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



May 2020 Biratnagar Metropolitan City (BMC), Nepal

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EXECUTIVE SUMMARY

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

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

1. PROJECT DESCRIPTION

1.1. INTRODUCTION/BACKGROUND

GoN has negotiated loan with Asian Development Bank for the Regional Urban Development Project (RUDP) in Nepal. The RUDP, in the line with ADB's water and urban operation plans, will construct and upgrade urban infrastructure in eight towns in the Terai Region of Nepal, improve operational effectiveness of these eight municipalities. The project will also build institutional capacity of DUDBC for urban planning, project planning and project preparation in order to proactively shape urbanization in Nepal and implement the National Urban development strategy. Biratnagar is one of the eight municipal towns included in the RUDP. The subcomponent of the RUDP covers the construction and improvement of sewerage, drainage and roads and design of Integrated Solid Waste Management System for Biratnagar Municipality. Building Design Authority (P) Ltd (Nepal),B.N. Consultancy Pvt. Ltd and PLUS Engineers & Architects (P) Ltd Kathmandu and have entered for a Contract of Consulting Services with Regional Urban Development Project(RUDP),Project Implementation Unit (PIU), Biratnagar Metropolitan City on 28thOctober 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)							
	Government of Nepal,							
Executing Agency	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							
The Consultant:								
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							
The Contractor:								
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)	31st July 2020							
Contract Amount including PS and VAT	NRs. 2,611,092,249.63							



	General Features				
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)	84.51%				
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.				
	With respect to Revised Work Program-02 (after VO-01):				
Physical Progress up to date	Planned: 100.00%, Actual: 87.75%; Lead (+) or Lag (-) by (-) 12.25% Lag.				
Thysical Progress up to date	"Work progress is lagging due to delay in approval of Variation Order – 2" and Nationwide lockdown due to pandemic "COVID - 19".				
Financial Progress up to date (on the	In Percentage: 82.93%, In Figure: NRs. 2,289,597,935.67 (including VAT and PS) up to IPC –16 wrt to VO-1.				
basis of IPC forwarded for disbursement)	In Words: NRs. Two Billion Two Hundred Eighty Nine Millions Five Hundred Ninety Seven Thousand Nine Hundred Thirty Five and Sixty Seven Paisa Only.				



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%	
С	Sewer Inlet	No.	1,010.00	548.00	462.00	54.25%	
d	House Connection	No.	3,784.00	1,885.00	1,899.00	49.82%	
		1					
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	62,096.09	4,621.91	93.07%	
b	Sub base	m	66,718.00	61,265.09	5,452.91	91.83%	
c	Base	m	66,718.00	58,242.29	8,475.71	87.30%	
d	Prime	m	66,718.00	56,384.97	10,333.03	84.51%	
e	Asphalt m		66,718.00	56,384.97	10,333.03	84.51%	
		1					
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

		Quantity as per VO-01		Up to Pr	e Month	This	month	Total	to date	Progress
SN	Description	Length (m)	Manhole (Nos.)	Length (m)	Manhole (Nos.)	Length (m)	Manhole (Nos.)	Length (m)	Manhole (Nos.)	%
Hun	ne 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	
Sub	total in (m)	1,967.50	35.00	1,967.50	35.00			1,967.50	35.00	
HDI	PE 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	
	total in (m)	16,592.30	571.00	16,492.30	569.00			16,492.30	569.00	00.460/
Tota	al	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		548.00	54.26
2	House connection	3,784.00	1,885.00	25.00	1,910.00	50.48



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.

	Name of Drain				Length of Covered			
S			Revised	Prog	ress		Drain in m	
N		- 8	after VO-1	Previous	This Month	Cumulative	Type- RCC, Closed	Remarks
1	CN2-CN3 (Chyangh Baari Nala)	652.89	585.00	585.00		585.00	585.00	100% Completed
2	CN2- CN3(Chyangh Baari Nala)	132 Nos. of piles	138 Nos. of piles	138 Nos. of piles		138 Nos. of piles		100% Completed

3.1.3. ROADS AND LANES

Most of the roads/lanes in Biratnagar are in a poor state due to lack of periodic maintenance, and need improvement where as some of the roads are graveled and would benefit from upgrading. In the areas where drainage and sewerage works are proposed, there will be significant impact on the existing roads. The Project has considered on design based on reinstatement, rehabilitation and upgrading of existing roads length 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 61.265 Km. has been attempted for Sub Base. About 56.384 km. Asphalt work is completed. The summary of physical progress of flexible pavement, rigid pavement and footpaths are tabulated in Table 4, 4.1 & 4.2 below: -



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

							Work Co	mpleted			
SN	Road Number	Name of Road	Progress		Total	Sub-base	Base	Asphalt	RCC (Rigid pavement)	Paint	Remarks
			Previous	This Month		m	m	m	m	m	R
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	В3	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									



							Work Completed				
SN	Road Number	Name of Road	Progress		Total	Sub-base	Base	Asphalt	RCC (Rigid pavement)	Paint	Remarks
			Previous	This Month		m	m	m	m	m	R
		Keshalya	844.20		844.20	844.20	844.20	844.20			
14	R12	Kanchha Dai Marg	900.00		900.00	900.00	900.00	600.00			
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			
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			



				Work Completed							
SN	Road Number	Name of Road	Progress		Total	Sub-base	Base	Asphalt	RCC (Rigid pavement)	Paint	Remarks
			Previous	This Month		m	m	m	m	m	R
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	
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			



							Work Co	mpleted			
SN	Road Number	Name of Road	Prog	ress	Total	Sub-base	Base	Asphalt	RCC (Rigid pavement)	Paint	Remarks
			Previous	This Month		m	m	m	m	m	R
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)		54.70		54.70	54.70	54.70	54.70			
48	R3	Dharamban Marg	2,254.10		2,254.10	2,254.10	2,254.10	2,254.10		2,080.30	
49	R3 -(T3 Famil DUDBC)	ly planning to	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			



							Work Co	mpleted			
SN	Road Number	Name of Road	Prog	ress	Total	Sub-base	Base	Asphalt	RCC (Rigid pavement)	Paint	Remarks
			Previous	This Month		m	m	m	m	m	R
52	R85	Machha Line	153.80		153.80	153.80	153.80	153.80			
53	R87	Mahabir Chowk	234.20		234.20	234.20	234.20	234.20			
54	R86	Petrol pump side -R12	191.50		191.50	191.50	191.50	191.50			
55	R11	R18/R86	204.10		204.10	204.10	204.10	204.10			
56	N3	Jatuwa	122.00		122.00	122.00	122.00	122.00			
57	N4(R16 to R21)	Jatuwa	168.80		168.80	168.80	168.80	168.80			
58	R10	R35 to R76	670.80		670.80	670.80	670.80	670.80		853.20	
59	T2L26F	APF	55.00		55.00	55.00		-			
60	T2L27		75.00		75.00	75.00	75.00	75.00			
61	R122		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										



							Work Co	mpleted			
SN	Road Number	Name of Road	Prog	ress	Total	Sub-base	Base	Asphalt	RCC (Rigid pavement)	Paint	Remarks
			Previous	This Month		m	m	m	m	m	R
			387.30		387.30	387.30	387.30	387.30			
65	N2		117.00		117.00	117.00	117.00	117.00			
66	T3L6	Moti marga	158.30		158.30	158.30	158.30	158.30			
67	T3L6	CDO Office front	49.40		49.40	49.40	49.40	49.40			
68	R45	Bata road	510.70		510.70	510.70	510.70	510.70			
69	T3L21		547.00		547.00	547.00	547.00	547.00		774.00	
70	N5	R16 to R18	67.20		67.20	67.20	67.20	67.20		122.00	
71	T3L39		340.00		340.00	340.00	340.00	340.00		491.00	
72	T3L39A		138.00		138.00	138.00	138.00	138.00		179.40	
73	T3L39B		60.00		60.00	60.00	60.00	60.00		117.60	
74	R68 - T2L24G		218.00		218.00	218.00	218.00	218.00			
75	N10		194.00		194.00	194.00	194.00	194.00			
76	T3L24C &D	Hanuman Das Road	180.00		180.00	180.00		-			
77	R6(N2 to R41)		1,832.80		1,832.80	1,832.80	1,832.80	1,832.80			



			Work Completed								
SN	Road Number	Name of Road	Prog	ress	Total	Sub-base	Base	Asphalt	RCC (Rigid pavement)	Paint	Remarks
			Previous	This Month		m	m	m	m	m	R
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	142.00		142.00	142.00	142.00	142.00			
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			



							Work Co	ompleted			
SN	Road Number	Name of Road	Prog	ress	Total	Sub-base	Base	Asphalt	RCC (Rigid pavement)	Paint	Remarks
			Previous	This Month		m	m	m	m	m	R
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			



							Work Co	mpleted			
SN	Road Number	Name of Road	Prog	ress	Total	Sub-base	Base	Asphalt	RCC (Rigid pavement)	Paint	Remarks
			Previous	This Month		m	m	m	m	m	Ŗ
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		-			
108	T3L13C		102.00		102.00	102.00	102.00	102.00			
109	R34		157.40		157.40	157.40	157.40	157.40			
110	T3L13E		64.00		64.00	64.00	64.00	64.00			
111	T3L13K		76.00		76.00	76.00	76.00	76.00			
112	R19		228.00		228.00	228.00	228.00	228.00			
113	R41		540.00		540.00	540.00	540.00	540.00			
114	R9B		83.85		83.85	83.85	83.85	83.85			
115	R67		119.40		119.40	119.40	119.40	119.40			
116	R74		95.00		95.00	95.00	95.00	95.00			
117	R9A		109.00		109.00	109.00	109.00	109.00			



							Work Co	mpleted			
SN	Road Number	Name of Road	Prog	ress	Total	Sub-base	Base	Asphalt	RCC (Rigid pavement)	Paint	Remarks
			Previous	This Month		m	m	m	m	m	Ř
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		1			
126	R105		174.00		174.00	174.00	174.00	174.00			
127	R15		194.00		194.00	194.00	194.00	194.00			
128	R181A		196.00		196.00	196.00	196.00	196.00			
129	N38		358.00		358.00	358.00	358.00	358.00			
130	T2L26E	Bhanu Tole	107.00		107.00	107.00	107.00	107.00			
131	T2L19G		63.00		63.00	63.00	63.00	-			



							Work Co	mpleted			
SN	Road Number	Name of Road	Prog	ress	Total	Sub-base	Base	Asphalt	RCC (Rigid pavement)	Paint	Remarks
			Previous	This Month		m	m	m	m	m	Ŗ
132	T3L19H		84.00		84.00	84.00	84.00	-			
133	T2L19V		90.00		90.00	90.00	90.00				
134	T2L19Y		110.00		110.00	110.00	110.00	-			
135	T2L19Z		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	-			
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				
141	T3 Line18A	Nearby Neuro parking	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	320.00	320.00					
145	R40		330.60		330.60	330.60	330.60	330.60			



							Work Co	mpleted			
SN	Road Number	Name of Road	Prog	ress	Total	Sub-base	Base	Asphalt	RCC (Rigid pavement)	Paint	Remarks
			Previous	This Month		m	m	m	m	m	Ŗ
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	T2Line24D		180.00		180.00	180.00					
154	R5			110.00	110.00	110.00					
155	T2Line11N		65.00		65.00	65.00	65.00				
156	R6	Siddhartha to R46	130.00		130.00	130.00	130.00				
157	R100		150.00		150.00	150.00					
158	T3 Trunk Line	Devkota to Family Planning	340.00	340.00	680.00	340.00	340.00				
159	T3Line25A			248.00	248.00						



							Work Co	mpleted			
SN	Road Number	Name of Road	Prog	ress	Total	Sub-base	Base	Asphalt	RCC (Rigid pavement)	Paint	Remarks
			Previous	This Month		m	m	m	m	m	R
160	T3 Line23C		90.00		90.00	90.00	90.00				
161	R10		180.00		180.00	180.00					
162	T2 Line18K		76.00		76.00						
163	R47	Matrika Marga	322.00		322.00	155.00	155.00	155.00			
164	T3 Line22 (Devkota chowk to NRB		190.00		190.00	190.00	190.00				
165	R26	east of R3	324.00		324.00	324.00	324.00	324.00			
166	R27	east of R3	186.00		186.00	186.00	186.00	186.00			
167	N33	Parichaya Marga	194.50		194.50	194.50	194.50	194.50			
168	T3Line10C	Green cross Line	100.00		100.00	100.00	100.00	100.00			
169	N23		75.00		75.00	75.00	75.00	75.00			
170	R10			181.00	181.00	181.00					
171	R15		340.00		340.00	340.00					



							Work Co	mpleted			
SN	Road Number	Name of Road	Prog	ress	Total	Sub-base	Base	Asphalt	RCC (Rigid pavement)	Paint	emarks
			Previous	This Month		m	m	m	m	m	R
172	R23			227.00	227.00	227.00					
	Total		60,830.09	1,266.00	62,096.09	61,265.09	58,242.29	56,384.97	210.00	18,395.30	



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

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



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



				Progress in	m		Footpath		
SN	Road Number	Туре*	Previous	This Month	Cumulative	Length (m)	Avg. Breadth (m)	Quantity (m ²⁾	Remarks
36	В3	Precast block	1,160.00		1,160.00	1,160.00	2.33	2,697.00	RHS
37	В3	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	59,695.63	2,400.46	62,096.09	93.07%
2	Sub Base	m	66,718.00	58,835.63	2,429.46	61,265.09	91.83%
3	Base	m	66,718.00	55,056.08	3,186.21	58,242.29	87.30%
4	Prime/Tack	m	66,718.00	52,151.65	4,233.32	56,384.97	84.51%
5	Asphalt	m	66,718.00	52,151.65	4,233.32	56,384.97	84.51%

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.

			I	ength in (n	1)	Work Completed		S
SN	Road Number	Name of Road	Prog	ress		Brick	RCC	ark
SIN	Roau Number	Name of Road	Previous (Revised)	This Month	Total	m	m	Remarks
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		
8	S13	Udaya Marga	79.05		79.05	79.05		
9	N33		60.00		60.00	60.00		



			I	Length in (n	1)	Work Cor	npleted	-
SN	Road Number	Name of Road	Prog			Brick	RCC	arks
SIN	Roau Number	Name of Road	Previous (Revised)	This Month	Total	m	m	Remarks
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		
32	T1L16B	Xenial Front	205.68		205.68	205.68		
33	T1L16A	Xenial South	160.74		160.74	160.74		



			I	Length in (m)			Work Completed	
SN	D J.Nl	Name of Deed	Prog		,	Brick	RCC	arks
SIN	Road Number	Name of Road	Previous (Revised)	This Month	Total	m	m	Remarks
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		
56	R6 (T3L11i)		265.00		265.00	265.00		
57	R9 (T3L11k)	Tathasthu Marga	180.00		180.00	180.00		



			I	∟ength in (n	1)	Work Completed		70
CN	D J. Nl	Name of Deed		Progress		Brick	RCC	arks
SN	Road Number	Name of Road	Previous (Revised)	This Month	Total	m	m	Remarks
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		
79	R105		86.00		86.00	86.00		One Side
80	R34	Prabhu Marg	158.35		158.35	158.35		



			L	Length in (m)			Work Completed	
SN	Road Number	Name of Road	Prog			Brick	RCC	arks
511	Roau Number	Name of Road	Previous (Revised)	This Month	Total	m	m	Remarks
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		
103	T3L11M		82.00		82.00	82.00		
104	R106		70.00		70.00	70.00		
105	R41		520.00		520.00	520.00		



			I	Length in (n	1)	Work Cor	Work Completed	
SN	Road Number	Name of Road	Prog			Brick	RCC	arks
511	Road Number	Name of Road	Previous (Revised)	This Month	Total	m	m	Remarks
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		
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		



			I	Length in (m	1)	Work Cor	npleted	
SN	Road Number	Name of Road	Prog		,	Brick	RCC	arks
SIN	Road Number	Name of Road	Previous (Revised)	This Month	Total	m	m	Remarks
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		-		1	-		
146	T1L7C		-		-	-		
147	T1L8C		-		1	-		
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		
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		



	D IN I		L	ength in (n	Work Co	mpleted	S	
SN		N CD 1	Prog	ress		Brick	RCC	ark
SIN	Road Number	Name of Road	Previous (Revised)	This Month	Total	m	m	Remarks
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 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	 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	 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 in habitants 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 date1st, 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.
- 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 about 100 m. in length is completed. The supply has been providing temporarily as per site condition and where required.

Table – 5: Status of Labor at Site

Lohous	Labour		Composition		Ethnic composition				
Labour class	Skilled	Unskilled	Male	Female	Janjati	Dalit	Muslim	Madhesi	Brahmin/ Chhetri
Local	12	17	29	0	5	12	0	15	0



Lohous	La	bour	Composition		Ethnic composition					
Labour class	Skilled	Unskilled	Male	Female	Janjati	Dalit	Muslim	Madhesi	Brahmin/ Chhetri	
Non local	18	37	55	0	10	16	0	26	0	
Indian	0	0	0	0	0	0	0	0	0	
TOTAL	30	54	84	0	15	28	0	41	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	2nd November 2017 to 31st March 2018	261,501,492.21	
3	IPC 03	1st July 2018	1st April 2018 to 30th June 2018	316,582,708.58	
4	IPC 04	1st October 2018	1st July 2018 to 31st September 2019	105,227,887.16	
5	IPC 05	2 nd December 2018	1st October 2018 to 30th November 2018	95,951,603.44	
6	IPC 06	31st January 2019	1st December 2018 to 31st January 2019	264,937,394.98	
7	IPC 07	12 th April 2019	1st February 2019 to 31st March 2019	308,805,662.97	
8	IPC 08	9 th May 2019	1st April 2019 to 30th April 2019	106,210,198.68	
9	IPC 09	10 th June 2019	1st May 2019 to 31st May 2019	90,419,375.33	
10	IPC 10	11th July 2019	1st June 2019 to 30th June 2019	67,863,056.59	
11	IPC 11	30 th September 2019	1st July 2019 to 30th September 2019	95,296,297.30	



12	IPC 12	3rd November 2019	1st October 2019 to 31st October 2019	53,113,369.86	
13	IPC 13	30th November 2019	4th June 2019 to 30th June 2019	125,965,923.87	
14	IPC 14	31st December 2019	1st December 2019 to 31st December 2019	63,509,092.84	
15	IPC 15	4thFebruary 2020	1st Jan 2020 to 31st Jan 2020	232,027,037.24	
16	IPC 16	1st March 2020	1st Feb, 2020 - 29th Feb, 2020	102,186,834.62	
	nmount excludi zation advance			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 as the work progress is negligible, as lockdown didn't withdraw yet & to become everything in normalize condition takes time.



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:

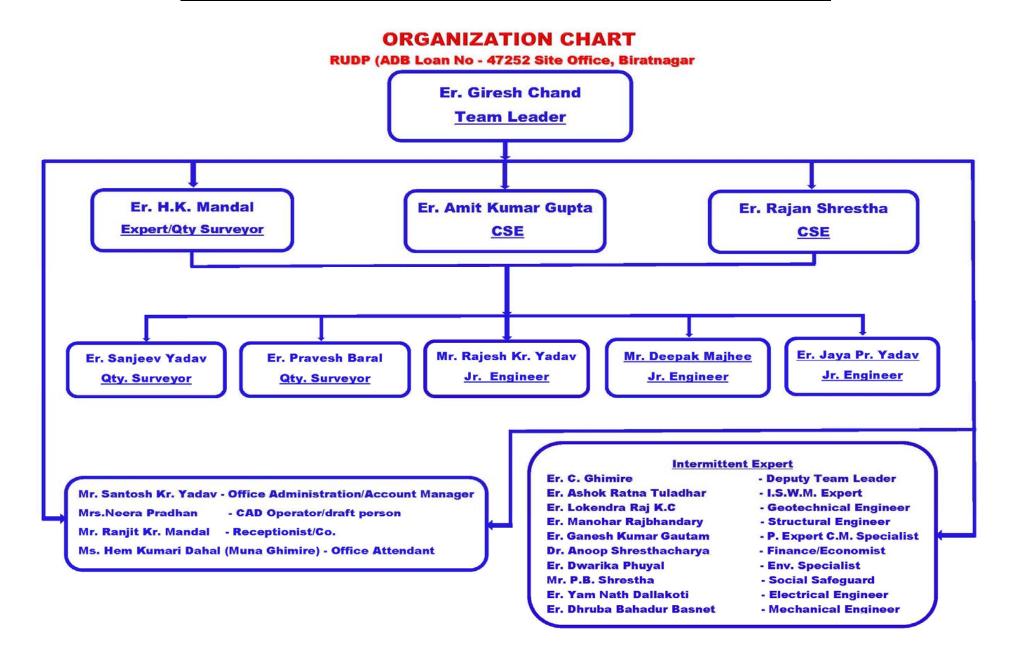
- Detailed Design and Procurement Assistance Phase for integrated solid waste management design (ISWM)
- Monthly progress report and quarterly progress report.
- Semi- annual Environmental monitoring report.
- Semi-annual Safeguard monitoring report.
- Annual progress report including annual Environmental / 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







4.4. CONSULTANT'S ACTIVITIES IN CONSTRUCTION PHASE

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

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

SN	Name	Designation	Joining date	Remarks
1	Mr. Giresh Chand	Team Leader	6 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	1st Nov 2017	
6	Mr. Amit Kumar Gupta	Construction Supervision Engineer	1st March 2018	
7	Mr. Rajan Shrestha	CSE/Quantity Surveyor	7 th Nov 2017	Working as CSE from 1st 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	1st March 2018	
15	Mr. Deepak Majhi	Junior Engineer-4	1st March 2018	
16	Mrs. Neera Pradhan	CAD operator/Draft Person	10 th Dec 2017	
17	Mr. Yubraj Poudel	Driver	10th 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		rement This Month	L	eading	L	agging	Remarks
With	Monthly	Accumulated	Monthly	Accumulated	Monthly	Accumulated	Monthly	Accumulated	Kemai Ks
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		eading	L	Remarks	
WIGHTH	Monthly	Accumulated	Monthly	Accumulated	Monthly	Accumulated	Monthly	Accumulated	Kemarks
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

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		 The Contractor has remobilized at site from 12th May 2020 (Partially due to lake of permit/Pass) 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	29 th May, 2020	 Greetings and warm welcome of new CAO, Mr. Indra Mani Pokharel at PIU and perform healthy discussion on work progress and current situation. About how to manage the site & resources in lockdown due to pandemic COVID-19. About to make available of sufficient pass/permit, etc. Conferred about the awareness and training on COVID-19, regarding maintain physical distancing, frequently hand washing, use of PPE (masks, gloves, etc.). 	



6. DETAILS OF PRE CAST ACTIVITIES

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

			Physical Pi	rogress till da	ite			
				Progress				
S.N.	Description	Unit	BoQ	Up to Previous month (RM.)	This Month (RM.)	Total to Date (RM.)	Remarks	
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,

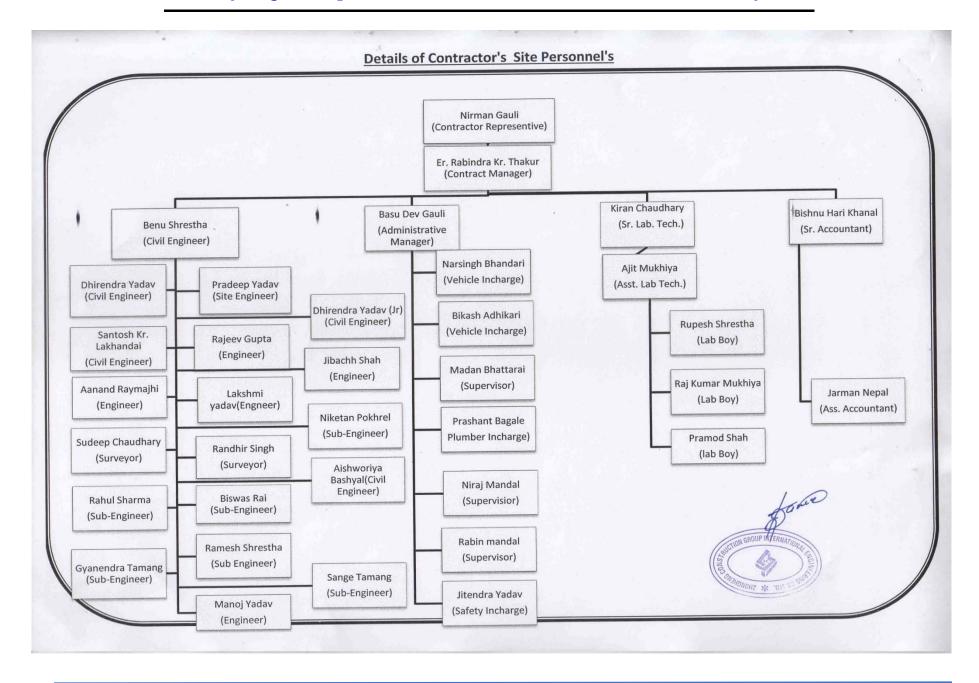
			Physical P	Progress till	date		
				Progress			
S.N.	Description	Diameter (mm)	BoQ (RM)	Up to Previous month (RM.)	This Month (RM.)	Total to Date (RM.)	Remarks
1	RCC Pipe	300	336.00	336.00	-	336.00	
2	RCC Pipe	450	681.00	681.00	ı	681.00	
3	RCC Pipe	500	842.00	842.00	1	842.00	
4	RCC Pipe	600	382.00	382.00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

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

			Physical Pro	gress till da	te		
				Progi	ress		
S.N.	Description	Diameter (mm)	BoQ (RM)	Up to Previous month (RM.)	This Month (RM.)	Total to Date (RM.)	Remarks
1	HDPE Pipe	110.00	1,987.20	4,487.20	ı	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.

		Phys	sical Progre	ess till date			
				Prog	ress		
S.N.	Description	Diameter (mm)	BoQ (RM)	Up to Previous month (RM)	This Month (Rm.)	Total to Date (RM.)	Remarks
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	





7. CONTRACTOR'S MANPOWER

Table 13: CONTRACTOR'S KEY STAFFS (from 24th March 2020 Manpower are idle except laborer as they are not willing to come for work due to pandemic CORONAVIRUS and as instructed by TL, DSC to stay at home and take care until further instruction from the GoN).

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		30	
14	Unskilled Labors		54	



8. CONTRACTOR'S EQUIPMENT

Table 14: CONTRACTOR'S EQUIPMENT (from 24th March 2020 equipment are idle)

S. No.	Equipment Type and Characteristics	Min Number required as per Contract	ZHONGHENG CONSTRUCTION Group	Remarks
1	Excavator (200 above)	5	1	Backhoe loader-5 nos.
2	Crane (10 ton capacity)	3	1	
3	Asphalt plant of adequate capacity	1	1	
4	Asphalt pavers	1	1	
5	Vibrating roller	2	4	Among 4nos.:- 2ton rollers – 2nos.
6	Pneumatic tyre roller 8 to 10 ton	2	1	
7	Smooth wheeled roller 8 to 10 ton	1	1	
8	Grader	1	2	
9	Track Dozer (120 to 180 HP)	1	-	
10	Bitumen distributor (4 to 6 Kilo Litres)	1	1	
11	Water browser (minimum 5000 Litres)	3	9	
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 = 15 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	6	
19	Mobile Generator 15-20 KVA	5	6	
20	Mixer Machine	3	5	
21	Concrete Batching Plant	1	-	
22	Concrete pump	1	-	
23	Drain cleaner/ Nala cleaner	2	-	
24	Broomer	-	1	
25	Motor Bike	-	5	
26	Plate Compactor	-	5	
27	Water Pump	-	14	

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, etc.

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



ANNEX-1: Photographs of May 2020





Sub Grade work at T2L24D



A meeting at PIU on 29th May 2020





Brooming work at T3 Trunk



Base work at T3 Trunk





Drain cleansing at Sri Hospital road – at Junction of T3Line9 & T3Line10



Surface Preparation for prime works at R6





DSC office, safety measures for COVID-19



DSC office, First AID box & safety tools

ANNEX-2: Minutes of Meeting May 2020

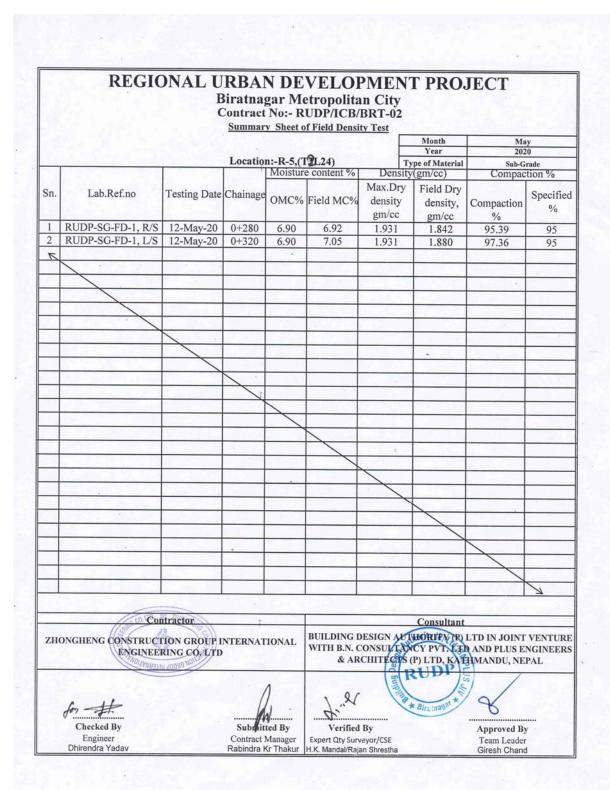




ANNEX-3: Laboratory Test Results of May 2020

REGIONAL URBAN DEVELOPMENT PROJECT Biratnagar Metropolitan City Contract No:- RUDP/ICB/BRT-02 Summary Sheet of Monthly Test Report Month: May \ 2020 Year Type of Sub grade Location:-R-5,(T2L24) Location/Chainage Date of Testing MDD OMC CBR% Remarks Source of Sample Lab.Ref no. 6.00 1.931 6.90 7.29 11-May-20 RUDP-SG-01 R-5,(0+300) Existing Road <18 Consultant Continueter BUILDING DESIGN APTHORITY (P) LTD IN JOINT VENTURE WITH BY. CONSULTANCY PVT. LTD AND PLUS ENGINEERS & ARCHITECTS (P) LTD, LETTHMANDU, NEPAL ZHONGHENG CONSTRUCTION GROUP INTERNATIONAL ENGINEERING CO. LTD COLUD. # 210 Approved By Checked By Submitted By Verified By Team Leader Contract Manager Expert Qty surveyor/CSE Engineer Dhirendra Yadav Rabindra Kr. Thakur H.k. Mandal/Rajan Shrestha Giresh Chand







	REGIONAL	URBAN DEN Biratnagar Met Contract No:- RU Summary Sheet of M	DP/ICB/BRT-02	PRO	JEC.	Γ		,
				4.2	Mor Ye	ar		daý 020
		Locati	on:-T3L25A	4.71	Type Mate	e of crial	Sub	grade
Lab.Ref no.	Location/Chainage	Source of Sample	Date of Testing	MDD	OMC	PI%	CBR%	Remarks
RUDP-SG-01	T3L25A,(0+150)	Existing Road	26-May-20	1.998	7.00	11.91	6.20	
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		Sp. Limit:-				<18	>3	
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Engineer		Contract Manager ·	Verified By Expert Qty Surveyor/CSE	* Biratnaya		Team	Leader	
Engineer		Contract Manager ·	Verified By Expert Qty Surveyor/CSE	* Biratnaya	Sull's land	Team	Leader	
Engineer		Contract Manager ·	Verified By Expert Qty Surveyor/CSE	* Biratnaya	SSI **	Team	Leader	
Engineer		Contract Manager ·	Verified By Expert Qty Surveyor/CSE	* Biratnaya	SSI **	Team	Leader	
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Engineer		Contract Manager ·	Verified By Expert Qty Surveyor/CSE	* Biratnaya	SSI **	Team	Leader	



	REGI	ONAL	Biratna	agar M	etropolita	an City		JECT	
			Contrac	t No:- F	RUDP/ICB	/BRT-02			
			Summa	ry Sheet	of Field Dens	ity Test			
							Month Year		ay
			Locati	ion:-T3L	25A	1	ype of Material		020 Grade
		78 5 1			e content %	Densit	y(gm/cc)		ction %
Sn.	Lab.Ref.no	Testing Date	Chanage	OMC%	Field MC%	Max.Dry density gm/cc		Compaction %	Specified %
1	RUDP-SG-FD-1, R/S	26-May-20	0:+010	6.00	5.24	1.990	1.916	96.28	95
2	RUDP-SG-FD-1, L/S	26-May-20	· 0+030	6.00	5.85	1.990	1.910	95.98	95
3	RUDP-SG-FD-1, L/S	26-May-20	0+150	6.00	6.16	1.990	1.927	96.84	95
4	RUDP-SG-FD-1, L/S	26-May-20	0+210	6.00	7.04	1.990	1.948	97.91	95
5	RUDP-SG-FD-1, L/S	26-May-20	0+230	6.00	7.38	1.990	1.915	96.23	95
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	Engineer Dhisandee Verden		Contract N	fanager	Expert Qty Surv	evor/CSE		Team Leader	
	Dhirendra Yadav		Rabindra Ki	r. Thakur	H.K. Mandal/Ra	jan Shrestha		Giresh-Chand	



	REG	Co	BAN DEV ratnagar Met ntract No:- RU	ropolitan Ci DP/ICB/BRT	ty -02	PRO	ЭJE	CT.	
						Month: Year Type of			Jay
								2020	
			Location	:-R-47		Mate		Sub	grade
Sn.	Lab.Ref no.	Location/Chainage	Source of Sample	Date of Testing	MDD	OMC	PI%	CBR%	Remark
1	RUDP-SG-01	R-47,(0+115)	Existing Road	25-May-20	1.935	10.10	8.63	7.42	
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	Checked By Engineer		Submitted By Contract Manager	Verified By Expert Qty Survey	or /CSF			oved By Leader	1

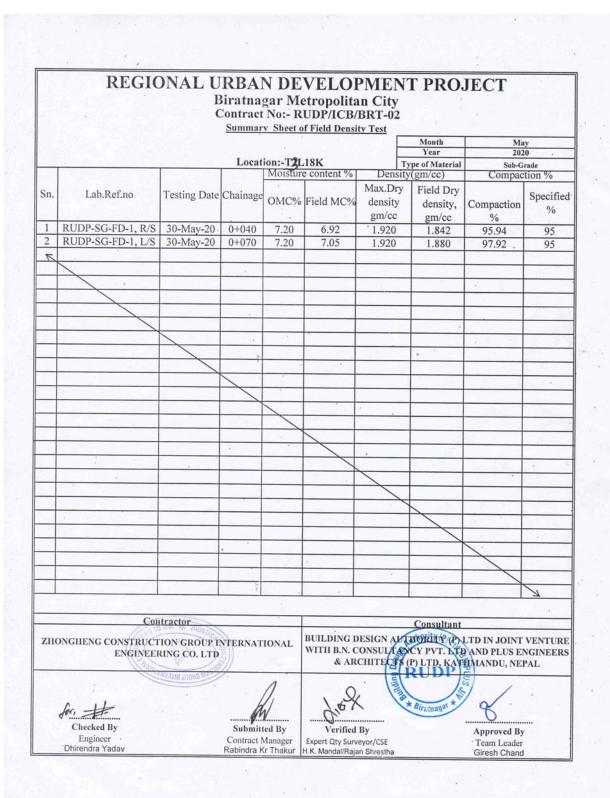


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		I	Biratna Contract	gar Mo No:- R	etropolita UDP/ICB/	an City BRT-02			
			Summar	y Sheet o	of Field Densi	ity Test	Month	Ma	ıv.
			Loc	ation:-R	-47		Year	202	20
			Loc	Moistur	e content %	- Densi	Type of Material y(gm/cc)	Sub-G Compac	
Sn.	Lab.Ref.no	Testing Date	Chainage	OMC%	Field MC%	Max.Dry density gm/cc	Field Dry density,	Compaction %	Specified %
1	RUDP-SG-FD-1, L/S	26-May-20	0+040	10.10	(8.61	1.935	41.884	. 97.38	95
2	RUDP-SG-FD-1, R/S	26-May-20	0+090	10.10	(9.42	1.935	(X.874	96.84	95
3	RUDP-SG-FD-1, L/S	26-May-20	0+160	10.10	68.09	1.935	(1.888	97.58	95
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				5 10 10 0		Mor	th:	May		
						Year			.020	
			Location:-T3L18F	(Type of Material		Sub grade		
Sn.	Lab.Ref no.	Location/Chainage	Source of Sample	Date of Testing	MDD	ОМС	PI%	CBR%	Remark	
1	RUDP-SG-01	T3L18K,(0+050)	Existing Road	27-May-20	(1.920	7.20	8.08	6.10		
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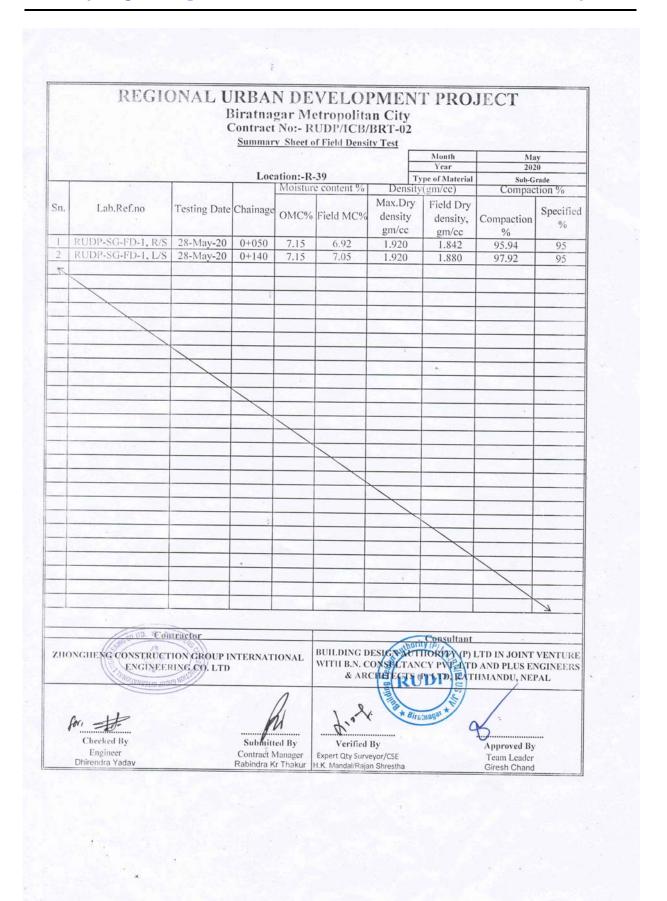




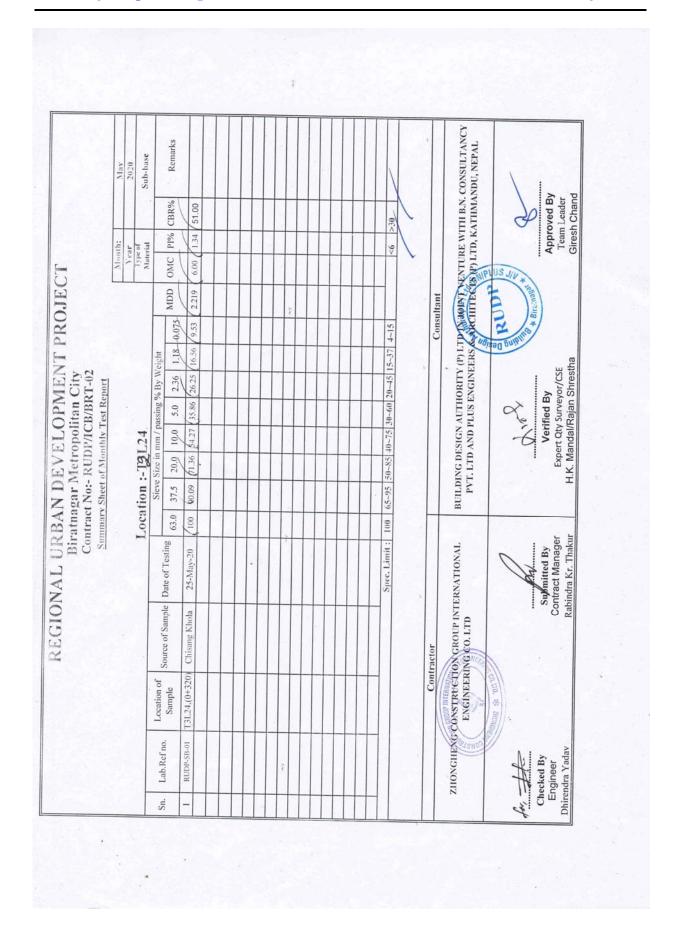


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						Mon			Maÿ
						Type			2020
		- 14: 14: M	Location:-R-39	Marine 1		Mate		Sub	grade
Sn.	Lab.Ref no.	Location/Chainage	Source of Sample	Date of Testing	MDD	OMC	PI%	CBR%	Remark
1	RUDP-SG-01	R-39,(0+120)	Existing Road	24-May-20	1.920	(7.15	7.96	(6.10.	7
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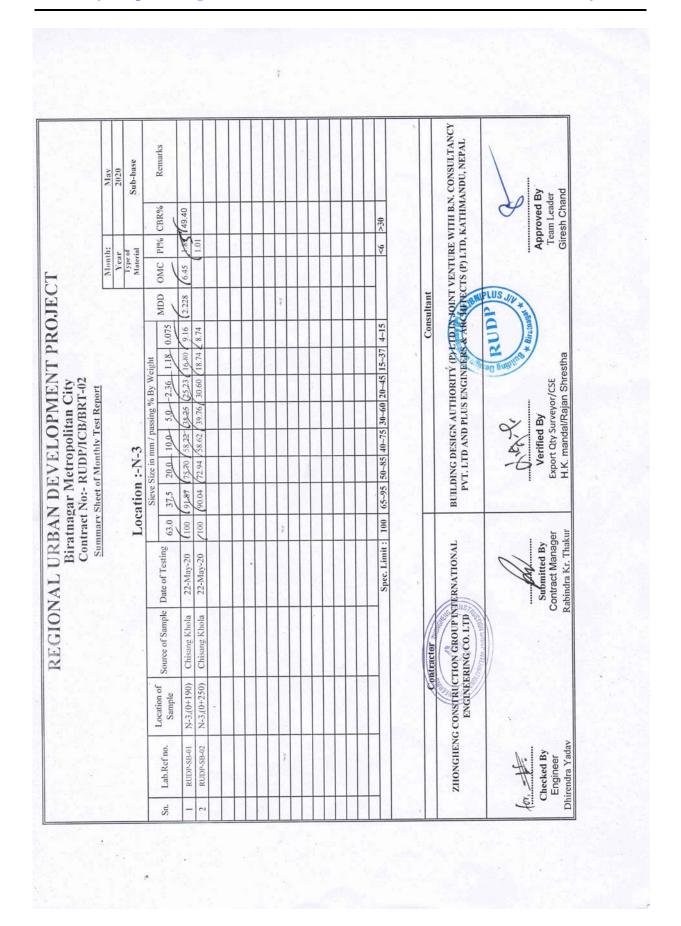






	REGIO	C	iratnaç ontract	gar Me No:- RI	VELOP tropolita JDP/ICB/I	n City BRT-02	T PROJ	IECT		
							Month		May	
						Year		2020		
			Loca	tion:-15	L24 e content %	Danci	Type of Material ty(gm/cc)		Sub-Base	
Sn.	Lab.Ref.no	Testing Date	Chainage		Field MC%	Max.Dry	Field Dry	Compac	0.11	
1	RUDP-SB-FD-1, L/S	29-May-20	0+250	6.00	(.5:08	density (2.219	density,	(95.45	95	
2	RUDP-SB-FD-1, C/L	29-May-20	0+290	6.00	(A.39	(2-219	(2.132	/26.10	95	
3	RUDP-SB-FD-1, R/S	29-May-20	0+320	6.00	5.80	(2.219	2.138	96.36	95	
4	RUDP-SB-FD-1, L/S	29-May-20	0+340	6.00	(5.69	(2.219	(2.127	95.58	95	
			*							
	Contract		E	BUIL DING	C DESIGN 41		sultant		0 N	
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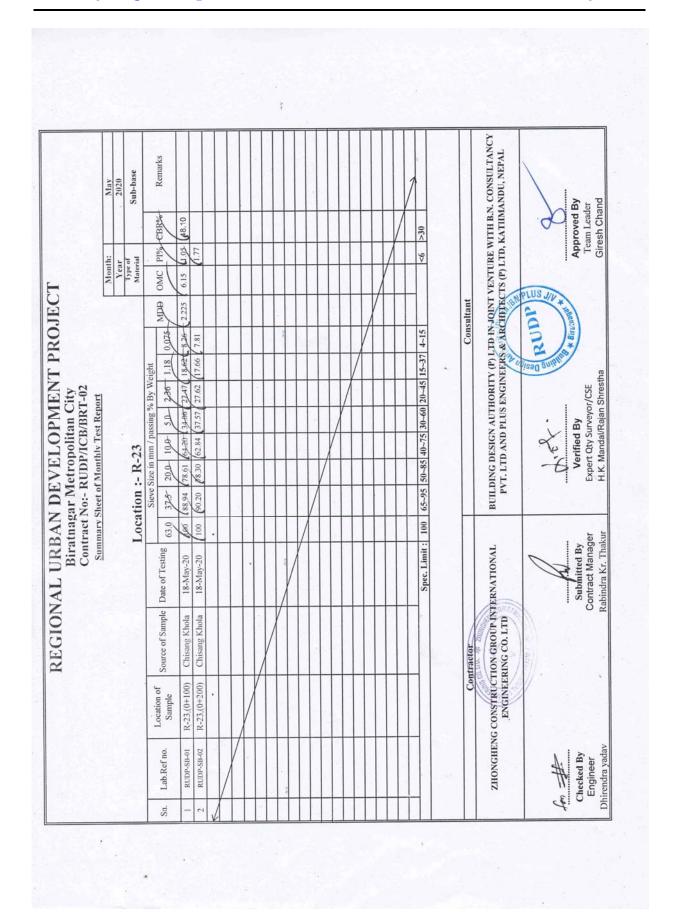






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			Summary	Sheet of	Field Density	Test			
							Month		May
					202		Year		2020
			Loc	ation:-N		- Name	Type of Material		ub-Base
		T D .	CI.		e content %		sity(gm/cc)		paction %
Sn.	Lab.Ref.no	Testing Date	Chainage	OMC%	Field MC%	Max.Dr		Compac	Specified / %
1	RUDP-SB-FD-1, L/S	24-May-20	0+190	(6:45	5.55	density (2.228	/2,125 A	95.37	95
2	RUDP-SB-FD-1, C/L	24-May-20	0+190	6.45	(5.01	/2.228	(2,162	(97.05	95
3	RUDP-SB-FD-1, R/S	24-May-20	0+250	76.45	(4.65	(2.228	(2.153	96.61	7 95
4	RUDP-SB-FD-1, L/S	24-May-20	0+300	(6.45	(5.29	(2.228		796.89	1 95
5	RUDP-SB-FD-1, R/S	24-May-20	0+330	6.45	(5.29	(2.228		/96.58	95
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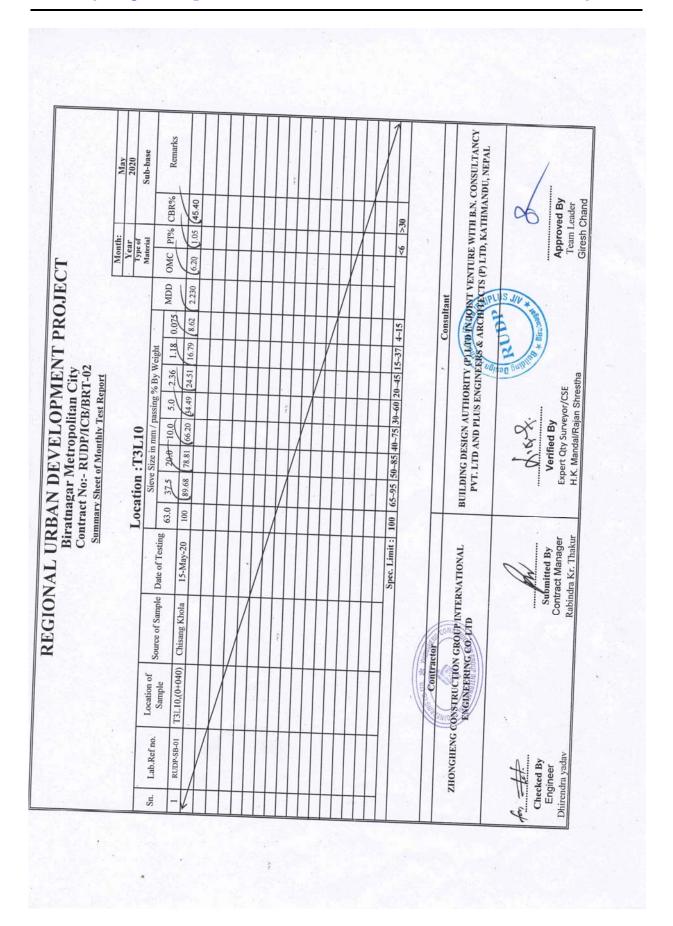






Location:-R-23 Type of Material S	95 95 95 95
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Location:-R-23 Type of Material State	D-Base action % Specified % 95 95 95 95 95
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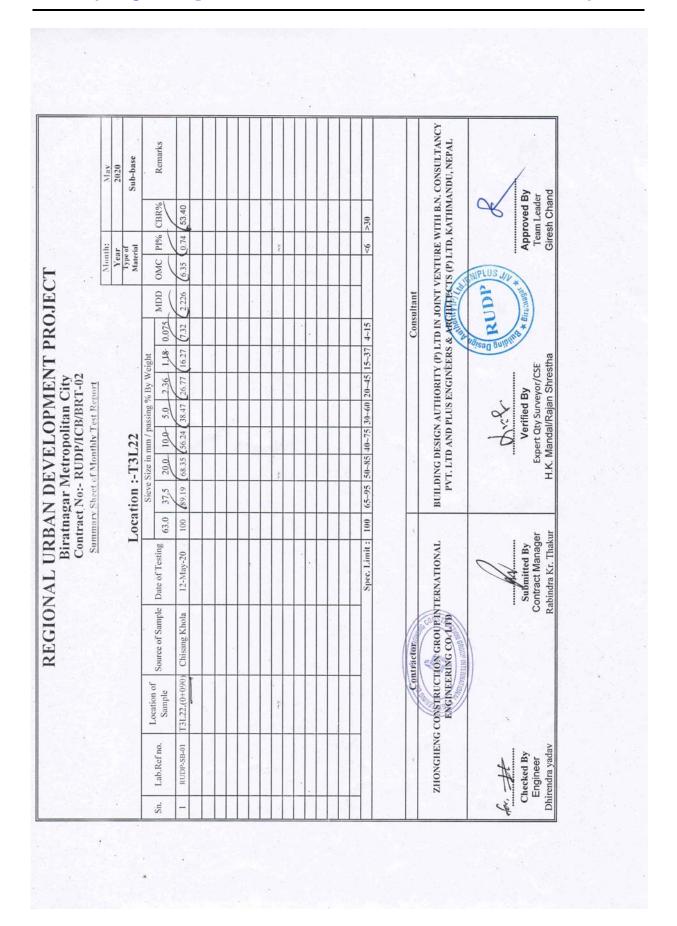






		Contrac	gar Mo t No:- R	etropolita UDP/ICB/F	n City	T PROJ	ECT	
		Summai	y Sheet o	f Field Density	y Test			
						Month		May
		Loca	tion:-T	3T.10		Year		2020
		1	Moistu	re content %	Dens	Type of Material		ub-Base
		Chainage			Max.Dr	y Field Dry	Compac	paction % pecifie
RUDP-SB-FD-1, R/S		0+030	6.20	5.61				1 %
RUDP-SB-FD-1, L/S		0+080	6.20					95
RUDP-SB-FD-1, R/S		0+120	6.20	(5.99		7	/	95
RUDP-SB-FD-1, L/S	17-May-20	0+150		1/				95
RUDP-SB-FD-1, R/S	17-May-20	0+170		- / 10		1	1.	95
			0.20	7 5.12	2.230	(2.150	/96.43	95
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Contractor		-				He lie to		
By Sub	SRING CO. LT		Verified	ARCHITECTS	HORITY (I	P) LTD IN JOIN BAND PLUS EN CAND PLUS EN CAN	NGINEERS NEPAL	S &
		H.K	. Mandal/R	aian Shrootha		Te	am Leader	21.5
	Contractor Contractor Contractor Contractor Contractor Contractor Contractor Contractor Contractor	RUDP-SB-FD-1, R/S 17-May-20 RUDP-SB-FD-1, L/S 17-May-20 RUDP-SB-FD-1, R/S 17-May-20 RU	Lab.Ref.no Testing Date Chainage RUDP-SB-FD-1, R/S 17-May-20 0+080 RUDP-SB-FD-1, R/S 17-May-20 0+120 RUDP-SB-FD-1, R/S 17-May-20 0+150 RUDP-SB-FD-1, L/S 17-May-20 0+170 RUDP-SB-FD-1, R/S 17-May-20 0+170 RUDP-SB-FD-1, R/S 17-May-20 0+170 Contractor Contractor ONGHENG CONSTRUCTION GROUP RNATIONAL ENGINEERING CO. LTD By Contract Manager Experimental State of Chainage Chainage	Lab.Ref.no Testing Date Chainage OMC% RUDP-SB-FD-1, R/S 17-May-20 0+030 6.20 RUDP-SB-FD-1, L/S 17-May-20 0+120 6.20 RUDP-SB-FD-1, L/S 17-May-20 0+150 6.20 RUDP-SB-FD-1, R/S 17-May-20 0+170 6.20 RUDP-SB-FD-1, R/S 1	RUDP-SB-FD-1, R/S 17-May-20 0+030 6.20 5.61 RUDP-SB-FD-1, L/S 17-May-20 0+080 6.20 6.95 RUDP-SB-FD-1, R/S 17-May-20 0+120 6.20 6.99 RUDP-SB-FD-1, L/S 17-May-20 0+150 6.20 5.56 RUDP-SB-FD-1, R/S 17-May-20 0+170 6.20 5.12 Contractor Contractor Contractor ONCHENG CONSTRUCTION GROUP RNATIONAL ENGINEERING CO. LTD By Submitted By Contract Manager Contract Manager Contract Manager Contract Manager Contract Manager Contract Manager Verified By Expert Oty Surveyor (CSE)	Lab.Ref.no	Lab.Ref.no Testing Date Chainage Cha	Lab.Ref.no Testing Date Chainage OMC% Field MC% Max. Dry Field Dry Compact Gensity Gen

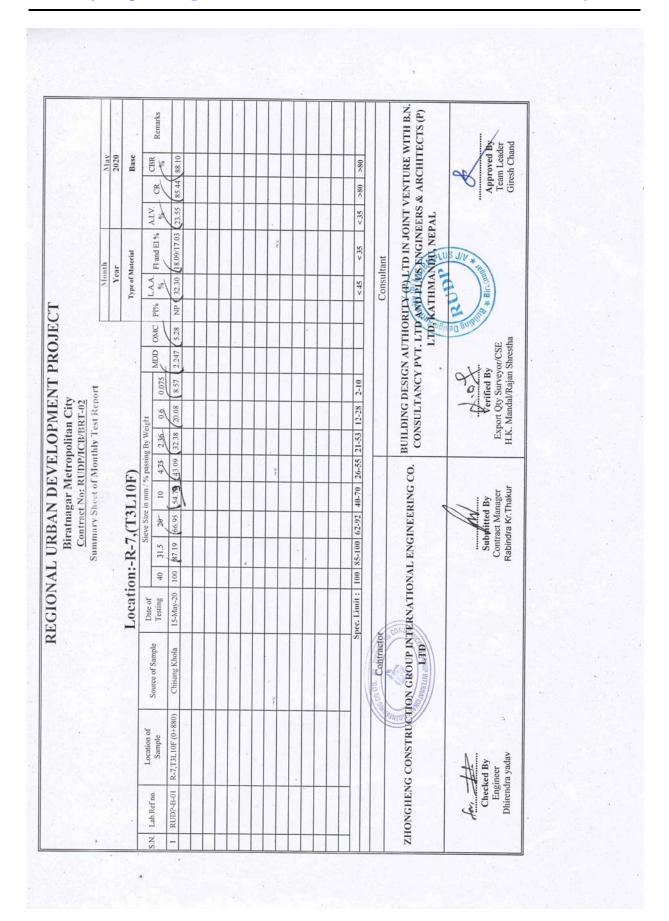






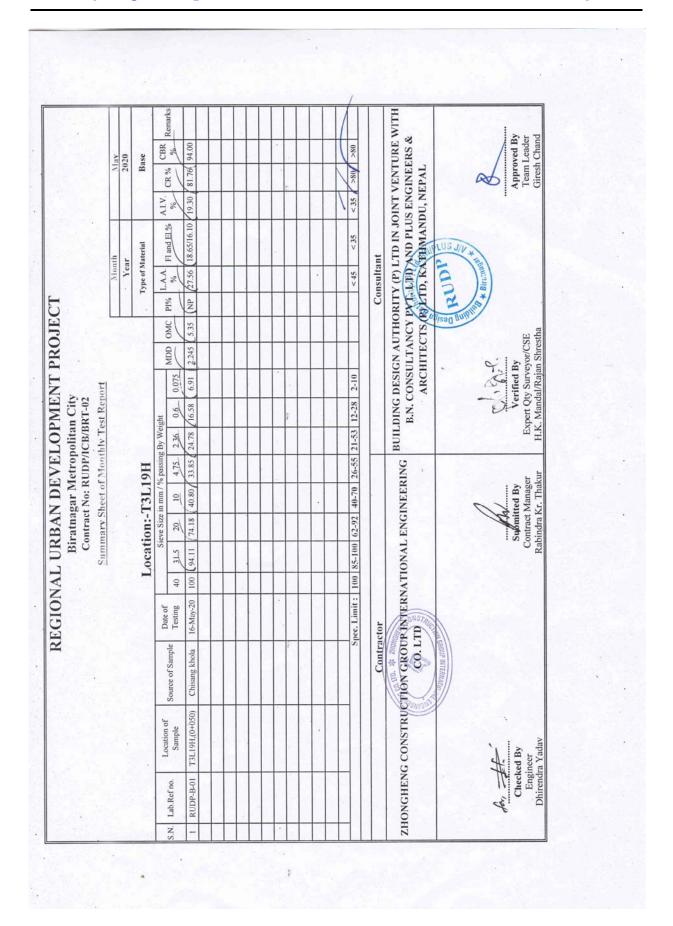
	REGIO	В	iratnag ontract	ar Met No:- RU	ELOP tropolitar JDP/ICB/E Field Density	City BRT-02	T PROJ	ECT		
							Month	May		
			Locat	tion:-T3	1 22		Year	2020		
			Local	Moisture	e content %	Dens	Type of Material Sity(gm/cc)	Sub-Base Compaction %		
Sn.	Lab.Ref.no	Testing Date	Chainage	OMÇ%	Field MC%	Max.Dr	ry Field Dry	Compac tion	Specified / %	
1	RUDP-SB-FD-1, L/S	15-May-20	0+020	6.35	(5.90	2.226		96.93	, 95	
2	RUDP-SB-FD-1, C/L	15-May-20	0+080	6.35	(5.42	2.226	(2.145	96.35	/95	
3	RUDP-SB-FD-1, R/S	15-May-20	0+180	6.35	(5.52	2.226	2.148	96.50	95	
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	Contrac	tor				'C	onsultant	•		
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for	#	A			7.8.		* Bire mayar *	/		
En		Submitted By ontract Manago abindra Kr. Thak			Verified By t Qty Surveyor, dal/Rajan Shre			Approved Team Lea Giresh Ch	d By ader	







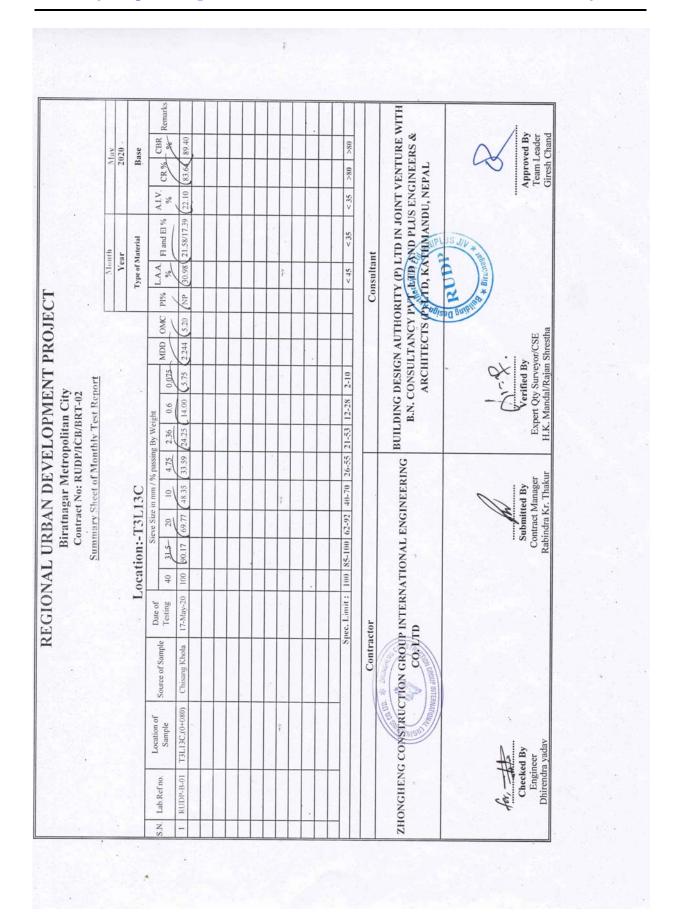
va e	REGI	ONAL	Biratn	agar N	EVELOI Ietropolita RUDP/ICB/	n City	,	PRO	JECT		
			Summ	ary Sheet	of Field Densit	ty Test					
								Month	M		
			Loca	tion. D	7,(T3L10F)		-	Year	2020		
			Loca	Moistu	re content %	Den		e of Material	Compa		
Sn.	Lab.Ref.no	Testing Date	Chainage			Max.D	-	Field Dry	Compaction	Specified	
		Touring Date	Chamage	OMC%	Field MC%	densit	-	density,	/%	%	
1	RUDP-B-FD-1, L/S	17-May-20	0+760	5.28	(5.18	2.247		(2.218	/98.71	98	
2	RUDP-B-FD-1, R/S	17-May-20	0+800	5.28	(5.63	2.247	7	2.244	(99,86	98	
3	RUDP-B-FD-1, L/S	17-May-20	0+850	5.28	(5.00	2.247	7	2.206	88.19	98	
4	RUDP-B-FD-1, R/S	17-May-20	0+940	5.28	(5.45	2.247	_	(2.240	(99.70	98	
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	Checked By	Submitte	d Rv	Vor	rified By				Approved D		
	Engineer	Contract Ma			Surveyor/CSE				Approved By Team Leader		
	Dhirendra yadav	Rabindra Kr.			ial/Rajan Shrest	ha			Giresh Chan		



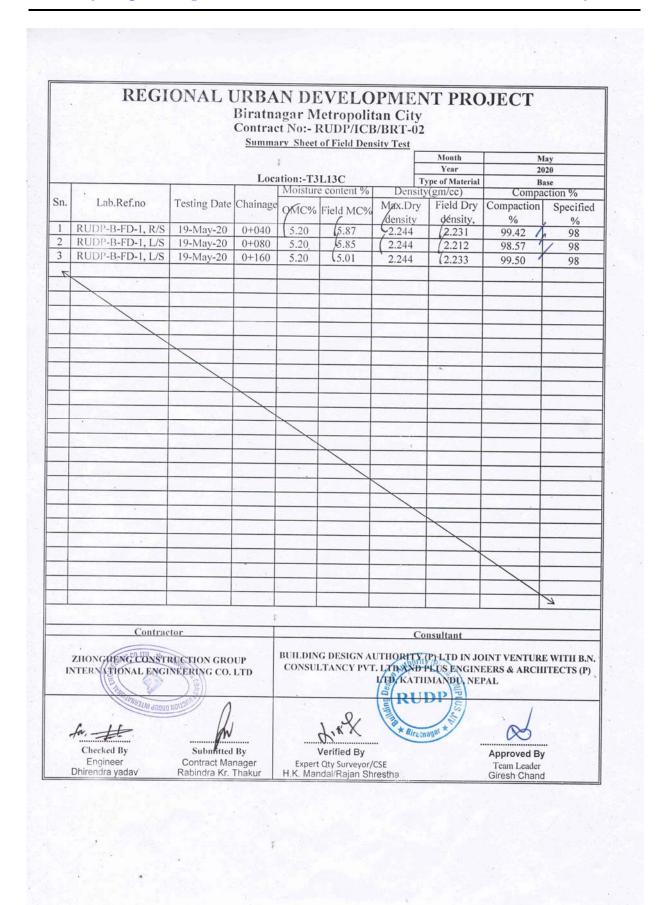


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	KLO.	ONAL	Biratr	arar N	L V LLC Aetropoli	tan City	VI PRO	JECT		
			Contra	ct No:-	RUDP/ICI	R/RRT_0	,			
					t of Field Den		4			
				·	t of Field Deli	Sity Test	Month			
							Year		20	
			I	ocation:	-T3L19H		Type of Material			
	Lab D.C.				e content %	Densi	ty(gm/cc)	Compa	ction %	
Sn.	Lab.Ref.no	Testing Date	Chainage	OMC%	Field MC%	Max.Dry		Compaction	Specified	
1	RUDP-B-FD-1, R/S	10.14	0.000	/		dénsity	density,	%	%	
2	RUDP-B-FD-1, R/S	18-May-20	0+020	C 5.35	1/5.78	(/2.245	(2.219	98.83	98	
3	RUDP-B-FD-1, R/S	18-May-20	0+040	5.35	6.26	12.245	V2.215	98.69	98	
4	RUDP-B-FD-1, L/S	18-May-20	0+080	5.35	(6,07	2.245	2.212	98.52	98	
5	RUDP-B-FD-1, L/S	18-May-20	0+120	5.35	15.68	2.245	(2.222	98.96	98	
9	KUDP-B-FD-1, L/S	18-May-20	0+160	5.35	(5.22	2.245	2.202	98.10	98	
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VIN	TERNATIONAL ENGIN	NEERING CO.	LTD	CONSUI	LTANCY PVT	LED AND	PLUS ENGINE	ERS & ARCHIT	TECTS (P)	
1	NOTAM RETAIL 9UORO HOUSE					EVD. KATI	IMANDU, NEP	AL /	2010(1)	
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	for, the	WI		41		1	15	/		
	Checked By	Submitted		Vorifi		* Biratnagi	ar * N			
	Engineer	Contract Mar		Verific	ed By urveyor/CSE	amag		Approved By		
1	Ohirendra Yadav	Rabindra Kr. 7			al/Rajan Shres	the		Team Leader Giresh Chand		

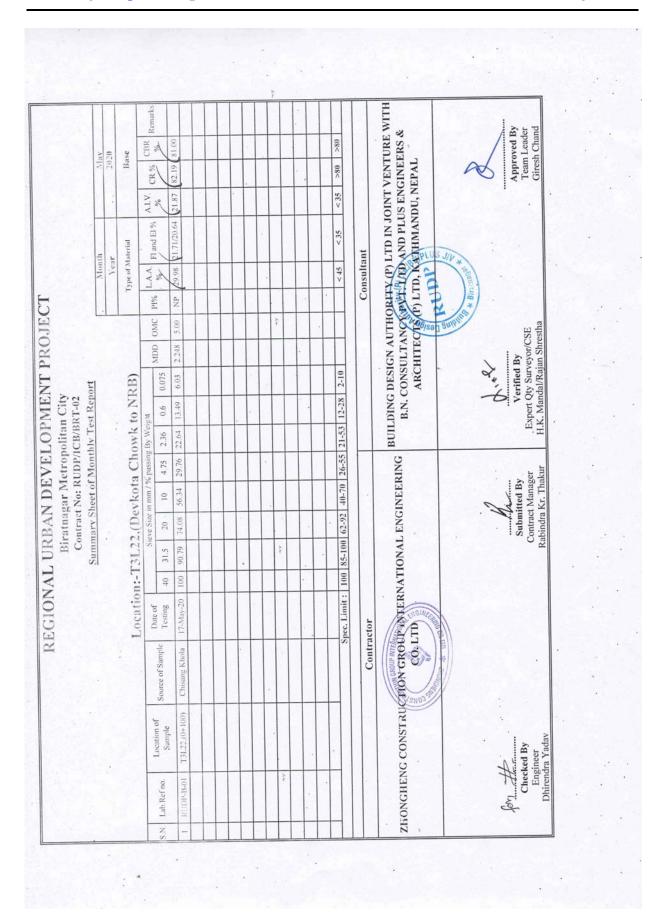








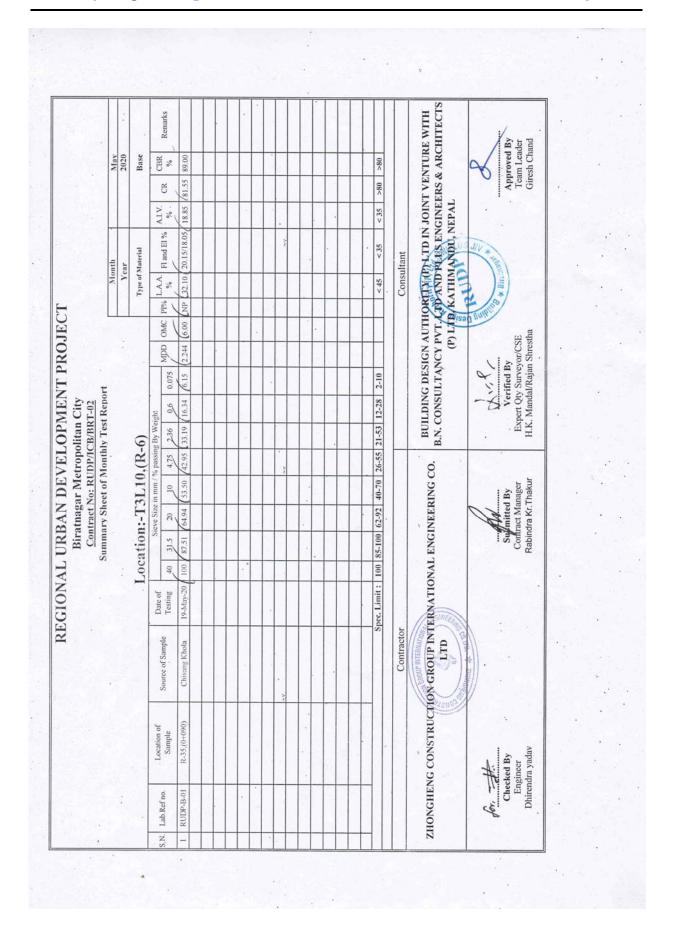






RUDP-B-FD-1, RHS 19-May-20 0+130 5.00 4.00 2.248 2.244 99.81 98 Contractor Consultant Contractor Consultant Consul						et of Field Do	CB/BRT-02 ensity Test			22			
Lab.Ref.no					-								
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Lab.Ref.no Testing Date Chainage OMC% Field MC% Max.Dry density Field Dry Specified Specified OMC% Field MC% Max.Dry density Field Dry Specified			Location:-	131,22,(1)	Moistu	re content %	Density(gm/	cc)					
Ruddy		Lab Refino	Testing Date	Chainage									
RUDP-B-FD-1, LHS		Labirterino	rearing is the	Ciminage	OMC%	Field MC%							
RUDP-B-FD-1, RHS 19-May-20 0+090 5.00 4.00 2.248 2.210 98.31 98 RUDP-B-FD-1, RHS 19-May-20 0+130 5.00 4.00 2.248 2.244 99.81 98 Contractor Consultant ZHONGHING CONSULTANCY PVT. LTD AND TLUS ENGINEERS & ARCHITECTS (P) LTD Approved By Femileard Temples of Temples (P) LTD Approved By Femileard Temples (P) LTD Approved By Fe		RUDP-B-FD-1, LHS	19-May-20	0+045	5.00	4.48			98.41				
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Contractor Consultant ZHONGHEYO CONSERUCTO CROUP INTERNATIONAL ENGISEERING CO. LTD Checked By Engineer Contract Manager Expert Qty Surveyor/CSE Consultant Verified By Expert Qty Surveyor/CSE Team Leader													
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Contractor ZHONGHUNG 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. ATHIMANDU, NEPAL Checked By Engineer Contract Manager Submitted By Contract Manager Contract Manager Expert Qty Surveyor/CSE Team Leader	_								1/25				
Contractor ZHONGHONG GROUP INTERNATIONAL ENGINEERING CO. LTD BUILDING DESIGN AUTHOR TW (P) LTD IN JOINT VENTURE WITH B.N. CONSULTANCY PVT. LTD AND PLUS ENGINEERS & ARCHITECTS (P) LTD. ATHIMANDU, NEPAL Checked By Engineer Contract Manager Expert Qty Surveyor/CSE Consultant Published By Expert Qty Surveyor/CSE Consultant Approved By Team Leader													
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Checked By Submitted By Verified By Engineer Contract Manager Expert Qty Surveyor/CSE Team Leader		ZHONGHENG CONS	PRUCTIONGR		CONS	DING DESIG ULTANCY PV	T. LTD AND PLUS KATHMAN	ENGINE DU, NEP	ERS & ARCHI	RE WITH B.N. TECTS (P) LTD,			
Engineer Contract Manager Expert Qty Surveyor/CSE Team Leader		746. 29	· direc			2/	* BirLi	nagar #	1	/			
Engineer Contract Manager Expert Qty Surveyor/CSE Team Leader		for, #	Submit	ted By	, Ve	erified By			Appro	ved By			
Dhirendra Yadav Rabindra Kr. Thakur H.K. Mandal/Rajan Shrestha Giresh Chand			Contract !	Manager	Expert Q	ty Surveyor/CS			Team	Leader ·			
		Dhirendra Yadav	Rabindra k	r. Thakur	H.K. Ma	ndal/Rajan Sh	restha		Giresh	Chand			







					RUDP/ICB/ t of Field Densi							
			Summ	ary Shee	of Field Densi	ty rest	Month	(M	ay			
			Loc	ationT	31.10 (R-6)	T.	Year ype of Material	20. (Ba				
					C3L10,(R-6) re content %	Density	(gm/cc)	Compa	ction %			
in.	Lab.Ref.no	Testing Date	Chainage	OMC%	Field MC%	Max.Dry	Field Dry	Compaction %				
1	RUDP-B-FD-1, R/S	28-May-20	0+040	6.00	(5.38	density (2.244	density, 2.236	99.63	98			
2	RUDP-B-FD-1, C/L	28-May-20	0+080	6.00	(5.32	12.244	(2.235	99.61	98			
3	RUDP-B-FD-1, L/S	28-May-20	0+170	6.00	(-5.12	/2.244	(2.202	98.11	98			
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	ZHONG HENG CONSTI	SUCTION CRO	MID	BUILDI	NG DESIGN AU	THORITY (LTD IN JO	NT VENTURE	WITH B.N.			
I	NTERNATIONALENGI	XEEDING CO.		CONSUL	TANCY PVT. L	ESTHMA	SANGINEER NDCONEPAL	S & ARCHITE	CTS (P) LTD,			
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	Can It				1,641	101	1	OX				
	Checked By	Submitte			Verified By	Birzinag	ar	Annyound D				
	Engineer -	Contract Ma	anager		ert Qty Surveyor/			Approved By Team Leader	V4 - 5 2			
	Dhirendra yadav	Rabindra Kr.	Thakur	H.K. M	andal/Rajan Sh	restha		Giresh Chand	d			



Contract No: Application Rasulus of Priming 1020.8 Both Side 186.0 Both Side 186.7 Both Side 186.7 Both Side 186.7 Both Side 192.00 Prime Coat 1.0	Station Side of	Ontract No: Daily Application Ra SUMMARY FOR SUMMARY FOR 14-100 Both side Area of Priming Priming 14-100 Both side 1020.8 0+097 Both Side 186.0 0+090 Both Side 456.73 0+063 Both Side 782.00 0+063 Both Side 1654.4 0+105 Both Side 192.00 0+0645 Both Side 192.00 0+0645 Both Side 192.00 0+0660 Both Side 192.00 0+0660 Both Side 192.00 11ion for Prime coat 1.0 Summitted By Contract Manager Parket Mana	Side of Priming Priming Priming Priming Priming Priming Priming Priming Both side 1020.8 Both Side of 1020.8 Both Side 186.7 Both Side 782.0 Both Side 782.0 Both Side 192.0 Tr Prime coat 1.0 In Prime Coat	Contract No: IMARY FOR le of Area of Inding Priming (1020.8) Side 186.7 Side 186.7 Side 378.00 Side 456.7 Side 192.00 Side 192.00 Side 192.00 Side 192.00 Side 192.00 The coat 1.0 The coat 1.0	Ct No: On Ra FOR 1020.8 325.9 325.9 378.00 782.00 782.00 192.00 1186.0		Check for Intersection Intersection Area m2	Priming w/ DF MAY 20 Total Area M2 1020.80 325.92 186.00 1861.20 378.00 378.00 274.05 192.00' Total Specific G Specific G	200 1100 200 200 200 400 400 850 850 850 850 Consul THORITY (P) ILU TO AND PLUS THORITY (P) ILU TO AND	1.08 1.08 1.08 1.08 1.08 1.09 1.09 1.09 1.09 1.09 1.09 1.09 1.09
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Type of Bitumen:80/100 P.G Cutter Percentage:MC 70:MC30 SN	May-20 Ma	0 9 9 9 9 9 9 9 9 7	Stal From 0+940 0+940 0+000 0+000 0+000 0+000 0+000 0+000 0+000 0+000 C+000 C+000 C+000 0+000 0+000 0+000 0+000 0+000 0+000 0+000	Station From O+940 O+940 O+940 O+940 O+000	Station to P Station (1400 Bo O+000 (1400 Bo O+000 (1400 Bo O+000 (1400 Bo) O+00	Station Station Station Contr.	Daily Application Rate Not and a contract No: RI			



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		May	2020	Cancrete Sand	Clay	Contetnt%	1.17	1.04	0.82	130	0.86	0.79	0.91	1.33	1.08				<3%		Consultant DING DESIGN AUTHORITY (P) LTD IN JOINT VENTURE V B.N. CONSULTANCY PVT. LTD AND PLUS ENGINEERS & ARCHITECTS (P) STD KATHMANDU, NEPAL	Q.	Approved By Team Leader Giresh Chand
		h		of		0.150	6.97	5.91	5.07	4 91	7.74	6.54	6.43	6.64	5.48			88	0~15		TD IN JO ND PLUS HMAND	MPLUS J/V	*
17		Month	Year	Type of Material		0.300	13.27	10.94	9.59	0.32	14.29	11.20	11.13	11.41	10.10				5~70		Consultant ITY (P) L7 TLTD A	JUBISAO BU	* Bire: mayar
KOSE	Puo	- James			Sieve Size in mm / % Passing by weight	0.600	26.21	25.17	27.20	25.17	30.63	28.51	27.21	27.10	27.35				15~100		THORI VCY PV TS (P)	ngisad gr	*
TINI	y 12	allelete			mm/%Pa	1.18	43.80	44.94	47.34	47.59	49.76	47.02	46.71	47.39	48.07				30~100		SIGN AU SULTAN		or/CSE in Shrestl
TIMI TO	itan Cit	10 1100			eve Size in	2.36	67.35	68.57	18.69	69.67	70.20	69.13	69.63	96.69	70.94				60~100		ING DES	7	Verified By Expert Qty Surveyor/CSE H.K. Mandal/Rajan Shrestha
VEL	Biratnagar Metropolitan City Contract No:- RUDP/ICB/BRT-02	I CSI IVC			Sic	5.0	94.23	95.02	95.76	95.72	95.79	95.10	95.10	95:77	95.47				89~100		BUILD	4.4	Verified By Expert Qty S H.K. Manda
IN DE	agar M	MODITION				10	100.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00				100		KAL		r kur
UNAL UKBAN DEVELUFINENT I NOJECT	Biratn	Summary Sheet of Monthly Lest Report of Canada				Source of Sample	Chisang Khola	Chisang Khola	Chisang Khola	Chisane Khola	Chisano Khola	Chisang Khola	Chisang Khola	Chisang Khola	Chisang Khola				Snec Limit .	and and a	INTERNATION D	0	Submitted By Contract Manager Rabindra K. Thakur
KECIO		5			Togotion of	Sample	T3L10F	T31,10F	R-7	R-4	T31 22	R-6(T3L10)	T3L22	- R-3	T3L22						ZHONGHENG CONSTRUCTION GROUP INTERNATIONAL ENGINEERING CO. LTD	S. Salada Col	
					Dota of	Testing	15-Mav-20	16-May-20	19-May-20	19-May-20	20-May-20	23-May-20	23-May-20	24-May-20	24-May-20						G CONSTRU ENGIN	oca.ira. * Zimmer	
						Lab.Ref no.	RUDP-CS-651	RUDP-CS-652	RUDP-CS-653	RUDP-CS-654	RUDP-CS-635	RUDP-CS-657	RUDP-CS-658	RUDP-CS-659	RUDP-CS-660						ZHONGHEN	#	Checked By Engineer Dhirendra Yadav
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S.N.	Location	Lab Ref.no.	Type of Cement	Brand of Cement	Source of Sand+Agg.	Date of Casting	Date of T		Strength,		Concre
1	T3L10F	RUDP-3511	Ambe Hi-tech	OPC	Chisang Khola	14-May-20	7 Days 21-May-20	28 Days 11-Jun-20	7 Days 15.28	28 Days	M20
2	R-7	RUDP-3511	Ambe Hi-tech	OPC	Chisang Khola	14-May-20	21-May-20 21-May-20	11-Jun-20	16.32	-	M20
3	R-4	RUDP-3513	Ambe Hi-tech	OPC	Chisang Khola	15-Mar-20	22-Mar-20	12-Apr-20	12.00		M15
4	R-4	RUDP-3514	Ambe Hi-tech	OPC	Chisang Khola	15-Mar-20	22-Mar-20	12-Apr-20	16.77		M20
5	T3L22	RUDP-3515	Ambe Hi-tech	OPC	Ghisang Khola	17-May-20	24-May-20	14-Jun-20	17.74		M20
6	Koshi Yard	RUDP-3516	Ambe Hi-tech	OPC	Chisang Khola	17-May-20	24-May-20	14-Jun-20	17.97		M20
7	T3L10F	RUDP-3517	Ambe Hi-tech	OPC	Chisang Khola	17-May-20	24-May-20	14-Jun-20	16.69		M20
8	* R-7	RUDP-3518	Ambe Hi-tech	OPC	Chisang Khola	17-May-20	24-May-20	14-Jun-20	17.44		M20
9	R-4	RUDP-3519	Ambe Hi-tech	OPC	Chisang Khola	18-May-20	25-May-20	15-Jun-20	15.95		M20
10	R-3	RUDP-3520	Ambe Hi-tech	OPC	Chisang Khola	18-May-20	25-May-20	15-Jun-20	17.74		M20
11	R-6	RUDP-3521	Ambe Hi-tech	OPC	Chisang Khola	19-May-20	26-May-20	16-Jun-20	16.77		M20
12	Koshi Yard	RUDP-3522	Ambe Hi-tech	OPC	Chisang Khola	19-Мау-20	26-May-20	16-Jun-20	18.19		M20
13	R-4	RUDP-3523	Ambe Hi-tech	OPC	Chisang Khola	21-May-20	28-May-20	18-Jun-20	16.84		M20
14	T3L22	RUDP-3524 RUDP-3525	Ambe Hi-tech	OPC OPC	Chisang Khola	21-May-20	28-May-20	18-Jun-20	17.15		M20
16	Koshi Yard R-3	RUDP-3525 RUDP-3526	Ambe Hi-tech	OPC	Chisang Khola Chisang Khola	21-May-20 22-May-20	28-May-20 29-May-20	18-Jun-20 19-Jun-20	17.21		M20 M20
17	R-6(T3L10)	RUDP-3526 RUDP-3527	Ambe Hi-tech	OPC	Chisang Khola Chisang Khola	22-May-20 22-May-20	29-May-20 29-May-20	19-Jun-20 19-Jun-20	16.98		M20
18	T3L22	RUDP-3528	Ambe Hi-tech	OPC	Chisang Khola	22-May-20 22-May-20	29-May-20	19-Jun-20	17.90		M20
19	R-4	RUDP-3529	Ambe Hi-tech	OPC	Chisang Khola	22-May-20	29-May-20	19-Jun-20	16.10		M20
20	Koshi Yard	RUDP-3530	Ambe Hi-tech	OPC	Chisang Khola	23-May-20	30-May-20	20-Jun-20	16.69		M20
21	R-3	RUDP-3531	Ambe Hi-tech	OPC	Chisang Khola	23-May-20	30-May-20	20-Jun-20	18.05		M20
22	R-4	RUDP-3532	Ambe Hi-tech	OPC	Chisang Khola	23-May-20	30-May-20	20-Jun-20	16.62		M20
23	R-6(T3L10)	RUDP-3533	Ambe Hi-tech	OPC	Chisang Khola	18-Mar-20	25-Mar-20	15-Apr-20	18.05	1 191	M20
24	T3L22 _	RUDP-3534	Ambe Hi-tech	OPC	Chisang Khola	23-May-20	30-May-20	20-Jun-20	17.45		M20
25	R-3	RUDP-3535	Ambe Hi-tech	OPC	Chisang Khola	24-May-20	31-May-20	21-Jun-20	16.77		M20
26	R-4	RUDP-3536	Ambe Hi-tech	OPC	Chisang Khola	24-May-20	31-May-20	21-Jun-20	13.64		M15
27	R6(T3L10)	RUDP-3537	Ambe Hi-tech	OPC	Chisang Khola	24-May-20	31-May-20	21-Jun-20	17,60		M20
28	T3L22 Koshi Yard	RUDP-3538 RUDP-3539	Ambe Hi-tech	OPC OPC	Chisang Khola	24-May-20	31-May-20	21-Jun-20	18.50		M20
30	R-4	RUDP-3539 RUDP-3540	Ambe Hi-tech	OPC	Chisang Khola Chisang Khola	24-May-20 24-May-20	31-May-20 3 31-May-20	21-Jun-20 21-Jun-20	16.71		M20 M20
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	ked By		Submi		Verified By Expert Qty S		DE			proved B	

	May	20 mm Agg	Remarks	1	1	1	1	1	1	1	/						URE WITH			Approved By Team Leader Giresh Chand	
	N	20 mi	A.I.V.%	78.27	716.28	719.13	720.30	19.55	23.17	19.26	19.53				<25		T VENT NGINEI NEPAL	d	6	Approved By Team Leader Giresh Chand	
	6.4	faterial	Fl and EI %	19.31/15.94	7 21.36/20.98	722.15/19.93	21.18/19.93	11.22/6/22.11	22 23/20 25	22.29/19.56	21.97/18.94				< 25	ut	BUILDING DESIGN AUTHORITY (P) EAD IN JOINT VENTURE WITH B.N. CONSULTANCY PYT. LTD ANG RLUS ENGINEERS & ARCHITECTS (P) LTD, AO THIEANDU, NEPAL	* 10/10	OR!		
	Month	Type of Material	L.A.A.%	25.10	29.12	27.10	24.90	26.46	27.20	28.68	26.46				35	Consultant	TING TO	Oful	NB * Bu		
Agg.				3.15	3.50	2.50	2.32	2.08	3.59	2.89	2.53				0~3		UTHOR NCY PY CTS (P)	and			
ity -02 f 20mm			Sieve Size in mm / % Passing by weight	11.62	11.44	13.33	14.37	17.07	17.04	18.56	16.55				0~25		SSIGN A NSULTA RCHITE			y yor/CSE Shrestha	
Olitan C CB/BRT Report o			14 /% Pas	50.72	51.13	53.63	51.31	40.19	53.12	53.77	50.63			À	0~20		DING DI B.N. CO	0 1	X	Verified By Expert Qty Surveyor/CSE H.K. Mandal/Rajan Shrestha	
Metropo RUDP/I			e Size in m	89.41	88.73	88.81	89.72	80.02	91.34	90.72	89.30				85~100		BUILI		D	Expert C H.K. Mar	
Biratnagar Metropolitan City Contract No:- RUDP/ICB/BRT-02 Sheet of Monthly Test Report of 20			"	100.00	100.00	100.00	100.00	100.00	100.00	100.00	~100.00				100		AL	186		By nager hakur	
Biratnagar Metropolitan City Contract No:- RUDP/ICB/BRT-02 Summary Sheet of Monthly Test Report of 20mm Agg.			Source of Sample	Chisang Khola				Spec. Limit:		ZHONGHENG CONSTRUCTION GROUP INTERNATIONAL ENGINEERING CO. LTD	0	M	Submitted By Contract Manager Rabindra K. Thakur								
			Location of	TSLIOF	R-7	R4	R-4	R-6(T3L10)	T3L22	R-3	T3L22 ·					Contractor	DNSTRUCTION GROUP I				
			Date of Testing	. 15-May-20	19-May-20	20-May-20	21-May-20	23-May-20	23-May-20	24-May-20	25-May-20					Ö	CONSTRUC	OVALUD. St ZHOTON			
			Lab.Ref no.	RUDP-CA-569	RUDP-CA-570	RUDP-CA-571	RUDP-CA-572	RUDP-CA-574	RUDP-CA-575	RUDP-CA-576	RUDP-CA-577 +				,		ZHONGHENG	:	1 H	Checked By Engineer Dhirendra Yadav	
3/3/8			S.n.	-	2	+	4 4	+		∞	6						7	,	j	Dhire C	



	May	2020		ays Remarks	1					7.0				VITH B.N. TS (P) LTD,			Approved By Team Leader Giresh Chand	
			Strength N/mm²	28 Days		\					>43			FURE V	4	9	Appro Team Giresh	
	th.		Stren	3 days	26.53)		*		>23			NT VEN	2			
	Month	Year	Testing	28 Days	4-Jun-20					A.w.			ltant	ETE IM JOH ENCINEERS DU, MEPAL	IS J	* Birzinanai *		
			Date of Testing	3 Days	10-May-20				(8)				Consultant	BUILDING BESIGN AUTHORITY (B) LEB IN JOINT VENTURE WITH B.N. CONSULTANCY PVT. LTD AND PUBLICANGINEERS & ARCHITECTS (P) LTD, KATHMANDU, MRPAL	103/18	* Bired		
City RT-02 EST			Date of	Casting	7-May-20									ESIGN AUTI Y PVT. LTD			y vor/CSE Shrestha	
politan //ICB/B] :EMENT T			Fineness	(%)	2.10		4			391	<10			ULTANC	00	San Onoly	Expert Qty Surveyor/CSE H.K. Mandal/Rajan Shrestha	
:- Metro :- RUDI SHEET OF			Soundnes	s(mm)s	2.79					Alle	<10.			CONS		The state of the	Expert H.K. Ma	
Biratnagar Metropolitan City Contract No:- RUDP/ICB/BRT-02 SUMMARY SHEET OF CEMENT TEST				inal (min)	265.00						Max-600			AL .				
a O			Consistancy & Setting Time	Initial(Min)	102.00						Min-30			SRNATION		2	d By Inager Thakur	
			Consistance	Normal Cons.(%) Initial(Min) Final (min)	31.20								or	GROUP INTI		N	Submitted By Contract Manager Rabindra Kr. Thakur	
	The second second			letsing Date	6-May-20					400	Sp.Limit:		Contractor	NSTRUCTION-GROUP IN ENGINEERING CO. LTD	TIB. * ZHOWA			
				S.N. Ret.no Type of cement	Ambe hi-tech				*		Sp.L			ZHONGEEMG CONSTRUCTION-GROUP INTERNATIONAL ENGINEERING CO. LTD			ed By neer ra yadav	
			Lab	Ker.no	89						-	Comments:-		ZHON		#	Checked By Engineer Dhirendra yadav	



ANNEX-4: SOCIAL& ENVIRONMENT SAFEGUARD

Monitoring Formats – May 2020



<u>Environmental Monitoring Format</u> 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: March 2019

Checklist

SN	Activity	Description/Present Status (Compliance/Partially Compliance/Non Compliance	Remarks/ Corrective actions for Non-Compliance
1.1	Training Health, Safety and EMP trainings and awareness	Yes	
1.2	Others awareness and skill trainings	Yes,for Covid-19	
2 2.1	Occupational health and safety 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	ALC: N
3	Campsite management	Koshi	
3.1	Location	project,pichada,Shanti	F. C. S.
3.2	First aid facilities available at camp and worksites	Chowk, Rani	
3.3	Drinking water supply and sanitation facilities/ pit latrines	Yes	
3.4	Waste Disposal and Management facilities	Tap water/ Hand Pump	
3.5	Type of fuel used for cooking	Yes L.P.G	
4	Spoil and Construction material Management		
4.1	Cut and fill balance maintained or not, Reuse of spoil materials	Cut & Fill balance maintained	in (P) Les
4.2	Use of safe spoil disposal locations	Not Applicable	Estho Ba
4.3	Disturbance to Pedestrian and traffic	No any disturbance to	18/ OP/E



200000	movement	pedestrians & traffic	
4.4	Use of private land and agreement with	movement	
-	land owners	Yes	the state of
5	Air, Noise and Water Pollution	Water sprinkled by	
5.1	Dust emission and Noise pollution sites	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	
	Crusher plant and Asphalt plant operation restoration	Asphalt Plant	
6.2			
'	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		
9	Sites for cultural and religious values	Not Applicable	
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 12.1	Employment to local people 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	









REGIONAL URBAN DEVELOPMENT PROJECT (RUDP)

Social Safeguard Monitoring

Status of Key Social Issues Compliance

Subproject Road:-RUDP/ICB/BRT/02

Month/Year:- May-2020

Name of Contractor:- zhongheng construction group

INTERNATIONAL ENGINEERING CO. LTD, Beijing China

Contract Package:-RUDP/ICB/02

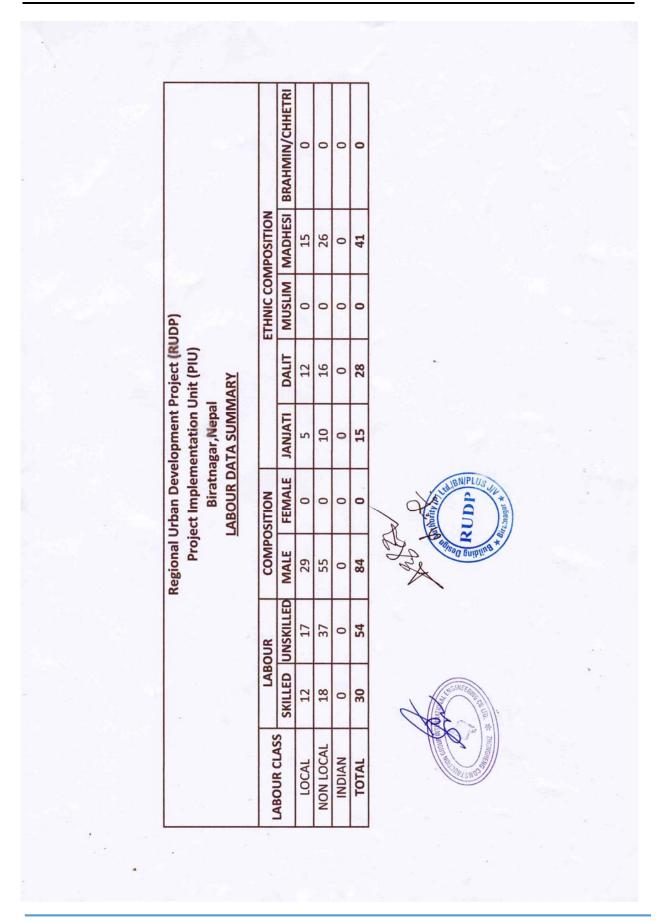
S.N.	Key Social Issues	Full Compli ance Status	Partial Compliance Status	None Compliance Status	Implementing Agency	Note of Agency	Deadline
1	Availability of Drinking Water Services	· V					4
2	Availability of Toilet Facility in campsite	1					17
3 .	Legal Source of fuel wood use			1			
4	Legal document of wood source			1	41.		
5	Use of safety accessories	1					Text 1
6	Availability of first aid facility	1					
7	Basic wage rate to construction workers	. ✓	7-345				
8	Equal wage rate to male and female works	T T	✓				
9	Compensation of temporarily occupied land	1				:	
10	Compensation of temporarily occupied buildings	1					
11.	Legal document of temporarily occupied assets	1	h ·				
12	Non use of child Labour in construction activities	1		E8 \$			



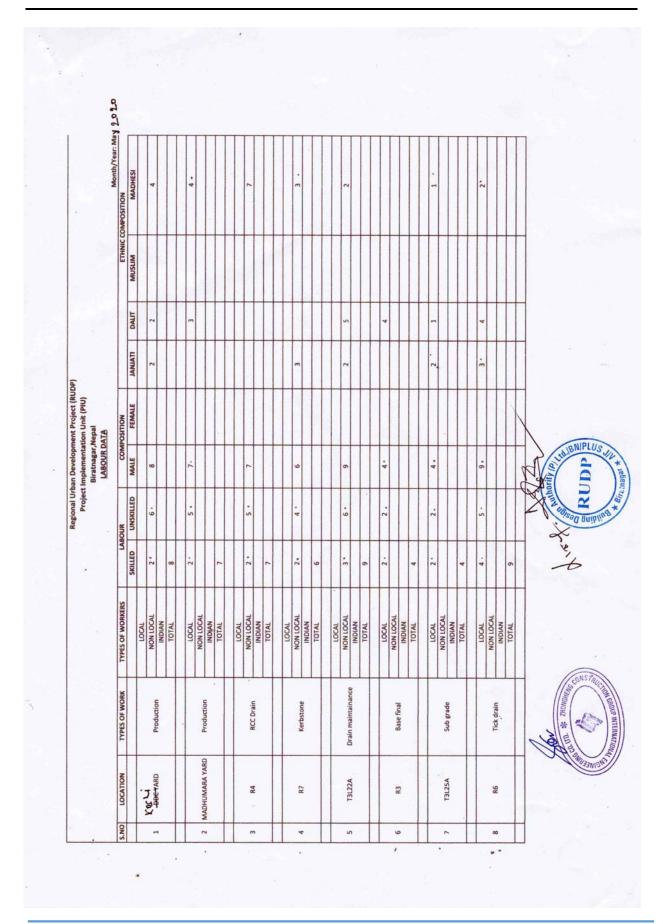


Monitored by:-

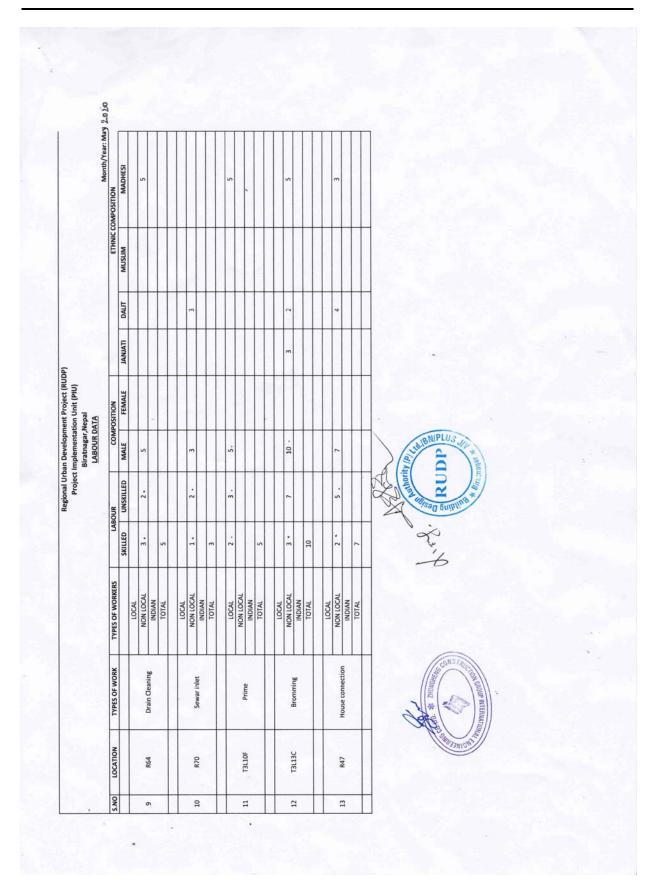












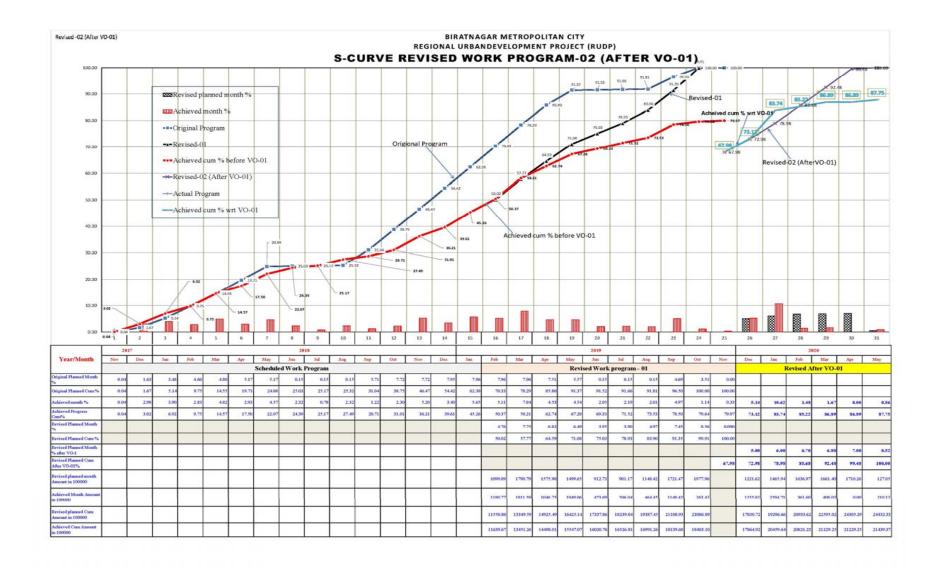


ANNEX-5: S-Curve

ATTACHED - May 2020

As far as Extension of Time (EOT) is concerned, DSC has recommended up to 10th January 2021 but approval has been received up to 31st July 2020 from the concerned authorities (ADB / PCO). The contractor disagreed on it and retained on their old **TIME CLAIM**. DSC asked for the revised S – Curve and resource plan accordingly to run the project smoothly.







Annex-6: Master Plan of RUDP Project



