FEMALE	JANIATI	DALIT	MUSLIM	MADHESI	BRAHMIN/CHETRI	
1	R83	Drain	2	2	3	6	2	2	3	1	1	2	1	1		
2	TELJEE	Drain	2	3	4	7	2	2	2	1	2	2	1	1		
3	TELJZA	Drain	1	2	2	4	1	1	1	1	1	1	1	2		
4	R39	Sub-Base	1	3	4	4	1	3	4	2	2			2		
5	TJ125A	Base	1	2	3	3	1	2	3		3					
6	Madhumara yard	Ring production	1	1	1	3	1	2	3	1	1	1	1	1		
7	Koshi Yard	Slab Production	2	1	3	5	2	1	3	2	1	1	1	2		
8	R23	prime	2	2	4	5	2	2	4	1	3	1	3	1		
9	R3 Trunk Line	Asphalt	1	3	4	4	1	3	4	2	2			2		
10	R39	MH-Rise	1	2	3	3	1	2	3	3						
11	R17	House connection	1	3	4	4	1	3	4	1	3	1	3			



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REGIONAL URBAN DEVELOPMENT PROJECT (RUDP)

Social Safeguard Monitoring

Status of Key Social Issues Compliance

Subproject Road:-RUDP/ICB/BRT/02

Month/Year:- June-2020


Name of Contractor:- ZHONGHENG CONSTRUCTION GROUP

INTERNATIONAL ENGINEERING CO. LTD, Beijing China

Contract Package:-RUDP/ICB/02

S.N.	Key Social Issues	Full Compliance Status	Partial Compliance Status	None Compliance Status	Implementing Agency	Note of Agency	Deadline
1	Availability of Drinking Water Services	✓					
2	Availability of Toilet Facility in campsite	✓					
3	Legal Source of fuel wood use			✓			
4	Legal document of 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 works		✓				
9	Compensation of temporarily occupied land	✓					
10	Compensation of temporarily occupied buildings	✓					
11	Legal document of temporarily occupied assets	✓					
12	Non use of child Labour in construction activities	✓					

Prepared by :- 


Verified by :- 

Monitored by :-



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

Name of Sub Project: RUDP/ Biratnagar

Contract Package: RUDP/ICB/BRT/02

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

Month: June 2020

Checklist

SN	Activity	Description/Present Status (Compliance/Partially Compliance/Non Compliance)	Remarks/ Corrective actions for Non-Compliance
1	Training		
1.1	Health, Safety and EMP trainings and awareness	Yes	
1.2	Others awareness and skill trainings	Yes (For Covid 19)	
2	Occupational health and safety		
2.1	Insurance for workers	Yes	
2.2	Personal Protective Equipment (PPE) provided to labors and is using (helmet, facemasks, muffles, gloves, boots, jacket, goggles etc.)	Daily Provided	
2.3	Public notification Safety and warning signs and informative signboards in working sites for work safety	Yes Provided	
2.4	Use of barricades, caution tape and flag	Daily Used	
3	Compsite management		
3.1	Location	Koshi, Pichara, Shanti Chowk, Rani	
3.2	First aid facilities available at camp and worksites	Yes	
3.3	Drinking water supply and sanitation facilities/ pit latrines	Tap water/ Hand Pump	
3.4	Waste Disposal and Management facilities	Yes	
3.5	Type of fuel used for cooking	L.P.G	
4	Spoil and Construction material Management		
4.1	Cut and fill balance maintained or not, Reuse of spoil materials	Cut & Fill balance maintained	
4.2	Use of safe spoil disposal locations	Not Applicable	
4.3	Disturbance to Pedestrian and traffic movement	No any disturbance to pedestrians & traffic	



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



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ANNEX-5: S-Curve

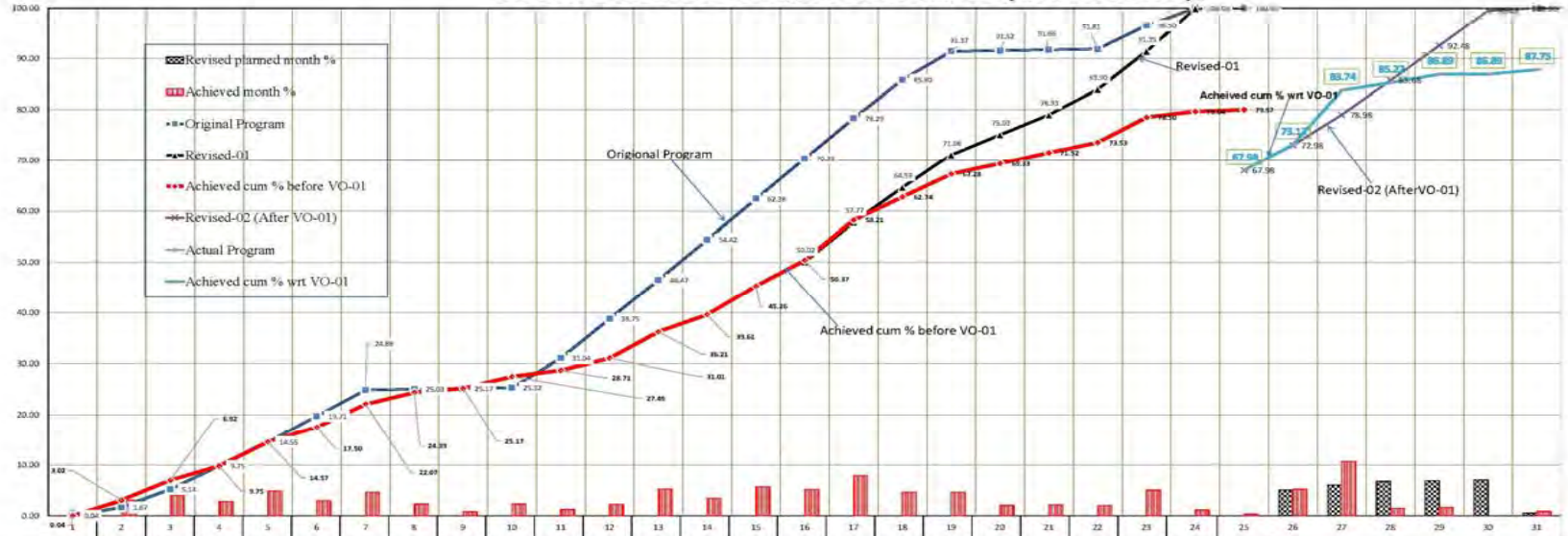
ATTACHED – June 2020

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



Revised -02 (After VO-01)

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



Year/Month	2017												2018												2019					2020						
	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May					
Original Planned Month %	0.04	1.63	3.40	4.60	4.80	5.17	5.17	0.15	0.15	5.71	7.72	7.72	7.95	7.96	7.96	7.96	7.96	5.57	0.15	0.15	4.60	3.51	0.00													
Original Planned Cum %	0.04	1.67	3.14	9.74	14.54	19.71	24.88	25.03	25.17	25.32	31.04	38.76	46.47	54.42	62.38	70.33	78.29	85.80	91.37	91.52	91.66	91.81	96.50	100.00												
Achieved month %	0.04	2.98	3.90	2.83	4.82	2.93	4.57	2.32	6.78	2.32	1.22	2.30	5.20	3.40	5.65	5.11	7.84	4.53	4.54	2.05	2.19	2.01	4.97	1.14	0.33	5.14	16.62	1.45	1.47	0.00	0.54					
Achieved Progress Cum %	0.04	3.62	6.92	9.75	14.57	17.50	22.07	24.39	25.17	27.49	28.71	31.01	36.21	39.61	45.26	50.37	58.21	62.74	67.28	69.33	71.52	73.53	78.50	79.64	79.97	78.12	83.74	85.22	86.89	86.89	87.74					
Revised Planned Month %																																				
Revised Planned Cum %																																				
Revised Planned Month % after VO-1																																				
Revised Planned Cum % After VO-01																																				
Revised planned month Amount in 100000																																				
Achieved Month Amount in 100000																																				
Revised planned Cum Amount in 100000																																				
Achieved Cum Amount in 100000																																				



Annex-6: Master Plan of RUDP Project



