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



March 2019

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. Sub Project 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									
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									
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	1 st November 2019									
Contract Amount including PS and VAT	NRs. 2,611,092,249.63									
Progress										
Road Rehabilitation (Asphalt)	38.69%									
Sewer Line	73.76%									
Storm Drain	97.44%									
Road Side Drain	90.96%									



General Features									
Integrated Solid Waste Management (ISWM) Design	Inception Report as well as Stakeholder's Analysis, Communication Strategy and Consultation Plan for Integrated Solid Waste Management (ISWM) has already been submitted. Due to Socio Environment Problem, Progress of Integrated Solid Waste Management (ISWM) design has been hindered.								
Physical Progress up to date	With respect to Revised Work Program-01: Planned: 57.77%, Actual: 58.21%; Lead(+) or Lag(-) by (+) 0.44%								
Financial Progress up to date	In Percentage: 39.99%, In Figure: NRs. 1,044,201,086.39 (including VAT and PS) IPC – 7 is under perusal. In Words: NRs. One Billion Forty Four Millions Two Hundred One Thousand Eighty Six and Thirty Nine Only.								

3. SUMMARY OF PROGRESS STATUS OF ALL MAJOR COMPONENTS

S.No	Description	Unit	BoQ Quantity	I lin to Ramaining		Progress Status expressed in (%)	Remarks					
1	Sewer Line	Sewer Line										
a	HDPE/RCC	m	20,082.00	14,812.70	5,269.30	73.76%						
ь	Manhole	No.	685.00	485.00	200.00	70.80%						
С	Sewer Inlet	No.	1,010.00	470.00	540.00	46.53%						
d	House Connection	No.	3,784.00	984.00	2,800.00	26.00%						
2	Storm Water Dra	in										
a	RCC Drain	m	652.80	570.00	15.00	97.44%	Revised Length =585m					
b	Piles	riles No.		138.00	(6.00)	100.00%	Exceeded					



S.No	Description	Unit	BoQ Quantity	Progress up to date	Remaining	Progress Status expressed in (%)	Remarks
3	Road						
a	Subgrade	m	73,860.00	34,243.71	39,616.29	46.36%	
b	Subbase	m	73,860.00	33,943.71	39,916.29	45.96%	
c	Base	m	73,860.00	31,666.72	42,193.28	42.87%	
d	Prime	m	73,860.00	28,578.62	45,281.38	38.69%	
e	Asphalt	m	73,860.00	28,578.62	45,281.38	38.69%	
4	Road Side Drain	m	26,050.00	23,696.19	2,353.81	90.96%	

3.1. SUB PROJECT COMPONENTS

3.1.1. SEWER LINES

Trunk Line T1 & T2 was already completed in STIUEIP (Secondary Town Integrated Urban Environmental Improvement Project) and remaining part of sewer lines in T4 completed and T3 have been identified and necessary survey and construction works are in progress. T3 Trunk along with the secondary lines are in progress, etc.



Table 1: PROPOSED SEWER LINES

S. No.	Description	Unit	Original Quantity
1	Sewerage Pipe Supply and Installation	m	20,082.00
	Reinforced Concrete Pipe laying and jointing		2241.00
	Line T2 (Secondary)	m	206.00
	Line T3 (Trunk)	m	1905.00
	Line T4 (Trunk)	m	130.00
	HDPE laying and jointing	m	17,841.00
	Line T1 (Secondary)	m	1,825.00
	Line T2 (Secondary)	m	3,927.00
	Line T3 (Secondary)	m	9,997.00
	Line T4 (Secondary)	m	2,092.00
2	Manhole (Brick / RCC)	no.	685.00
3	Sewer Inlet	no.	1,010.00
4	House Connection	no.	3,784.00
5	Reinstatement of Roads	km	73.86
6	Road side Drain	Km	26.05
7	Storm Water Drain	m	652.8

Table: - 2 PHYSICAL PROGRESS IN SEWER LINES till date

		Boo	Q	Up to Pr	e Month	This	month	Total to	date	
SN	Description	Length (m)	Manhole (Nos.)	Progress %						
Hume	Hume Pipe:									
1	Hume pipe (T2)	206.00	6.00	205.00	6.00	-	-	205.00	6.00	
2	Hume pipe (T3)	1,905.00	58.00	292.00	6.00	220.00	9.00	512.00	15.00	
3	Hume Pipe (T4)	130.00	4.00	326.00	11.00	ı	-	326.00	11.00	
Subtot	ral in (m)	2,241.00	68.00	823.00	23.00	220.00	9.00	1,043.00	32.00	
HDPE	Pipe:									
1	HDPE (T1)	1,825.00	57.00	1,743.20	54.00			1,743.20	54.00	
2	HDPE (T2)	3,927.00	147.00	2,996.00	113.00			2,996.00	113.00	
3	HDPE (T3)	9,997.00	316.00	7,038.50	231.00			7,038.50	231.00	
4	HDPE (T4)	2,092.00	68.00	1,590.00	43.00	402.00	12.00	1,992.00	55.00	
Subtot	ral in (m)	17,841.00	588.00	13,367.70	441.00	402.00	12.00	13,769.70	453.00	



SN	Description	BoQ		Up to Pre Month		This month		Total to date		
		Length (m)	Manhole (Nos.)	Length (m)	Manhole (Nos.)	Length (m)	Manhole (Nos.)	Length (m)	Manhole (Nos.)	Progress %
Total		20,082.00	656.00	14,190.70	464.00	622.00	21.00	14,812.70	485.00	73.76%

SN	Description	BoQ (Nos.)	Up to Pre Month	This month	Total to date	Progress %	
1	Sewer inlet	1,010.00	380.00	90.00	470.00	46.53	
2	House connection	3,784.00	790.00	94.00	984.00	26.00	



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 stopped due to monsoon. The detail of the progress is shown in the table:

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

	Name of Drain		L	ength in n	1		- T	W	ork C	omplete	ed	Length	
S		Origin al	Revise	Prog	ress	Cum	Type of	Brick		RCC		of Covered	Remarks
N			d	Previo us	This Month	ulativ e	Drain	Drain	m	m ³	m	m^3	Drain in m
1	CN2-CN3 (Chyangh Baari Nala)	652.89	585	570	0	570	RCC, closed			570		570	
2	CN2-CN3 (Chyangh Baari Nala)	132 nos piles	138	138	0	138 nos.							Piling works 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 73.86 km. Some of the roads of the project has been completed and some of them are in the process of being upgraded and the summary is presented below.

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

		Name of Road		I	ength in m				Work Con	npleted			S
CNI	Road Number				Progress			Sub-base	Base	Asphalt	RCC	Paint	ark
SN			Original	Revised	Previous	This Month	Total	m	m	m	m	m	Remarks
1	R42	Bhagwati Marg	218.00	218.00	218.00		218.00	218.00	218.00	123.00			
2	R5	College Road	970.00	970.00	650.00		650.00	650.00	650.00	599.20			
3	B2	Gauri Shankar Marg	2,777.83	2,777.83	2,152.00		2,152.00	2,152.00	2,152.00	2,152.00	210.00		
4	R65	Satghumti Marg	282.00	320.00	320.00		320.00	320.00	320.00				
5	R107		173.00	215.00	215.00		215.00	215.00	215.00				
6	R107 a		50.00	50.00	50.00		50.00	50.00	50.00				
7	R104	VIP Marg	273.00	273.00	273.00		273.00	273.00	273.00	273.00			
8	R	Madhumara Marg	600.00	600.00	600.00		600.00	600.00	600.00	582.00			
9	B1	Kanchan Marg	1,172.94	1,173.00	1,173.00		1,173.00	1,173.00	1,106.00	1,106.00		1,106.00	
10	R21	Pratibha Marg	1,320.00	1,320.00	1,330.00		1,330.00	1,330.00	1,330.00	1,330.00		600.00	
11	В3	Keshaliya Marg	1,574.00	1,574.00	1,574.00		1,574.00	1,574.00	1,574.00	1,574.00			
12	S13		1,617.00	1,617.00	1,417.00		1,417.00	1,417.00	1,417.00	1,417.00			



				I	Length in m				Work Con	npleted			70
CNI	Road	Name of			Prog	ress		Sub-base	Base	Asphalt	RCC	Paint	arks
SN	Number	Road	Original	Revised	Previous	This Month	Total	m	m	m	m	m	Remarks
13	R12	Kanchha Dai Marg	1,192.00		1,297.00		1,297.00	1,297.00	1,297.00	897.00			
14	Rani site	Rani	4,023.00	4,023.00	2,315.00		2,315.00	2,315.00	1,702.00	1,702.00			
15	R16	Satya Marg	604.00	604.00	604.00		604.00	604.00	604.00	542.10			
16	R26	Pasang Marg	617.00	654.00	654.00		654.00	654.00	654.00	215.00			
17	R28	Pustakalaya Marg	635.00	635.00	635.00		635.00	635.00	635.00	339.20			
18	R27	Peepal Marg	810.00	810.00	580.00		580.00	580.00	580.00	400.00			
19	R25	Devi Marg	599.00	580.00	580.00		580.00	580.00	580.00	561.70			
20	R24	Prabhat Marg	384.41	380.00	380.00	138.15	518.15	518.15	518.15	518.15			
21	R37	Banglamukh i Marg	420.00	477.00	477.00		477.00	477.00	477.00	477.00			
22	R7	Manakaman a Marg	814.00	814.00	542.00		542.00	542.00	542.00	242.00			
23	R30	Shanti Marg	212.00	212.00	123.10		123.10	123.10	123.10	123.10			
24	R9	Fadindra Marg	123.00	123.00	119.00		119.00	119.00	119.00	119.00			
25	S11	Samrat Marg	660.00	660.00	660.00		660.00	660.00	504.60	504.60		504.60	
26	R22	Amar Marga	373.10	367.65	367.65		367.65	367.65	367.65	367.65			



				I	Length in m				Work Con	npleted			20
CAL	Road	Name of			Prog	ress		Sub-base	Base	Asphalt	RCC	Paint	ark
SN	Number	Road	Original	Revised	Previous	This Month	Total	m	m	m	m	m	Remarks
27	R29	Shanti Marg	620.00	620.00	403.00		403.00	403.00	403.00	357.70			
28	R36	Gaurav Marg	218.00	218.00	220.00		220.00	220.00	220.00	220.00			
29	R33	Tarun Marg	285.00	285.00	280.00		280.00	280.00	280.00	280.00			
30	R64	Satya Narayan Marg	121.00	121.00	121.00		121.00	121.00	121.00				
31	R8		-	225.00	225.00		225.00	225.00	225.00	225.00			
32	N36		1	190.00	190.00		190.00	190.00	186.95	186.95			
33	R188	Shakti Marg	-	120.00	120.00		120.00	120.00	120.00	120.00			
34	R2	Main Road	ı	-	650.00	435.00	1,085.00	785.00	350.00	350.00		350.00	
35	T3 Line 6A	Pandit Meghnath Marg	1	220.00	220.00		220.00	220.00	220.00	220.00			
36	T2 Line 24C	Nava Jyoti Marg	-	205.00	205.00		205.00	205.00					
37	T2 Line 24D	Nava Jyoti Marg	-	210.00	210.00		210.00	210.00					
38	R63 (DSP Road)	DSP Road	420.00	420.00	420.00		420.00	420.00	395.00	395.00			
39	R90	Shakti Marg	450.00	320.00	320.00		320.00	320.00	320.00	320.00			



				I	Length in m				Work Cor	npleted			20 0
CNI	Road	Name of			Prog	ress		Sub-base	Base	Asphalt	RCC	Paint	ark
SN	Number	Road	Original	Revised	Previous	This Month	Total	m	m	m	m	m	Remarks
40	R77	Arniko Marg	80.00	80.00	80.00		80.00	80.00	80.00	80.00			
41	R76	Mitra Marg	270.00	270.00	270.00		270.00	270.00	270.00	270.00			
42	R183	Nava Jyoti Marg	240.00	240.00	240.00		240.00	240.00	220.00	220.00			
43	T1 L16B	Xenial Front	210.00	210.00	210.00		210.00	210.00	205.00	205.00			
44	T1L16A	Xenial South	140.00		180.00		180.00	180.00	180.00	180.00			
45	R114	Dharanidhar Marg	560.00	560.00	560.00		560.00	560.00	560.00	560.00		560.00	
46	R113	Kavi Lekh Marg	740.00	740.00	740.00		740.00	740.00	740.00	740.00			
47	R5a		370.00	370.00	370.00		370.00	370.00	370.00	370.00			
48	Rani site B		600.00	520.00	520.00		520.00	520.00	520.00	520.00			
49	R3	Dharamban Marg	-	2,230.00	2,233.00		2,233.00	2,233.00	2,150.30	2,150.30		2,080.30	
50	R78	Sombare - Highway	92.00	92.00	92.00		92.00	92.00	92.00	92.00			
51	R84	West of school	673.00	235.00	330.00		330.00	330.00	236.00	236.00			
52	R85	Machha Line	153.00		160.00		160.00	160.00	160.00	160.00			



				I	Length in m				Work Con	npleted			
~~.	Road	Name of			Prog	ress		Sub-base	Base	Asphalt	RCC	Paint	ark
SN	Number	Road	Original	Revised	Previous	This Month	Total	m	m	m	m	m	Remarks
53	R87	Mahabir Chowk	150.00	148.00	148.00		148.00	148.00	110.00	110.00			
54	R86	Petrol pump side -R12			293.00		293.00	293.00	293.00	293.00			
55	R11	R18/R86	281.00	281.00	281.00		281.00	281.00	205.00	205.00			
56	N3	Jatuwa	120.00	117.00	117.00		117.00	117.00					
57	N4	Jatuwa	170.00	168.00	168.00		168.00	168.00	168.00	60.00			
58	R10	Ram Marga	1,092.00	1,092.00	292.00		292.00	292.00	292.00	292.00			
59	T2L26F	APF	61.50	61.50	55.00		55.00	55.00					
60	T2L27		80.00	80.00	80.00		80.00	80.00	80.00	80.00			
61	R122		265.55	265.55	265.55		265.55	265.55	265.55	265.55			
62	N9		220.42	220.42	220.42		220.42	220.42	220.42	220.42			
63	R17		610.06	610.06	365.00		365.00	365.00	365.00	365.00			
64	R18		465.78	465.78	370.00		370.00	370.00	370.00				



				I	Length in m				Work Con	npleted			S
CNI	Road	Name of			Prog	ress		Sub-base	Base	Asphalt	RCC	Paint	ark
SN	Number	Road	Original	Revised	Previous	This Month	Total	m	m	m	m	m	Remarks
65	N2		75.84	75.84	75.84		75.84	75.84					
66	T3L6	Moti marga			170.00		170.00	170.00	170.00	170.00			
67	T3L6A	Golchha Marga			220.00		220.00	220.00	220.00	220.00			
68	T3L23	Madhumara road			300.00		300.00	300.00	300.00	300.00			
69	R45	Bata road			295.00		295.00	295.00	295.00	295.00			
70	T3L21				400.00		400.00	400.00	400.00	400.00			
71	N5				70.00		70.00	70.00	70.00	70.00			
72	T3L39					400.00	400.00	400.00	400.00	400.00			
73	T3L39A					130.00	130.00	130.00	130.00	130.00			
74	T3L39B					80.00	80.00	80.00	80.00	80.00			
	Total		32,328.43	33,733.63	33,060.56	1,183.15	34,243.71		31,666.72		210.00	5,200.90	



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

				Cate	egory		I	ength in r	n		Foo	tpath	S
SN	Road	Name of Road	Type*					Progr	ress		100	tput	Remarks
	Number	Roau		<3m	>3m	Original	Revised	Previous	This Month	Cumulative	m	m^2	Rei
1	B2	Gauri Shankar Marg	Precast block			2,777.83	2,777.83	1,700.00	-	1,700.00	1,700.00	3,888.96	
2	S11	Bhatta Chowk to Sankhar Chowk	Precast block			900.00	900.00	300.00	-	300.00	300.00	270.00	
3	B3 (3)	Keshaliya Road	Precast block					-	500.00	500.00	500.00	1,200.00	
4	R16	Jatuwa	Precast block					-	400.00	400.00	400.00	440.00	
5	R21		Precast block					-	230.00	230.00	230.00	230.00	

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

SN	Description	Unit	Proposed	Total Up to Previous Month	This Month	Total Up to this Month	Progress
1	Subgrade	m	73,860.00	28,454.25	5,789.46	34,243.71	46.36%
2	Sub Base	m	73,860.00	26,386.70	7,557.01	33,943.71	45.96%
3	Base	m	73,860.00	18,398.10	13,268.62	31,666.72	42.87%
4	Prime/Tack	m	73,860.00	15,167.45	13,411.17	28,578.62	38.69%
5	Asphalt	m	73,860.00	14,167.45	14,411.17	28,578.62	38.69%
6	Paint	m	73,860.00	500.00	4,700.90	5,200.90	7.04%

3.1.4. ROAD SIDE DRAIN

Most of the roads under this project for upgrading is without drain or existing drain in poor condition. The project has provisioned drain at both sides or one side as per the 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.

					Length in m	1		Work Con	npleted	S
SN	Road	Name of			Prog	ress		Brick	RCC	lark
DI (Number	Road	Original	Revised	Previous	This Month	Total	m	m	Remarks
1	B1	Kanchan Marg	-	-	90.00		90.00	90.00		
2	R29	Shanti Marg	270.00		256.52		256.52	256.52		
3	N36				185.88		185.88	185.88		
4	R8		370.00		219.83		219.83	219.83		
5	R7	Devi Marg and Pipal Marg	155.00	155.00	89.58		89.58	89.58		
6	R63	DSP Road	418.79		418.79		418.79	418.79		
7	R9	Baglamukhi path	120.00	103.20	103.20		103.20	103.20		
8	S13	Udaya Marga	-	158.10	158.10		158.10	158.10		
9	N33		-	70.00	70.00		70.00	70.00		
10	R28	Pustakalaya Marg	340.00	278.00	278.00		278.00	278.00		
11	R90	Shakti Marg	320.00		313.25		313.25	313.25		
12	R114	Dharanidhar Marg	-	312.33	312.33		312.33	312.33		
13	R11	Om Shiv Marg	-		200.17		200.17	200.17		
14	R18		-	382.50	381.50		381.50	381.50		
15	R17		-		75.00		75.00	75.00		
16	R113	Kavi Lekhnath Marg	-	312.45	72.45		72.45	72.45		
17	R77	Arniko Marg	97.00		80.00		80.00	80.00		
18	R76	Mitra Marg	272.00	275.00	170.00	100.00	270.00	270.00		
19	N9	Devi Marga	-		22.70		22.70	22.70		
20	N4		-	170.00	146.38		146.38	146.38		
21	R33	Tarun Marg	-	265.00	264.48		264.48	264.48		
22	R36	Gaurav Marg	218.00		216.45		216.45	216.45		

					Length in n	1		Work Cor	npleted	70
SN	Road	Name of			Prog	ress		Brick	RCC	Remarks
511	Number	Road	Original	Revised	Previous	This Month	Total	m	m	Rem
23	R86	Janpath Marg	215.00		187.55		187.55	187.55		
24	R183	Nava Jyoti Marg	242.00		211.05		211.05	211.05		
25	R7a		77.81		65.00		65.00	65.00		
26	Rani site	Rani B	-	650.00	530.00		530.00	530.00		
27	Rani site	Rani A	-	300.00	270.00		270.00	270.00		
28	N3		-		110.00		110.00	110.00		
29	N5		-		65.00		65.00	65.00		
30	R21	Binayak Marga	-	390.00	388.25		388.25	388.25		
31	R2	Main Road	2,060.00	2,060.00	1,367.50	415.00	1,782.50	1,782.50		
32	T1L16B	Xenial Front	-		205.68		205.68	205.68		
33	T1L16A	Xenial South	-	160.00	150.20		150.20	150.20		
34	R75	Tintoliya Marga	135.00	135.00	127.50		127.50	127.50		
35	R122	Amar Marga	-		250.48		250.48	250.48		
36	R18 Branch		-	30.00	30.00		30.00	30.00		
37	R7(b)(Neuro to sidhartha chowk)	Siddhartha Marga	317.00	317.00	300.00		300.00	300.00		
38	R12	Sukra Path	-		290.00		290.00	290.00		
39	R42	Jahada Marga	-		171.00		171.00	171.00		
40	R6	Shahi Marg	460.00		660.00		660.00		760.00	
41	R21(a)	DharamBadh Junction	-	160.00	80.00		80.00	80.00		
42	R78	Binayak Marga	92.00	70.00	70.00		70.00	70.00		
43	R188	Shakti Marg		120.00	115.60		115.60	115.60		
44	R40	Brahma Kumari Marga	-		150.00		150.00	150.00		
45	Rani Site C		-	100.00	97.50		97.50	97.50		
46	Ranit Site D		-	131.45	131.45		131.45	131.45		
47	T3L21	Moti Marga	380.00	380.00	360.95		360.95	360.95		



					Length in n	1		Work Con	npleted	SO
SN	Road	Name of			Prog	ress		Brick	RCC	Remarks
511	Number	Road	Original	Revised	Previous	This Month	Total	m	m	Rem
48	T3L39	Gaheli Marga	-	278.00	270.00		270.00	270.00		
49	T3 Line 39A		-	90.00	90.00		90.00	90.00		
50	T3 L39B		-	-	90.00		90.00	90.00		
51	T2L27	Bhumi Prashasan Junction	92.00	80.00	79.50		79.50	79.50		
52	T4 Line 1	Sailesh Marg	-	197.00	100.00		100.00	100.00		
53	N2				95.00		95.00	95.00		
54	T2 Line 26E	College Road	80.00	80.00	90.00		90.00	90.00		
55	T2 Line 18C	Maisthan Marga	-	105.00	102.00		102.00	102.00		
56	T2Line 18A	Makalu Marga	90.00		60.00		60.00	60.00		
57	R6 (T3L11i)		-	275.00	247.50		247.50	247.50		
58	R9(T3L11k)	Tathasthu Marga	-	200.00	180.00		180.00	180.00		
59	R45 (T3Line10D)	Dadhiram Marga	302.00	302.00	260.00		260.00	260.00		
60	R9, T2 L19	Fanindra Marga	256.00	256.00	215.00		215.00	215.00		
61	R7c (Neuro to Shanti Chowk	Siddhartha Marga	240.00		305.00		305.00	305.00		
62	R84	School Marga	673.00		613.00		613.00	613.00		
63	R85	Lekhanath Marga	162.00		150.00		150.00	150.00		
64	R87	Byas Marga	160.00		150.00		150.00	150.00		
65	Rani B (Bus park)		-	120.00	90.00		90.00	90.00		
66	R8(a)	Madhumara Marg	218.00		285.00		285.00	285.00		
67	T3L23A		263.47	263.47	100.00		100.00	100.00		
68	Rani E		85.00	85.00	85.00		85.00	85.00		
69	R102	Hamro Marg			132.50		132.50	132.50		
70	R10/R10a	Ram Marga	1,092.41		740.36		740.36	740.36		
71	N10	APF	154.48	154.48	150.00		150.00	150.00		



					Length in n	n		Work Co	mpleted	20
SN	Road	Name of			Prog	ress		Brick	RCC	Remarks
511	Number	Road	Original	Revised	Previous	This Month	Total	m	m	Rem
72	R23	Bani Marg	226.12	226.12	200.00		200.00	200.00		
73	R103	Vibuti Marga	173.00	173.00	162.50		162.50	162.50		
74	T3L6	Sahid Marga			300.00		300.00	300.00		
75	P1, T3L6A	Pandit Meghnath Marga	280.00	280.00	260.00		260.00	260.00		
76	T2 L24C & D	Hanuman Das Marga	176.93	176.93	130.00		130.00	130.00		
77	R99	APF	187.00	187.00	187.00		187.00	187.00		
78	T2 L25		409.00	409.00	150.00		150.00	150.00		
79	R20		190.00	190.00	60.00		60.00	60.00		
80	T2L24F		120.00	120.00	60.00		60.00	60.00		
81	R105		168.19	168.19	150.00		150.00	150.00		
82	R34	Prabhu Marg	151.00	151.00	158.35		158.35	158.35		
83	R35	Garima Marg	138.00	138.00	138.00		138.00	138.00		
84	R107		180.00	180.00	160.00		160.00	160.00		
85	T3L13D		80.00	80.00	70.63		70.63	70.63		
86	T3L13E		70.00	70.00	62.40		62.40	62.40		
87	T3L11E		160.00	160.00	110.00		110.00	110.00		
88	B2				76.50		76.50	76.50		
89	R78				35.00		35.00	35.00		
90	R7b				288.50		288.50	288.50		
91	T3L21A				25.00		25.00	25.00		
92	R74				96.00		96.00	96.00		
93	R46				120.00		120.00	120.00		
94	R101				160.00		160.00	160.00		
95	T3L7A				100.00		100.00	100.00		
96	T3L8				75.00		75.00	75.00		
97	R20				100.00		100.00	100.00		
98	R5				200.00		200.00	200.00		



					Length in n	1		Work Cor	npleted	S.
SN	Road	Name of			Prog	ress		Brick	RCC	Remarks
	Number	Road	Original	Revised	Previous	This Month	Total	m	m	Rer
99	R67				110.00		110.00	110.00		
100	R82				250.00		250.00	250.00		
101	T1L13A				100.00		100.00	100.00		
102	T1L14A				150.00		150.00	150.00		
103	R68				200.00		200.00	200.00		
104	T3L22A				150.00		150.00	150.00		
105	T3L22B				120.00		120.00	120.00		
106	T3L25C				130.00		130.00	130.00		
107	T3L11B				60.00		60.00	60.00		
108	T3L11M				50.00		50.00	50.00		
109	R106				70.00		70.00	70.00		
110	R41				520.00		520.00	520.00		
111	T2L19B				110.00		110.00	110.00		
112	R30				180.00		180.00	180.00		
113	T3L13C				100.00		100.00	100.00		
114	T3L13J				72.53		72.53	72.53		
115	T2L18Y				100.00		100.00	100.00		
116	T2L19P				114.38		114.38	114.38		
117	T2L19Q				126.55		126.55	126.55		
118	R9A				208.73		208.73	208.73		
119	R9B				25.00		25.00	25.00		
120	T3L7	Sahid Marga			215.00		215.00	215.00		
121	T2L18K				40.00		40.00	40.00		
122	T3L23C				30.00		30.00	30.00		
123	T2L24E	Mahabir Marga			60.00		60.00	60.00		
124	R44					125.00	125.00	125.00		
125	R110					100.00	100.00	100.00		
126	Parichaya Marga					40.00	40.00	40.00		



	Road Number	Name of Road		Work Completed		S				
SN					Prog	Progress		Brick	RCC	ark
511			Original	Revised	Previous	This Month	Total	m	m	Remarks
127	T3L25B					200.00	200.00	200.00		
128	T1L5, 5A					490.00	490.00	490.00		
129	R82					110.00	110.00	110.00		
	Total				22,116.19	1,580.00	23,696.19	23,036.19	760.00	



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 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 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 and excess construction materials are stocked at Madhumara site and at the open space at north 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 equipments store yards, contractor's equipment store yards, contractor's precast production yards. The camp should have the proper roofing system. Besides that, it should be spacious, should have proper circulation of the fresh air, should be hygienic, and should have proper electric lightening system & water supply system. It should be neat and clean.

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

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.



The numbers of toilets in each camp is also attached hereby in annex. 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 Chishyang.

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 around 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.



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 works). 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 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 which is certainly attached in Annex-4.

3.4.2. GRIEVANCE REDRESSES MECHANISM:

Although many grievances were received verbally, only 9 grievances have been registered formally which have immediately been addressed and resolved. This month, no grievances were found to be registered in written from but many grievances 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 (7 numbers) at Construction sites, thus Contractor was instructed as follow:

- i. Encourage to Local female Employment as Labor and skilled man power.
- ii. Manage separate Camp and necessary facilities for female workers to encourage of female Employment.

Camps and construction sites are regularly been monitored to find the status of working force.



3.4.4. STATUS OF SOCIAL AND ENVIRONMENTAL SAFEGUARD MEASURES

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

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

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

The implementation of Social and Environmental Safeguard measures during this month was found partially satisfactory. The contractor has conducted water quality test and the report is attached in the Annex.

3.4.5. STATUS OF RELOCATION OF SERVICES

Electric poles were relocated at Rani, Bata Road, R183, R10, Zenial East & South, T3L6, T3L6A, T3L7 and DSP Road. Similarly, relocation of water supply pipe lines was done in B1 and R39, etc.

Table – 5: Status of Labor at Site

Lohour	Labour		Composition		Ethnic composition				
Labour class	Skilled	Unskilled	Male	Female	Janjati	Dalit	Muslim	Madhesi	Brahmin/ Chhetri
Local	58	165	214	9	35	28	16	144	0
Non local	95	263	358	0	95	86	22	155	0
Indian	0	0	0	0	0	0	0	0	0
TOTAL	153	428	572	9	130	114	38	299	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	Submitted Amount(NRs)	Remarks
1	IPC 01	15 th October 2017	339,105,000.00	Mobilization Advance
2	IPC 02	2 nd April 2018	261,501,492.21	
3	IPC 03	1st July 2018	316,582,708.58	
4	IPC 04	1st October 2018	105,227,887.17	
5	IPC 05	2 nd December 2018	95,951,603.44	
6	IPC 06	3 rd January 2019	264,937,394.99	
	amount exclu	ding PA & Mobilization	1,044,201,086.39	

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.

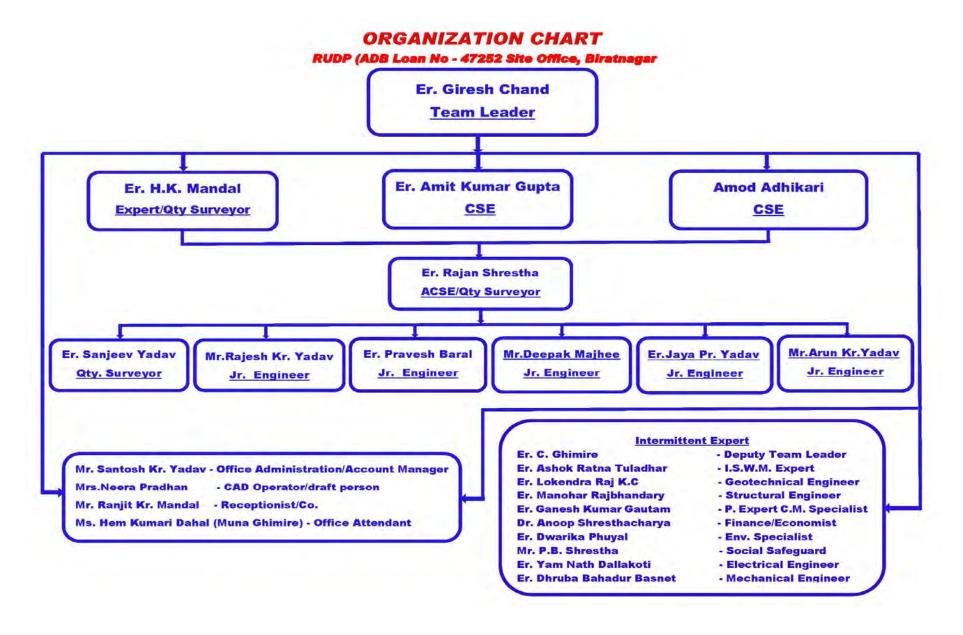


- Detailed draft final report for our puts, including to assist the PIU (Employer), status of all supervision and construction works issues, all deliverables under the contacts.
- Sub project completion report, and summary of all other reports, progress and issues under the project.



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	Giresh Chand	Team Leader	6 th Sep 2017	
2	Ashok Ratna Tuladhar	ISWM (Designer)	6 th Sep 2017	Intermittent
3	Dwarika Phuyal	Environmental Safeguard Expert	1 Nov 2017	Intermittent
4	Prakash Bhakata Shrestha	Social Safeguard Monitoring Expert	26 th dec-2017	Intermittent
5	Hare Krishna Mandal	Expert/Quantity surveyor	1st Nov 2017	
6	J.P Yadav	Construction Supervision Engineer	1st March 2018	Discontinued the service since 25 th April, 2018.
7	A.K Gupta	Construction Supervision Engineer	1st March 2018	
8	Nishant K.C.	Construction Supervision Engineer	2 nd April 2018	Discontinued the service since 1stOctober, 2018.
9	Amod Adhikari	Construction Supervision Engineer	7 th Oct 2018	
10	Rajan Shrestha	ACSE/Quantity Surveyor	7 th Nov 2017	
11	Rajesh Kumar Yadav	Junior Engineer-1	6 th Sep 2017	
12	Sanjeev Yadav	Qty Surveyor	5 th Nov 2017	
13	Santosh Kumar Yadav	Office Administration/Account Manager	6 th Sep 2017	
14	Hem Kumari Dahal (Muna Ghimire)	Office Attendant	6 th Sep 2017	
15	Ranjit Kumar Mandal	Receptionist	10 th Dec 2017	
16	Pravesh Baral	Junior Engineer-2	10 th Dec 2017	
17	J.P Yadav	Junior Engineer-3	1st March 2018	
18	Deepak Majhi	Junior Engineer-4	1st March 2018	



SN	Name	Designation	Joining date	Remarks
19	Arun Kumar Yadav	Junior Engineer-5	16 th March 2018	
20	Neera Pradhan	CAD operator/Draft Person	10 th Dec 2017	
21	Ramji Ghimire is replaced by Yubraj Poudel	Driver	10th Feb-2019	Ramji Ghimire discontinued the service since 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 two production yards for pre-cast item (Kerb stone, drain cover slab, man whole etc.) and production 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 will be tested very soon in presence of consultant TL/PIU and contractor representative.

5.2. PROGRESS ACHIEVED TILL DATE

	Target This Month			Achievement This Month		Leading		Lagging	
Month	Monthly	Accumulated	Monthly	Accumulated	Monthly	Accumulated	Monthly	Accumulated	Remarks
July-18	0.15%	25.17%	0.78%	25.18%	0.63%	0.01%		NA	Leading
August-18	0.15%	25.32%	2.32%	27.50%	2.17%	2.18%		NA	Leading
September- 18	5.71%	31.03%	1.22%	28.72%	NA	-2.31%		-2.31%	Lagging
October-18	7.72%	38.75%	2.30%	31.03%	NA	-7.72%		-7.72%	Lagging
November- 18	7.72%	46.47%	5.20%	36.22%	NA	-10.25%		-10.25%	Lagging
December- 18	7.95%	54.41%	3.40%	39.62%	NA	-14.79%		-14.79%	Lagging
January-19	7.96%	62.37%	5.65%	45.27%	NA	-17.10%		-17.10%	Lagging
February- 19	7.96%	70.33%	5.11%	50.38%	NA	-19.95%		-19.95%	Lagging
February- 19 (after Revision)	5.33%	50.03%	5.11%	50.38%	NA	0.35%		NA	Leading
March -19	7.75%	57.77%	7.84%	58.21%	NA	0.44%		NA	Leading



5.3. KEY EVENTS

The consultant has noted the following key dates for the month of March, 2019.

Table 8: KEY DATES of EVENTS / ACTIVITIES

S. No.	Date	Activities/Events	Remarks
1		Frequent visit from the employer at Day and Night shift of works.	

6. DETAILS OF PRE CAST ACTIVITIES.

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

			Physical Prog	ress till date	e		
			P	rogress			
S.N.	Description	Unit	BoQ	Up to Previous month (RM.)	This Month (RM.)	Total to Date (RM.)	Remarks
1	Precast Slab	No		45,722.00	2649.00	48,371.00	Under progress
2	Kerb Stone	Rm	147,729.68	77,293.30	0.00	77,293.30	52.32%

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

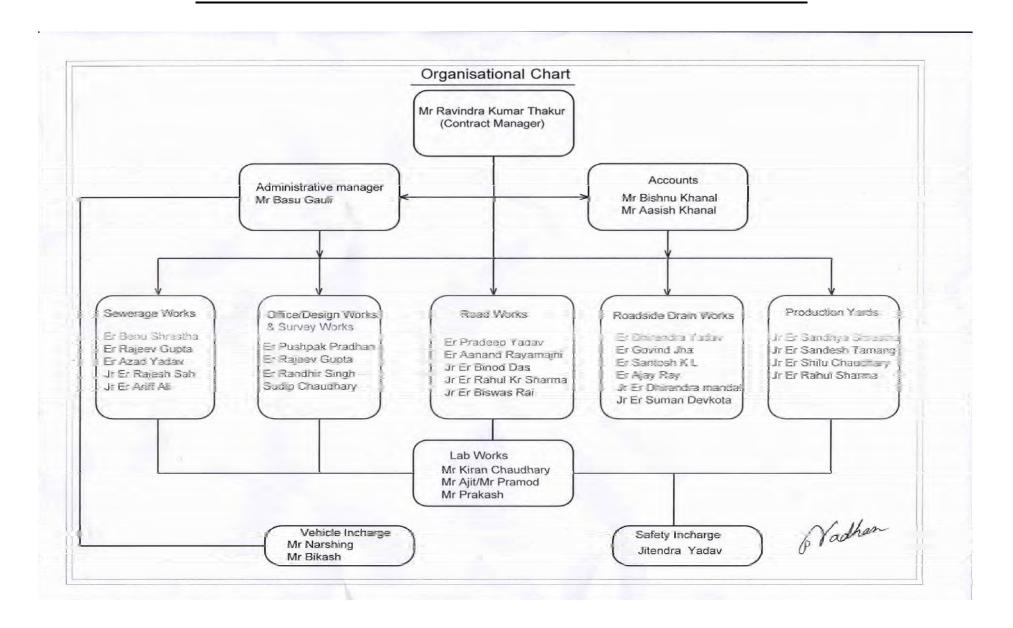
			Physical P	rogress till	date		
				Progress			
S.N.	Description	Diameter (mm)	BoQ (RM)	Up to Previous month (RM.)	This Month (RM.)	Total to Date (RM.)	Remarks
1	RCC Pipe	300	336.00	336.00	1	336.00	
2	RCC Pipe	450	681.00	681.00	1	681.00	
3	RCC Pipe	500	842.00	842.00	1	842.00	
4	RCC Pipe	600	382.00	382.00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

Table 11: PHYSICAL PROGRESS in PRODUCTION OF HDPE Pipe till date,

		j	Physical Pro	gress till da	te		
				Progr	ess		
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	2,487.20	-	2,487.20	
2	HDPE Pipe	200.00	16,656.00	16,500.00	-	16,500.00	Under process
3	HDPE Pipe	250.00	115.00	450.00	-	450.00	
	Total						

Table 12: PHYSICAL PROGRESS in PRODUCTION 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	4,800.00	ı	4,800.00	
2	UPVC Pipe	110.00	5,050.00	4,000.00	-	4,000.00	





7. CONTRACTOR'S MANPOWER

Table 13: CONTRACTOR'S KEY STAFFS till date

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	-	14	
8	Sub- Engineer	-	12	
9	Accountant	<u>-</u>	2	
10	Lab Technician	-	1	
11	Store Keeper	-	2	
12	Vehicle In charge	-	2	
13	Skilled Labors		108	
14	Unskilled Labors		212	

8. CONTRACTOR'S EQUIPMENT

Table 14: CONTRACTOR'S EQUIPMENT

S.No	Equipment Type and Characteristics	Min Number required as per Contract	ZHONGHENG CONSTRUCTION Group	Remarks
1	Excavator (200 above)	5	2	Backhoe loader-9 nos.
2	Crane (10 ton capacity)	3	-	
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	2	
7	Smooth wheeled roller 8 to 10 ton	1	1	
8	Grader	1	3	
9	Track Dozer (120 to 180 HP)	1	-	
10	Bitumen distributor (4 to 6 Kilo litre)-	1	1	
11	Water browser (minimum 5000 Litres)	3	13	
12	Chips spreader	1	-	
13	Bitumen decanter minimum 4000 Litres. (preheating container) Air compressor	2	2	
14	Excavator (200 above)	5	2	Backhoe loader-9 nos.
15	Tipping Trucks	15	25	
16	Service vehicle	2	5	
17	Survey equipment (Total station with accessories)	1	1	
18	Thedolite	2	-	
19	Levelling	5	18	
20	Mobile Generator 15-20 Kva	3	11	
21	Mixer Machine	6	10	
22	Concrete Batching Plant	1	-	
23	Concrete pump	1	-	



S.No	Equipment Type and Characteristics	Min Number required as per Contract	ZHONGHENG CONSTRUCTION Group	Remarks
24	Drain cleaner/ Nala cleaner	2	-	
25	Broomer	-	2	
26	Motor Bike	-	15	
27	Plate Compactor	-	6	
28	Water Pump	-	7	

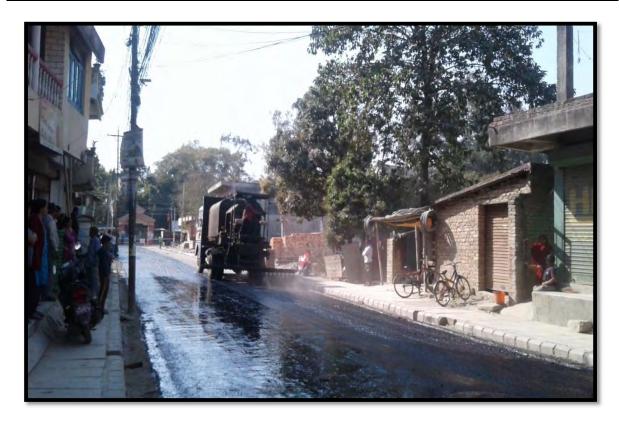
9. WORK PLAN FOR THE NEXT MONTH

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

- Detail Surveying works at various Road sections and for sewer line.
- Road works
- Road painting works.
- Precast production works at contractor's yard.
- Road Side drain works.
- Laying of Kerb Stone, cover slab and interlocking tiles.
- Sewer line, Sewer inlet and House Connection works.
- Brick Manholes for sewer line.



ANNEX-1: Photographs of March, 2019



Prime coat at R188



Asphalt work at R27





Field Density test at R63



Drain work at R2





RCC Work at Changbari Nala



Re Location of Water Supply Line at T3L10





Base work at R63



Three edge Bearing test of Hume/RCC Pipe



ANNEX-2: Minutes of Meeting March, 2019

Minutes of Meeting - RUDP, Biratnagar

MINUTES OF MEETING - 23

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

Date: 12 March 2019 Time: 3:00 PM

Venue: TL, DSC Office, Biratnagar

Attendance

Em	ployer:	
1	Mr. Bharat Kumar Nuepane	Project Manager (PM), PIU
2	Mr. Prakash Narayan Chaudhary	Deputy Project Manager (DPM), PIU
3	Mr Ghanshyam Kafley	Project Engineer (PE), PIU
Cor	ntractor:	8
1	Ravindra Kumar Thakur	CM, M/S Zhongheng Construction Group International Engineering Co. Ltd.
2	Mr Benu Shrestha	Engineer, M/S Zhongheng
3	Mr. Rajeev Gupta	Engineer, M/S Zhongheng
Cor	sultant:	
1	Mr. Giresh Chand	Team Leader (TL), DSC
2	Mr. Amit Kumar Gupta	CSE, DSC
3	Mr Hare Krishna Mandal	Quantity Surveyor, DSC

The meeting was chaired by TL, Mr. Giresh Chand and welcomed all the participants in the meeting. Following matters were discussed and decided:

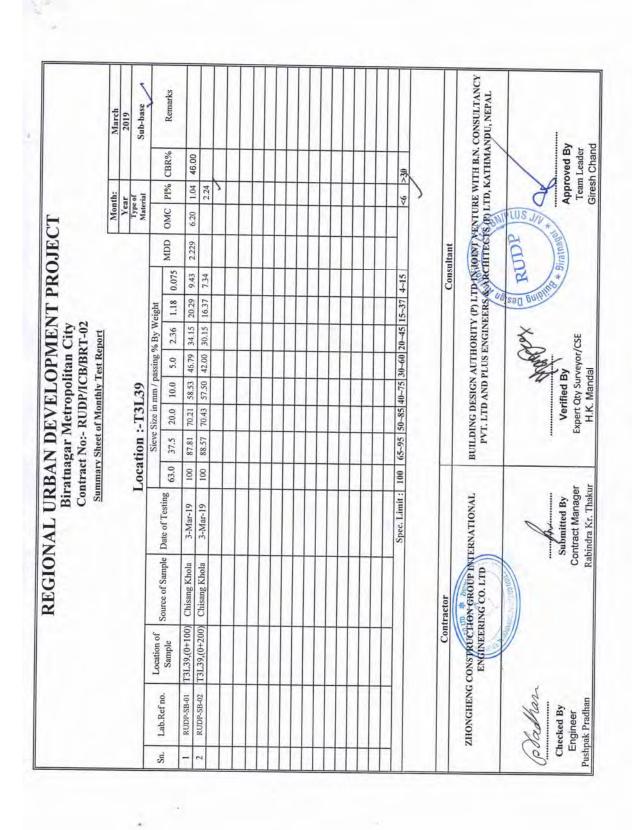
S. NO.	Minutes	Action by
1	TL, Mr Chand briefed about the present progress status of the project till the end of Feb, 2019. The progress of RUDP Project, Biratnagar has been reported as follows: Physical progress = 50.37% Financial progress = 40.00%	The
	Components wise physical progress are as below: Sewer line = 70.66% Storm water drain = 97.44% Road (Sub Grade) = 44.76% Road (Sub Base) = 44.76%	employer, contractor & consultant
	Road (Base) = 36.49% Road (Asphalt) = 27.08% Road side drain = 84.90% Page 1 of Pages 3	tenter

Action by	Minutes	S. NO.
	TL, Mr Chand emphasized on VO approval and informed that as decided earlier, under scope of additional work about 22 Km. out of 30 Km length of road side drain has been completed & remaining is under progress. Similarly, the additional Asphalt work at different location is also under construction. PM, Mr Nuepane added that the VO approval work is under	
	progress, soon after Holi festival, PIU's representatives will visit the PCO Office, Kathmandu to get clear figure on it till then he requested that proceed the work as usual without breaking the momentum of works.	
The employer contractor & consultant	TL, Mr Chand emphasized that about 87.46% (Eighty Seven and Four Six Percent) of Provisional Sum (PS) amount of Bill of Quantity (BoQ) is consumed till IPC – 6 and more works under this item need to perform like relocation of electrical poles and maintenance of existing water supply pipe lines which required more than Nepalese Rupees 50 (Fifty) Million, immediate fund allocation is required because those are interrelated to progress of each & every component's work.	2
	PM, Mr Nuepane assured that before Chaitra 15, 2075 BS, the fund allocation will be sorted out till then proceed as per requirement of scope of the works.	
The employer contractor & consultant	CM, Mr Thakur informed that still at some stretches the right of way (RoW) clearance disputes are not sorted out. PM, Mr Nuepane informed that co-ordinate with DPM, Mr Chaudhary as well as Engineer, Mr Anil Singh, and instructed them to take immediate action and sorted out those as soon as possible thus the works under project may not suffer.	3
The employer contractor & consultant	CM, Mr Thakur informed that during ongoing SAFF WOMEN's CHAMPIONSHIP 2019 event, Nepal Electricity Authority (NEA) won't provide the shutdown at any stretches to relocate the electric poles. PM, Mr Nuepane informed that he will talk to NEA in this matter and try to resolve the problem of shutdown.	4
The employer contractor & consultant	TL, Mr Chand informed that as decided earlier to place doubly reinforcement top cover slabs above road side drain having Right of Way (RoW) five and six meter, are under production and soon going to place at required area.	5

CM, Mr Thakur informed that due to delay in payments, construction works are hampering. PM, Mr Nuepane informed that before Chaitra 15, 2075 BS, the problem pertaining to payments will be sorted out. PM, Mr Nuepane informed that certain portion of Line2X toward south at Rani need to do Asphalt on demand of local stakeholders as well as to give continuation to land to cover dense inhabited area. TL, Mr Chand informed that we don't have extra quantity in BoQ to perform the above work. PM, Mr Nuepane requested to curtail some length of Line2Q (in between Line1 & Line2M and Line6 south to Line3B) and start the above stretch which is about 360m in length. Three parties agreed on it.
PM, Mr Nuepane informed that certain portion of Line2X toward south at Rani need to do Asphalt on demand of local stakeholders as well as to give continuation to land to cover dense inhabited area. TL, Mr Chand informed that we don't have extra quantity in BoQ to perform the above work. PM, Mr Nuepane requested to curtail some length of Line2Q (in between Line1 & Line2M and Line6 south to Line3B) and start the above stretch which is about 360m in length. Three parties agreed on it.
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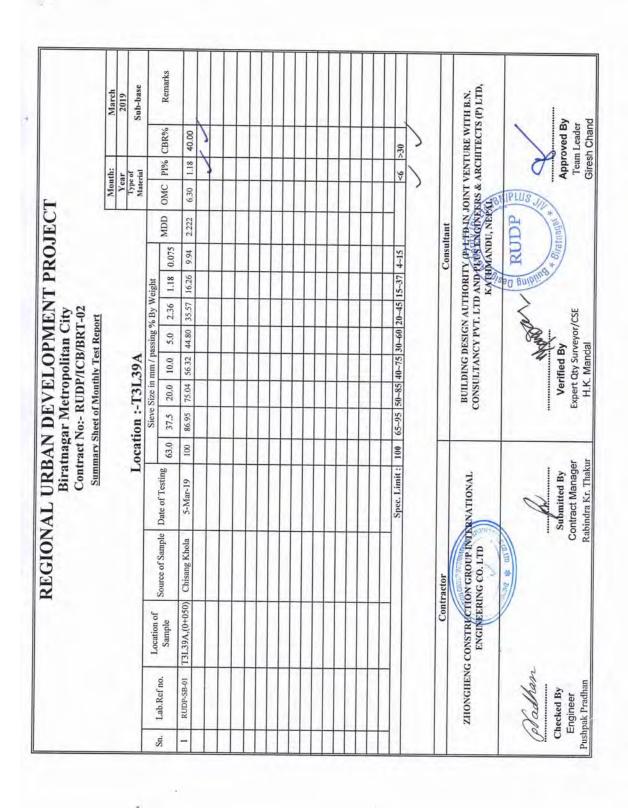


ANNEX-3: Laboratory Test Results of March, 2019 ATTACHED



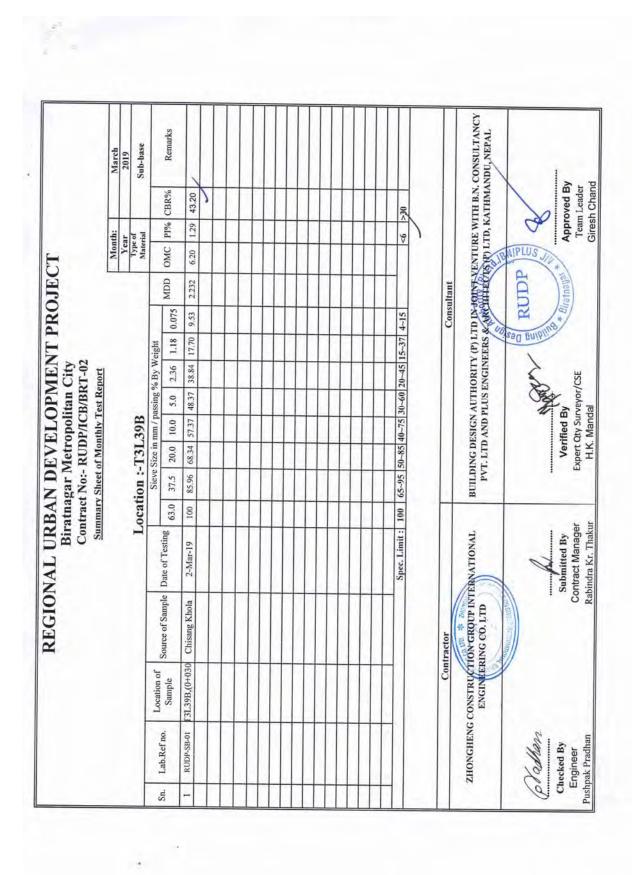
		(ontract	No:- R	etropolitar UDP/ICB/B f Field Density	RT-02				
			1-2-30				Month		March	
					32.00		Year	2019		
-			Loca	tion:-T3	3L39		Type of Material	S	ub-Base	
Sn.	Lab.Ref.no	T		Moistur	re content %		sity(gm/cc)	Com	paction %	
	1000 to 1010 t	Testing Date	1 - 18	OMC%	Field MC%	Max.Dr density	X11 (2.3232 20.00)	Compac tion	Specified %	
1	RUDP-SB-FD-1, R/S	8-Mar-19	0+090	6.20	5.81	2.229	2.144	96.19	95	
2	RUDP-SB-FD-1, R/S	8-Mar-19	0+150	6.20	4.78	2,229	2.144	96.19	95	
3	RUDP-SB-FD-1, C/L	8-Mar-19	0+200	6.20	5,95	2.229	2.187	98.10	95	
3	RUDP-SB-FD-1, R/S	8-Mar-19	0+265	6.20	5.98	2.229	2.156	96.72	95	
3	RUDP-SB-FD-1, L/S	8-Mar-19	0+300	6.20	5.98	2.229	2.152	96.83	/ 95	
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			Summar	y Sheet o	Field Density	Test					
							Month	March			
			2000	10 v Zad	10.25		Year	2019			
-			Locat	ion:-T3	L39A		pe of Material		ub-Base		
Sn.	Lab.Ref.no	Tastina Data	Chat		re content %		(gm/cc)		paction %		
5H.	Lab.Rel.lio	Testing Date	Chainage	OMC%	Field MC%	Max.Dry	Field Dry	Compac			
1	RUDP-SB-FD-1, R/S	7-Mar-19	0+050	6.30	5.81	density 2.222	density,	tion	1 %		
2	RUDP-SB-FD-1, R/S	7-Mar-19	0+160	6.30	4.78	2.222	2.144	96.49	95		
3	RUDP-SB-FD-1, L/S	7-Mar-19	0+280	6.30	4.95	2.222		96.49	95		
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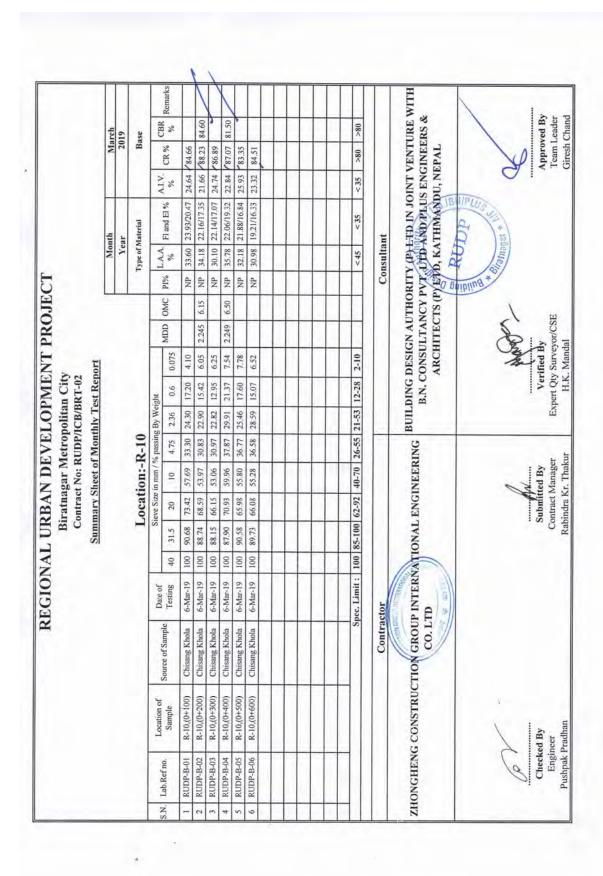






			Summar	y Sheet o	f Field Density	Test			
							Month		March
			*		v		Year		2019
-			Locat	ion:-T3	L39B re content %		Type of Material		ub-Base
Sn.	Lab.Ref.no	Testing Date	Chainaga				ty(gm/cc)		paction %
,,,,	Lab.Ref.fio	resting Date	Chamage	OMC%	Field MC%	Max.Dry density	Field Dry density,	Compac tion	Specified
1	RUDP-SB-FD-1, R/S	5-Mar-19	0+020	6.20	5.61	2.232	2.183	97.80	// 95
2	RUDP-SB-FD-1, L/S	5-Mar-19	0+050	6.20	5.95	2.232	2.194	98.30	95
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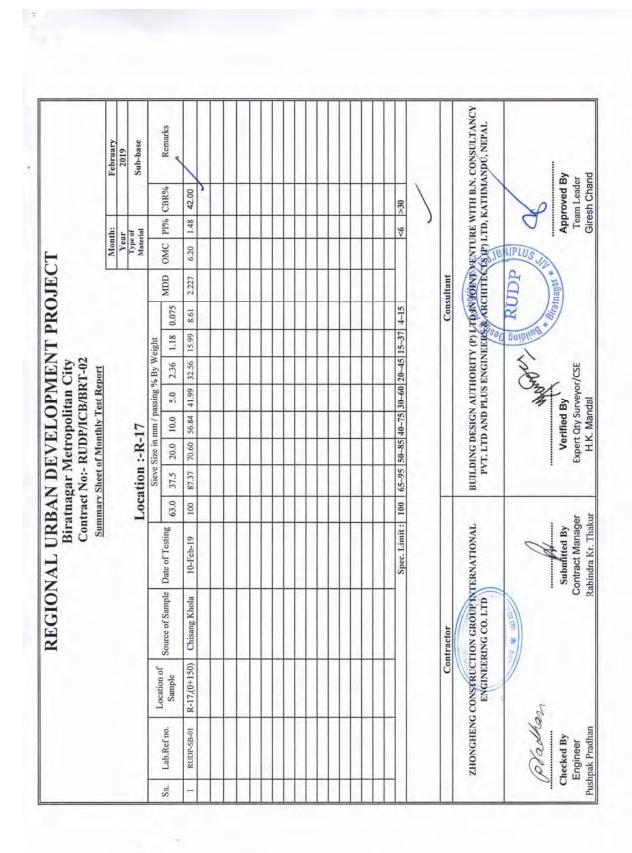






			Summa	ry Sheet o	of Field Dens	ity Test			
							Month	Mai	
				Locati	on:-R-10		Type of Material	201 Ba	
				Moisture	content %	Dens	ity(gm/cc)	Compac	
Sn.	Lab.Ref.no	Testing Date	Chainage	омс%	Field MC%	Max.Dr density		Compaction %	Specified
1	RUDP-B-FD-1, R/S	10-Mar-19	0+050	6.15	5.92	2.245	2.238	99.39	. 98
2	RUDP-B-FD-1, C/L	10-Mar-19	0+100	6.15	5.46	2.245	2.229	98.99	98
3	RUDP-B-FD-1, L/S	10-Mar-19	0+180	6.15	5.27	2.245	2.248	99.82	98
4	RUDP-B-FD-1, C/L	10-Mar-19	0+220	6.15	5.02	2.245	2.229	98.98	98
5	RUDP-B-FD-1, L/S	10-Mar-19	0+280	6.15	5,65	2.245	2.251	99.94	98
6	RUDP-B-FD-1, R/S	10-Mar-19	0+320	6.15	5.89	2.245	2.209	99.24	98
7	RUDP-B-FD-1, C/L	10-Mar-19	0+400	6.50	5.91	2.249	2.240	99.84	98
8	RUDP-B-FD-1, L/S	10-Mar-19	0+450	6.50	5.95	2.249	2.200	98.02	98
9	RUDP-B-FD-1, R/S	10-Mar-19	0+500	6.50	6.13	2.249	2.239	98.64	98
10	RUDP-B-FD-1, R/S	10-Mar-19	0+550	6.50	5.59	2.249	2,217	98.67	/ 98
11	RUDP-B-FD-1, C/L	10-Mar-19	0+580	6.50	5.82	2.249	2.226	99.27	98
12	RUDP-B-FD-1, L/S	10-Mar-19	0+620	6.50	5.27	2.249	2.204	98.30	98
13	RUDP-SB-FD-1, C/L	10-Mar-19	0+660	6.50	5.21	2.249	2.200	98.54	98
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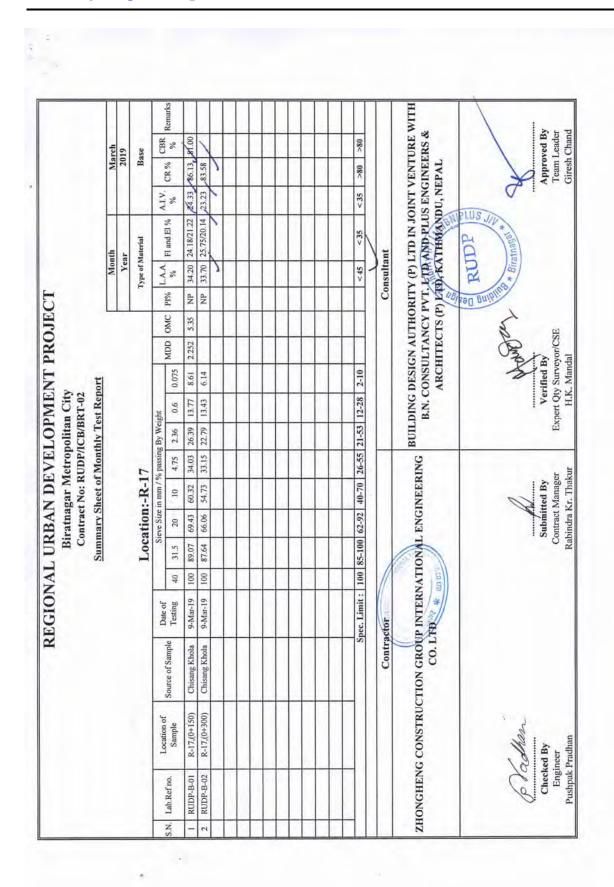






					UDP/ICB/B f Field Density				
			Summar	y Sheet of	Field Delisity	Test	Month	F	bruary
							Year		2019
			Loc	ation:-F			Type of Material	S	ub-Base
9 1	Wash Alle	Purk EV			re content %		ty(gm/cc)		paction %
Sn.	Lab.Ref.no	Testing Date	Chainage	OMC%	Field MC%	Max.Dry density	December 2	Compac tion	Specifie %
1	RUDP-SB-FD-1, R/S	12-Feb-19	0+030	6.20	5.81	2.227	2.148	96.44	95
2	RUDP-SB-FD-1, R/S	12-Feb-19	0+120	6.20	4.78	2.227	2.148	96.43	95
3	RUDP-SB-FD-1, C/L	12-Feb-19	0+180	6.20	4.95	2.227	2.191	98.39	95
4	RUDP-SB-FD-1, R/S	12-Feb-19	0+210	6.20	5.98	2.227	2.124	95.36	95
5	RUDP-SB-FD-1, C/L	12-Feb-19	0+290	6.20	5.98	2.227	2.155	96.78	95
6	RUDP-SB-FD-1, R/S	12-Feb-19	0+320	6.20	5.98	2.227	2.170	97.84	/ 95
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									7
	Contrac	tor				Cor	sultant		
	1.00	1		Drive ex-	NO DECIGNA		(r) LTD IN JO		
	ZHONGHENG CONSTR			BUILDI	N. CONSULTA	NESPYT	(P) LTD IN JO LTD AND PLUS	S ENCINE	URE WITH
1	NTERNATIONAL ENGI	NEERING CO.	LTD	Da	ARCHITE	P) LT	D, KATHMAND	U, NEPAL	2113 00
						E KL	IDP 5	3	
					-11/	Build	150		
					CAY "	* Birati	15/	1/	
1	Valhan	Λ			CKIN O	olrati	lagar *	1/	

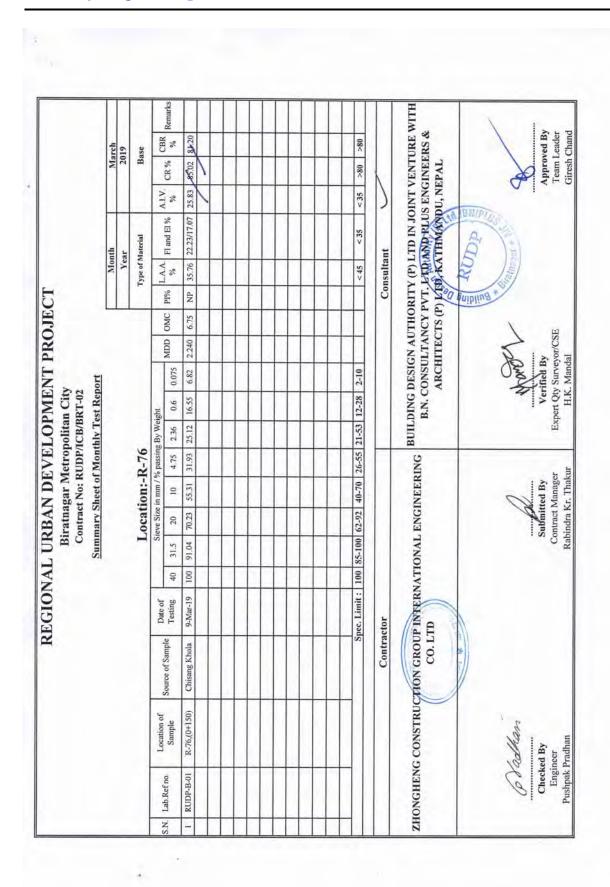






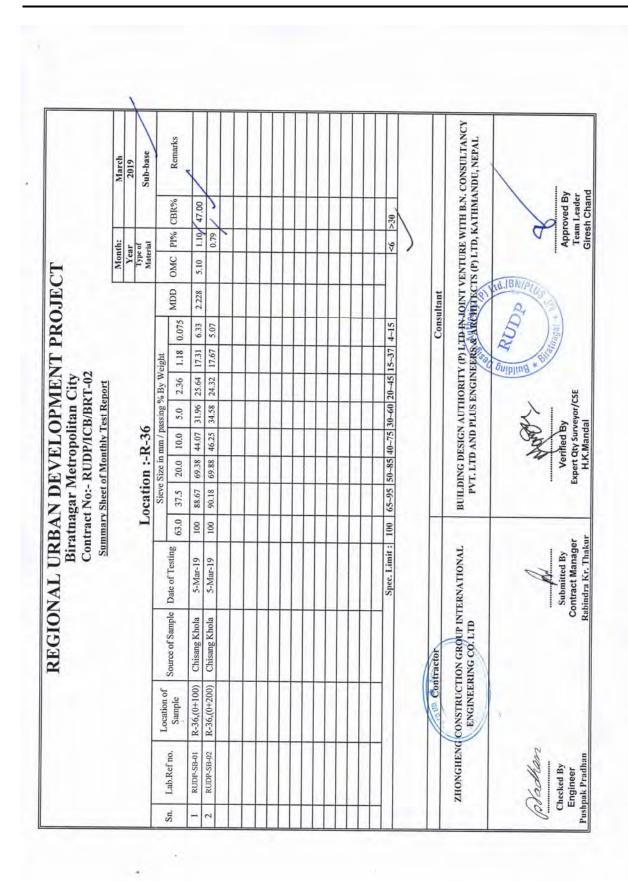
	REGIO]	Biratna	gar M	etropolita RUDP/ICB	an City	NT PRO	JECT	
			Summa	ry Sheet	of Field Dens	ity Test			
							Month		irch
				Locat	ion:-R-17		Year Type of Material		nse
					e content %	Dens	ity(gm/cc)		ction %
Sn.	Lab.Ref.no	Testing Date	Chainage	OMC%	Field MC%	Max.Dr	y Field Dry	Compaction %	Specified %
1	RUDP-B-FD-1, R/S	16-Mar-19	0+050	5.35	5.92	2.252	2.238	99.39	98
2	RUDP-B-FD-1, C/L	16-Mar-19	0+130	5.35	5.46	2.252	2.229	98.99	98
3	RUDP-B-FD-1, L/S	16-Mar-19	0+190	5.35	5.27	2.252	2.248	99.82	98
4	RUDP-B-FD-1, C/L	16-Mar-19	0+250	5.35	5.02	2.252	2.229	98.98	98
5	RUDP-B-FD-1, L/S	16-Mar-19	0+320	5.35	5.65	2.252	2.251	99.94	98
K		10 thm-17	0.520	5.55	2,00	4.434	2.231	77.54	76
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_	Control	tou					Cananitant		
	Contrac						Consultant		
	ZHONGHENG CONSTI	RUCTION GRO		CONSU	NG DESIGN A JLTANCY PV	LTD A	FAIPLTDAN I SO PLUS ENGIN THMANDU, NE RUDP	EERS & ARCI	RE WITH B.N HITECTS (P)
	Wadhan		/ 		Jano	/ jama	Biratnagat *		
	Checked By Engineer	Submitte Contract M			Surveyor/CSE			Approved B Team Leader	
	Pushpak Pradhan	Rabindra Kr			Mandal			Giresh Char	





	REGIO		Biratna Contrac	igar M t No:- F	EVELO etropolit RUDP/ICB of Field Dens	an City /BRT-0	NT PRO	JECT	
			Summa	ry Sheet	of Fleid Dens	sity Test	Month	Ma	rch
				211 0 - 7			Year	20	
_				Locat	ion:-R-76		Type of Material		ise
					e content %		ity(gm/cc)		ction %
Sn.	Lab.Ref.no	Testing Date	Chainage	OMC%	Field MC%	Max.Dr	Sir 1000 Sir	Compaction	Specified
1	DIIDD D ED 1 D/C	11 May 10	0.040			density		%	1 %
2	RUDP-B-FD-1, R/S RUDP-B-FD-1, C/L	11-Mar-19	0+040	6.75	6.65	2.240	2.216	98.94	98
3		11-Mar-19	0+090	6.75	5.82	2.240	2.239	99.98	98
4	RUDP-B-FD-1, L/S	11-Mar-19	0+160	6.75	5.27	2.240	2.238	99.92	98
4	RUDP-B-FD-1, C/L	11-Mar-19	0+220	6.75	5.41	2.240	2.232	99.65	98
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_	Contract	tor	-				Consultant		
	GCO.UTO *	245				/N	thority Y (P) LTD IN JO		2.00
1	ZHONGHENG CONSTR NTERNATIONAL ENGIN	RUCTION GRO NEERING CO.	UP LTD	CONSU	G DESIGN A LTANCY PVT	LTO ANI	Y (P) LTO IN JO D PLUS ENGIN HMANDU, NE	EERS & ARCH	E WITH B.N ITECTS (P)
	Sadhan	R		,	Parole V	Ping * Bir	atnugai	8	
	Checked By	Submitted	By		ied By			Approved By	
	Engineer	Contract Ma	nager		Surveyor/CSE			Team Leader	





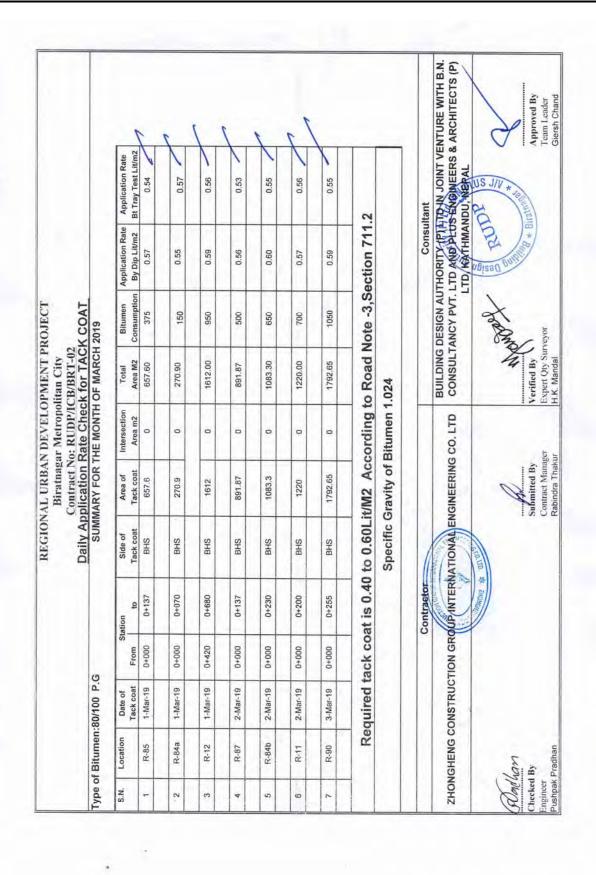


			Jummary	Sheet of	Field Density	Test	Month		
						1	Month	Ma 20	
			Loca	tion:-R	-36		Type of Material	Sub-	
	OTOTAL BILL				e content %	Dens	ity(gm/cc)	Compa	110-011
Sn.	Lab.Ref.no	Testing Date	Chainage	OMC%	Field MC%	Max.Dr density	1000 200 200 CV	Compac	Specifie
1	RUDP-SB-FD-1, L/S	7-Mar-19	0+040	5.10	5.03	2.228	2.162	97.04	95
2	RUDP-SB-FD-1, R/S	7-Mar-19	0+160	5.10	5.18	2.228	2.173	97.53	95
3	RUDP-SB-FD-1, L/S	7-Mar-19	0+180	5.10	5.06	2.228	2.156	96.77	95
4	RUDP-SB-FD-1, R/S	7-Mar-19	0+200	5.10	6.96	2.228	2.139	96.00	. 95
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Biratnagar Metropolitan City Contract No: RUDP/ICB/BRT-02 Daily Application Rate Check for TACK COAT SUMMARY FOR THE MONTH OF FEBRUARY 2019		Station Side of Area of Intersection Total Bitumen	0+000 0+360 BHS 1850.4 0 1850.40 1050	0+200 0+420 BHS 1650 0 1650.00 950	0+000 0+200 BHS 1126 0 1126.00 650	0+000 0+160 BHS 540.8 0 540.80 300	0+000 0+200 BHS 1346 0 1346.00 800	Total 3750	Required tack coat is 0.40 to 0.60Lit/M2 According to Road Note -3, Section 711.2	Specific Gravity of Bitumen 1.024	Contractor	NATIONAL ENGINEERING CO. LTD CONSULTANCY PVT. LTD AN	San San I	
iype of Bitumen:80/100 P.G	2010	Date of Tack coat	26-Feb-19	26-Feb-19	28-Feb-19	28-Feb-19	28-Feb-19		uired ta			NSTRUCT		

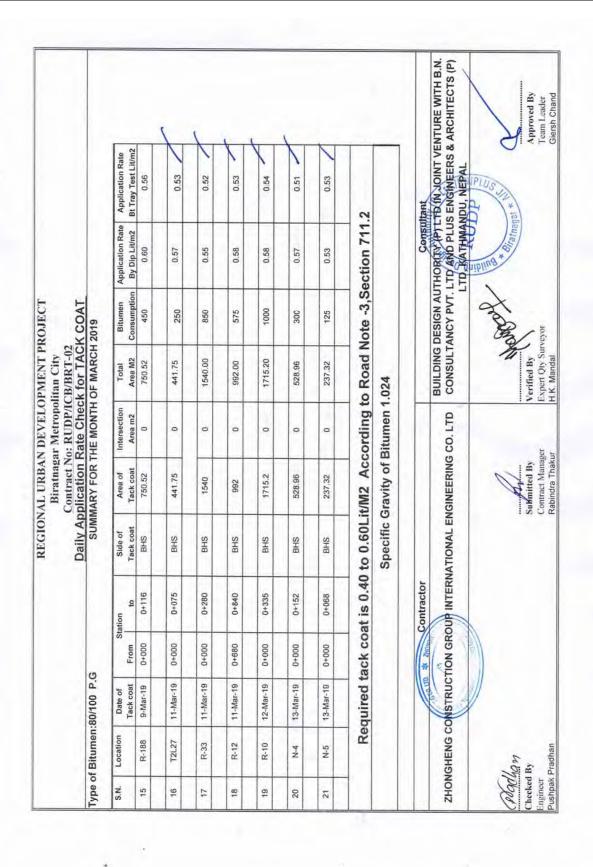








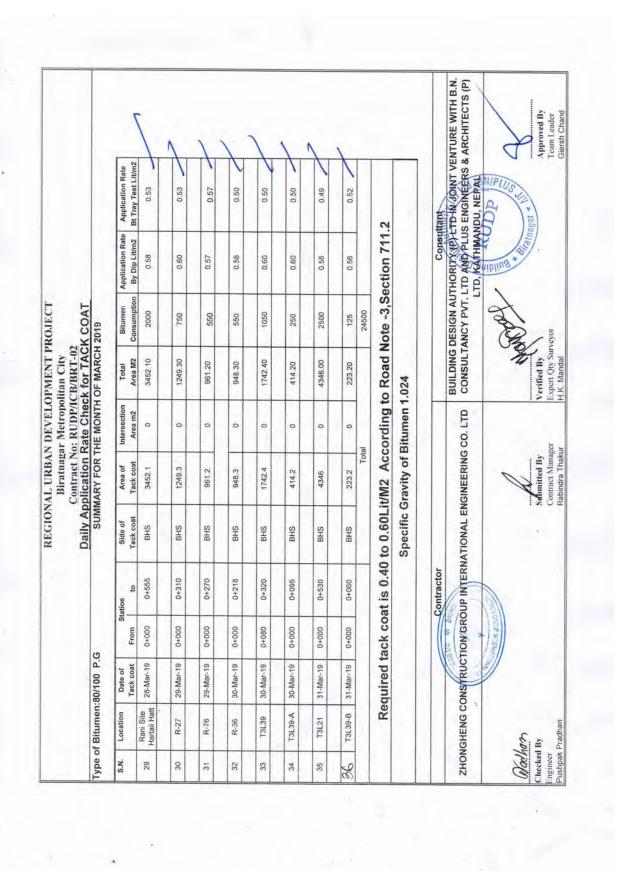






					Daily Ap	Biratnag Contract N	Biratnagar Metropolitan City Contract No: RUDP/ICB/BRT-02 Daily Application Rate Check for TACK COAT	itan City B/BRT-02 k for TAC	K COAT			
Type o	f Bitumen	ype of Bitumen:80/100 P.G	(D		SUMI	MARY FOR 1	SUMMARY FOR THE MONTH OF MARCH 2019	OF MARCH	2019			
z.	Location	Date of Tack coat	St	Station	Side of Tack coat	Area of Tack coat	Intersection Area m2	Total Area M2	Bitumen	Application Rate	Application Rate	
22	6-N	13-Mar-19	000+0	0+215	BHS	829.9	0	829.90	200	0.60	0.55	
23	T3L23	14-Mar-19	0+080	0+280	BHS	1152	0	1152.00	650	0,56	0.53	
24	R-10	16-Mar-19	0+335	089+0	BHS	1769.85	0	1769.85	1000	0.57	0.52	
25	R-21	16-Mar-19	000+0	0++208	BHS	985.92	0	985.92	920	0.56	0.54	
26	R-77	16-Mar-19	000+0	0+080	BHS	340	0	340.00	200	0.59	0.51	
27	R-17	17-Mar-19	000+0	0+102	BHS	363.12	0	363.12	200	0.55	0.48	
28	R-122	18-Mar-19	0+000+0	0+250	BHS	1187.5	0	1187.50	700	0.59	0.53	
	Re	Required tack co	ack co	at is 0.40	to 0.60Li	t/M2 Acc	sording t	o Road	Note -3,Se	at is 0.40 to 0.60Lit/M2 According to Road Note -3, Section 711.2	.2	
				`	Specific C	Sravity of	Specific Gravity of Bitumen 1.024	.024				
		"	OT DO UTO	* The state of the						Concelling	- Land	
NOHZ	IGHENG C	ONSTRUC	HON GRO	OUP INTER	ZHONGHENG CONSTRUCTION GROUP INTERNATIONAL ENGINEERING CO. LTD	IGINEERING	CO. LTD	BUILDING	DESIGN AUTANCY PVT. I	JTHORITY (PLUTO) IN JOINT LTD AND PLUS ENGINEER LTD, KATHMANDU, NEPAL	BUILDING DESIGN AUTHORITY (PIUTDIN), JOINT VENTURE WITH B.N. CONSULTANCY PVT. LTD AND PLUS ENGINEERS & ARCHITECTS (P) LTD, ACT HMANDU, NEPAL	rure with B.N RCHITECTS (P
Ployllan Checked By Ingineer	GCHUAN Cheeked By Chiefiner Cheeked By Pushnak Pradhan	_		-		Submitted By Contract Manager		Verified By Expert Qty Surveyor	2	A Buildin		Approved By Team Leader



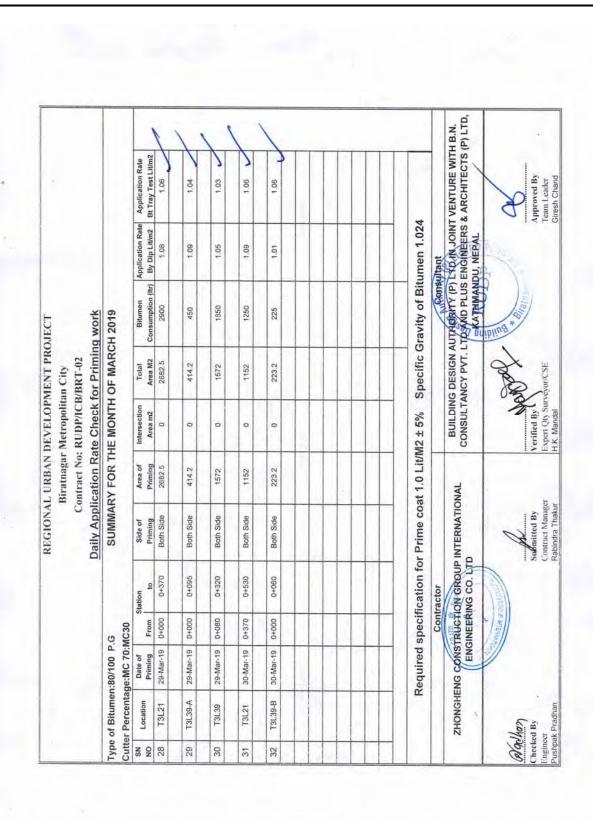


REGI	Daily	Type of Bitumen:80/100 P.G SUI	Date of Station Station	From to	01-Mar-19 0+000 0+255 Both Side	01-Mar-19 0+000 0+200 Both Side	03-Mar-19 0+160 0+320 Both Side	05-Mar-19 0+000 0+160 Both Side	05-Mar-19 0+255 0+455 Both Side	06-Mar-19 0+000 0+270 Both Side	07-Mar-19 0+000 0+200 Both Side	08-Mar-19 0+000 0+116 Both Side	08-Mar-19 0+000 0+210 Both Side	Required specification for Prime coat 1.0 Lit/M2 ± 5%	Contractor	ZHONGHENG CONSTRUCTION GROUP INTERNATIONAL ENGINEERING CO. LTD	Submitted By Contract Manager
REGIONAL URBAN DEVELOPMENT PROJECT Biratnagar Metropolitan City	Contract No: RUDP/ICB/BRT-02 Daily Application Rate Check for Priming work	SUMMARY FOR THE MONTH OF MARCH 2019	1	ing Priming		Side 1220	Side 1691.2	Side 1126.4	Side 1380	Side 1917	Side 1178	Side 522	3ide 1736.7	e coat 1.0 Lit/		NATIONAL	7 '' red By I Manager
L URBAN DEVELOPMENT Biratnagar Metropolitan City	Contract No: RUDP/ICB/BRT-02 olication Rate Check for Prim	HE MONTH	Interestina	Area m2	0	0	0	0	0	0	0	0	0	M2 ± 5%		CONSULTA	Verified By Expert On Surveyon/CSE
MENT PRO	8/BRT-02 for Primin	OF MARC	Total	Area M2	1792.65	1220	1691.2	1126.4	1380	1917	1178	522	1736.7	Specific		G DESIGN A	Source SE
OJECT	g work	CH 2019	i di	Consumption (Itr)	1900	1300	1850	1200	1450	2050	1250	650	1900	Specific Gravity of Bitumen 1.024	Cons	AUTHORITY (P) TD AND PLUS KATHMAN	# Buildin
			Amelionello	Application Kate By Dip Lit/m2	1.06	1.07	1,09	1.07	1.05	1.07	1.06	1.05	1.09	umen 1.024	ultant	AND PLUS ENGINEERS RATHMANDU, NEPEL	
			1	Application Kate ByTray Test Lit/m2	1.04	1.04	1.04	1.03	1.03	1.05	1.04	1.06	1.07	1	Consultant	BUILDING DESIGN AUTHORITY (P) LYDYN JOINT VENTURE WITH B.N. CONSULTANCY PVT. LTD/AND PLUS ENGINEERS & ARCHITECTS (P) LTD, ATHMANDU, NEPST.	Approved By



					Biratnagar Metropolitan City	Biratnagar	Biratnagar Metropolitan City	an City				
					Daily Application Rate Check for Priming work	cation Re	ate Check	or Primi	ng work			
be d	of Bitumer	Type of Bitumen:80/100 P.G	9.		SUMMAF	RY FOR T	SUMMARY FOR THE MONTH OF MARCH 2019	OF MAR	CH 2019			
utter	Percenta	Cutter Percentage: MC 70: MC30	MC30									
NS	Location	Date of		Station	Side of	Area of	Intersection	Total	Bitumen	-		
		Priming	From	to	Priming	Priming	Area m2	Area M2	Consumption (Itr)	By Dip Lit/m2	By Tray Test Lit/m2	1
9	T2L27	08-Mar-19	000+0	04040	Both Side	245	0	245	250	1.02	1.05	
=	R-12	10-Mar-19	0+680	0+840	Both Side	1011.2	0	1011.2	1100	1.09	1.04	
12	R-10	10-Mar-19	0+000	0+140	Both Side	693	0	693	750	1.08	7.04	1
c.	B.33	10.Mar.10	000+0	OBCTO	obio deod	0.534	c	4540	0307	100	207	1
1	200		200	202.0	200	2		040	000	1.07	207	,
41	N-4	10-Mar-19	0+000	0+152	Both Side	535,04	0	535.04	575	1.07	1.04	1
12	N-5	10-Mar-19	000+0	890+0	Both Side	241.4	0	241.4	250	1.04	7 90.1	1
16	R-10	11-Mar-19	0+150	0+335	Both Side	947.2	0	947.2	1000	1.06	1.05	1
17	6-N	12-Mar-19	000+0	0+215	Both Side	829.9	0	829.9	006	1.08	1.05	1
8	T3L23	12-Mar-19	0+080	0+280	Both Side	1112	0	1112	1200	1.08	1.04	
	LZ.	Required	speci	fication fo	Required specification for Prime coat 1.0 Lit/M2 ± 5%	at 1.0 Lit/	M2 ± 5%	Specific	Specific Gravity of Bitumen 1.024	umen 1.02	4	
			Contractor	tractor					Cons	Consultant		
7.50	ZHONGHE	ING CONS	TRUCT	SNSTRUCTION GROUP ENGINEERING CO. L.TD	ZHONGHENG CONSTRUCTION GROUP INTERNATIONAL ENGINEERING CO. LTD	NAL	BUILDIN	S DESIGN INCY PVT.	AUTHORITY (P) LTD AND REUS KATHMAN	ENGINEERS DU, NEPAL	BUILDING DESIGN AUTHORITY (BY LTD IN JOINT VENTURE WITH B.N. CONSULTANCY PVT. LTD AND BOOS ENGINEERS & ARCHITECTS (P) LTD. KATHMANDU, NEPAL	HB.N. (P) LT
Stad!	Nad Var				W. S.		A Politica	Bay .	mibling *	RODP SE	B	
Engineer	Engineer				Contract Manager	.0	Expert Oty Surveyor/CSE	vevor/CSE	1		Approved by Team Leader	

REGIONAL URBAN DEVELOPMENT PROJECT Biratnagar Metropolitan City Contract No: RUDP/ICB/BRT-02 Daily Application Rate Check for Priming work	SUMMARY FOR THE MONTH OF MARCH 2019	Side of Area of Intersection Total Bitumen Application Rate Priming Priming Area M2 Area M2 Consumption (Itr) By Dip Libra	693 0 693 750	Both Side 340 0 340 350 1,03	Both Side 1783.65 0 1783.65 1950 1.09	Both Side 1187.5 0 1187.5 1300 1.08	Both Side 367 0 357 1.05	Both Side 1286.5 0 1286.5 1400 1.09	Both Side 948:3 0 948.3 1000 1.05	Both Side 961.2 0 961.2 1050 1.09	Both Side 3700 0 3452.1 3700 1.07	rime coat 1.0 Lit/M2 ± 5% Specific Gravity of Bitumen 1.024		CONSULTANCY PVT. LT	Submitted By Verified By Verified By Survey or CSE
KP.	Type of Bitumen:80/100 P.G Cutter Percentage:MC 70:MC30	Location Date of Station Location Priming From to	R-21 13-Mar-19 0+000 0+208	R-77 15-Mar-19 0+000 0+080	R-10 15-Mar-19 0+335 0+680	R-122 16-Mar-19 0+000 0+250	R-17 16-Mar-19 0+000 0+102	R-27 25-Mar-19 0+000 0+310	R-36 28-Mar-19 0+000 0+218	R-76 28-Mar-19 0+000 0+270	Rani Site 28-Mar-19 0+000 0+555	Required specification for Prime coat 1.0 Lit/M2 ± 5%	CONSTRUCTION GROUP INTERNATIONAL ENGINEERING	CO. LTD	Pochlan Checked By Engineer





				Birat	AN DEVELO magar Metropol ract No:- RUDP/IC theet of Concrete C	litan City B/BRT-02		CI.			
						1		Month		Ma	arch
								Year			019
		100000		Brand of	C	D C.		pe of Material			Cube 4
S.N.	Location	Lab Ref.no.	Type of Cement	Cement	Source of Sand+Age	Date of Casting	7 Days	28 Days	7 Days 28	mm2 B Days	Concre
1	TILSA	RUDP-1580	Shalimar Gold	OPC	Chisang Khola	1-Feb-19	8-Feb-19	1-Mar-19			Grade
2	R-12	RUDP-1581	Shalimar Gold			1-Feb-19	- 2 2 2 2			22.28	M20
3	T2L19B	RUDP-1582	Shalimar Gold	OPC	Chisang Khola Chisang Khola		8-Feb-19	1-Mar-19		22.13	M20
4	Madhumara yard	RUDP-1583	Shalimar Gold		Chisang Khola	1-Feb-19	8-Feb-19	1-Mar-19 2-Mar-19		21.67	M20
5		RUDP-1584	Shalimar Gold	OPC		2-Feb-19	9-Feb-19			26.42	M25
6	Koshi Yard R-107	RUDP-1584 RUDP-1585	Shalimar Gold	OPC	Chisang Khola	2-Feb-19	9-Feb-19	2-Mar-19		23.41	M20
7	R-30	RUDP-1586	Shahmar Gold Shahmar Gold	OPC	Chisang Khola	2-Feb-19	9-Feb-19	2-Mar-19		23.41	M20
8	TIL5A	RUDP-1587	Shalimar Gold	OPC	Chisang Khola Chisang Khola	2-Feb-19	9-Feb-19	2-Mar-19		22.50	M20
9	T1L5A	RUDP-1588	Shalimar Gold	OPC		3-Feb-19 3-Feb-19	10-Feb-19	3-Mar-19		22.76	M20
10	R-84	RUDP-1589	Shalimar Gold		Chisang Khola	-	10-Feb-19	3-Mar-19		23.50	M20
11			Shalimar Gold	OPC	Chisang Khola	4-Feb-19	11-Feb-19	4-Mar-19		22.51	M20
12	R-2	RUDP-1590	Shalimar Gold	OPC	Chisang Khola	4-Feb-19	11-Feb-19	4-Mar-19		21.71	M20
13	T3L6A T3L11N	RUDP-1591	Shahmar Gold Shalimar Gold	OPC	Chisang Khola	4-Feb-19	11-Feb-19	4-Mar-19		22.44	M20
14	DDC Yard	RUDP-1592 RUDP-1593	Shalimar Gold	OPC	Chisang Khola	4-Feb-19	11-Feb-19	4-Mar-19		23.06	M20
15		RUDP-1594		OPC	Chisang Khola	5-Feb-19	12-Feb-19	5-Mar-19		22,91	M20
_	DDC Yard		Shalimar Gold	OPC	Chisang Khola	5-Feb-19	12-Feb-19	5-Mar-19		21.48	M20
16	Madhumara yard T3L23	RUDP-1595 RUDP-1596	Shalimar Gold Shalimar Gold	OPC	Chisang Khola	6-Feb-19	13-Feb-19	6-Mar-19		34.14	M30
18	T3l11H	RUDP-1596		OPC	Chisang Khola	6-Feb-19	13-Feb-19	6-Mar-19		22.51	M20
19		-	Shalimar Gold Shalimar Gold	OPC	Chisang Khola	7-Feb-19	14-Feb-19	7-Mar-19		21.48	M20
20	T3111H	RUDP-1598 RUDP-1599		OPC	Chisang Khola	7-Feb-19	14-Feb-19	7-Mar-19		22.76	M20
21	R-2		Shalimar Gold	OPC	Chisang Khola	7-Feb-19	14-Feb-19	7-Mar-19		22.62	M20
22	T3L11B	RUDP-1600	Shalimar Gold	OPC	Chisang Khola	7-Feb-19	14-Feb-19	7-Mar-19		23,50	M20
-	T3L11H	RUDP-1601	Shalimar Gold	OPC	Chisang Khola	8-Feb-19	15-Feb-19	8-Mar-19	_	21.86	M20
23	T3L11H	RUDP-1602	Shalimar Gold	OPC	Chisang Khola	8-Feb-19	15-Feb-19	8-Mar-19		23.28	M20
_	T3L1IN	RUDP-1603	Shalimar Gold	OPC	Chisang Khola	8-Feb-19	15-Feb-19	8-Mar-19		23.06	M20
25	T2L18Y	RUDP-1604	Shalimar Gold	OPC	Chisang Khola	8-Feb-19	15-Feb-19	8-Mar-19		23.06	M20
26	T2L24G	RUDP-1605	Shalimar Gold	OPC	Chisang Khola	9-Feb-19	16-Feb-19	9-Mar-19		1.48	M20
28	R-106	RUDP-1606	Shalimar Gold	OPC	Chisang Khola	10-Feb-19	17-Feb-19	10-Mar-19		22.81	M20
29	T3L11M T3L11N	RUDP-1607 RUDP-1608	Shalimar Gold Shalimar Gold	OPC	Chisang Khola	10-Feb-19	17-Feb-19	10-Mar-19		3.21	M20
30	T3L22B		Shalimar Gold	OPC	Chisang Khola	10-Feb-19	17-Feb-19	10-Mar-19		4.69	M20
31	T3L13C	RUDP-1609 RUDP-1610	Shalimar Gold	_	Chisang Khola	11-Feb-19	18-Feb-19	11-Mar-19		1.86	M20
32	T3L13C		Shalimar Gold	OPC	Chisang Khola	11-Feb-19	18-Feb-19	11-Mar-19		1.81	M20
		RUDP-1611	100000000000000000000000000000000000000	OPC	Chisang Khola	11-Feb-19	18-Feb-19	11-Mar-19		22.06	M20
33	T3L111	RUDP-1612	Shalimar Gold	OPC	Chisang Khola	12-Feb-19	12-Dec-17	12-Mar-19	2	23,28	M20
34	T2L22B	RUDP-1613	Shalimar Gold	OPC	Chisang Khola	12-Feb-19	18-Dec-17	12-Mar-19	2	1.87	M20
35	Madhumara yard	RUDP-1614	Shalimar Gold	OPC	Chisang Khola	12-Feb-19	21-Dec-17	12-Mar-19		6.17	M25
36	T1L5A	RUDP-1615	Shalimar Gold	OPC	Chisang Khola	12-Feb-19	21-Dec-17	12-Mar-19	2	1.48	M20
37	T3L22B	RUDP-1616	Shalimar Gold	OPC	Chisang Khola	13-Feb-19	23-Dec-17	13-Mar-19	2	2.26	M20
38	R-84	RUDP-1617	Shalimar Gold	OPC	Chisang Khola	13-Feb-19	24-Dec-17	13-Mar-19	. 2	3.06	M20
39	R-2	RUDP-1618	Shalimar Gold	OPC	Chisang Khola	14-Feb-19	24-Dec-17	14-Mar-19	2	2.29	M20
40	T3L6A	RUDP-1619	Shalimar Gold	OPC	Chisang Khola	15-Feb-19	25-Dec-17	15-Mar-19	2	3.06	M20
41	T2L24G	RUDP-1620	Shalimar Gold	OPC	Chisang Khola	15-Feb-19	26-Dec-17	15-Mar-19	2	3.06	M20
42	Koshi Yard	RUDP-1621	Shalimar Gold	OPC	Chisang Khola	15-Feb-19	28-Dec-17	15-Mar-19	2	1.81	M20
43	Madhumara yard	RUDP-1622	Shalimar Gold	OPC	Chisang Khola	15-Feb-19	22-Feb-19	15-Mar-19	2	1.81	M20
44	T3L13K	RUDP-1623	Tej Gold	OPC	Chisang Khola	16-Feb-19	23-Feb-19	16-Mar-19		WAR.	M20
45	T3L23	RUDP-1624	Tej Gold	OPC	Chisang Khola	16-Feb-19	23-Feb-19	16-Mar-19		2.62	M20
46	CN2CN3	RUDP 1625		OPC	Chisang Khola	16-Feb-19	23-Feb-19	16-Mar-19	2	2.62	M20
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ZHO	ONGHENG CONS	TRUCTION G		TIONAL	BUILDING I CONSULTAN	DESIGN AUT	HORIPY (P)	LTD IN JOIN	T VENTURE & ARCHITEC	WITH	B.N.
Check	adhan ked By	-	Submitted Contract Ma		Verified By Expert Qry Surveyo	NOTASE	Birat	tnagar * III		oved B	



				Bi	RBAN DEVE iratnagar Metro ontract No:- RUDI ry Sheet of Concre	politan City P/ICB/BRT-02	2				
								Month		Mi	arch
								Year			019
2	222	-1-7 m-2	ALLES	Brand	Source of	Date of		Type of Material	Cananath		Cube
S.N.	Location	Lab Ref.no.	Type of Cement	of	Sand+Agg.	Casting	7 Days	Testing 28 Days	7 Days	N/mpr2 28 Days	Concrete
47	Madhumara yard	RUDP-1626	Tej Gold	OPC	Chisang Khola	17-Feb-19	24-Feb-19	17-Mar-19	. Days	31.92	M30
48	R-63	RUDP-1627	Tej Gold	OPC	Chisang Khola	18-Feb-19	25-Feb-19	18-Mar-19		21.78	M20
49	DDC Yard	RUDP-1628	Tej Gold	OPC	Chisang Khola	18-Feb-19	25-Feb-19	18-Mar-19		/22.51	M20
50	T1L5A	RUDP-1629	Tej Gold	OPC	Chisang Khola	18-Feb-19	25-Feb-19	18-Mar-19		21.93	M20
51	T1L5A	RUDP-1630	Tej Gold	OPC	Chisang Khola	18-Feb-19	25-Feb-19	18-Mar-19		23.06	M20
52	T3L22B	RUDP-1631	Tej Gold	OPC	Chisang Khola	19-Feb-19	26-Feb-19	19-Mar-19		23.06	M20
53	T3L6A	RUDP-1632	Tej Gold	OPC	Chisang Khola	20-Feb-19	27-Feb-19	20-Mar-19		22.81	M20
54	R-63	RUDP-1633	Tej Gold	OPC	Chisang Khola	20-Feb-19	27-Feb-19	20-Mar-19		25.06	M20
55	T3L6A	RUDP-1634	Tej Gold	OPC	Chisang Khola	21-Feb-19	28-Feb-19	21-Mar-19		21.48	M20
56	T3L11K	RUDP-1635	Tej Gold	OPC	Chisang Khola	21-Feb-19	28-Feb-19	21-Mar-19		22.05	M20
57	R-7	RUDP-1636	Tej Gold	OPC	Chisang Khola	21-Feb-19	28-Feb-19	21-Mar-19		22.91	M20
58	T3L22B	RUDP-1637	Tej Gold	OPC	Chisang Khola	21-Feb-19	28-Feb-19	21-Mar-19		23.58	M20
59	T2L24G	RUDP-1638	Tej Gold	OPC	Chisang Khola	21-Feb-19	28-Feb-19	21-Mar-19		22.73	M20
60	T2L24G	RUDP-1639	Tej Gold	OPC	Chisang Khola	21-Feb-19	28-Feb-19	21-Mar-19		22.91	M20
61	T3L11N	RUDP-1640	Shalimar Gold	OPC	Chisang Khola	21-Feb-19	28-Feb-19	21-Mar-19		23.41	M20
62	Madhumara yard	RUDP-1641	Shalimar Gold	OPC	Chisang Khola	21-Feb-19	28-Feb-19	21-Mar-19		27.60	M25
63	Madhumara yard	RUDP-1642	Shalimar Gold	OPC	Chisang Khola	21-Feb-19	28-Feb-19	21-Mar-19		21.78	M20
64	T31.22B	RUDP-1643	Shalimar Gold	OPC	Chisang Khola	21-Feb-19	28-Feb-19	21-Mar-19		22,62	M20
65	Koshi Yard	RUDP-1644	Shalimar Gold	OPC	Chisang Khola	21-Feb-19	28-Feb-19	21-Mar-19		21.48	M20
66	R-2	RUDP-1645	Shalimar Gold	OPC	Chisang Khola	21-Feb-19	28-Feb-19	21-Mar-19		23.06	M20
67	DDC Yard	RUDP-1646	Shalimar Gold	OPC	Chisang Khola	21-Feb-19	28-Feb-19	21-Mar-19		32.29	M30
68	R-84	RUDP-1647	Shalimar Gold	OPC	Chisang Khola	21-Feb-19	28-Feb-19	21-Mar-19		22.91	M20
69	R-2	RUDP-1648	Shalimar Gold	OPC	Chisang Khola	21-Feb-19	28-Feb-19	21-Mar-19		23.06	M20
70	R-2	RUDP-1649	Shalimar Gold	OPC	Chisang Khola	22-Feb-19	1-Mar-19	22-Mar-19	15.37	22.62	M20
71	TIL5A	RUDP-1650	Shalimar Gold	OPC	Chisang Khola	22-Feb-19	1-Mar-19	22-Mar-19	15.22	23.13	M20
72	DDC Yard	RUDP-1651	Shalimar Gold	OPC	Chisang Khola	22-Feb-19	1-Mar-19	22-Mar-19	16.04	22.91	M20
73	T2L24E	RUDP-1652	Shalimar Gold	OPC	Chisang Khola	22-Feb-19	I-Mar-19	22-Mar-19	15.74	22.18	M20
74	T2L19B	RUDP-1653	Shalimar Gold	OPC	Chisang Khola	22-Feb-19	1-Mar-19	22-Mar-19	15.74	23,67	M20
75	R-27	RUDP-1654	Shalimar Gold	OPC	Chisang Khola	22-Feb-19	1-Mar-19	22-Mar-19	14.77	23.00	M20
76	T2L24E	RUDP-1655	Shalimar Gold	OPC	Chisang Khola	22-Feb-19	1-Mar-19	22-Mar-19	16.26	21.93	M20
77	T3L6	RUDP-1656	Shalimar Gold	OPC	Chisang Khola	22-Feb-19	1-Mar-19	22-Mar-19	15.74	22.41	M20
78	T3L6	RUDP-1657	Shalimar Gold	OPC	Chisang Khola	23-Feb-19	2-Mar-19	23-Mar-19	16.56	22.91	M20
79	R-84	RUDP-1658	Shalimar Gold	OPC	Chisang Khola	23-Feb-19	2-Mar-19	23-Mar-19	15,37	23.21	M20
80	T3LHN	RUDP-1659	Shalimar Gold	OPC	Chisang Khola	23-Feb-19	2-Mar-19	23-Mar-19	16.48	25.21	M20
81	R-84	RUDP-1660	Shalimar Gold	OPC	Chisang Khola	23-Feb-19	2-Mar-19	23-Mar-19	17.08	22,91	M20
82	T3L19B	RUDP-1661	Shalimar Gold	OPC	Chisang Khola	24-Feb-19	3-Mar-19	24-Mar-19	16,77	24.17	M20
83	DDC Yard	RUDP-1662	Shalimar Gold	OPC	Chisang Khola	24-Feb-19	3-Mar-19	24-Mar-19	15.65	25,58	M20
84	Madhumara yard	RUDP-1663	Shalimar Gold	OPC	Chisang Khola	24-Feb-19	3-Mar-19	24-Mar-19	21.86	32.44	M30
85	DDC Yard	RUDP-1664	Shalimar Gold	OPC	Chisang Khola	25-Feb-19	4-Mar-19	25-Mar-19	16.32	22,51	M20
86	R-2	RUDP-1665	Shalimar Gold	OPC	Chisang Khola	25-Feb-19	4-Mar-19	25-Mar-19	16.10	23.21	M20
87	R-84	RUDP-1666	Shalimar Gold	OPC	Chisang Khola	25-Feb-19	4-Mar-19	25-Mar-19	15.35	23.21	M20
88	Madhumara yard	RUDP-1667	Shalimar Gold	OPC	Chisang Khola	26-Feb-19	5-Mar-19	26-Mar-19	16.54	22.51	M20
89	TIL5A	RUDP-1668	Shalimar Gold	OPC	Chisang Khola	26-Feb-19	5-Mar-19	26-Mar-19	16.17	23.25	M20
90	R-2	RUDP-1669	Shalimar Gold	OPC	Chisang Khola	27-Feb-19	6-Mar-19	27-Mar-19	16.77	22.91	M20
91	T2L24B	RUDP-1670	Shalimar Gold	OPC	Chisang Khola	27-Feb-19	6-Mar-19	27-Mar-19	15.35	22.00	M20
92	T2L24E	RUDP-1671	Shalimar Gold		Chisang Khola	AM R T 10	222722	27-Mar-19	15.43	23.80	M20
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НО	NGHENG CONS	TRUCTION GR	OUP INTERNAT	IONAL	BUILDING	G DESIGN AT	THORITY (nsultant P) LTD IN JO US ENGINEER ANDU, NEPAL	S & ARCH	URE WITH ITECTS (P)	B.N. LTD,
ngin	odhan ked By eer ek Pradhan	14.2 Jp. 2 - 40.40 Z	Submitted I Contract Man: Rabindra K.Thakur		Verified By Expert Qty Surveyor H.K. Mandal	CSE		nagar * his		Approved By Team Leader	



			REGIONA	Bir	BAN DEVE ratnagar Metro ntract No:- RUDI v Sheet of Concre	politan City VICB/BRT-02		IECT			
								Month		Ma	rch
							-1	Year		20	
								Type of Material		Conc.	Cube
S.N.	Location	Lab Ref.no.	Type of Cement	Brand	Source of Sand+Agg	Date of		Testing		N/mm2	Concrete
93	TOTAL 1972	DUDD 1622	Challeres Cald	Cement		Casting	7 Days	28 Days	7 Days	28 Days	Grade
94	T3L23C	RUDP-1672	Shalimar Gold Shalimar Gold	OPC	Chisang Khola	28-Feb-19	7-Mar-19	28-Mar-19	16.77	22.51	M20
95	T2L24E R-2	RUDP-1673	Shalimar Gold	OPC	Chisang Khola	28-Feb-19	7-Mar-19	28-Mar-19	16.77	23,70	M20
96	T3L6	RUDP-1674 RUDP-1675	Shalimar Gold	OPC	Chisang Khola	28-Feb-19 1-Mar-19	7-Mar-19	28-Mar-19	16.02	24.07	M20
97	T11.5		Shalimar Gold	OPC	Chisang Khola Chisang Khola	1-Mar-19	8-Mar-19	29-Mar-19	16,47	22,26	M20
98	R-23	RUDP-1676 RUDP-1677	Shalimar Gold	OPC		1-Mar-19	8-Mar-19	29-Mar-19	16.25	22.91	m20
99	R-84	RUDP-1678	Shalimar Gold	OPC	Chisang Khola Chisang Khola	2-Mar-19	8-Mar-19	29-Mar-19	15,80	23,21	M20
100	R-2	RUDP-1679	Shalimar Gold	OPC		2-Mar-19	9-Mar-19	30-Mar-19	14,61	21,65	M20
101	Madhumara Yard	RUDP-1680	Shalimar Gold	OPC	Chisang Khola		9-Mar-19	30-Mar-19	16.47	23.28	M20
102	T2L24E	RUDP-1681	Shalimar Gold	OPC	Chisang Khola	3-Mar-19 3-Mar-19	10-Mar-19	31-Mar-19 31-Mar-19	18,57	27.39	M25
103	R-44	RUDP-1682	Shalimar Gold	OPC	Chisang Khola		10-Mar-19		15.20	23.21	M20
103				- Carlo	Chisang Khola	3-Mar-19	10-Mar-19	31-Mar-19	15,50	22,03	M20
104	T1L5 T3L23C	RUDP-1683 RUDP-1684	Shalimar Gold Shalimar Gold	OPC	Chisang Khola	3-Mar-19 3-Mar-19	10-Mar-19	31-Mar-19	15.20	23.28	M20
_				-	Chisang Khola		10-Mar-19	31-Mar-19	16,47	23.21	M20
106	DDC Yard	RUDP-1685	Shalimar Gold	OPC	Chisang Khola	3-Mar-19	10-Mar-19	31-Mar-19	15.35	22.91	M20
_	T1L5A	RUDP-1686	Shalimar Gold	-	Chisang Khola	4-Mar-19	11-Mar-19	I-Apr-19	16.25		M20
108	koshi Yard	RUDP-1687	Shalimar Gold	OPC	Chisang Khola	4-Mar-19	11-Mar-19	1-Apr-19	17.21	-	M20
109	T2L25B	RUDP-1688	Shalimar Gold	OPC	Chisang Khola	4-Mar-19	11-Mar-19	1-Apr-19	14.90		M20
110	T3L23C	RUDP-1689	Shalimar Gold	OPC	Chisang Khola	5-Mar-19	12-Mar-19	2-Apr-19	16,77		M20
111	T2L19B	RUDP-1690	Shalimar Gold	OPC	Chisang Khola	5-Mar-19	12-Mar-19	2-Apr-19	16.99		M20
112	koshi Yard	RUDP-1691	Shalimar Gold	OPC	Chisang Khola	5-Mar-19	12-Mar-19	2-Apr-19	14,90		M20
113	R-84	RUDP-1692	Shalimar Gold	OPC	Chisang Khola	6-Mar-19	13-Mar-19	3-Apr-19	16.77		M20
114	R-2	RUDP-1693	Shalimar Gold	OPC	Chisang Khola	6-Mar-19	13-Mar-19	3-Apr-19	15.28		M20
115	R-44	RUDP-1694	Shalimar Gold	OPC	Chisang Khola	6-Mar-19	13-Mar-19	3-Apr-19	16.77		M20
116	DDC Yard	RUDP-1695	Shalimar Gold	OPC	Chisang Khola	6-Mar-19	13-Mar-19	3-Apr-19	15.72	-	M20
117	DDC Yard	RUDP-1696	Shalimar Gold	OPC	Chisang Khola	6-Mar-19	13-Mar-19	3-Apr-19	14.31		M20
118	Madhumara Yard	RUDP-1697	Shalimar Gold	OPC	Chisang Khola	6-Mar-19	13-Mar-19	3-Apr-19	16.10		M20
119	T2L24E	RUDP-1698	Shalimar Gold	OPC	Chisang Khola	7-Mar-19	14-Mar-19	4-Apr-19	16,39		M20
120	R-84	RUDP-1699	Shalimar Gold	OPC	Chisang Khola	7-Mar-19	14-Mar-19	4-Apr-19	17.14		M20
121	R-23	RUDP-1700	Shalimar Gold	OPC	Chisang Khola	7-Mar-19	14-Mar-19	4-Apr-19	14.75		M20
122	R-2	RUDP-1701	Shalimar Gold	OPC	Chisang Khola	7-Mar-19	14-Mar-19	4-Apr-19	16.84		M20
123	R-85	RUDP-1702	Shalimar Gold	OPC	Chisang Khola	7-Mar-19	14-Mar-19	4-Apr-19	15.13		M20
124	DDC Yard	RUDP-1703	Shalimar Gold	OPC	Chisang Khola	7-Mar-19	14-Mar-19	4-Apr-19	16.39		M20
125	R-44	RUDP-1704	Shalimar Gold	OPC	Chisang Khola	7-Mar-19	14-Mar-19	4-Apr-19	16.25		M20
126	Madhumara Yard	RUDP-1705	Shalimar Gold	OPC	Chisang Khola	8-Mar-19	15-Mar-19	5-Apr-19	17.44		M25
127	CN2CN3	RUDP-1706	Shalimar Gold	OPC	Chisang Khola	8-Mar-19	15-Mar-19	5-Apr-19	15.20		M20
128	koshi Yard	RUDP-1707	Shalimar Gold	OPC	Chisang Khola	8-Mar-19	15-Mar-19	5-Apr-19	16.17		M20
129	R-23	RUDP-1708	Shalimar Gold	OPC	Chisang Khola	8-Mar-19	15-Mar-19	5-Apr-19	17.21		M20
130	T2L25B	RUDP-1709	Shalimar Gold	OPC	Chisang Khola	9-Mar-19	16-Mar-19	6-Apr-19	14,83		M20
131	T3L10E	RUDP-1710	Shalimar Gold	OPC	Chisang Khola	9-Mar-19	16-Mar-19	6-Apr-19	16.77		M20
132	T3L13K	RUDP-1711	Shalimar Gold	OPC	Chisang Khola	9-Mar-19	16-Mar-19	6-Apr-19	15.43		M20
133	R-84	RUDP-1712	Shalimar Gold	OPC	Chisang Khola	10-Mar-19	17-Mar-19	7-Apr-19	16.92		M20
134	T3L10E	RUDP-1713	Shalimar Gold	OPC	Chisang Khola	10-Mar-19	17-Mar-19	7-Apr-19	15.13		M20
135	CN2CN3	RUDP-1714	Shalimar Gold	OPC	Chisang Khola	10-Mar-19	17-Mar-19	7-Apr-19	16.47		M20
136	Madhumara Yard	RUDP-1715	Shalimar Gold	OPC	Chisang Khola	10-Mar-19	17-Mar-19	7-Apr-19	18.42		M25
137	Madhumara Yard	RUDP-1716	Shalimar Gold	OPC	Chisang Khola	10-Mar-19	17-Mar-19	7-Apr-19	14.75		M20
138	R-9B	RUDP-1717	Shalimar Gold	OPC	Chisang Khola	11-Mar-19	18-Mar-19	8-Apr-19	16.62		M20
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ZHC	ONGHENG CONS	TRUCTION GE	ROUP INTERNAT	TIONAL	BUILDING	ANCY PVT.	THORITY (nsvitant P) LTD-IN JO IS ENGINEES INDU, NEPAT	DC R. ADCL	URE WITH HTECTS (P)	B.N. LTD,
Engin	adhan ked By eer ak Pradhan		Submitted Contract Man Rabindra K.Thakur	nager	Verified By Expert Qty Survey H.K. Mandal		* Biratna	DP		Approved By Team Leader Giresh Chand	



			REGIONA	Bir	BAN DEVE ratnagar Metro entract No:- RUDI v Sheet of Concre	politan City P/ICB/BRT-03	2	EC1			
								Month		Mı	urch
								Year			119
		T		D				Type of Material			Cube
S.N.	Location	Lab Ref.no	Type of Cement	Brand of Cement	Source of Sand+Agg	Date of Casting	7 Days	Testing 28 Days	7 Days	N/mm2 28 Days	Concrete
139	T1L5-A	RUDP-1718	Shalimar Gold	OPC	Chisang Khola	11-Mar-19	18-Mar-19	8-Apr-19	16.77 +	/	M20
140	DDC-Yard	RUDP-1719	Shalimar Gold	OPC	Chisang Khola	11-Mar-19	18-Mar-19	8-Apr-19	14.23		M20
141	R-44	RUDP-1720	Shalimar Gold	OPC	Chisang Khola	11-Mar-19	18-Mar-19	8-Apr-19	17.20		M20
142	T2L24E	RUDP-1721	Shalimar Gold	OPC	Chisang Khola	11-Mar-19	18-Mar-19	8-Apr-19	15.87		M20
143	CDO-Marg	RUDP-1722	Shalimar Gold	OPC	Chisang Khola	11-Mar-19	18-Mar-19	8-Apr-19	16.10		M20
144	Madhumara Yard	RUDP-1723	Shalimar Gold	OPC	Chisang Khola	11-Mar-19	18-Mar-19	8-Apr-19	21.78		M30
145	Madhumara Yard	RUDP-1724	Shalimar Gold	OPC	Chisang Khola	11-Mar-19	18-Mar-19	8-Apr-19	15.65		M20
146	Ram Site	RUDP-1725	Shalimar Gold	OPC	Chisang Khola	11-Mar-19	18-Mar-19	8-Apr-19	16.25		M20
147	Koshi Yard	RUDP-1726	Saptakoshi	OPC	Chisang Khola	12-Mar-19	19-Mar-19	9-Apr-19	15.35		M20
148	R-44	RUDP-1727	Saptakoshi	OPC	Chisang Khola	12-Mar-19	19-Mar-19	9-Apr-19	15.65		M20
149	Madhumara Yard	RUDP-1728	Saptakoshi	OPC	Chisang Khola	12-Mar-19	19-Mar-19	9-Apr-19	16.32		M20
150	Koshi Yard	RUDP-1729	Saptakoshi	OPC	Chisang Khola	13-Mar-19	20-Mar-19	10-Apr-19	14.75		M20
151	TIL5-A	RUDP-1730	Saptakoshi	OPC	Chisang Khola	13-Mar-19	20-Mar-19	10-Apr-19	16.77		M20
152	Rani Site	RUDP-1731	Saptakoshi	OPC	Chisang Khola	13-Mar-19	20-Mar-19	10-Apr-19	15.95		M20
153	DDC-Yard	RUDP-1732	Saptakoshi	OPC	Chisang Khola	13-Mar-19	20-Mar-19	10-Apr-19	15,43		M20
154	T2L25B	RUDP-1733	Saptakoshi	OPC	Chisang Khola	13-Mar-19	20-Mar-19	10-Apr-19	15.80		M20
155	R-84	RUDP-1734	Saptakoshi	OPC	Chisang Khola	14-Mar-19	21-Mar-19	11-Apr-19	17.21		M20
156	Madhumara Yard	RUDP-1735	Saptakoshi	OPC	Chisang Khola	14-Mar-19	21-Mar-19	11-Apr-19	14.46		M20
157	T2L25B	RUDP-1736	Saptakoshi	OPC	Chisang Khola	15-Mar-19	22-Mar-19	12-Apr-19	15.28		M20
158	R-9B	RUDP-1737	Saptakoshi	OPC	Chisang Khola	15-Mar-19	22-Mar-19	12-Apr-19	15.95		M20
159	R-44	RUDP-1738	Saptakoshi	OPC	Chisang Khola	15-Mar-19	22-Mar-19	12-Apr-19	17.06		M20
160	T3L10E	RUDP-1739	Saptakoshi	OPC	Chisang Khola	15-Mar-19	22-Mar-19	12-Apr-19	14.98		M20
161	R-2	RUDP-1740	Saptakoshi	OPC	Chisang Khola	16-Mar-19	23-Mar-19	13-Apr-19	16.69		M20
162	T3L13K	RUDP-1741	Saptakoshi	OPC	Chisang Khola	16-Mar-19	23-Mar-19	13-Apr-19	15.87		M20
163	R-10	RUDP-1742	Saptakoshi	OPC	Chisang Khola	16-Mar-19	23-Mar-19	13-Apr-19	16,84		M20
164	DDC-Yard	RUDP-1743	Saptakoshi	OPC	Chisang Khola	17-Mar-19	24-Mar-19	14-Apr-19	14.98		M20
165	R-27	RUDP-1744	Saptakoshi	OPC	Chisang Khola	17-Mar-19	24-Mar-19	14-Apr-19	16.10		M20
166	T3L6	RUDP-1745	Saptakoshi	OPC	Chisang Khola	17-Mar-19	24-Mar-19	14-Apr-19	15.20		M20
167	R-76	RUDP-1746	Saptakoshi	OPC	Chisang Khola	17-Mar-19	24-Mar-19	14-Apr-19	15,20		M20
168	Madhumara Yard	RUDP-1747	Saptakoshi	OPC	Chisang Khola	17-Mar-19	24-Mar-19	14-Apr-19	21.93		M30
169	R-44	RUDP-1748	Saptakoshi	OPC	Chisang Khola	17-Mar-19	24-Mar-19	14-Apr-19	15,20		M20
170	R-9B	RUDP-1749	Saptakoshi	OPC	Chisang Khola	18-Mar-19	25-Mar-19	15-Apr-19	15.72		M20
172	T3L13K T3L10E	RUDP-1750 RUDP-1751	Saptakoshi Saptakoshi	OPC	Chisang Khola	18-Mar-19	25-Mar-19	15-Apr-19	14.75		M20
173	Madhumara Yard			OPC	Chisang Khola	19-Mar-19	26-Mar-19	16-Apr-19	15.80		M20
174	R-2	RUDP-1752 RUDP-1753	Saptakoshi Saptakoshi	OPC	Chisang Khola	19-Mar-19	26-Mar-19	16-Apr-19	18,57		M25
175	T2L23C	RUDP-1754	Saptakoshi	OPC	Chisang Khola	20-Mar-19	27-Mar-19	17-Apr-19	15.20		M20
176	T3L25B	RUDP-1755	Saptakoshi	OPC	Chisang Khola Chisang Khola	20-Mar-19 20-Mar-19	27-Mar-19	17-Apr-19	15.87	_	M20
177	TIL5-A	RUDP-1756	Saptakoshi	OPC	Chisang Khola	20-Mar-19	27-Mar-19 27-Mar-19	17-Apr-19 17-Apr-19	14.98		M20
178	R-2	RUDP-1757	Saptakoshi	OPC	Chisang Khola	20-Mar-19	27-Mar-19 27-Mar-19	17-Apr-19	16.10 15.20		M20
179	T3L25B	RUDP-1758	Saptakoshi	OPC	Chisang Khola	20-Mar-19	27-Mar-19 27-Mar-19	17-Apr-19	16.77	-	M20
180	T3L6	RUDP-1759	Saptakoshi	OPC	Chisang Khola	20-Mar-19	27-Mar-19 27-Mar-19	17-Apr-19	14.75		M20 M20
181	Madhumara Yard	RUDP-1760	Saptakoshi	OPC	Chisang Khola	21-Mar-19	28-Mar-19	18-Apr-19	15.8		M20
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ZHO	NGHENG CONST	TRUCTION GR		IONAL	BUILDING	G DESIGN A NCY PVT. L	UTHORITY (P) LTD IN JO	RS & ARCH	URE WITH ITECTS (P	B.N. LTD,
ngin	achan ked By cer ak Pradhan	1	Submitted Contract Man Rabindra K.Thakur	ager	Verified By Expert Qty Survey	or/CSE	Billatna * Billatna	gar * 11		Approved By Team Leader	



	1		REGIO	Bir Conti	BAN DEVE atnagar Metro ract No:- RUD ary Sheet Of Mon	P/ICB/BRT-02	ECT	
							Month Year	March 2019
_	-						Type of Material	Brick .
s.N.	Lab Ref.No.	Testing Date	Location of Sample	Source of Brick	Name Of Brick	Water Absorption of Brick(%)	Strength of Brick(N/mm²)	Remarks
1	412	2-Mar-19	R-2	Dadarbairya	ACC	14.41	12.87	
2	413	2-Mar-19	R-84	Dadarbairya	ACC	13.21	14.47	
3	414	3-Mar-19	T2l24E	Dadarbairya	ACC	12.18	15.31	
4	415	3-Feb-19	R23	Dadarbairya	ACC	11.72	13.00	
5	416	4-Mar-19	T3L23C	Dadarbairya	ACC	12.75	14.33	
7	417	5-Mar-19	T2I25B	Dadarbairya	ACC	15.03	13.79	
8	418	6-Mar-19	R-44	Dadarbairya	ACC	13.96	12,39	
9	419	6-Mar-19 6-Mar-19	R-44 R-2	Dadarbairya	Aanand	14.45	13.72	
10	420	6-Mar-19	T3L23C	Dadarbairya Dadarbairya	Aanand	15.00	12.83	
11	422	7-Mar-19	T1L5A	Dadarbairya Dadarbairya	Aanand	13.68	13.85	_
12	423	7-Mar-19	T2L19B	Dadarbairya Dadarbairya	Aanand Aanand	13.56	12.47	
13	424	7-Mar-19	R-2	Dadarbairya	Aanand	14.73 14.12	12.91 13.46	
14	425	8-Mar-19	R-44	Dadarbairya	ACC	15.75	15.61	
15	426	8-Mar-19	R-84	Dadarbairya	ACC	14.99	15.61	
16	427	8-Mar-19	T2L24E	Dadarbairya	ACC	13.75	15.28	
17	428	8-Mar-19	R-84	Dadarbairya	ACC	12.49	14.05	
18	429	8-Mar-19	CDO-Marg	Dadarbairya	ACC	12.30	12.26	
19	430	8-Mar-19	T3L23C	Dadarbairya	ACC	14.79	14.55	
20	431	9-Mar-19	T3L25B	Dadarbairya	ACC	13.69	14.46	
21	432	9-Mar-19	T1L5A	Dadarbairya	Aanand	12.75	14.80	
22	433	9-Mar-19	T3L19B	Dadarbairya	Aanand	13.78	14.54	
23	434	9-Mar-19	T2L25C	Dadarbairya	ACC	12.05	16.24	
24	435	9-Mar-19	T1L5A	Dadarbairya	ACC	10.58	16.11	
25	436	9-Mar-19	T3L23C	Dadarbairya	ACC	13,50	14.35	
26	437	9-Mar-19	T3L19B	Dadarbairya	ACC	14.00	15.12	
27	438	9-Mar-19	R-44	Dadarbairya	ACC	10.80	15.52	
28	439	10-Mar-19	R-44	Dadarbairya	ACC	10.80	15.52	/
29	440	10-Mar-19	R-94	Dadarbairya	ACC	11.49	16.52	
30	441	10-Mar-19	R-44	Dadarbairya	ACC	13.29	11.79	
'nm	ments:-		Sp. Limit			<20%	>8 to 10 N/mm²	
2.11			INTERNATIONAL EN				✓	
		70.7	The state of the s	1		Consultan	t c	
HON	IGHENG CO		ROUP INTERNATIONA	LENGINEERING	BUILDING DESIGN	AUTHORITY (P) LTD IN 10 INT VENTU	RE WITH B.N. CONSULTANCY P	VT. LTD AND
		Bonne	0. LTD 07:00 01		P	LUS ENGINEERS & ARCHITECTS (P)	TD, KATHMANDU, NEPAL	
		1	*	3		CITO E	PE.	
			-	1		A ROLL	18/18/18	/
(P)	acllan ecked By		Submitted	/ 	Verified By	* Biratna	8	
Er	ngineer ak Pradhan		Contract Ma	nager I	xpert/Qty Surveyor		Approved By Team Leader	
	ak Prauman		Rabindra Kr.	Inakur	H.K.Mandal		Giresh Chand	



			REGIO	Bir Contr	BAN DEVE atnagar Metro ract No:- RUD ary Sheet Of Mor	P/ICB/BRT-02	ECT	
							Month	March
							Year Type of Material	2019 Brick
s.N.	Lab Ref.No.	Testing Date	Location of Sample	Source of Brick	Name Of Brick	Water Absorption of Brick(%)	Strength of Brick(N/mm²)	Remark
31	442	10-Mar-19	T3L6	Dadarbairya	ACC	14.63	13.55	
32	443	10-Mar-19	T3L23C	Dadarbairya	ACC	14.10	12.19	
33	444	10-Mar-19	R-44 ,	Dadarbairya	ACC	13.21	13.70	
34	445	10-Mar-19	T1L5A	Dadarbairya	ACC	12.47	14.97	
35	446	11-Mar-19	Rani-site	Dadarbairya	ACC	10.68	12.30	
36	447	11-Mar-19	R-2	Dadarbairya	ACC	13.42	14.83	
37	448	11-Mar-19	T3L23C	Dadarbairya	ACC	11.20	12.58	
38	449	11-Mar-19	T2L25C	Dadarbairya	ACC	12.15	13.77	
39	450	11-Mar-19	R-2	Dadarbairya	ACC	14.32	14.03	
40	451	11-Mar-19	R-84	Dadarbairya	ACC	12.31	15.32	
41	452	11-Mar-19	T3L6	Dadarbairya	ACC	12.92	14.61	
12	453	11-Mar-19	R-2	Dadarbairya	ACC	13.77	12.06	
13	454	11-Mar-19	R-23	Dadarbairya	ACC	14,52	11.78	
14	455	11-Mar-19	R-7	Dadarbairya	ACC	13.45	14.18	
15	456	12-Mar-19	T1L5	Dadarbairya	Aanand	13.15	12.55	
16	457	12-Mar-19	R-84	Dadarbairya	ACC	13.23	13.89	
17	458	13-Mar-19	T2L19B	Dadarbairya	Aanand	11.36	13.55	
18	459	13-Mar-19	R-44	Dadarbairya	Aanand	12.94	15.52	
19	460	13-Mar-19	T2L23C	Dadarbairya	Aanand	10.91	12.54	
50	461	13-Mar-19	R-44	Dadarbairya	Aanand	10.91	12.54	
1	462	13-Mar-19	R-2	Dadarbairya	Aanand	13.50	14.50	
52	463	13-Mar-19	R-84	Dadarbairya	Aanand	13.92	12.61	
3	464	13-Mar-19	R-2	Dadarbairya	ACC	12.18	14.37	
4	465	14-Mar-19	T2L24E	Dadarbairya	ACC	11.81	14.45	
55	466	14-Mar-19	T2L25B	Dadarbairya	ACC	10.62	14.45	
6	467	14-Mar-19	T1L5	Dadarbairya	ACC	11.82	12.62	
7	468	14-Mar-19	T2L23C	Dadarbairya	ACC	11.96	13.25	
8	469	14-Mar-19	R-44	Dadarbairya	ACC	11.30	11.74	
9	470	14-Mar-19	R-84	Dadarbairya	ACC	10.99	12.25	
0	471	15-Mar-19	R-9(B)	Dadarbairya	ACC	13.02	13.97	
			Sp. Limit			<20%	>8 to 10 N/mm²	
om	ments:-	-70	ntractor El		'		/	
		Co	ntractor			Consultan	1	
HON	GHENG CO	NSTRUCTION G	ROUP INTERNATIONAL	LENGINEERING	BUILDING DESIGN A	AUTHORITY (P) LTD IN WOLLT VENTOUS ENGINEERS & ABCHITECTS (P) E	RE WITH B.N. CONSULTANCY P TO KATHMANDU, NEPAL	VT. LTD AN
En	ocked By gineer		Submitted Contract Ma		Verified By	* Bitainayar 3	Approved By Team Leader	



	-1		REGIO:	Bir: Conti	BAN DEVE atnagar Metro ract No:- RUDI ary Sheet Of Mon	P/ICB/BRT-02	ECT	
							Month	March
							Year	2019
N.	Lab Ref.No.	Testing Date	Location of Sample	Source of Brick	Name Of Brick	Water Absorption of Brick(%)	Type of Material Strength of Brick(N/mm²)	Brick Remark
51	472	15-Mar-19	T3L13K	Dadarbairya	ACC	13.04	13.28	
52	473	14-Mar-19	T3L5A	Dadarbairya	ACC	12.72	15.14	
53	474	16-Mar-19	R-23	Dadarbairya	ACC	11.81	14.04	
54	475	16-Mar-19	R-2	Dadarbairya	ACC	12,64	14.05	
55	476	18-Mar-19	R-2	Dadarbairya	ACC	13.85	14.05	
56	477	18-Mar-19	R-9(B)	Dadarbairya	ACC	12.00	14.49	
57	478	19-Mar-19	R-44	Dadarbairya	ACC	13.49	15.21	
58	479	19-Mar-19	T3L13K	Dangraha	STL	13.94	13.76	
59	480	19-Mar-19	T3L23C	Dangraha	STL	12.04	14.61	
70	481	20-Mar-19	R-44	Dadarbairya	ACC	14.58	15.68	
71	482	21-Mar-19	T3L10E	Dadarbairya	ACC	14.51	12.45	
72	483	21-Mar-19	R-44 +	Dadarbairya	ACC	11.67	11.97	
73	484	22-Mar-19	T1L5A	Dadarbairya	ACC	11.94	14.33	1
74	485	23-Mar-19	R-2	Dadarbairya	ACC	13.17	14.28	
			+					
_	-		Sp. Limit					
omi	ments:-	ONGROUP	INTERNATION:			<20%	>8 to 10 N/mm²	
			otractor			Consultan		
	CUEN C		1011		A STATE OF THE STA	Consultan		
ION	GHENGCO	ASHOMOW)	C. LTD	AL ENGINEERING	BUILDING DESIGN A	LUS ENGINEERS & ARCHITECTS (P) L	RE WITH B.N. CONSULTANCY I TO, KATHMANDU, NEPAL	PVT. LTD AN
6	V: //.		1	1	Work.	RUD		/



		Ø	Biratnagar Metropolitan City Contract No:- RUDP/ICB/BRT-02 Summary Sheet of Monthly Test Report of 20mm Agg.	gar Me t No:- R Monthly	Biratnagar Metropolitan City Contract No:- RUDP/ICB/BRT-02 Sheet of Monthly Test Report of 20	RABRT-	ty 92 20mm	Biratnagar Metropolitan City Contract No:- RUDP/ICB/BRT-02 Summary Sheet of Monthly Test Report of 20mm Agg.				
											Page	Page no 1 of 1
									Month	ith		March
									Type of Material	faterial	20	20 mm Agg
-	Date of Tandar	Location of	0	Sieve Si	Sieve Size in mm / % Passing by weight	/ % Pass	ing by we	+		-	-	L
	Date of Testing	Sample	Source of Sample	37.5	20	14	10		L.A.A.%	Fl and El %	% A.L.V.%	% Kemarks
RUDP-CA-282	2-Mar-19	Madhumara-yard	Chisang Khola	100.00	94,49	52.66	4.89	2.40	25.04	19.26/18.33		1
RUDP-CA-283	3-Mar-19	R-2	Chisang Khola	100.00	92.81	45.18	5.04	2.30	28.20	20.52/16.65	5 22.50	1
RUDP-CA-284	4-Mar-19	Koshi-yard	Chisang Khola	100.00	96.56	44.64	6.52	3.01	25.10	18.31/16.38		
RUDP-CA-285	5-Mar-19	R-84	Chisang Khola	100.00	94.63	43.92	6.24	3.19	26.10	19.40/16.92	2 18.77	1
RUDP-CA-286	5-Mar-19	TILSA	Chisang Khola	100.001	94.29	45.97	5.97	2.81	25.76	19.30/17.14	15.95	
RUDP-CA-287	5-Mar-19	T3L6A	Chisang Khola	100.00	94.38	45.43	5.62	2.47	23.76	19.41/17.06	5 19.03	
RUDP-CA-288	6-Mar-19	R-84	Chisang Khola	100.00	94.38	45.43	-	2.47	24.30	17.21/15.00		
RUDP-CA-289	8-Mar-19	T2L25B	Chisang Khola	100.00	96.63	46.87	2.67	2.57	28.10	21.24/19.99	-	
RUDP-CA-290	9-Mar-19	T3L6	Chisang Khola	100.00	06'96	45.27	-	2.89	27.76	20.19/18.73		
RUDP-CA-291	10-Mar-19	T3L23C	Chisang Khola	100.00	26.96	47.59		2.48	25.12	18.90/16.16	+	
RUDP-CA-292	11-Mar-19	TIL5A	Chisang Khola	100.00	12.96	48.18		2.38	26.10	19.37/17.94		
RUDP-CA-293	12-Mar-19	R-2	Chisang Khola	100.00	97.21	50.85	+	2.79	25.04	22.08/20.32	+	
KUDF-CA-294	14-Mar-19	K-2	Chisang Khola	100.00	95.93	-		2.78	27.76	19.88/16.13	-	
RUDP-CA-295	15-Mar-19	R-9B	Chisang Khola	100.00	96.92	-	5.52	2.44	25.10	18.12/14.96		
RUDP-CA-296	16-Mar-19	R-23	Chisang Khola	100.00	95.81	_	8.13	2.20	20.84	17.53/14.23	18.51	
	17-Mar-19	R-84	Chisang Khola	100.00	94.96	56.92		2.70	24.02	20.21/15.78	3 21.49	
RUDP-CA-298	19-Mar-19	Koshi-yard	Chisang Khola	100.00	94.57		8.92	2.90	23.10	19.90/16.32	H	
RUDP-CA-299	20-Mar-19	CN2CN3	Chisang Khola	100.00	95.76	54.48	17.92	2.99	26.22	17.42/15.28	3 22.56	
RUDP-CA-300	21-Mar-19	R-84	Chisang Khola	100.00	61.76	52.18	18.84	2.27	24.24	17.10/16.86	5 20.76	
			Spec. Limit :	100	85~100	0-20	0-25	0~2	35	< 25	< 25	1
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	S	Contractor							Consultant	tant		
\simeq	G CONSTRUCTION ENGINEERING	TION GROUP RING CO. LT	ZHONGHENG CONSTRUCTION GROUPINTERNATIONAL ENGINEERING CO. LTD	T,	BUL	LDING I B.N. C	DESIG	N AUTI	K PYT.	NG DESIGN AUTHORITY (MALED IN JOINT VE N. CONSULTANCY PYT. LTD AND PLUS ENGI ARCHITECTS (PLITD, KATHWARDU, NEPAL	N JOINT PLUS EN DU, NEF	BUILDING DESIGN AUTHORITY (BYLEED IN JOINT VENTURE WITH B.N. CONSULTANCY PYT. LTD AND PLUS ENGINEERS & ARCHITECTS (P. L/TD, KATTHMARDU, NEPAL
			B			3	De	×	EN TOUR	Po V	III	3
Checked By Engineer			Submitted By Contract Manager	By	Verified By Expert Oty Surveyor/CSE	Verified By	yor/CSI	(1)			App	Approved By Team Leader



		· C	Contract No:- RUDP/ICB/BRT-02	Contract No:- RUDP/ICB/BRT-02	UDP/IC	D/DRI	-02					
		ōl .	Summary Sheet of Monthly Lest Report of Zumm Agg.	Month	v lest k	eporto	1 20mm	Agg.			Page	Page no 1 of 2
									Month	nth	March	rch
									Year	ar	2019	61
									Type of Material	Material	20 mm Agg	Agg 1
Lab.Ref no.	Date of Testing	Location of Sample	Source of Sample	Sieve Si	Sieve Size in mm / % Passing by weight	1 % Pas	sing by	weight	L.A.A.%	Fland EI %	A.I.V.%	Remarks
RUDP-CA-301	1 22-Mar-19	Madhumara Yard	Chisang Khola	100.00	97.22	48.41	-	2.31	26.02	21.37/18.46	19.65	
RUDP-CA-302	2 23-Mar-19	TILS	Chisang Khola	100.00	96.15	46.40	-	2.68	29.76	19.38/18.49	20.53	
RUDP-CA-303	3 23-Mar-19	R-82	Chisang Khola	100.00	97.46	38.04	15.65	2.93	26.14	21.63/20.74	19.70	
RUDP-CA-304		R-110	Chisang Khola	100.00	97.33	35.96	11.61	2,67	22.70	18.18/16.76	21.70	
RUDP-CA-305		Rani site	Chisang Khola	100.00	94.95	30.27	11.37	3.10	26.02	19.58/18.37	20.50	
RUDP-CA-306		R-2	Chisang Khola	100.00	96.25	23.75	9.10	2.94	23.10	19.80/18.56	19.33	
RUDP-CA-307	4	DDC Yard	Chisang Khola	100.00	97.05	60.57	3.49	1.36	26.10	20.53/17.56	17.74	
RUDP-CA-308		R-7	Chisang Khola	100.00	98.47	62.16	2.98	1.44	26.10	16.01/13.22	21.59	
RUDP-CA-309		R-82	Chisang Khola	100.00	94.15	58.54	4.48	1.74	28.10	19.33/14.46	20.91	
RUDP-CA-310	0 29-Mar-19	DDC Yard	Chisang Khola	100.00	93.61	46.64	3.80	1.70	27.76	16.44/14.07	20.72	1
									1	1)	
										\		
							8					
			Spec. Limit:	100	85~100	02~0	0-25	6-5	35	<25	<25	
	9	Contractor							Consultant	fant		
IONGHE	NG CONSTRUC ENGINE	ONSTRUCTION GROUP I	ZHONGHENG CONSTRUCTION GROUP INTERNATIONAL ENGINEERING CO. LTD	AL.	BUI	LDING H B.N.	CONSI CONSI	GN AU ULTAN ECTS (CV PWT	BUILDING DESIGN AUTHORITY (P) LTD IN JOINT VENTURE WITH B.N. CONSULTANCY (WITH BAN) PLUS ENGINEERS & ARCHITECTS (P) (TD), KATHMANDU, NEPAL	JOINT V JUS ENGI	ENTURE INEERS &
3			0			0	J.	×	B	NPLUS	3	
Stadhan Checked By Engineer			Submitted By Contract Manager	By	Verified By	Verified By	y k	E .		311	Approved By	ed By
Pushpak Pradhan			Rahindra K Thabur	agon	Capella	Ame Air	veyou.	OE.			Lealin	eam Leader



Particular Countred No. R IDDITCH BRIT - AGE Location of Work chi: SUMMARY FOR THE MONTH OF MARCH 2019 Nat. Property Countred No. R IDDITCH BRIT - AGE Location of Work chi: 20 16 9.5 4.75 2.36 0.6 0.075 2.77 3.31 3.40 16.40 Location of Work chi: 20 16 9.5 4.75 2.36 16.40 Location of Work chi: 20 16 9.5 4.75 2.36 16.40 Location of Work chi: 20 16 9.5 4.75 2.36 16.40 Location of Work chi: 20 16 9.5 4.75 2.36 16.40 Location of Work chi: 20 16 9.5 4.75 2.36 16.40 Location of Work chi: 20 16 9.5 4.75 2.36 16.40 Location of Work chi: 20 16 9.5 4.75 2.36 16.40 Location of Work chi: 20 16 9.5 4.75 2.36 16.40 Location of Work chi: 20 16 9.5 4.75 2.37 16.41 Location of Work chi: 20 16 9.5 4.75 2.36 16.40 Location of Work chi: 20 16 9.5 4.75 2.37 16.41 Location of Work chi: 20 16 9.5 4.75 2.37 16.41 Location of Work chi: 20 16 9.5 4.75 2.37 16.41 Location of Work chi: 20 16 9.5 4.75 2.37 16.41 Location of Work chi: 20 16 9.5 4.75 2.37 16.41 Location of Work chi: 20 16 9.5 4.75 2.37 16.41 Location of Work chi: 20 16 9.5 4.75 2.37 16.41 Location of Work chi: 20 16 9.5 4.75 2.37 16.41 Location of Work chi: 20 16 9.5 4.75 2.37 16.41 Location of Work chi: 20 16 9.5 4.75 2.37 16.41 Location of Work chi: 20 16 9.5 4.75 2.37 16.41 Location of Work chi: 20 16 9.5 4.75 2.37 16.41 Location of Work chi: 20 16 9.5 4.75 2.37 16.41 Location of Work chi: 20 16 9.5 4.75 2.37 16.41 Location of Work chi: 20 16 9.5 4.75 2.37 16.41 Location of Work chi: 20 16 9.5 4.75 2.37 16.41 Location of Work chi: 20 16 9.5 4.75 2.37 17.10 6.6 6.5 5.70 2.37 16.39 Location of Work chi: 20 16 9.5 4.75 2.37 17.10 6.6 6.5 5.70 2.37 16.39 Location of Work chi: 20 16 9.5 5.70 2.37 16.39 Location of Work chi: 20 16 9.5 5.70 2.37 17.10 6.6 6.5 5.70 2.37 17.10 6.6 6.5 5.70 2.37 17.10 6.6 5.70 2.37 17.10 6.6 5.70 2.37 17.10 6.6 5.70 2.37 17.10 6.6 5.70 2.37 17.10 6.6 5.70 2.37 17.10 6.6 5.70 2.37 17.10 6.70 2.30 16.30 2.37 17.10 6.3				REGIONAL URBAN DEVELOPMENT PROJECT	IONA	UKB	AL DE	TOTAL	MENT	1000							
Contract No. 8tt Diptr (DeBRT-Q2 Contract No. 8tt Diptr (DeBRT-Q2 SUMMARY FOR THE MACHAEL METHOD (AASHTO T 245-78)						Biratna	agar Me	tropolita	n City								
SUMMARY FOR THE MONTH OF MARCH 2019 SUMMARY FOR THE MARCH 2019 SUMMARY FOR THE MONTH OF MARCH 2019 SUMMARY FOR THE MARCH 2019 SUMMARY FOR						Contrac	t No: RU	DP/ICB/E	3RT-02								
Mit Agg Cradation March 2019 March 201				Test Resul	It BY	MARSH	ALL M	ETHOL		SHTO	T 245-	(8)					
Location of Work ch: 20 16 95 4.75 2.36 0.6 0.075 75 75 75 75 75 75 75				SUMMA	RY FC	R THE	MON	TH OF	MARCH	1 2019							P.g 1of 1
Part			jo	Thorn.			Mix / % Passit	Agg Gracig Sieve	lation Sizes mn	_		Bitumen Content From		Air Voids		Stability	
1032019 R-85, 0+000 to 0+137 100 100 78.78 1532019 R-84a, 0+000 to 0+070 100 100 78.24 1632019 R-87&R-84b, 0+000 to 0+070 100 100 78.26 1632019 R-87&R-84b, 0+000 to 0+137&0+000 to 100 77.92 1632019 R-11, 0+000 to 0+137&0+000 to 100 77.92 1632019 R-11, 0+000 to 0+255 to 0+455 100 100 77.92 1632019 R-37&R-7(713L6), 0+000 to 0+270 100 100 78.89 1632019 R-45, 0+000 to 0+270 100 100 78.99 1632019 R-45, 0+000 to 0+210&0+00 100 100 79.41 1632019 R-188, 0+000 to 0+210&0+00 100 100 79.41 1632019 R-188, 0+000 to 0+16 100 78.89 16420 16420 1660 to 0+16 166 166 78.90 1632019 R-188, 0+000 to 0+16 166 160 78.90 1632019 R-18, 0+000 to 0+15\$C 0+000 to 0+15\$C 0+000 100 78.89 1632019 R-10, 0+000 to 0+15\$C 0+000 to 100 78.89 1632019 R-10, 0+000 to 0+15\$C 0+000 to 100 78.89 1632019 R-10, 0+000 to 0+15\$C 0+000 to 100 78.89 1632019 R-10, 0+000 to 0+15\$C 0+000 to 100 78.89 1632019 R-10, 0+000 to 0+15\$C 0+000 to 100 78.89 1632019 R-10, 0+000 to 0+15\$C 0+000 to 100 78.89 1632019 R-10, 0+000 to 0+21\$C 0+000 to 100 78.89 1632019 R-10, 0+000 to 0+15\$C 0+000 to 100 78.89 1632019 R-10, 0+000 to 0+15\$C 0+000 to 100 78.89 1632019 R-10, 0+000 to 0+15\$C 0+000 to 100 78.89 1632019 R-10, 0+000 to 0+21\$C 0+000 to 100 78.89 178.89 178.89 179 179 179 179 179 179 179 179 179 17			guj	WOLK	20	91	9.5	4.75	2,36	9.0	0.075	Test %	gm/cc	%	VMA 76	z	Maria Maria
R-84a, 0+000 to 0+070 100 100 78.24 R-12, 0+420 to 0+680 100 100 78.26 R-13, 0+420 to 0+680 100 100 78.46 D-230 R-11, 0+000 to 0+137&0+000 to 100 77.92 R-11, 0+000 to 0+200 100 100 77.92 R-37&R-84b, 0+000 to 0+250 100 100 78.89 R-37&R-7(T31.6), 0+000 to 1455 100 100 78.89 R-37&R-7(T31.6), 0+000 to 0+250 100 100 78.14 R-36, 0+000 to 0+200 100 100 79.43 R-36, 0+000 to 0+200 100 100 79.43 R-36, 0+000 to 0+145 100 100 79.43 R-36, 0+000 to 0+145 100 100 78.89 R-36, 0+000 to 0+145 100 100 78.89 R-12, 0+680 to 0+075&0+000 to 100 78.89 R-13, 0+000 to 0+075&0+000 to 100 78.89 R-13, 0+000 to 0+075&0+000 to 100 78.89 R-10, 0+0680 to 0+155 100 100 78.89 R-10, 0+000 to 0+155 100 100 100 78.89 R-10, 0+000 to 0+155 100 100 100 78.89 R-10, 0+000 to 0+155 100 100 100 100 78.89 R-10, 0+000 to 0+155 100 100 100 100 100 100 R-10, 0+000 to 0+155 100 100 100 100 100 R-10, 0+000 to 0+155 100 100 100 100 100	45	-	610	R-85, 0+000 to 0+137	100	100	78.78	56.08	35.28	17.46	6.85	5.74	2.373	3.12	16.43	11764	2.30
R-12, 0+420 to 0+680 100 100 78.26	2	-	6103	R-84a, 0+000 to 0+070	100	100	78.24	56.79	36.94	18.68	7.01	5.80	2,373	3.05	16.49	11941	2.45
R-87&R-84b, 0+000 to 0+137&0+000 to 100 100 77.92	-		6103	R-12, 0+420 to 0+680	100	100	78.26	55.57	34.37	16.76	6.58	5.69	2.371	3.29	16.46	10945	2,33
R-11, 0+000 to 0+200 100 100 77.92	10	-	- 77	37&R-84b, 0+000 to 0+137&0+000 to 0+230	100	100	78.46	55.43	34.63	16.91	19.9	5.77	2,373	3.09	16.46	11863	2.43
R-90, 0+255 to 0+455 100 100 78.89	-	-	610	R-11, 0+000 to 0+200	100	100	77.92	54.68	33.67	16.37	6.28	5.78	2.371	3.18	16.56	12018	2.42
R-37&R-7(T3L6), 0+000 to 100 100 78.99			610	R-90, 0+255 to 0+455	100	100	78.89	55.98	35.71	16.41	6.01	5.74	2.372	3.17	16.47	12085	2.28
7/3/2019 R-45, 0+000 to 0+270 100 100 79.11 7/3/2019 T3L6, 0+000 to 0+145 100 100 78.14 7/3/2019 T3L6-A&R-90, 0+000 to 0+200 100 100 79.43 7/3/2019 T3L6-A&R-90, 0+000 to 0+210&0+000 100 100 79.64 7/3/2019 R-128, 0+000 to 0+255 7/3/2019 R-128, 0+000 to 0+000 100 100 78.90 7/3/2019 R-12, 0+680 to 0+840 100 100 78.89 7/3/2019 R-12, 0+680 to 0+840 100 100 78.89 7/3/2019 R-12, 0+680 to 0+335 100 100 78.99 7/3/2019 R-10, 0+000 to 0+315 7/3/2019 R-10, 0+000 to 0+215 7/3/2019 R-10, 0+000 t	60		610	R-37&R-7(T3L6), 0+000 to 0+220&0+160 to 0+320	100	100	78.99	56.19	36.03	16.72	6.32	5.74	2.372	3.18	16.47	12140	2.37
73.2019 T3L6, 0+000 to 0+145 100 100 78.14 R-86, 0+000 to 0+200 100 100 100 79.43 R-86, 0+000 to 0+210&0+000 100 100 79.43 R-12,0+000 to 0+210&0+000 100 100 78.90 1.33.2019 R-12,0+680 to 0+840 100 100 78.89 1.33.2019 R-12,0+680 to 0+840 100 100 78.89 2.33.2019 R-12,0+680 to 0+840 100 100 78.89 2.33.2019 R-12,0+680 to 0+840 100 100 78.89 2.33.2019 R-10,0+000 to 0+335 100 100 78.89 3.33.2019 R-10,0+000 to 0+215 Specifiacations Specifiacation Table24-10 ±5% Nill ±5% Specifiacation Table24-10 ±5% Nill ±5%	-		610	R-45, 0+000 to 0+270	100	100	11.67	56.31	35.63	16.22	6.04	5.70	2.372	3.23	16.43	11974	2.53
833/2019 R-86, 0+000 to 0+200 100 100 79.43 F3.2019 T3L6-A&R-90, 0+000 to 0+210&0+000 100 79.64 833/2019 T2L27&R-33, 0+000 to 0+0116 100 100 78.90 F2.302019 R-12,0+680 to 0+840 100 100 78.89 F3.3019 R-12,0+680 to 0+840 100 100 78.89 F3.3019 R-10, 0+000 to 0+335 100 100 78.89 F3.302019 R-10, 0+000 to 0+355 100 100 78.89 Specifications Specifications Contractor Contractor Contractor Contractor Submitted By Value Contractor Contractor			610	T3L6, 0+000 to 0+145	100	100	78.14	26.07	36.45	9.91	6.42	5.75	2,371	3.20	16.51	11863	2.37
73.L6-A&R-90, 0+000 to 0+210&0+000 100 100 78.50 R-188, 0+000 to 0+116 100 100 78.90 R-188, 0+000 to 0+075&0+000 100 78.80 R-188, 0+000 to 0+075&0+000 100 78.80 R-19, 0+000 to 0+840 100 100 78.89 R-10, 0+000 to 0+335 100 100 78.89 R-10, 0+000 to 0+15, 0+000 to 100 78.89 R-10, 0+000 to 0+15, 0+000 to 100 78.89 Specifications OMIX Tolerances from RUDP Specification Table24-10 ±5% NGHENG CONSTRUCTION GROUP INTERNATIONAL ENGINEERING CO. LTD Submitted By	-	-	610	R-86, 0+000 to 0+200	100	100	79.43	56.31	35.85	15.92	5.95	5.69	2.367	3.44	16.59	11952	2.37
R-188, 0+000 to 0+116 100 100 78.90 T2L27&R-33, 0+000 to 0+075&0+000 to 100 78.80 T2L27&R-33, 0+000 to 0+075&0+000 to 100 78.80 O+280				L6-A&R-90, 0+000 to 0+210&0+000 to 0+255	100	100	79.64	58.85	36.60	16.35	20.9	2,68	2,378	3.03	16.22	11841	2.40
T2L27&R-33, 0+000 to 0+075&0+000 to 0 100 78.80 1032019 R-12,0+680 to 0+840 100 100 78.79 100 100 78.89 12372019 R-10, 0+000 to 0+335 100 100 78.89 100 100 78.89 100 100 78.89 100 100 78.89 100 100 100 78.04 100 10			610	R-188, 0+000 to 0+116	100	100	18.90	56.31	36.27	16.76	96'9	5.70	2.370	3,32	16.51	11952	2.27
11,31,2019 R-12,0+680 to 0+840 100 100 78.79 21,31,2019 R-10, 0+000 to 0+335 100 100 78.89 31,31,2019 N-4,N-5&N-9, 0+000 to 0+152, 0+000 to 100 78.89 31,31,2019 O-10,68& 0+000 to 0+215 100 100 78.04 31,31,2019 O-10,68& 0+000 to 0+215 100 100 78.04 32,31,2019 O-10,68& 0+000 to 0+215 100 100 78.04 33,31,2019 O-10,68& 0+000 to 0+215 100 100 78.04 34,000 O-10,000 O-10,000 O-10,000 O-10,000 35,000 O-10,000 O-10,000 O-10,000 35,000 O-10,000 O-10,000 O-10,000 35,000 O-10,000 O	-	-		L27&R-33, 0+000 to 0+075&0+000 to 0+280	100	100	78.80	56.22	36.07	16.67	639	89'5	2.373	3.22	16.39	12107	2.30
12/3/2019			6102	R-12,0+680 to 0+840	100	100	78.79	55.88	36.37	17.06	6.46	5.71	, 2.368	3.37	16,58	11908	2.50
N-4,N-5&N-9, 0+000 to 0+152, 0+000 to 0	_			R-10, 0+000 to 0+335	100	100	78.89	26.08	36.67	17.58	92.9	5.73	2.374	3.11	16.39	12284	2,27
Specifacations Ob Mix Tolerances from RUDP Specifacation Table2.4-10 E. Contractor Contractor Submitted By Submitted By				4,N-5&N-9, 0+000 to0+152, 0+000 to 0+068& 0+000 to 0+215	100	100	78.04	54.92	35.83	16.95	6.55	5.72	2.370	3.31	16.54	12350	12.43
Signatures from RUDP Specification Table2-4-10 Contractor Contractor NGHENG CONSTRUCTION GROUP INTERNATIONAL ENGINEERING CO. LTD Submitted By				Specifacations	100	100-100	76-82	54-59	33-37	16-21	6 to 9	5.703	Min2.358	3-6%	215	≥ 8500	2-3
SUBMITTERNATIONAL ENGINEERING CO. LTD SUBMITTER BY Submitted By		Job Mis	ix Tolerance	se from RUDP Specifacation Table 2-4-10	72%	IIN	¥5%	±3%	+2%	*14%	=	±0.3%	7.07	25-51)mm	Thicknes	ss W/C Co	urse
Contractor ONGHENG CONSTRUCTION GROUP INTERNATIONAL ENGINEERING CO. LTD Submitted By	REM.	ARKS:										\	4				
Submitted By		ZHONGH	HENG CO	Contractor INSTRUCTION GROUP INTERNATIONAL ENG	INEERIN	G CO. LT	9	BUILDIN	IG DESIG	N AUTHO	RITY (P) I	ARD M JOH	NT VENT	JRE WITH	B.N. CON	ISULTANG	CY PVF.
	Pago	d By				Submitted	7 By	Verified By	8	3	1000	San Guiping	E J	US JIV *	0	Approved By	By



		MEGICINE ONDAY DEVELOT MENT FROJECT													
				Biratn	agar M	Biratnagar Metropolitan City	an City								
				Contra	et No: RI	Contract No: RUDP/ICB/BRT-02	BRT-02								
		Test Result BY MARSHALL METHOD	It BY	MARSH	ALLA	METHO		(AASHTO T 245-78)	T 245-	(82					
		SUMMARY FOR THE MONTH OF MARCH 2019	IRY FO	DR THE	MON	TH OF	MARC	H 2019							P.g 10f 2
S. LAB.	Date of	I contion of Work ob.			Mix % Passi	Mix Agg Gradation % Passing Sieve Sizes mm	dation Sizes mu			Bitumen Content From		Air Voids		Stability	
, ON	Laying		20	91	9.5	4.75	2.36	9.0	0.075	Test %	gm/cc	%	VMA %	Z	Flow mm
69	14/3/2019	T3L23, 0+080 to 0+280	100	100	78.15	55.14	35.09	16.53	6.03	5.71	2.369	3.34	16.55	11841	2.60
18 70 16/3	16/3/2019	R-10, 0+335 to 0+680	100	100	81.86	57.35	34.64	16.07	7.16	5.75	2.369	3.28	16.59	11664	2.33
16/31	16/3/2019	R-21&R-77, 0+000 to 0+208&0+000 to 080	100	100	82.07	57.46	34.75	16.19	7.28	5.74	2.374	3.10	16.41	11465	2.57
20 72 17/3	17/3/2019	R-17, 0+000 to 0+102	100	100	81.86	57.47	34.66	16.53	7.40	5.72	2,369	3.35	16.58	11642	2.33
73	18/3/2019	R-122, 0+000 to 0+250	100	100	81.97	57.48	34.90	16.66	7.65	5.69	2,367	3.45	16.60	96611	2.37
74	28/3/2019	Rani Hartali Hatt, 0+000 to 0+555	100	100	81.88	57.61	34.82	16.8	7.58	5.64	2,373	3.29	16.36	11841	2.27
75	29/3/2019	R-27, 0+000 to 0+310	100	100	82.18	58.01	35.74	16.22	7.85	5.70	2.370	3.30	16.50	11852	2.23
92	29/3/2019	R-76, 0+600 to 0+270	100	100	78.25	57.25	35.82	15.13	6.85	5.74	2.369	3.32	16.60	11952	2.40
25 77 30/3	30/3/2019	R-36, 0+600 to 0+218	100	100	16.08	56.72	33.81	15.78	6.87	5.73	2.372	3.21	16.48	11930	2.33
26 78 30/3	30/3/2019	T3L39&T3L39-A, 0+000 to 0+320&0+000 to 0+005	100	100	80.70	56.73	34.04	16.01	66.9	5.71	2.373	3.18	16.41	11974	2.23
27 79 31/3	31/3/2019	T3L21& T3L39-B, 0+000 to 0+530& 0+000 to 0+060	100	100	96.62	56.31	33,51	15.69	62.9	5.70	2.37	331	16.51	11908	2.43
1															
		Specifacations	100	100-100	76-82	54-59	33-37	16-21	6 to 9	5.703	Min2.358	3-6%	216	≥ 8500	2-3
Job	Mix Toler	Job Mix Tolerances from RUDP Specifacation Table2-4-10	72%	E N	#2%	+3%	±2%	#1%	E	±0.3%	For (25-51)mm	For (25-51)mm Thickness W/C Course	s W/C Co	urse
REMARKS:															
		Contractor				1		1000000		Consultant	Itant				
ZHONG	GHENG	ZHONGHENG CONSTRUCTION GROUP INTERNATIONAL ENGINEERING CO. LTD	INEERIN	G CO. LT	D	BUILDIN	IG DESIG	N AUTHOI PLUS EN	RITY (P) I	BUILDING DESIGN AUTHORITY (P) LTD IN JOINT BENTURE WITH B.N. CONSULTANCY PVT. LTD AND PLUS ENGINEERS & AROUTECTS (P), TD, KATHMANDU, NEPAL	LETS (P)	RE WITH	B.N. CON	ISULTANCI, NEPAL	CY PVT.
Madlan		THE WASHINGTON WITCHESSELLE	·	M	***************************************		800	3	3	neisal	UDP	SNIPLUS,		0	
Checked By Engineer			,	Submitted By	By	Verified By	Verified By	1		bur		JIV		Approved By	Approved By



			NEGL	KEGIONAL UKBAN DEVELOPMENT PROJECT Biratnagar Metropolitan City	SAN I)EVE	JRBAN DEVELOPME Biratnagar Metropolitan City	TENT	PRO	JECT			
				Contract No:- RUDP/ICB/BRT-02 Summary Sheet of Monthly Test Report of Fine Agg.	tract No	:- RUDP	Contract No:- RUDP/ICB/BRT-02 Sheet of Monthly Test Report of J	r-02 t of Fine	Agg.				
													Page no 1 of 1
										Month	th	M	March
										Year	7	2(2019
										Type of Material	of iei	Fine	Fine Agg.
1	Tak Dafue	Date of	Location of	3		Si	Sieve Size in mm / % Passing by weight	nm/%Pa	ssing by we	eight		Clay	-
S.II.	Lab.Kei no.	Test	Sample	source of sample	10	S	2.36	1.18	0.600	0.300	0.150	Contetnt%	Kemarks
-	RUDP-CS-281	2-Mar-19	T3L6A	Chisang Khola	100.00	92.65	73.36	16.65	24.13	14.80	6.82	1.05	
2	RUDP-CS-282	3-Mar-19	R-2	Chisang Khola	100.00	95.23	69.79	35.46	22.13	14.54	7.67	1.12	
3	RUDP-CS-283	4-Mar-19	R-84	Chisang Khola	100.00	93.96	63.31	33.10	23.91	15.24	7.44	1.15	
4	RUDP-CS-284	4-Mar-19	T1L5-A	Chisang Khola	100.00	94.13	76.83	55.35	40.25	29.25	8.39	1.49	
2	RUDP-CS-285	5-Mar-19	T2L23C	Chisang Khola	100.00	91.55	98.89	50.89	36.21	25.00	8,63	1.71	
9 1	RUDP-CS-286	6-Mar-19	T2L23C	Chisang Khola	100.00	92,40	63.07	47.88	28.97	14.45	6.70	1.42	
- 0	RUDP-CS-287	7-Mar-19	T2L25B	Chisang Khola	100.00	92.64	66.10	51.09	35.79	14.89	5.18	1.62	
0	RUDE-CS-288	O.Mar.19	T21 22C	Chicang Khola	100.00	95.30	62 63	50.06	33,39	10.70	7.07	1.41	
10	+-	10-Mar-19	T2L19B	Chisang Khola	100.00	93.70	73.37	45.85	30.30	15.95	2.71	1.96	
=	-	11-Mar-19	Koshi Yard	Chisang Khola	100.00	94.13	74.71	51.76	42.28	24.30	5.78	2.30	
\rightarrow	$\overline{}$	12-Mar-19	TIL5-A	Chisang Khola	100.00	95.30	74.79	42.98	34.54	22.35	8.44	2.05	
13	_	14-Mar-19	T2L24E	Chisang Khola	100.00	92.49	70.02	35.38	27.50	16.13	8.73	1.21	
-		15-Mar-19	Madhumara Yard	Chisang Khola	100.00	90.76	90.69	40.24	33.73	18.60	6.51	1.05	
\rightarrow	\rightarrow	17-Mar-19	R-2	Chisang Khola	100.00	93.31	71.06	44.87	35.05	21.99	10.52	1.62	
16	RUDP-CS-296	19-Mar-19	R-44	Chisang Khola	100.00	92.97	81.32	54.79	37.28	22.40	12.41	1.50	
1				Spec. Limit :	100	89~100	001~09	30~100	15~100	2~20	0~15	8	
			Prentmenton							1	1)	
ZH	ONGHENG	ONSTR	NSTRUCTION GROUP I	ZHONGHENG CONSTRUCTION GROUP INTERNATIONAL ENGINEERING COLLID	ONAL	BUILD	ING DES	IGN AU SULTAN	THORI ICY PVI	LY (P) L	ED IN JO ND PLU	DING DESIGN AUTHORITY (P) LTD IN JOINT VENTURE 'S B.N. CONSULTANCY PVT. LTD AND PLUS ENGINEERS & ARCHITECTS (P) LTD. JAKTHMANDLI NEPAT	BUILDING DESIGN AUTHORITY (P) LTD IN JOINT VENTURE WITH B.N. CONSULTANCY PVT. LTD AND PLUS ENGINEERS & ARCHITECTS (P) LTD. REACHMANDEL NEPAL
			40						100		100		1
(0)	Padlan	9		A. C.			Monda	To her	Bisall Brid	RUDE	NIPLUS JO	8	
ingin	Engineer Pushpak Pradhan			Contract Manager		Expert Qty S	Expert Qty Surveyor/CSE	or/CSE	100	# Birating	6	Team Leader	ader ader



			KEGI	REGIONAL URBAN DEVELOPMENT PROJECT Biratnagar Metropolitan City	AN I	Metro		TENT City	PRO	JECT			
				Contract No:- RUDP/ICB/BRT-02 Summary Sheet of Monthly Test Report of Fine Agg.	ract No	:- RUDP	Contract No:- RUDP/ICB/BRT-02 Sheet of Monthly Test Report of I	T-02 t of Fine	Agg.				
												Page	Page no 1 of 2
										Month	th	M	March
										Year	L.	2	2019
										Type of Material	of	Fin	Fine Agg.
S.n.	Lab.Ref no.	Date of	Location of	Source of Sample	3	-1	eve Size in	Sieve Size in mm / % Passing by weight	sing by we		00.00	Clay	Remarks
17	TOC 30 BUILD	16 Mar 10	Sample	Olivery Whele	100 001	5	2.36	1.18	0.600	0.300	0.150	Contetnt%	1
18	RUDP-CS-298	21-Mar-19		Chisang Khola	100.00	96.49	77.32	57.42	34.58	19.09	10.93	1.84	,
61	RUDP-CS-299	22-Mar-19		Chisang Khola	100.00	91.54	63.74	47.22	25.79	14.10	6.45	2.03	
20	RUDP-CS-300 23-Mar-19	23-Mar-19	Madhumara Yard	Chisang Khola	100.00	92.85	68.37	44.13	24.10	13.18	5.72	1.50	
21		23-Mar-19		Chisang Khola	100.00	93,93	70.18	43.49	19.74	9.14	5.56	1.03	
22	RUDP-CS-302	24-Mar-19		Chisang Khola	100.00	91.65	66.34	45.29	19.41	99.6	4.91	1.47	1
23		24-Mar-19		Chisang Khola	100.00	93.07	73.23	52.53	25.21	17.04	7.39	2.07	
25	RUDP-CS-304	25-Mar-19	DDC Vend	Chisang Khola	100.00	92.33	27.55	50.64	24.68	14.60	0.70	1.54	
36		28-Mar-19	Ž	Chisang Khola	100.00	93.08	66.56	40.70	25.80	18.67	6.45	1.15	
27		28-Mar-19	-	Chisang Khola	100.00	94.00	65.40	40.32	22.60	15.18	6.36	1.03	
28	RUDP-CS-308	28-Mar-19	CN2CN3	Chisang Khola	100.00	91.30	64.23	56.45	26.70	15.71	7.48	1.28	
29	RUDP-CS-309 28-Mar-19	28-Mar-19	R-7	Chisang Khola	100.00	65.46	73.45	65.03	39.58	29.06	10.22	1.47	
30	RUDP-CS-310	29-Mar-19	Madhumara Yard	Chisang Khola	100.00	94.98	69.41	85.65	31.49	20.06	8.02	1.79	
				Spec. Limit :	100	89~100	001-09	30~100	15~100	5~70	0~15	8	
										1	1	1	
		Men .	Contractor						С	Consultant			
ZI	HONGHENG (CONSTR	DISTRUCTION GROUP I	ZHONGHENG CONSTRUCTION GROUP INTERNATIONAL ENGINEERING CO. LTD	NAL	BUILD	ING DES	IGN AU SULTAN	CY PVI	CY (P) L.	ND PLU	DING DESIGN AUTHORITY (P) LTD IN JOINT VENTURE 'S B.N. CONSULTANCY PVT. LTD AND PLUS ENGINEERS & ARCHITECTS (PLATE), KATHMANDU, NEPAL	BUILDING DESIGN AUTHORITY (P) LTD IN JOINT VENTURE WITH B.N. CONSULTANCY PYT, LTD AND PLUS ENGINEERS & ARCHITECTS (P), LTD, KATHMANDU, NEPAL
8	Nathen	· F		A			000	1	Gisag Build	adm	MIPLUS J	8	
Che Engi Push	Checked By Engineer			2 2 2		Verified By Expert Qty S	Verified By Expert Qty Surveyor/CSE	or/CSE	1 41	Biratnagak		Approved By Team Leader	d By ader

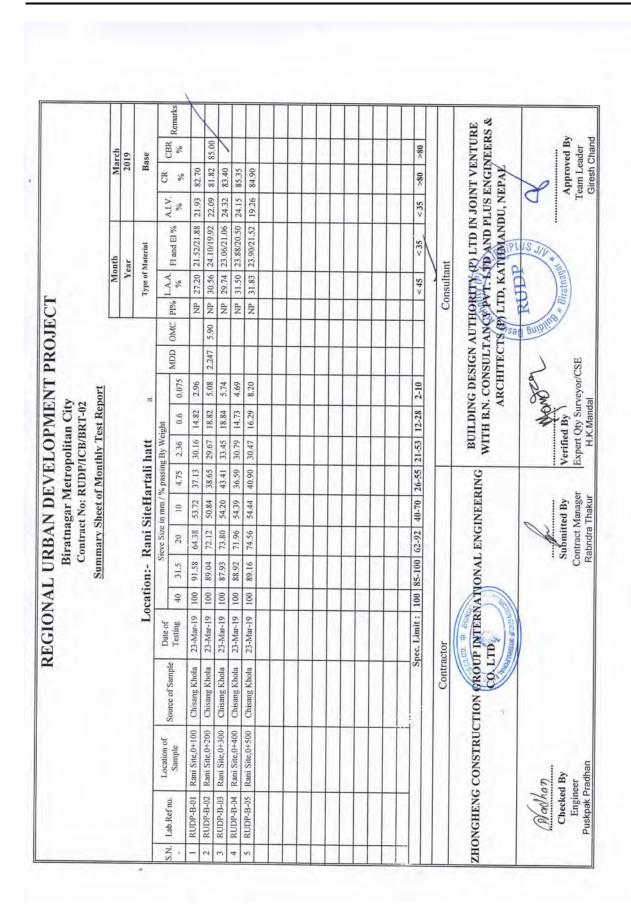


REGIONAL URBAN DEVELOPMENT PROJECT Biratnagar Metropolitan City Contract No:- RUDP/ICB/BRT-02 Summary Sheet of Monthly Test Report Month: Year 2019 Type of Sub grade Location:-R-2 Material Location/Chainage Lab.Ref no. Sn. Source of Sample Date of Testing MDD OMC CBR% Remarks RUDP-SG-01 R-2,(1+200) **Existing Road** 13-Mar-19 1.990 8.40 9.80 8.65 RUDP-SG-02 R-2,(1+500) **Existing Road** 13-Mar-19 1.988 8.15 8.05 7.43 RUDP-SG-03 3 R-2(1+900) Existing Road 14-Mar-19 1.990 10.90 8.30 8.00 5 RUDP-SB-04 R-2(2+300) Existing Road 14-Mar-19 1.982 7.50 8.12 7.89 Contractor Consultant BUILDING DESIGN AUTHORITY (P) LTD IN JOINT ZHONGHENG CONSTRUCTION GROUP INTERNATIONAL VENTURE WITH B.N. CONSULTANCY PVT. LTD AND ENGINEERING CO. LVD PLUS ENGINEERS & ARCHITECTS (P) LTD, KATHMANDUINEPAL -HOHZ NE OUT OUT pradhan Checked By Submitted By Verified By Approved By Engineer Contract Manager Expert/Qty Surveyor Team Leader Pushpak Pradhan Rabindra Kr. Thakur H.K.Mandal Giresh Chand



-5		19	1	Remarks	1	1	1	1						B.N. LTD,		7
March	DIA	2019	Strength N/mm²	28 Days	47.52	48.03	47.47	47.16			>43	1		E WITH	Approved By	Giroch Chand
			Strengt	7 days				27.34	28.37	26.21	>23	1		ENTURI	A A	2
Month		Year	Testing	28 Days	3-Mar-19	14-Mar-19	17-Mar-19	31-Mar-19	13-Apr-19	20-Apr-19				IN JOINT VI NEERS & A EPAL	PLUS JIV *	
Biratnagar Metropolitan City Contract No:- RUDP/ICB/BRT-02 SUMMARY SHEET OF CEMENT TEST			Date of Testing	7 Days	10-Feb-19	21-Feb-19	24-Feb-19	10-Mar-19	23-Mar-19	30-Mar-19			Consultant	BUILDING DESIGN AUTHORITY (P) LTD IN JOINT VENTURE WITH B.N. CONSULTANCY PVT. LTD AND PLUS ENGINEERS & ARCHITECTS (P) LTD, KATHWANDELNEPAL	RUDP P+ Birotnage	
ty 02			Date of	Casting	3-Feb-19	14-Feb-19	17-Feb-19	3-Mar-19	16-Mar-19	23-Mar-19				SN AUTHORI VT. LTD AND KAT	Sissa Built	
Biratnagar Metropolitan City Contract No:- RUDP/ICB/BRT-03 SUMMARY SHEET OF CEMENT TEST			Soundnes Fineness(%	_				2.44	1.72 /	2.42	<10			ING DESIC	ed By Surveyor	andal
Metrop RUDP/			Soundnes	s(mm)s				2.58	1.63 /	2.03	<10 /			BUILD	Verified By	HK Mandal
Contract No:- RUDP/ICB/BRT-02 SUMMARY SHEET OF CEMENT TEST		Ī		Final (min)				265.00	235.00	285.00	Max-600			ΑL		
Con		1	Consistancy & Setting Time	Initial(Min)				130.00	114.00	146.00	Min-30			'INTERNATIONAL ID	By nager	Thakur
		The last of the la	Consistanc	Normal Cons.(%) Initial(Min) Final (min)				31.50	30.25	29.25			ctor		Submitted By Contract Manager	Rabindra Kr. Thakur
		3	20	Date				2-Mar-19	15-Mar-19	22-Mar-19	it		Contractor	DNSTRUCTION GROU ENGINEERING CO. I		
			Type of cement		Saptakoshi OPC	Salimar Gold OPC	+	+	+	Saptakoshi OPC	Sp.Limit:			ZHONGHENG CONSTRUCTION GROU ENGINEERING CO. 1	Nadhar Checked By Engineer	Pushpak Pradhan
		401	S.N. Ref.no	,	1		38	39	40	41		Comments:-		ZHOŁ	Cho off	Pushpal
		4	S.N.		7	7	e .	4 1	2	٥		Com				







							Month Year	March 2019	
		Loca	tion:-Ra	ni site l	Hartali ha	tt T	ype of Material	Base	
27					e content %		y(gm/cc)	Compactio	on %
Sn.	Lab.Ref.no	Testing Date	Chainage	OMC%	Field MC%	Max.Dry density	Field Dry density,	Compaction %	Specifie
1	RUDP-B-FD-1, L/S	25-Mar-19	0+050	5.90	4.31	2.247	2.243	99.80	98
2	RUDP-B-FD-1, C/L	25-Mar-19	0+100	5.90	4.94	2.247	2.223	98.93	98
3	RUDP-B-FD-1, L/S	25-Mar-19	0+190	5.90	5.00	2.247	2.209	98.29	98
4	RUDP-B-FD-1, C/L	25-Mar-19	0+250	5.90	4.44	2.247	2.210	98.36	98
5	RUDP-B-FD-1, L/S	25-Mar-19	0+360	5.90	4.84	2.247	2,244	99.85	98
6	RUDP-B-FD-1, C/L	25-Mar-19	0+400	5.90	4.34	2.247	2.220	98.78	98
7	RUDP-B-FD-1, L/S	25-Mar-19	0+450	5.90	4.44	2.247	2.217	98.67	98
8	RUDP-B-FD-1, C/L	25-Mar-19	0+480	5.90	4.13	2.247	2.223	98.95	98
9	RUDP-B-FD-1, R/S	25-Mar-19	0+520	5.90	5.12	2.247	2.230	99.23	98
1	1077	UCTION GROU	JP VTD	BUILDIN	NG DESIGN A	UTHORITY AND PI	LUS ENGINEE IANDU, NEPA	OINT VENTURE WERS & ARCHITECT	TTH B.N. 'S (P) LTI

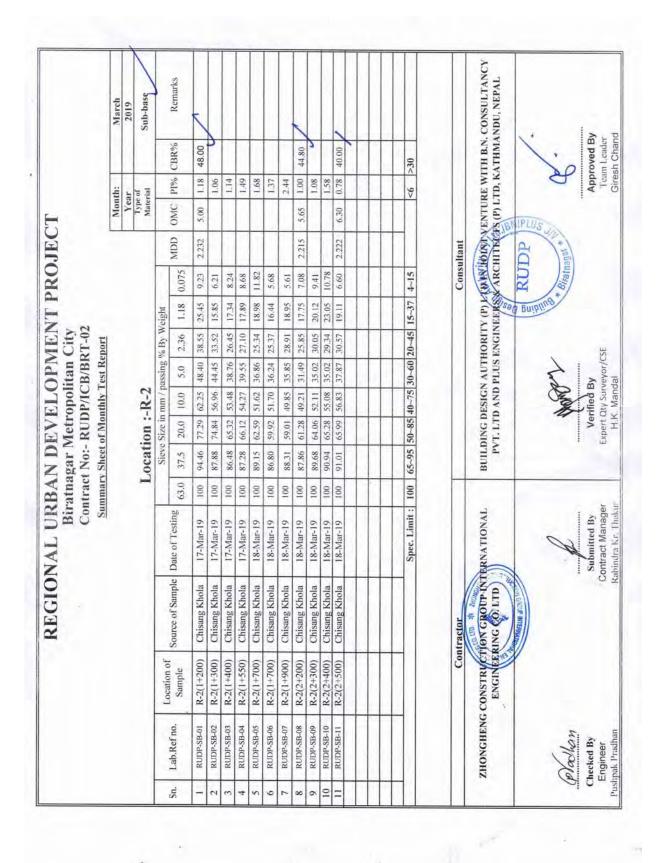


					REGIONA	L URBAN Biratnagar	REGIONAL URBAN DEVELOPMENT PROJECT Biratnagar Metropolitan City	MENT PR	OJECT			
					Daily Appli	cation Ra	Contract No: RUDP/ICB/BRT-02 Daily Application Rate Check for Priming work	/BRT-02	ng work			
Type	Type of Bitumen:80/100 P.G	80/100 P	9		SUMMAR	RY FOR T	HE MONTH	OF FEBR	SUMMARY FOR THE MONTH OF FEBRUARY 2019			
Cutt	Cutter Percentage:MC 70:MC30	e:MC 70:1	MC30								- 1	
NO N	Location	Date of Priming	From	Station	Side of Priming	Area of Priming	Intersection Area m2	Total Area M2	Bitumen Consumption (ltr)	Application Rate By Dip Lit/m2	Application Rate By Tray Test Lit/m2	
-	R-37	22-Feb-19	000+0	0+220	Both Side	9.659	0	659.6	700		1.05	
2	R-5	23-Feb-19	0+000	0+360	Both Side	1900.8	0	1900.8	2000	1.05 /	1.03 /	
m	R-63	23-Feb-19	0+200	0+420	Both Side	1683	0	1683	1800	1.07	1.03	
4	Xenial Front	24-Feb-19	0+000	0+200	Both Side	1096	0	1096	1200	1.09 /	1.05	
49	Xenial South	24-Feb-19	0+000	0+160	Both Side	548.8	0	548.8	9009	7 60.1	1.05	
9	R-183	24-Feb-19	000+0	0+500	Both Side	1364	0	1364	1450	1.06	1.05	
7	R-87	25-Feb-19	000+0	0+137	Both Side	891.87	0	891.87	950	1.07	1.03	
00	R-85	25-Feb-19	0+000	0+137	Both Side	657.6	0	657.6	700	1.06	1.04	
o.	R-12	25-Feb-19	0+420	0+680	Both Side	1612	0	1612	1750	1.09	1.05	
	S.	equired	speci	fication fo	Required specification for Prime coat 1.0 Lit/M2 ± 5%	at 1.0 Lit/	150	Specific	Specific Gravity of Bitumen 1.024	umen 1.024	-	
		1	Con	Contractor					Cons	Consultant		
	ZHONGHE	NG CONS	TRUCT	NSTRUCTION GROUP ENGINEERING CO. LTD	ZHONGHENG CONSTRUCTION GROUP INTERNATIONAL ENGINEERING CO. LTD	NAL	BUILDING	S DESIGN	AUTHORITY (P)	ORITY (P) LTD IN JOINT AND RUUS ENGINEERS (RTHMANDU, NEBAL	BUILDING DESIGN AUTHORITY (P) LTD IN JOINT VENTURE WITH B.N. CONSULTANCY PVT. LTD ANG REUS ENGINEERS & ARCHITECTS (P) LTD, KATHMANDU, NEBAL	1 B.N.
6	Podhan				H		8	20	Sised Baibi		P	
Checked Engineer Pushnak	Checked By Engineer				Submitted By Contract Manager		Expert Qty Surveyor/CSE	dyor/CSE	* Bira		Approved By Team Leader	



Both Side of Prime Coat 1.0 Lit/M2 ± 5% Specific Gravity of Consultance Consul		REGIONAL URBAN DEVELOPMENT PROJECT Biratnagar Metropolitan City Contract No: RUDP/ICB/BRT-02	Type of Bitumen:80/100 P.G SUMMARY FOR THE MONTH OF FEBRUARY 2019 Cutter Percentage:MC 70:MC30	Date of Station Side of Area of Intersection Priming From to Priming Area m2	0+000 0+070 Both Side 316.4	26-Feb-19 0+000 0+230 Both Side 1147.7 0	Total				Required specification for Prime coat 1.0 LiVM2 ± 5%	Contractor	ZHONGHENG CONSTRUCTION GROUP INTERNATIONAL ENGINEERING CO. LTD CONSULTY	
	119 Application Rate 1.07 1.08 1.08 This is a population Rate 1.08 This is a population Rate 1.08 Annon, Nepulation Rate RAIDIN JOIN 1.08 Annon, Nepulation Rate 1.09	PMENT PROJECT itan City B/BRT-02	H OF FEBRUARY 20	Total Area M2			12740				Specific Gravity of	0	NG DESIGN AUTHORIT) TANCY PVT. LTD AND/BI KATEN	Raibiling







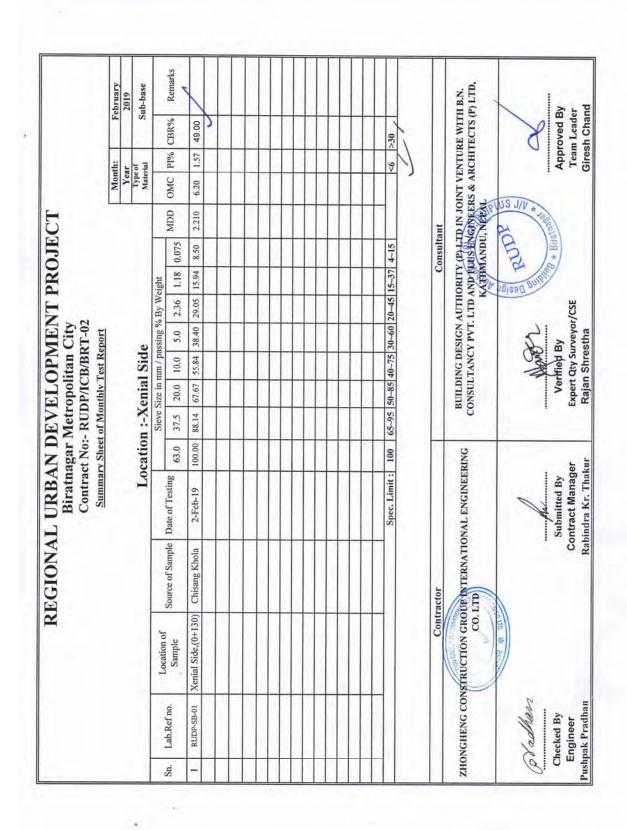
					UDP/ICB/ of Field Densi				
							Month	Ma	rch
							Year	20	19
			Loc	ation:-F			Type of Material	Sub-	Base
					e content %		ity(gm/cc)	Compa	
Sn.	Lab,Ref.no	Testing Date	Chainage	ОМС%	Field MC%	Max.Dr density		Compactio	Specifie
1	RUDP-SB-FD-1, R/S	19-Mar-19	1+200	6.30	5.81	2.222	2.144	96.49	95
2	RUDP-SB-FD-1, R/S	19-Mar-19	1+280	6.30	4.78	2.222	2.144	96.49	95
3	RUDP-SB-FD-1, C/L	19-Mar-19	1+350	6.30	5.95	2.222	2.187	98.41	95
4	RUDP-SB-FD-1, R/S	19-Mar-19	1+420	6.30	5.98	2.222	2.120	95.43	95
5	RUDP-SB-FD-1, C/L	19-Mar-19	1+500	6.30	5.98	2.222	2.152	96.83	95
6	RUDP-SB-FD-1, R/S		1+580	6.30	5.98	2.222	2.165	97.43	95
7	RUDP-SB-FD-1, L/S	19-Mar-19	1+620	6.30	5.40	2.222	2.156	97.45	95
8	RUDP-SB-FD-1, R/S	19-Mar-19	1+690	6.30	5.01	2.222	2.150		
9	RUDP-SB-FD-1, L/S	19-Mar-19	1+750	6.30	6.98			96.81	95
10	RUDP-SB-FD-2, L/S	20-Mar-19				2.222	2.130	95.85	95
11			1+800	6.30	6.34	2.222	2.134	96.02	95
_	RUDP-SB-FD-2, C/L	20-Mar-19	1+860	6.30	5.03	2.222	2.139	96.27	95
12	RUDP-SB-FD-2, R/S	20-Mar-19	1+900	6.30	5.97	2.222	2.186	98.39	95
13	RUDP-SB-FD-2, R/S	20-Mar-19	1+950	6.30	6.08	2.222	2.147	96.95	95
14	RUDP-SB-FD-2, C/L	20-Mar-19	2+220	5.65	6.08	2.215	2.149	97.04	95
15	RUDP-SB-FD-2, R/S	20-Mar-19	2+250	5.65	5.76	2.215	2.169	97.93	95
16	RUDP-SB-FD-2, L/S	20-Mar-19	2+320	5.65	5.32	2.215	2.158	97.42	95
17	RUDP-SB-FD-2, C/L	20-Mar-19	2+410	5.65	5.34	2.215	2.144	96.81	95
18	RUDP-SB-FD-2, L/S	20-Mar-19	2+500	5.65	6.34	2.215	2.134	96.37	95
				3					
								it i	
							4		
1	ZHONGHENG CONSTR NTERNATIONAL ENGIN	UCTION GRO	UP LTD	BUILDI B.N. CON	SULTANCY I	AUTHORI	Consultant TY (P) LTD IN J AND PLUS ENG THMANDU, NE	INEERS & AI	RE WITH
P	Vondhan	Submitted By		Verified	Segur !	0/	DP Jus	Approved E	

	March	Sub-base	\	CBR% Remarks		51.80	,					>30	1		BUILDING DESIGN AUTHORITY (P) LTD IN JOINT VENTURE WITH B.N. CONSULTANCY PVT. LTD AND PLACENGINGERS & ARCHITECTS (P) LTD, KATIMAN YDU, NEKKL	\ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \	Approved By Team Leader
	Month:	Type of	alectai	C PI%	1.74		1.35	3.12				9>)		VENTU	4	App
	M.	A ;		OMC		5.40	Щ			Ш					BRS &	IPLUS JIV	
			L	MDD		2.205								ant	FD IN J	RUDP	Enill P
S				0.075	6.94	7.46	10.81	7.65				4~15		Consultant	HORITY (P) LTD IN JOIN AND PLUS ENGINCERS KATHMANDU, NEKAL	N A)
1			Walaka	1.18	16.74	20.86	18.13	16.41		Ш		50-85 40-75 30-60 20-45 15-37			HORIT AND P KATIF	sed Briding	
1 20		(++6	O. D.	77.5 20.0 10.0 5.0 2.36 1.18	29.25	29.93	23.29	29.93				20-45			L.L.TD	Z.	щ
City RT-0		d ile		5.0	38.37	40,42	37.17	37.02	\perp			30~60			CY PV	3	rver/C
litan CB/B Test F		Had	1	10.0	5 52,45	8 53.04	18.91	9 53.52			1	5 40~7			DINGE		Otv Su
ropo DP/I		ito	2110	20.0	70.05	89'99	56.65	68.59	1		1	5 50-8			BUIL	7	Expert Oty Surver/CSE
Met RU:-RU		onic	Cio	100	93.84	92.04		88.88	\parallel		Ш	65~95					
agar et No		d		63.0	100	100	100	100	1			100			RING	7	Jer
Biratnagar Metropolitan City Contract No:- RUDP/ICB/BRT-02 Summary Sheet of Monthly Test Report		I acation . Panisite (Hadtali hatt)	Tocamo	Date of Testing	5-Mar-19	5-Mar-19	5-Mar-19	5-Mar-19				Spec. Limit:			AAL ENGINEE		Contract Manager
Biratnagar Metropolitan City Contract No:- RUDP/ICB/BRT-02 Summary Sheet of Monthly Test Report				Source of Sample	Chisang Khola	Chisang Khola	Chisang Khola	Chisang Khola						Pactor	P INTERNATION		3
				Location of Sample	Hadtali Hatt, (0+150)	Hadtali Hatt, (0+300)	Hadtali Hatt, (0+450)	Hadtali Hatt,(0+550)						enun aContra	ZHONGHENG CONSTRUCTION GROUP INTERNATIONAL ENGINEERING		
				Lab.Ref no.	RUDP-SB-01	RUDP-SB-02	RUDP-SB-03	RUDP-SB-04							ONGHENG CON	Station	Engineer
				Sn.	-	2	3	4							ZHO	810	, –



V-Co-co-co	Locat											
100000	Locat				-	Month	N.	larch				
33000		ion. Do	ni cito/I	Hadtali ha	44	Year		2019				
	Locat	ionixa	Moistur	e content %		Type of Material ity(gm/cc)		b-Base action %				
Lab.Ref.no	Testing Date	Chanage		Field MC%	Man	Field Dry	Compac	Specified				
UDP-SB-FD-1, L/S	7-Mar-19	0+090	5.40	5.58				95				
UDP-SB-FD-1, R/S	7-Mar-19	0+200	5.40	5.82				95				
UDP-SB-FD-1, L/S	7-Mar-19	0+290						95				
JDP-SB-FD-1, R/S	7-Mar-19				_			95				
	1				2,200	2.137	20.71	/ 93				
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	JDP-SB-FD-1, R/S JDP-SB-FD-1, L/S	JDP-SB-FD-1, R/S 7-Mar-19 JDP-SB-FD-1, L/S 7-Mar-19	JDP-SB-FD-1, R/S 7-Mar-19 0+200 JDP-SB-FD-1, L/S 7-Mar-19 0+290	JDP-SB-FD-1, R/S 7-Mar-19 0+200 5.40 JDP-SB-FD-1, L/S 7-Mar-19 0+290 5.40	JDP-SB-FD-1, R/S 7-Mar-19 0+200 5.40 5.82 JDP-SB-FD-1, L/S 7-Mar-19 0+290 5.40 4.70	JDP-SB-FD-1, L/S 7-Mar-19 0+090 5.40 5.58 2.205 JDP-SB-FD-1, R/S 7-Mar-19 0+200 5.40 5.82 2.205 JDP-SB-FD-1, L/S 7-Mar-19 0+290 5.40 4.70 2.205	JDP-SB-FD-1, L/S 7-Mar-19 0+090 5.40 5.58 2.205 2.142 JDP-SB-FD-1, R/S 7-Mar-19 0+200 5.40 5.82 2.205 2.113 JDP-SB-FD-1, L/S 7-Mar-19 0+290 5.40 4.70 2.205 2.146	JDP-SB-FD-1, L/S 7-Mar-19 0+090 5.40 5.58 2.205 2.142 97.13 JDP-SB-FD-1, R/S 7-Mar-19 0+200 5.40 5.82 2.205 2.113 95.84 JDP-SB-FD-1, L/S 7-Mar-19 0+290 5.40 4.70 2.205 2.146 97.34 JDP-SB-FD-1, P/S 7-Mar-19 0+290 5.40 4.70 2.205 2.146 97.34				

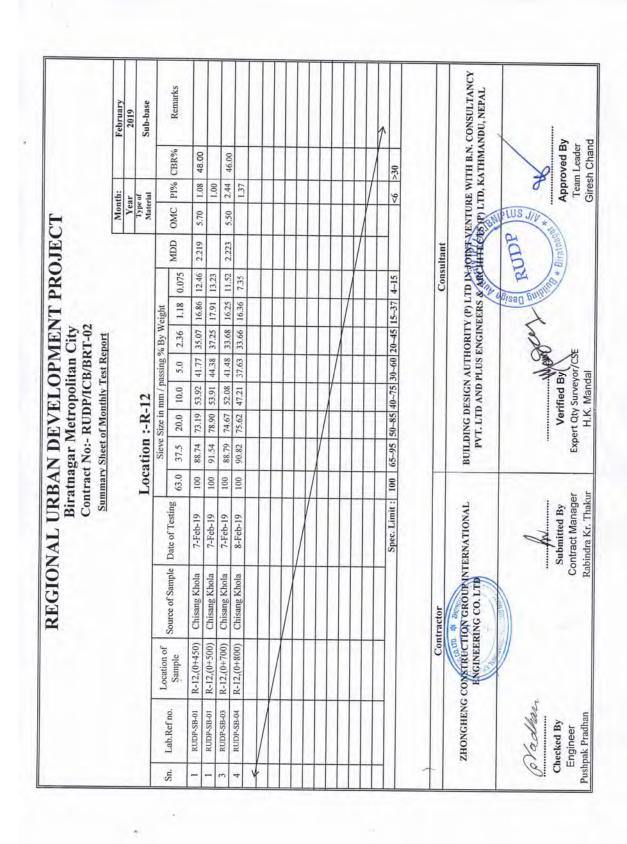






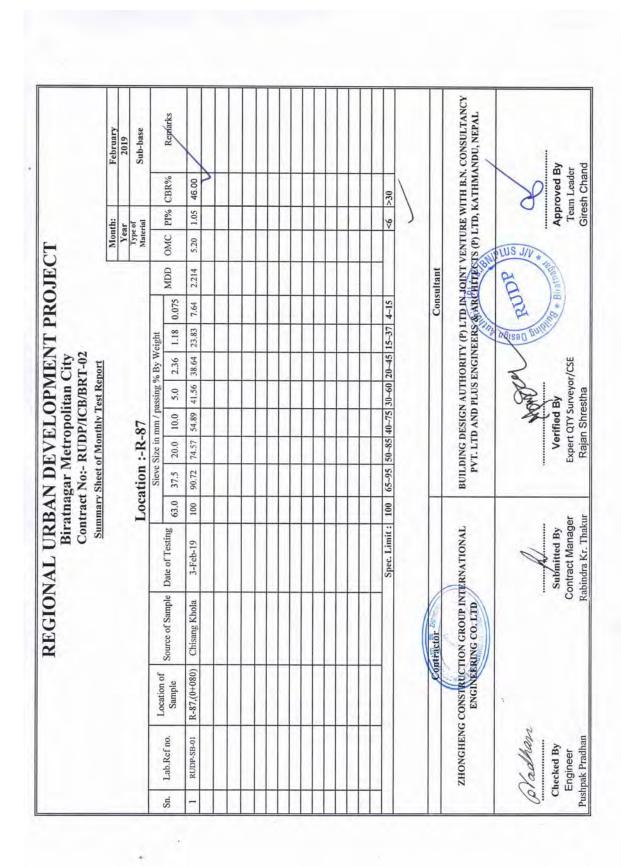
_							Month	Feb	ruary	
-							Year	2019		
	Location			n:-Xeni			Type of Material	Sub-Base		
	t t n c			Moisture content %			ity(gm/cc)	Compaction 9		
Sn.	Lab.Ref.no	Testing Date	Chanage	OMC%	Field MC%	Max.Dry density		Compac tion	Specifie %	
_	RUDP-SB-FD-1, L/S	1.1.00.13	0+030	6.20	5.01	2.210	2,126	96.21	95	
-	RUDP-SB-FD-1, R/S	4-Feb-19	0+085	6.20	6.15	2.210	2.111	95.53	95	
_	RUDP-SB-FD-1, L/S	4-Feb-19	0+120	6.20	5.17	2.210	2.156	97.58	95	
4	RUDP-SB-FD-1, R/S	4-Feb-19	0+145	6.20	5.02	2.210	2.142	96.91	95	
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	REGIO	Bi Co	ratnag intract l	ar Met No:- RU	ELOP tropolitar DP/ICB/E Field Density	City BRT-02	T PROJ	ECT		
						Month	F	ebruary		
¥ 120			400				Year	2019		
	Loc			tion:-R	e content %		Type of Material	Sub-Base		
Sn.	Lab.Ref.no	Testing Date	Chanaga				ity(gm/cc)		paction %	
	Dubitelino	resting Date	Chanage	OMC%	Field MC%	Max.Dry density		Compac		
1	RUDP-SB-FD-1, R/S	11-Feb-19	0+460	5.70	5.20	2.219	density, 2.127	tion 95.87	1 %	
2	RUDP-SB-FD-1, R/S	11-Feb-19	0+500	5.70	4.14	2.219	2.170	97.78	95	
3	RUDP-SB-FD-1, L/S	11-Feb-19	0+590	5.70	4.62	2.219	2.167	97.67	95	
4	RUDP-SB-FD-1, R/S	11-Feb-19	0+650	5.70	5,88	2.219	2.152		95	
4	RUDP-SB-FD-1, L/S	11-Feb-19	0+710	5.50	4.32	2.223		96.97	95	
4	RUDP-SB-FD-1, L/S	11-Feb-19	0+820	5.50	4.91	2.223	2.140	96.27	95	
K		11.100.12	0.020	3,30	4.91	4.223	2.194	98.70	95	
+										
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_										
	Contract	No State				Cons	sultant		7	
ZHONGHENG CONSTRUCTION GROUP INTERNATIONAL ENGINEERING COLLTD Of State of the Construction of the Constru			.TD	BUILDING DESIGN AUTHORFTY (P) LTD IN JOINT VENTURE W B.N. CONSULTANCY PVT. LTD AND PLUS ENGINEERS & ARCHITECTES (P) LTD, KATHMANDU, NEPAL Verified By Expert Qty Surveyor/CSE H.K. Mandal Approved By Team Leader Giresh Chand						







oruary 019 0-Base action % Specifie % 95 95
Specifie % 95
Specifie % 95 95
Specifie % 95 95
% 95 95
95 95
/95
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		Bi	RBAN DEV iratnagar Metr ontract No:- RUI summary Sheet of Mo	opolitan Cit OP/ICB/BRT-	y 02		o.L.			
						Year			2019	
-		T	Location:-T3L21		_	Mate	rial	Sub	grade	
Sn.	Lab.Ref no.	Location/Chainage	Source of Sample	Date of Testing	MDD	OMC	PI%	CBR%	Remark	
1	RUDP-SG-01	T3L21,(0+150)	Existing Road	6-Feb-19	1.990	8.30	10.90	8.00	/	
2	RUDP-SG-02	T3L21,(0+400)	Existing Road	6-Feb-19	1.982	7.50	8.12	7.89	1	
3	RUDP-SG-03	T3L21,(0+500)	Existing Road	6-Feb-19			8.18	/	-	
K		IL THE SECTION								
							/			
-										
-										
					-					
-						_				
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									7	
		Contractor	Consultant							
ZHO		NSTRUCTION GROUN	BUILDING DESIGNAUTHORITY (P) LTD IN JOINT VENTURE WITH BY CONSULTANCY PVT. LTD ANI PLUS ENGINEERS & ARCHITECTS (P) LTD, KATHMANDU, NEPAL							
 C	hecked By Engineer		Verified By Approved By Expert Qty Surveyor/CSE Team Leader							



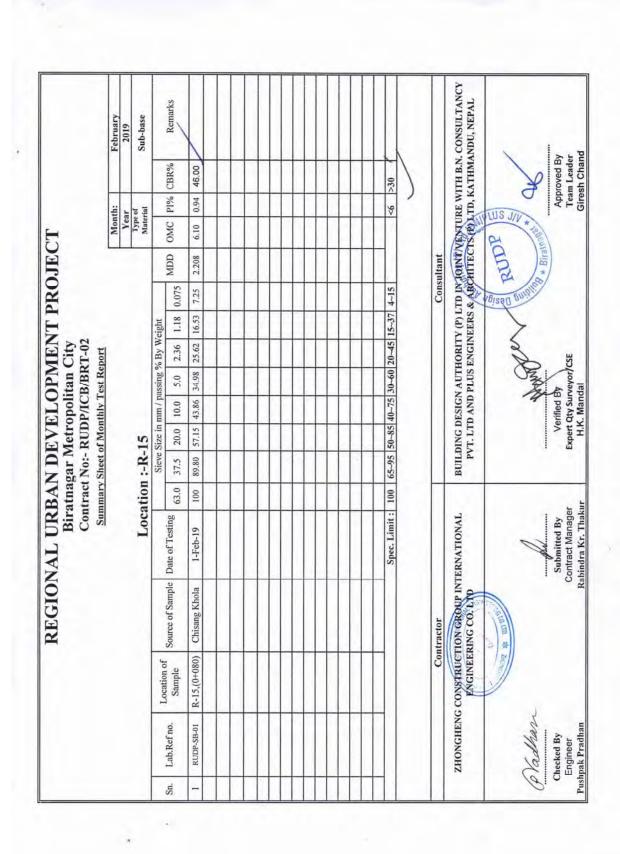
			Contrac	t No:- F	etropolita RUDP/ICB of Field Dens	BRT-02			
							Month		ruary
			Locat	tion:-T3L	21		Year Type of Material		018
			Local		e content %	Densi	ty(gm/cc)		Grade action %
Sn.	Lab.Ref.no	Testing Date	Chanage	OMC%	Field MC%	Max.Dry density gm/cc	Field Dry density, gm/cc	Compaction %	Specifie
1	RUDP-SG-FD-1, R/S	8-Feb-19	0+050	8.30	6.98	1.990	1.917	96.33	95
2	RUDP-SG-FD-1, C/L	8-Feb-19	0+100	8.30	6.96	1.990	1.915	96.23	95
3	RUDP-SG-FD-1, L/S	8-Feb-19	0+160	8.30	6.61	1.990	1.910	95.98	95
4	RUDP-SG-FD-1, R/S	8-Feb-19	0+200	8.30	6.15	1.990	1.954	98.19	95
5	RUDP-SG-FD-1, R/S	8-Feb-19	0+260	8.30	6.29	1.990	1.969	98.95	95
6	RUDP-SG-FD-1, C/L	8-Feb-19	0+300	8.30	7.31	1.990	1.966	98.77	95
7	RUDP-SG-FD-1, L/S	8-Feb-19	0+450	7.50	6.70	1.982	1.937	97.74	195
8	RUDP-SG-FD-1, R/S	8-Feb-19	0+530	7.50	6.88	1.982	1.934	97.57	95
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	Co	ntractor					Consultan	ť	
711	ONGHENG CONSTRUC	FION CROUP	NTEPNAT	IONAL	BUILDING	DESIGNA	PHORITY (P	LTD IN JOIN	T VENTUR
LII		RING CO. LTD		UNAL	WITH B.N. C	CONSULTA	NCY PVT. LT	D AND PLUS E	NGINEERS
		Ab.,	1		AR	CHIECT	S (P) LTD, KAT	HMANDU, NE	PAL
		WITH THE PARTY OF					RUD	Col	7.
						S VIII		E/	/
					1	JUN 8	nai anai a	/ /	
	0/11		/)	1.10	K)	* Biratnagai	01/	
	(pradhan		K	V	100	V		AK.	
	Checked By		Submitt	ad De	Verified			Approved By	



			Sum	Summary Sheet of Monthly Test Report	Sheet	I Mon	IIII I	St Kep								
													Month: Year	ır.		February 2019
				Loca	Location :-R-11	-R-	=						Type of Material	of rial		Sub-base
_	Location of				Sieve	Size in	Sieve Size in mm / passing % By Weight	% guiss	By Wei	ght		1000				le le
_	Sample	Source of Sample	Date of Testing	63.0	37.5	20.0	10.0	5.0	2.36	1.18	0.075	MDD	OMC	%Id	CBR%	Remarks
-	R-11,(0+110)	Chisang Khola	2-Feb-19	100	88.44	71.74	50.71	40.05	31.34	16.40	8.54	2.198	5.85	0.57	52.00	
-	R-11,(0+180)	Chisang Khola	2-Feb-19	100	81.68	90'02	50.67	41.82	34.02	17.17	7.81			1.52		
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-					100	10	1	00	1						0.0	
			Spec. Limit: 100		65~95	20~82	50-85 40-75 30-60 20-45 15-37	0~00	0~45		<u>4</u> ~I.5			9	>30	
	Cor	Contractor									Consultant	Itant				
(5)	CONSTRUCT	ZHONGHENG CONSTRUCTION GROUP INTERNATIONAL ENGINEERING CO. E. D.	ERNATIONAL		BUILD	ING D	ESIGN	AUTH	ORITY	TO SHOW	(D)IIP)	MEE	VENTU	RE WI	TH B.N.	BUILDING DESIGN AUTHORITY (P.C.F.DIN PONT VENTURE WITH B.N. CONSULTANCY PYT. LID AND PLUS ENGINEER'S & ARCHÉRETS (P) LID, KATHMANDU, NEPAL
	and a	God un. at				-	3	\$	sall and	sall gnibility	B)	PLUS JIV	LUS JIV	8	8	
		Submitted By Contract Manager	Submitted By Contract Manager	_		Veri Expert C	Verified By Expert Qty Surveyor/CSE	3y veyor/	CSE	*/	* Biratnage			Approv Team I	Approved By Team Leader	A L

Lab.Ref.no DP-SB-FD-1, L/S DP-SB-FD-1, R/S DP-SB-FD-1, L/S DP-SB-FD-1, R/S	Testing Date 6-Feb-19 6-Feb-19	Chanage		-11 e content % Field MC%	Density	Year pe of Material (gm/cc)	Comp	b-Base action %
DP-SB-FD-1, L/S DP-SB-FD-1, R/S DP-SB-FD-1, L/S	6-Feb-19	Chanage	Moisture	e content %	Density	(gm/cc)	Comp	action %
DP-SB-FD-1, L/S DP-SB-FD-1, R/S DP-SB-FD-1, L/S	6-Feb-19				Mare Dine	7	-	
DP-SB-FD-1, R/S DP-SB-FD-1, L/S		0.075		reid IVIC 70	density	Field Dry density,	Compac	Specified
DP-SB-FD-1, R/S DP-SB-FD-1, L/S		0+050	5.85	5.39	2.198	2.134	97.11	95
DP-SB-FD-1, L/S	0-1-00-17	0+090	5.85	6.06	2.198	2.169	98.30	95
DP-SR-FD-1 R/S	6-Feb-19	0+130	5.85	4.75	2.198	2.149	97.79	95
DI 00 10 1, 100	6-Feb-19	0+170	5.85	6.51	2.198	2.127	96.77	95
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	Contract	Contractor	Contractor	Contractor	Contractor	Contractor	Contractor Consultant	

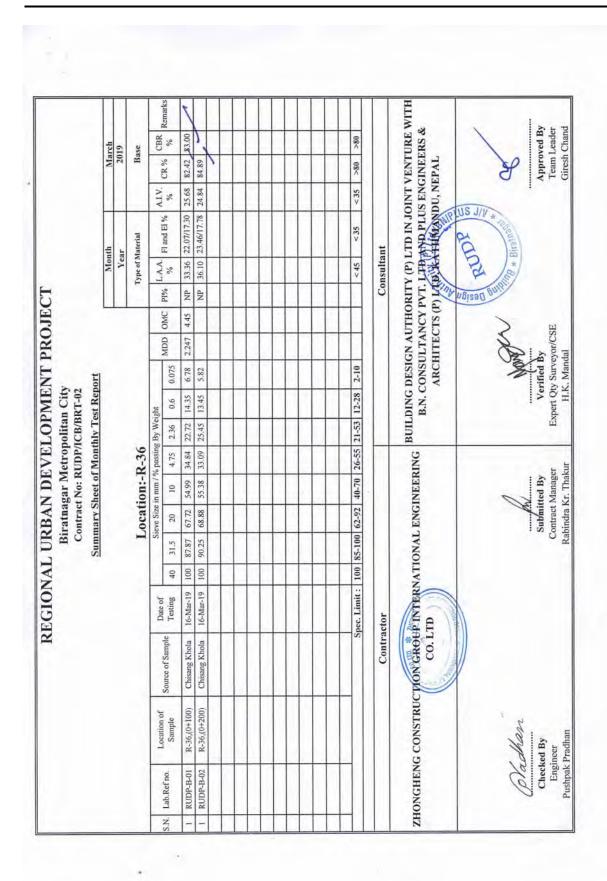






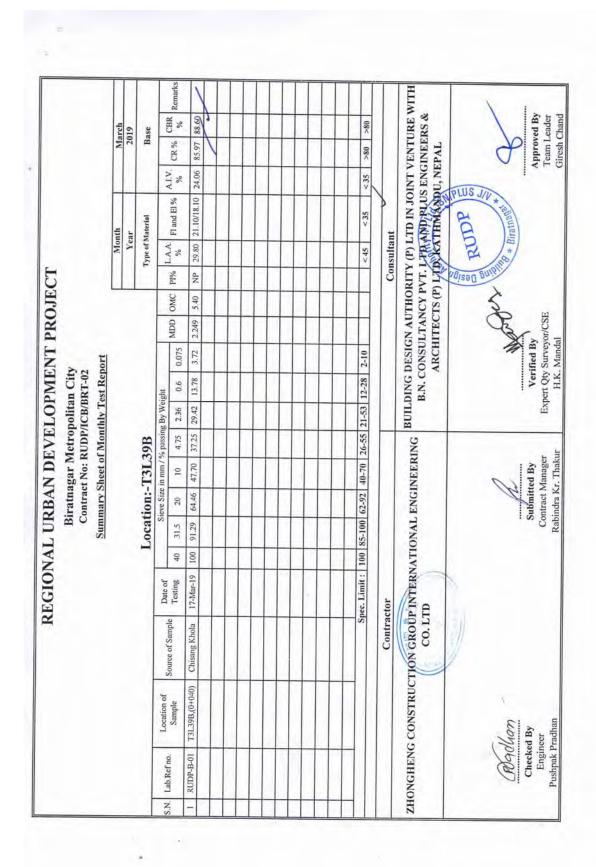
				5400101	Field Density	F	Month		ebuary 2019
			Loca	tion:-R			Type of Material	-	ib-Base
				Moistur	e content %	Dens	ity(gm/cc)	and the same of th	action %
Sn.	Lab.Ref.no	Testing Date	Chanage	OMC%	Field MC%	Max.Dry density	and the second second	Compac tion	Specified %
1	RUDP-SB-FD-1, R/S	3-Feb-19	0+050	6.10	6.86	2.208	2.125	96.24	95
2	RUDP-SB-FD-1, R/S	3-Feb-19	0+090	6.10	6.75	2.208	2.141	96.97	95
3	RUDP-SB-FD-1, L/S	3-Feb-19	0+130	6.10	6.72	2.208	2.176	98.53	95
4 K	RUDP-SB-FD-1, R/S	3-Feb-19	0+170	6.10	6.79	2.208	2.142	97.02	95
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				1					
						1			
									V
_									4
1	ZHONGHENG CONSTRUCTION LENGTH	RUCTION GRO	UI	BUILDIN B.N.	CONSULTA	UTHORIT	nsultant (P) LTD IN JO LTD AND PLUS D, KATHMAND	FNGINE	FRS &
	(Concord	S # .OL. O.			NA	RIVER	JDP		/





				- Oncert	of Field Dens	ILY TEST			
						1	Month		rch 19
				Locati	on:-R-36		Type of Material		ise
	THE WAR ATTE			Moisture	content %	Dens	ity(gm/cc)	Compa	ction %
Sn.	Lab.Ref.no	Testing Date	Chainage	омс%	Field MC%	Max.Dr.	CITY COCATACON	Compaction %	Specified %
1	RUDP-B-FD-1, R/S	28-Mar-19	0+060	4.45	4.47	2.247	2.229	99.18	98
2	RUDP-B-FD-1, C/L	28-Mar-19	0+150	4.45	5.43	2.247	2.213	98.49	98
3	RUDP-B-FD-1, L/S	28-Mar-19	0+190	4.45	4.28	2.247	2.242	99.77	98
4	RUDP-B-FD-1, R/S	28-Mar-19	0+210	4.45	5.17	2.247	2.220	98.81	98
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	Contrac	tor D. T. ZHOWA					Consultant		
1	ZHONGHENG CONSTI	RUCTION GRO	UP LTD	BUILDIN	G DESIGN A LTANCY PVI	LID AN	Y (P) LTD IN JO D PLUS ENGIN THMANDU, NE LTDP	EERS & ARCH	E WITH B. ITECTS (P







]	Biratna	gar M	etropolit	an Cit	NT PRO	7 - 7 -	
					RUDP/ICB)2		
			Summa	ry Sheet	of Field Dens	ity Test			
							Month Year		reh
		1	Location	1:-T3L3	9B		Type of Material	20 Ba	
					e content %	Den	sity(gm/cc)		ction %
Sn.	Lab.Ref.no	Testing Date	Chainage	OMC%	Field MC%	Max.Di	ry Field Dry	Compaction %	Specified
1	RUDP-B-FD-1, R/S	22-Mar-19	0+020	5.40	5.08	2.249		98.35	98
2	RUDP-B-FD-1, L/S	22-Mar-19	0+050	5.40	5.72	2.249		99.30	98
				5.10	3.72	2.219	2.233	99.30	98
1									
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+									
					-				
	Contract ZHONGHENG CONSTR	UCTION GRO	UP	BUILDIN	G DESIGN AU	UTHORIA	Consultant Y (P) LTD IN JO	DINT VENTURI	E WITH B.N
- 11	Ordhan Checked By Engineer	Submitted	I By	Verifi	ied By	LTDKKA	D PLUS ENGIN THMANDU, NE	Approved By Team Leader	

			Remarks					WITH	1.
	March 2019	Base	CBR %	81.00	I I	>80		URE RS &	Approved By
ľ	Ma 20	B	CR %	82.99		>80		VENT	Approved By Team Leader
			A.I.V. %	25.45		<35		S ENC	1
	# #	faterial	Fl and El %	23.50/17.06		<35	nt	BUILDING DESIGN AUTHORITY (P. LTD IN JOINT VENTURE WITH B.N. CONSULTANCY PVY, KIND AND PLUS ENGINEERS & ARCHITECTS (PYKAD, KATHWKADU, NEPAL	ROLL Bright ROLL ST
1	Year	Type of Material	LAA %	31.76		< 45	Consultant	KA KA	F 18
		-	%Id	NP			Co	PVY	sad gailing Des
			OMC	5.40				UTHC NCY CTS (By CSE
			MDD.	2.243				GN A ULTA HITE	Syor/CS
port			0.075	6.29		2-10		DESI	Verified By
Contract No: RUDP/ICB/BRT-02 nmary Sheet of Monthly Test Rep			ght 0.6	21.27		12-28		DING B.N. C	Verified By Expert Qty Surveyor/CSE
Contract No: RUDP/ICB/BRT-02 mmary Sheet of Monthly Test Rep		A	3 By Wei	31.16		21-53		BUIL	Ex
Wont.		L39	o passing	37.75		26-55 21-53 12-28			
Contract No: RUDP/ICB/BRT-02 Summary Sheet of Monthly Test Report		Location:-T3L39A	Sieve Size in mm / % passing By Weight 20 10 4.75 2.36 0	61.41				NEER	Submitted By Contract Manager
ntract ary Sl		ation	ve Size i	72.31		62-92		ENGI	Submitted By
Co		Loc	Sie 31.5	69.06		2-100		NAL	Ç ov ;
			40	100		100		ATIO	
			Date of Testing	12-Mar-19		Spec. Limit: 100 85-100 62-92 40-70	ior	INTERN	
			Source of Sample	Chisang Khola		Spo	Contractor	TON GROUP I CO. LTD	
			Location of Sample	T3L39A(0+040)				ZHONGHENG CONSTRUCTION GROUP INTERNATIONAL ENGINEERING CO. LTD	1977 1 By
			Lab.Ref no.	RUDP-B-01				ONGHENG	Machan Checked By Engineer



							Month Year	Ma 20	
			L		-T3L39A		Type of Material	Ba	se
	0.10.12				e content %		ity(gm/cc)	Compa	
Sn.	Lab.Ref.no	Testing Date	The second	ONIC76	Field MC%	Max.Dr density	density,	Compaction %	Specified %
1	RUDP-B-FD-1, R/S	12-Mar-19	0+030	4.51	2.243	2.243	2.228	99.32	98
2	RUDP-B-FD-1, C/L	12-Mar-19	0+050	5.66	2.243	2.243	2.228	99.34	98
3	RUDP-B-FD-1, L/S	12-Mar-19	0+090	5.58	2.243	2,243	2.214	98.72	98
	Contrac						Consultant		
	ZHONGHENG CONSTI	RUCTION GRO		BUILDIN	NG DESIGN A LTANCY PV	LED KA	Pority (P) LFD IN J. ID PLUS ENGIN THMANDU, NE	EERS & ARCH	E WITH B.I



					Remarks								WITH:		1.
		March	Rose		CBR %	82.00					>80		URE		Approved By Team Leader
		N			CR %	84.50	+				>80		VENT		Approved By Team Leader
		1			A.L.V.	22.30					<35	1	S ENC	0	1
		Month	Type of Material		Fl and El %	23.94/17.38					<35	nt	BUILDING DESIGN AUTHORITY (P) LED IN JOINT VENTURE WITH B.N. CONSULTANCY PVICETB AND KUS ENGINEERS & ARCHITECTS (P) LTD, KATHM KODU, NEPAL	RUDP Siramana Siraman	
	1	Mo	Type of		LAA.	30.40	32.70				<45	Consultant	D, KA	自	
2		1			%Id	άN	ž					Co	PV	Sed Building	
3				L	OMC	5.30							NCY NCY CTS ()	30	— <u>H</u>
Ž				L	MDD	2.246							GN A ULTA HITE	Sau Burning	3y (S
ty 20	port				0.075	7.21	7.82	Ш			2-10		DESI CONSI ARCI		Verified By Expert Qty Surveyor/CSE
Biratnagar Metropolitan City Contract No: RUDP/ICB/BRT-02	Summary Sheet of Monthly Test Report			eight	9.0	20.72	20.18				40-70 26-55 21-53 12-28		DING B.N. C		Ve pert Qt
opolit VICB/	thly 7		30	Sieve Size in mm / % passing By Weight	2.36		29.65				21-53		BUIL		Ex
Metro	of Mo		Location - T31 30	% passi	4.75	40.63	38.38				26-55		RING		
agar et No:	Sheet		fion	in mm /	10	52.82	51.42						NEEF	OB	Submitted By Contract Manager Rabindra Kr. Thebur
irathi	mary		Loca	ieve Size	20	65.31	64.06				62-92		ENGI		Submitted By ontract Manage
5 2 2	Sum			S	31.5	87.34	85.05				100 85-100 62-92		ONAL		Co
				L	40	$\overline{}$	001						VATIC		
Biratnagar Metropolitan City Contract No: RUDP/ICB/BRT-02				Date of	Testing	22-Mar-19	22-Mar-19				spec. Limit:	tor	OP INTERN		
4					Source of Sample	Chisang Khola	Chisang Khola			o	de	Contractor	TON GROUP CO. LT		
				Location of			13L39,(0+300)						ZHONGHENG CONSTRUCTION GROUP INTERNATIONAL ENGINEERING CO. LTD	(10)	By rr dhan
				Toh Dofino	-		KUDI-B-02						ONGHENG	Poddon	Checked By Engineer Pushpak Pradhan
				2	-								ZHC		



3	Lab.Ref.no RUDP-B-FD-1, R/S RUDP-B-FD-1, L/S RUDP-B-FD-1, R/S RUDP-B-FD-1, L/S RUDP-B-FD-1, L/S	Testing Date 22-Mar-19 22-Mar-19 22-Mar-19 22-Mar-19 22-Mar-19	Locat	ion:-T3	L39 e content % Field MC%	Density Max.Dry	Month Year ype of Material /(gm/cc) Field Dry	Ba Compa	rch 19 ise ction %
1 2 3 4 5	RUDP-B-FD-1, R/S RUDP-B-FD-1, L/S RUDP-B-FD-1, R/S RUDP-B-FD-1, L/S	22-Mar-19 22-Mar-19 22-Mar-19 22-Mar-19	Chainage 0+090 0+180	Moisture OMC% 5.30	e content %	Density Max.Dry	Year ype of Material /(gm/cc)	Ba Compa	19 ise
1 2 3 4 5	RUDP-B-FD-1, R/S RUDP-B-FD-1, L/S RUDP-B-FD-1, R/S RUDP-B-FD-1, L/S	22-Mar-19 22-Mar-19 22-Mar-19 22-Mar-19	Chainage 0+090 0+180	Moisture OMC% 5.30	e content %	Density Max.Dry	(gm/cc)	Compa	
1 2 3 4 5	RUDP-B-FD-1, R/S RUDP-B-FD-1, L/S RUDP-B-FD-1, R/S RUDP-B-FD-1, L/S	22-Mar-19 22-Mar-19 22-Mar-19 22-Mar-19	0+090 0+180	OMC% 5.30		Max.Dry	T		ction %
1 2 3 4 5	RUDP-B-FD-1, R/S RUDP-B-FD-1, L/S RUDP-B-FD-1, R/S RUDP-B-FD-1, L/S	22-Mar-19 22-Mar-19 22-Mar-19 22-Mar-19	0+090 0+180	5.30	Field MC%		Field Dry	Camer	
2 3 4 5	RUDP-B-FD-1, L/S RUDP-B-FD-1, R/S RUDP-B-FD-1, L/S	22-Mar-19 22-Mar-19 22-Mar-19	0+180					Compaction	
3 4 5	RUDP-B-FD-1, L/S RUDP-B-FD-1, R/S RUDP-B-FD-1, L/S	22-Mar-19 22-Mar-19 22-Mar-19	0+180		5.93	density 2.246	density,	%	%
3 4 5	RUDP-B-FD-1, R/S RUDP-B-FD-1, L/S	22-Mar-19 22-Mar-19		2 (1)	5.08	2.246	2.215	98.63	98
5	RUDP-B-FD-1, L/S	22-Mar-19	0.200	5.30	5.86	2.246		99.12	98
5			0+290	5.30	5.32	2.246	2.214	98.56	98
7			0+310	5.30	4.97	2.246	2.232	99.39	98
1			0.510	2,50	4.21	2.240	2.217	98.72	98
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- 2	Contract	-		DIM DIS	C DEGLESS :	Con	usultant		
IN	THONGHENG CONSTRUCTIONAL ENGIN	UCTION GROU EERING CO. L	TD	CONSUL	TANCY PVT	LTD AND F	P) LTD IN JO LUS ENGINE	INT VENTURE EERS & ARCHI	WITH B.N TECTS (P)
	Prodham	D.			Onle	1	MANDU, NEF	al of	



					Remarks										RE S &	\ .
	March	2019	Base		CBR		80.80	2000	86.60				>80		NTU	ed By
	M	2(B	CB	%	83.74	82 01	84.21	85.35	85.48			>80		IT VE	Approved By
					ALV.	22.08	25.60	22.81	25.92	26.17			<35		LUS E	
	Month	Year	Type of Material		Fl and El %	17.72/13.25	20.29/19.03	21.60/22.12	25.14/21.14	23.41/20.48			<35	1	BUILDING DESIGN AUTHORITY (P. LTD IN JOINT VENTURE WITH B.N. CONSULTANCY PKW LTWAND PLUS ENGINEERS & ARCHITECTS (P. E.D., KATHMASDU, NEPAL	Bread and A Bread
	Mo	Ye	Type of		LAA.	33.76	26.96	28.76	30.10	33.02		Ħ	<45	Consultant	o, KA	Pa / 1
	Ц				%Id :	NP	+	-	NP	호			I	Ö	HOR	Bisa O Burge
				L	OMC	1	5.05	1	5.10				Ц		TANG	7 #
					MDD	1	2,245		2.242				Ш		SSIGN	fired By Surveyor/C
12 eport					0.075	2.90	5.70	6.83	5.09	5.37			2-10		NG DI	Verified By Expert Qty Surveyor/CSE
est Ro				ight	9.0	13.50	16.16	16.33	16.72	14.76			12-28		ILDI TH B.	Vel
/ICB/			21	g By We	2.36	23.98	28.52	30.33	32.36	35.60			21-53		BU	Exp
Contract No: RUDP/ICB/BRT-02 nmary Sheet of Monthly Test Rep			T3L	% passin	4.75	33.56	34.54	37.72	39.48	45.09			26-55		ING	
heet o			tion:-	n mm /	10	47.67	46.61	19.05	50.93	54.91			10-20		NEER	d By
Summary Sheet of Monthly Test Report			Location:- T3L21	Sieve Size in mm / % passing By Weight	20	67.45	64.46		-	68.20			2-95		ENGI	Submitted By Contract Manager
Sumn				Sie	31.5	90.28	91.04			11.88			-100		NAL	Su
					40	100	100		-	00 8			001		ATIO	
				Date of	Testing	21-Mar-19	21-Mar-19			21-Mar-19			Spec. Limit: 100 85-100 62-92 40-70 26-55 21-53	tor	OUP INTERNAL LTD	
					Source of Sample	Chisang Khola			Sp	Contractor	ZHONGHENG CONSTRUCTION GROUP INTERNATIONAL ENGINEERING CO. LTD					
				Location of	_		T3L21,(0+200)	-	-	13L21,(0+500)					CONSTRUC	By r r
				Inh Dofue	7	-	_	_	_	KUDP-B-05					NGHENG (Checked By Engineer Pushbak Pradhan
				No		-	74	m ·	4 4						ОНЗ	

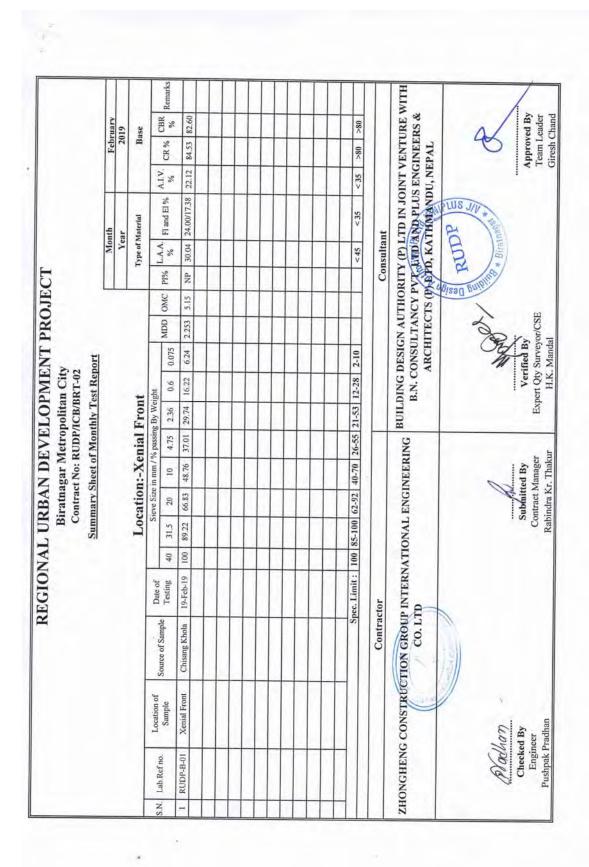


REGIONAL URBAN DEVELOPMENT PROJECT

Biratnagar Metropolitan City

			Loca	tion:-T3	L21	T	Month Year ype of Material	March 2019 Base	/		
					e content %	Density	(gm/cc)	Compactio	n %		
Sn.	Lab.Ref.no	Testing Date	Chainage	омс%	Field MC%	Max.Dry density	Field Dry density,	Compaction %	Specif		
1	RUDP-B-FD-1, R/S	28-Mar-19	0+060	5.05	4.93	2.245	2.212	98.55	98		
2	RUDP-B-FD-1, C/L	28-Mar-19	0+100	5.05	4.98	2.245	2.206	98.26	98		
3	RUDP-B-FD-1, L/S	28-Mar-19	0+140	5.05	4.82	2.245	2.242	99.85	98		
4	RUDP-B-FD-1, R/S	28-Mar-19	0+180	5.05	5.07	2.245	2.245	99.99	98		
5	RUDP-B-FD-1, C/L	28-Mar-19	0+210	5.05	4.86	2.245	2.235	99.54	98		
6	RUDP-B-FD-1, R/S	28-Mar-19	0+250	5.05	4.80	2.245	2.207	98.29	98		
7	RUDP-B-FD-1, L/S	28-Mar-19	0+290	5.05	4.92	2.245	2.203	98.12	98		
8	RUDP-B-FD-1, C/L	28-Mar-19	0+320	5.05	4.70	2.245	2.227	99.19	98		
9	RUDP-B-FD-1, R/S	28-Mar-19	0+350	5.05	4.94	2.245	2.230	99.34	98		
10	RUDP-B-FD-2, L/S	28-Mar-19	0+420	5.10	4.31	2.242	2.205	98.35	98		
11	RUDP-B-FD-2, C/L	28-Mar-19	0+480	5.10	4.94	2.242	2.213	98.70	98		
12	RUDP-B-FD-2, L/S	28-Mar-19	0+530	5.10	5.00	2.242	2.241	99.97	98		
Contractor ZHONGHENG CONSTRUCTION GROUP INTERNATIONAL ENGINEERING CO. LTD BUILDING DESIGN AUTHORS (P) LTD IN JOINT VENTURE WITH CONSULTANCY PVT. LTD AND PLUS ENGINEERS & ARCHITECTS LTD, SATIRIANDUNEPAL						ITH B.N.					
п	(Vallan	NEERING CO.		CONSUL	TANCYPVT	LTD, MATIN	Y (P) LTD IN JOINT VENTURE WITH B.N. D PLUS ENGINEERS & ARCHITECTS (P)				



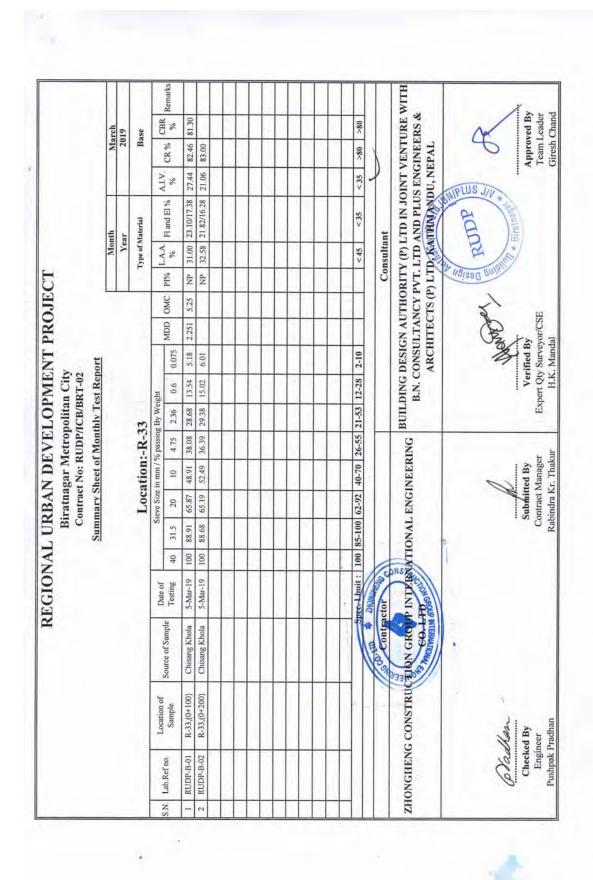




	REGI	ONAL U	Biratna	gar M	etropolit RUDP/ICB	an City	1 PRO	JECT	
					of Field Dens	CANADA CASA			
			-		or rivio Deni	T. Tust	Month	Febr	uary
			2		ara an in in		Year		19
			Locati		nial Front		pe of Material	B	ise
	2.00.0				e content %		(gm/cc)		ction %
Sn.	Lab.Ref.no	Testing Date	Chainage	ОМС%	Field MC%	Max.Dry density	Field Dry density,	Compaction %	Specified %
1	RUDP-B-FD-1, R/S	22-Feb-19	0+040	5.15	5.20	2.253	2.233	99.13	98
2	RUDP-B-FD-1, L/S	22-Feb-19	0+080	5.15	5.55	2.253	2.219	98.49	98
3	RUDP-B-FD-1, C/L	22-Feb-19	0+130	5.15	5.43	2.253	2.236	99.24	98
4	RUDP-B-FD-1, L/S	22-Feb-19	0+160	5.15	5.27	2.253	2.227	98.83	98
5	RUDP-B-FD-1, R/S	22-Feb-19	0+190	5.15	5.50	2.253	2.226	98.80	98
K						2,200	2.220	30.00	70
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	Contrac	tou							
1	ZHONGHENG CONSTR NTERNATIONAL ENGIN	RUCTION GRO		BUILDIN	G DESIGN A LTANCY PV	UTHORITY LIPPAND	nsultant (P) ETD IN JO PLUS ENGIN IMANDU, NE	DINT VENTUR EERS & ARCH	E WITH B. ITECTS (P)
	Dachan Checked By Engineer Pushpak Pradhan	Submittee Contract Ma Rabindra Kr.	anager	Expert Qty	Fied By Surveyor CSE Mandal	R	UDP tnagar *	Approved By Team Leader Giresh Chan	



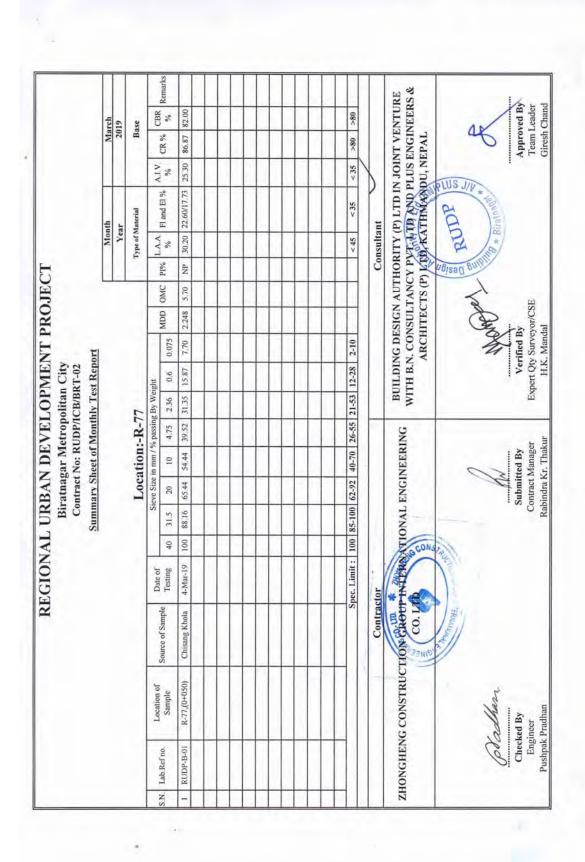
				P.g tof 1	Flow mm		2.50	2.40		2.42	2.45														7	onrse			ACY PVT.	A A A
					Stability	Z	12306	11952	11930	11653	96611													1	> 8500	s W/C C			ISULTAN J, NEPAL	Approved By
					VMA %		16.49	16.46	16.37	16.54	16.33														≥ 15	Thicknes		l de	B.N. COP	
					spie	%	3.22	3.26	3.05	3.30	3.06							Ţ					/		3-6%	For (25-51)mm Thickness W/C Course			RE WITH	RUDP SS Approved By Approved By Loan loads
					Mix	зэ/ша	2.371	2.372	2.375	2.370	2.376											/			Min2.358	For (Itant	ECTS (P)	RUDP
			3)		Bitumen Content From	Extraction Test	5.73	5.70	5.74	5.72	5.72										/				5.703	±0.3%		Consultant	DAR ANDI	Sen Building
			245-7	•		5.000	6.44	68.9	9.65	29.9	86.9										/				6 to 9	E			ITY (P) LI	
			(AASHTO T 245-78)	RY 2019		9.0	17.58	17.50	17.04	16.85	17.37									1					16-21	*14%			AUTHOR PLUS ENG	3
	City	RT-02		BRUAF	ation izes mm	2.36	36.35	35.10	34.65	34.14	34.87								/						33-37	#5%			3 DESIGN	00
	Biratnagar Metropolitan City	Contract No: RUDP/ICB/BRT-02	ETHOD	OF FE	Mix Agg Gradation % Passing Sieve Sizes mm	4.75	57.14	56.63	56.29	55.56	56.09			Ī				/					Ī		54-59	±3%			BUILDING	Verified By
	gar Met	t No: RUI	ALL M	MONTH	Mix A	5.6	79.00	96.64	79.74	78.68	79.00						/	1							76-82	*27			Q	1
	Biratna	Contrac	MARSH	THE	0.	91	100	100	100	100	100														100-100	E Z			IG CO. LT	Subpritted By
			It BY	RY FOR		20	100	100	100	100	100					/									100	*42%			GINEERIN	
TOTONI INTELLIGIO DE LO TENENTE DE LA CONTRACTORIO DE LO CONTRACTORIO			Test Result BY MARSHALL METHOD	SUMMARY FOR THE MONTH OF FEBRUARY 2019	I continue of Words ob.	LOCALION OF WOLK CH.	R-5 (South of DSP Road),0+000 to 0+360	R-63,0+200 to 0+420	Xenail Front, 0+000 to 0+200	Xenail South, 0+000 to 0+160	R-183, 0+000 to 0+200				/										Specifacations	Job Mix Tolerances from RUDP Specifacation Table2-4-10		Contractor	ZHONGHENG CONSTRUCTION GROUP INTERNATIONAL ENGINEERING CO. LTD	
					Date of	Laying	26/2/2019	26/2/2019	28/2/2019	28/2/2019	28/2/2019		/	/												Job Mix Tolerai	tKS:		HONGHENG	yam By
					S. LAB		1 48	2 49	3 50	4 51	5 52	1															REMARKS:		Z	Checked By





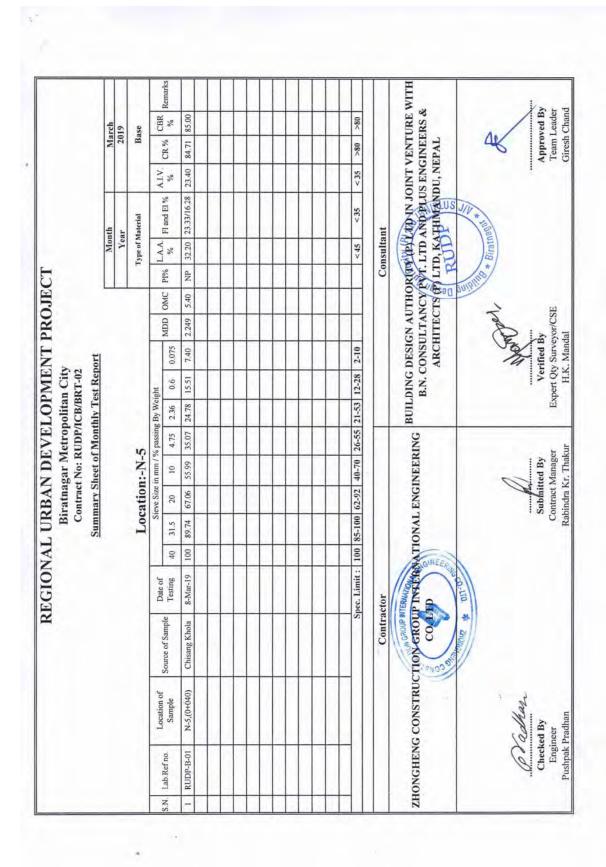
			Comme	me Chaste		/BRT-0	7		
			Summa	ry Sheet c	of Field Dens	ity Test	Month	M-	ask.
							Year		rch 19
			Lo	cation:-			Type of Material	Ba	ise
		- A 138 - 1			content %	Dens	ity(gm/cc)	Compa	ction %
n.	Lab.Ref.no	Testing Date	Chainage	OMC%	Field MC%	Max.Dr density		Compaction %	Specified %
1	RUDP-B-FD-1, R/S	8-Mar-19	0+080	5.25	5.20	2.251	2.233	99.21	98
2	RUDP-B-FD-1, L/S	8-Mar-19	0+130	5.25	5.55	2.251	2.219	98.58	98
3	RUDP-B-FD-1, C/L	8-Mar-19	0+190	5.25	5.43	2.251	2.236	99.33	98
4	RUDP-B-FD-1, L/S	8-Mar-19	0+220	5.25	5.27	2.251	2.227	98.92	98
5	RUDP-B-FD-1, R/S	8-Mar-19	0+270	5.25	5.50	2.251	2.226	98.89	98
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	CO.LTD.	ZHONGHENG							
	Contract	er)	Ā			1.0	Consultant		
n	ZHONGHENG CONSTI	VEERING CO.	UP LTD	BUILDIN	G DESIGN A TANCY PVI	UTHORAT	Y (P) LTD IN JO DPLUS ENGIN THMANDU, NE	EERS & ARCH	E WITH B.N ITECTS (P)
	Wadhan Checked By	Submitted		Verifi	Man O	y Jal	Piratnagat * NIS	Approved By	







Sn Lah Dafino Testing Date Chainnes	isture content % 4C% Field MC% 70 5.22	May Dr	density, 2.245	20 Ba	sreh hip ase ction % Specified % 98
Sn. Lab.Ref.no Testing Date Chainage Mois	isture content % 4C% Field MC% 70 5.22	% Max.Dr density 2.248	Type of Material sity(gm/cc) y Field Dry density, 2.245	Compaction %	sse ction % Specified % 98
En. Lab.Ref.no Testing Date Chainage OM6 1 RUDP-B-FD-1, R/S 6-Mar-19 0+030 5.7 2 RUDP-B-FD-1, L/S 6-Mar-19 0+060 5.7	isture content % 4C% Field MC% 70 5.22	% Max.Dr density 2.248	sity(gm/cc) ry Field Dry density, 2.245	Compaction % 99.87	Specified % 98
Instruction Lab.Ref.no Testing Date Chainage OMO 1 RUDP-B-FD-1, R/S 6-Mar-19 0+030 5.7 2 RUDP-B-FD-1, L/S 6-Mar-19 0+060 5.7	1C% Field MC9	% Max.Dr density 2.248	Field Dry density, 2.245	Compaction % 99.87	Specified % 98
1 RUDP-B-FD-1, R/S 6-Mar-19 0+030 5.7 2 RUDP-B-FD-1, L/S 6-Mar-19 0+060 5.7	.70 5.22	density 2.248	density, 2.245	% 99.87	% 98
2 RUDP-B-FD-1, L/S 6-Mar-19 0+060 5.7	HILLS AND	2.248	2.245	99.87	98
	.70 5.63	_			98
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THE TOTAL CE					
Contractor	ILDING DESIGN	AUTHOR	Consultant	OINT VENTUR	E WITTI P
ZHONGHENG CONSTRUCTION GROUP INTERNATIONAL ENGINEERING CO. LTD	ONSULTANCY P	VILTOAN	ND PLUS ENGIN	EERS & APCH	HTECTS (P
INTERNATIONAL ENGINEERING CO. LTD		END, KA	THMANDU, NE	PAL	TIECIO (I
	N.	Riplina		/	





			Summa	ry Sneet	of Field Dens	ity Test	Month	Ma	reh
							Year	20	
					tion:-N-5		Type of Material	Ba	
	2 1000000				content %		ty(gm/cc)	Compa	
n.	Lab.Ref.no	Testing Date	Chainage	OMC%	Field MC%	Max.Dry		Compaction	Specifie
1	RUDP-B-FD-1, R/S	10-Mar-19	0+020	5,40	5.42	density 2.249	density, 2.232	99.24	98
2	RUDP-B-FD-1, L/S	10-Mar-19	0+050	5.40	5.16	2.249	2.225	98.91	98
3	RUDP-B-FD-1, L/S	10-Mar-19	0+070	5.40	5.58	2.249	2.241	99.64	98
K		2.000.000	10.01.0	2.10		2.217	2.271	77.01	70
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	TION GROUP INT	ERNATION					-		-
_	Contrac						Name of the state of		
7	1 10	n n		BUILDIN	G DESIGN A	UTHORPE	onsultant (P) LTD IN JO	OINT VENTUR	E WITH P
1	ZHONGHENG CONSTI INTERNATIONAL ENGI	NEEDING GO	UP	CONSU	LTANCY PV	LATO ANI	D PLUS ENGIN	EERS & ARCH	ITECTS (P
	HOMOUT A	MERKING CO.	LID			ETD, KAT	THMANDU, NE	PAL	ACK 030 6
	Wadhan	1			Nowood	RI	JDP N	av/	
	0	- M			X	Birati	lagar * Mil	0	
	Checked By	Submitte	d By		fied By	-11	udia	Approved By	
	Engineer Pushpak Pradhan	Contract Ma Rabindra Kr.			Surveyor/CSE Mandal			Team Leader Giresh Chan	

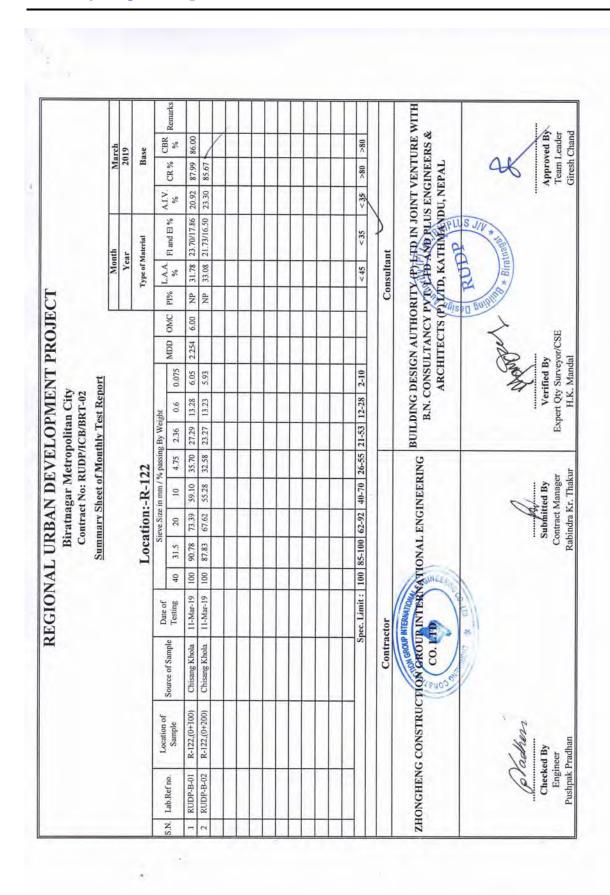


				Remarks						WITH	1
		March 2019	Base	CBR	%	81.00		>80		URE	Approved By Team Leader Giesel Acade
		N 2	B	CR %	_	_	83.59	>80		VENT	Approved I
				A.I.V.	%	21.13	20.64	<35		S ENC	
		nth ar	Type of Material	Fl and El %	000000000000000000000000000000000000000	24.41/17.22	30.30 21.15/14.28	<35		BUILDING DESIGN AUTHORITY (P.) LED IN JOINT VENTURE WITH B.N. CONSULTANCY PVI. ETD AND PLUS ENGINEERS & ARCHITECTS (P.) ETD, KATHMANDU, NEPAL	Werified By Verified By Verif
		Month	Type of 1	LAA.	%	31.00	30.30	< 45	Consultant	D, KA	
7				%Id	_	-	ž		٥	PVI	9 Bulhing
3				OMC		6.25				UTH(NCY CTS(Se Se
				MDD	_	2.243				GN A ULTA HITE	By By
	port				0.075	9.36	7.71	2-10		DESI	Verified By Expert QV Surveyor/CSE
n Cit	st Re			ght	9.0	18.07	16.97	12-28		DING B.N. C	Ver Ver
Biratnagar Metropolitan City Contract No: RUDP/ICB/BRT-02	Summary Sheet of Monthly Test Report			Sieve Size in mm / % passing By Weight	2.36	27.70	24.60	21-53		BUIL	
letroj UDP/	Mont		7	6 passing	4.75	36.42	34.35	26-55		ING	_ 1
gar M	neet of		-R-2	6/mmu	01	56.42	53.86	40-70	-	NEER	Submitted By Contract Manager Bahindra & Thalum
atnag	ary Sl		tion	ve Size i	_	-	64.14	52-92		ENGI	Submitted By ontract Manage
S Bir	Summ		Location:-R-27		_	_	88.58	2-100		NAL	S S
				H	_	_	00	100		OIL	
Biratnagar Metropolitan City Contract No: RUDP/ICB/BRT-02				Date of	Testing	7-Mar-19	7-Mar-19	Spec. Limit: 100 85-100 62-92 40-70 26-55 21-53 12-28	for		8
4				Source of Sample	Cat.	Chisang Khola	Chisang Khola	Sp	Contractor	ZHONGHENG CONSTRUCTION GROUP NITERNATIONAL ENGINEERING CO. LED	
				Location of	Sample	R-27,(0+100)	R-27,(0+200)			CONSTRUC	Mar. d By
				Lab.Ref no.	10 d della	RUDP-B-01	RUDP-B-02			ONGHENG	Checked By Engines
				S.N.			-			ZHZ	



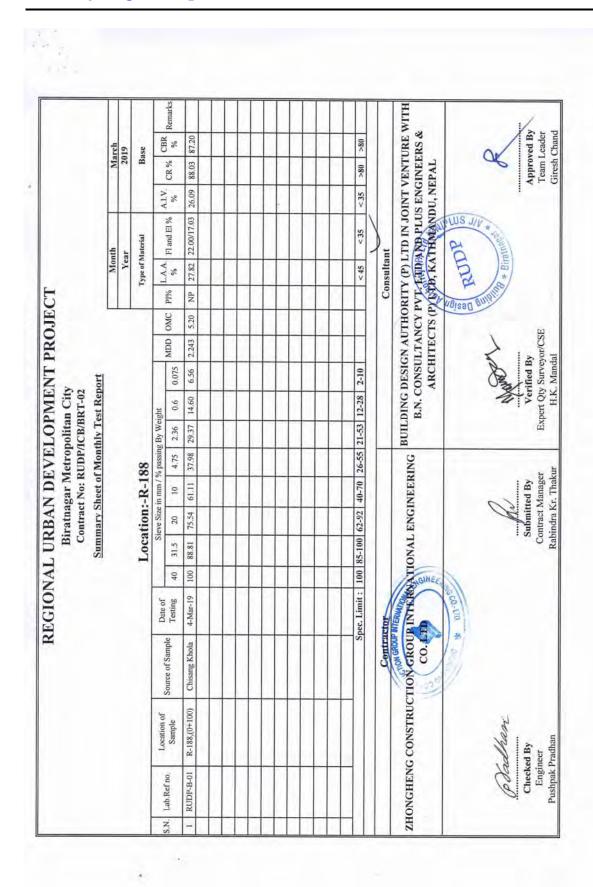
			Summa						
							Month		reh
				Locat	ion:-R-27		Year Type of Material		19 ise
				Moisture	e content %	Dens	sity(gm/cc)		ction %
Sn.	Lab.Ref.no	Testing Date	Chainage		Field MC%	Max.Dr density	y Field Dry	Compaction %	Specified %
1	RUDP-B-FD-1, R/S	11-Mar-19	0+020	6.25	5.36	2.243	2.240	99.86	98
2	RUDP-B-FD-1, L/S	11-Mar-19	0+120	6.25	5.59	2.243	2.205	98.30	98
3	RUDP-B-FD-1, C/L	11-Mar-19	0+190	6.25	5,50	2.243	2.236	99.68	98
4	RUDP-B-FD-1, L/S	11-Mar-19	0+250	6.25	5.27	2.243	2.218	98.89	98
5	RUDP-B-FD-1, L/S	11-Mar-19	0+300	6.25	5.96	2.243	2.224	99.17	98
7						2,2,13	D.224		, ,0
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	SUCTION GROUP INTER	Anon						1	7
	Sales Company	15.68							
- 6	Contrac	1800		RIII DIN	C DESIGN A		Consultant Y (P) LTD IN JO	AINTE VENDERO	E MATERIA E S
1	ZHONGHENG CONSTI NTERNATIONAL ENGI	NEERING CO.	UP LTD	CONSU	LTANCY PVT	LID AN	D PLUS ENGIN	EERS & ARCH	ITECTS (P)
	Checked By Engineer Pushpak Pradhan	Submitted Contract Ma Rabindra Kr.	nager	Expert Qty	ied By Surveyor/CSE Mandal		ratnagar + its	Approved By Team Leader Giresh Chanc	





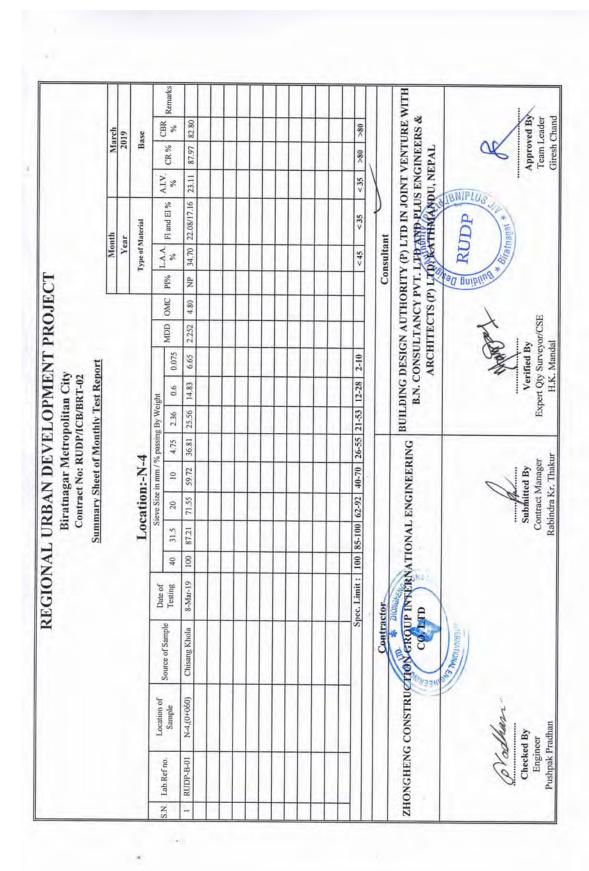


							Month Year	Ma 20	
-		_			n:-R-122		Type of Material	Ba	
c.,	Tak Dafaa	Total Die	at .		content %		sity(gm/cc)	Compa	
Sn.	Lab.Ref.no	Testing Date	Chainage	OMC%	Field MC%	Max.Dr density		Compaction %	Specified %
1	RUDP-B-FD-1, R/S	15-Mar-19	0+050	6.00	5.97	2.254	2,226	98.75	98
2	RUDP-B-FD-1, L/S	15-Mar-19	0+110	6.00	5.40	2.254	2.224	98.66	98
3	RUDP-B-FD-1, L/S	15-Mar-19	0+160	6.00	5.82	2.254	2.241	99.43	98
4	RUDP-B-FD-1, L/S	15-Mar-19	0+200	6.00	5.54	2.254	2.211	98.09	98
5	RUDP-B-FD-1, R/S	15-Mar-19	0+230	6.00	5.28	2.254	2.237	99,26	98
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	CO.LTD. W	ZHONGA							
	Contrac						Consultant		
1	ZHONGHENG CONSTR NTERNATIONAL ENGI	RUCTION GRO NEEKING CO.	UP LTD			UTHORIA LTD AS	DPLUS ENGIN	EERS & ARCH	
_	MOTIVATION TO	OND MOU				LIDEN	THMANDU, NE	PAL	
	Wadhan)		Wanger	Y	RUDP		
	Checked By	Submitte	d By	Verif	ied By	10	Biratnagal * B	Approved By	
	Engineer	Contract Ma Rabindra Kr.	anager		Surveyor/CSE			Team Leader	



			Summa	Ty Sheet	of Field Dens	ity Test	25.00		
							Month		irch 119
		1	ocation	:-R-188			Type of Material		ise
					e content %		sity(gm/cc)	Compa	ction %
Sn.	Lab.Ref.no	Testing Date	Chainage	OMC%	Field MC%	Max.Dr density		Compaction %	Specifie
1	RUDP-B-FD-1, R/S	6-Mar-19	0-030	5.20	5.09	2.243	2.237	99.75	98
2	RUDP-B-FD-1, L/S	6-Mar-19	0+070	5.20	4.99	2.243	2.225	99.21	/ 98
3	RUDP-B-FD-1, R/S	6-Mar-19	0+110	5.20	5.11	2.243	2.205	98.31	98
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	MG CO. LTD.								7
	ZHONGHENG CONSTR	tor	run.	BUILDIN	G DESIGN A	UTHORN	Consultant Y'(P)/LTD IN JO	INT VENTUR	E WITH D
1	NTERNATIONAL ENGINEERS	NEERING CO.	LTD	CONSU	LTANCY PVI	LEDAN	D PLUS ENGIN THMANDU, NE	EERS & ARCH	ITECTS (P





				ry Sheet				Month	Ma	rch
								Year	20	
			Locatio				Type	of Material	Ba	
				Moisture	content %	Dens	sity(g	m/cc)	Compa	ction %
Sn.	Lab.Ref.no	Testing Date	Chainage	ОМС%	Field MC%	Max.Dr density	-	Field Dry density,	Compaction %	Specified
1	RUDP-B-FD-1, R/S	10-Mar-19	0+040	4.80	4.47	2.252		2.249	99.89	98
2	RUDP-B-FD-1, L/S	10-Mar-19	0+080	4.80	5.06	2.252	_	2.228	98.92	98
3	RUDP-B-FD-1, R/S	10-Mar-19	0+140	4.80	4.41	2.252		2.247	99.79	98
_		23.77411.15	0.110	1.00		4.202	-	2.27/	33.13	90
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_	GROUP INTERN	ATION								
_	Contrac							ultant		
1	ZHONGHENG CONSTR NTERNATIONAL ENGIN	RUCTION GRO NEERING CO.	UP LTD	CONSU	G DESIGN A LTANCY PVI	LEDAN	D PL	LTOIN JO US ENGINI ANDU, NEI	DINT VENTURI EERS & ARCH	E WITH B.N ITECTS (P)
	A CHILINGS	11.00			~~/	12	CUI	DP E	AL	7-
	Wadhen	2		1	THE STATE OF THE S	pling * Bira	Inner	NIS	ak .	
	Checked By	Submitted	l Ro	Voris	ind By		maga)		A	**
	Engineer	Contract Ma			ied By Surveyor/CSE				Approved By	54
	Pushpak Pradhan	Rabindra Kr.			Mandal				Team Leader Giresh Chand	



Government of Nepal

DEPARMENT OF ROADS

Quality, Research And Development Centre

(Laboratory Unit) CHAKUPAT LALITPUR

Ref.No.: TTO Date: 2075/10/15

Phone: 015260696

Subject: Bitumen Test Result.

Building Design Authority (p) Ltd

in Joint Venture with

B.N. Consultancy Pvt. Ltd. And Plus Engineers & Architects (P) Ltd

RUDP, ADB Loan No: 47252

Biratnagar Metropolitan City , Nepal

Contractor: Zhongheng Construction Group International Engieering Co. Ltd.

With reference to your letter dated 23 January 2019, Ref.No: rudpdabrt/tl 2019-241, we are enclosing herewith Bitumen test results of provided 3 samples of Bitumen.

Test Results

S.N.	Name of tests	Unit	Te	est Resu	lts	Spec	Domada
	Traine of tests	Onit	1	2	3	VG-10	Remarks
1	Penetration at 25°c	1/10mm	81	81	80	Min 80 .	
2	Specific gravity		1.024	1.033	1.034		
3	Softening Point	°c	44.8	45	45	Min 40	/
4	Water Content	%	0.01	Nil	0.01		
5	Ductility at 25 °C	cm	100	100	100	Min 75	
6	Solubility in Trichloroethylene	%	99.9	99.9	99.9	Min 99	/
7	Loss on heating for 5 hours at 163 °C	%	0.312	0.151	0.341		1
	a. Flash Point	°c	266	265	266	Min 220	
8	b.Fire point	°c	302	300	302		
9	Penetration of Residue after loss on heating	1/10mm	65	64	64	Max 80 % of Penetration	1

Note: The provided samples are taken by following members :-

On behalf of Consultant : Quantity Surveyor Er Hari krishna Mandal

On behalf of Contractor: Lab Tech. Kiran Chaudhary

This report only represents the tested samples.

Sanjaya Kumar Shrestha (Director)

drennes.





Government of Nepal Ministry Of Physical Infrastructure And Transport Department of Roads Quality, Research & Development Center

Laboratory Unit Chakupat, Lalitpur

F.Y. Ref No 322

Date: 23/09/2075

M/s Regional Urban Development Project (RUDP) Biratnagar

Subject: Test Result

Dear Sir,

Please find herewith Tensile Strength Results of the Supplied 45 no. of rebar samples (Panchkanya Steel 16 & Ambe Steel 10,12) belonging to Sewerage, Drainage, Road Footpath and Road furniture Works underway at Biratnagar Metropolitan City Project as per your request letter.

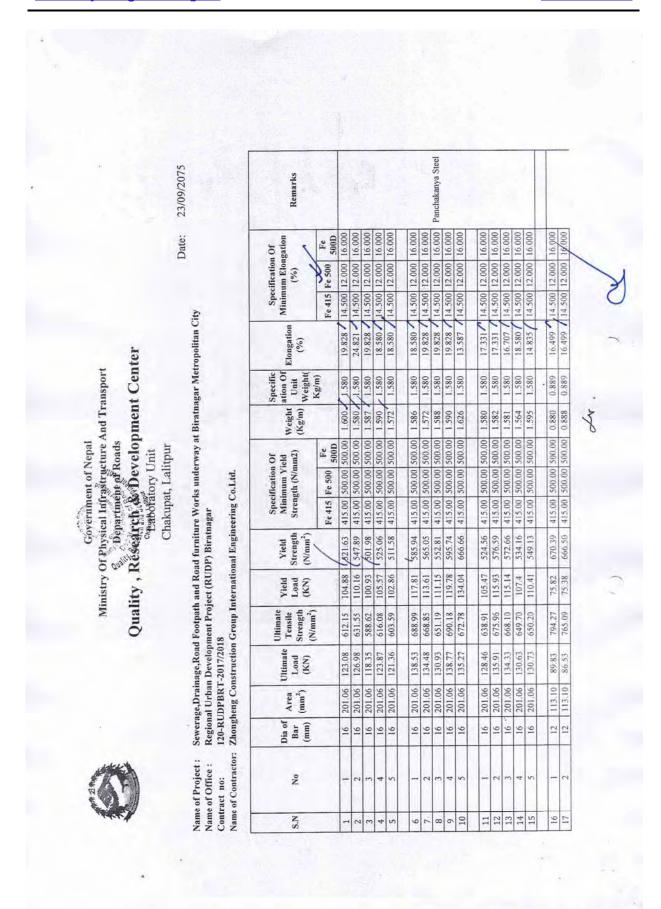
Thanking You,

Sincerely Yours,

Sanjaya Kumar Shrestha Director

Director



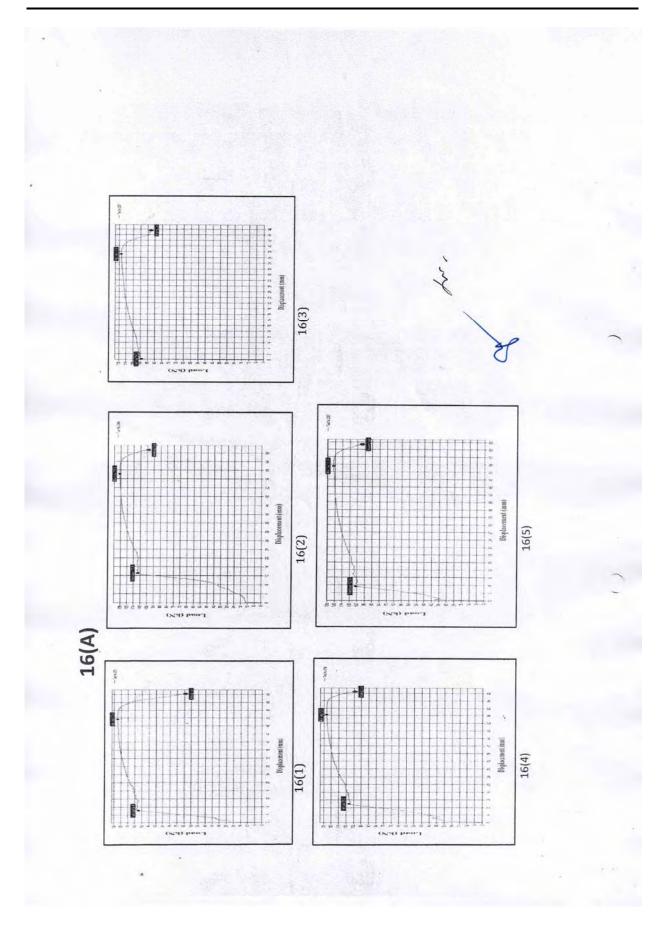


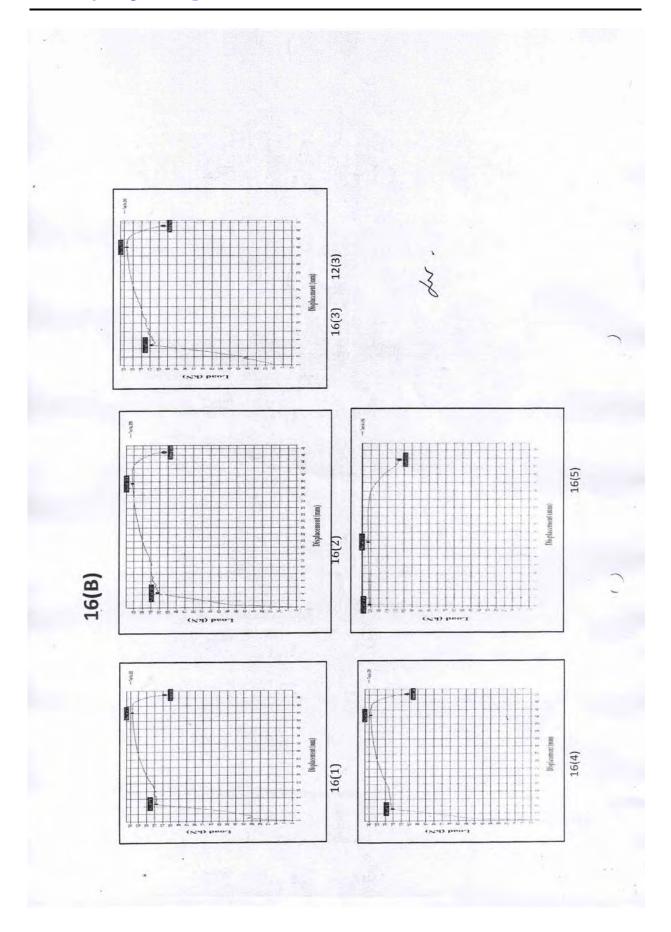


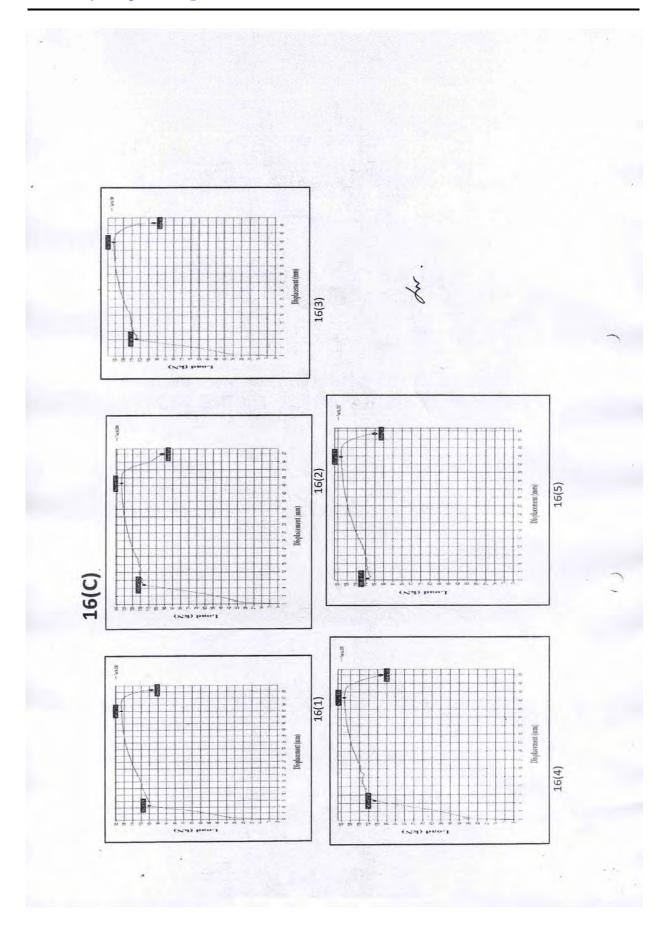
	_		_	_					-					1							15		_				_	
					Ambe steel																ambe steel							
000.91	16.000	16.000	16,000	16,000	16.000	16.000	16.000		16.000	16.000	16.000	16.000	16.000	16.000	000.91	000.91	16.000	16.000	16 000	16.000	16.000	16.000	16.000	16 000	000.9	000.91	16.000	000.91
14.500 12.000 16.000	12.000	12.000	12 000		_	4			12.000	12,000	12.000		_	12.000	14.500 12.000 16.000	14.500 12.000 16.000	12.000				_	-	12.000	12 000	14.500 12.000 16.000	14.500 12.000 16.000	12,000	12.000
14.500	14.500 12.000	14,500	14 500	1	14.500		14.500		14.500 12.000	14.500 12.000	14.500 12.000	14.500	14.500 12.000	14.500 12.000	14.500	14.500	14.500 12.000	14.500 12.000	14 500 12 000	14.500	14.500		14.500	14 500 12 000	14.500	14.500	14.500 12.000 16.000	14,500 12,000 16,000
21,492	18.163	21.492	22 224	21.492	19.828	23.156	22.324		16.499	19.828	21.492	21.492	19.828	19.828	19.828	17.831	19.828	21.825	19 828	19.828	19.828	19.828	21.825	19 828	19.828	21.825	19.828	21.825
688'0	688.0	0.889	0 880	0.889	0.889	0.889	0.889		0.889	688.0	0.889	688.0	0.889	0.617	0.617	0.617	0.617	0.617	0.617	0.617	0.617	0.617	0.617	7190	0.617	119.0	0.617	719.0
0.888	688.0	0.894	0.882	0.880	0.879	0.880	0.890	V	0.884	0.885	0.880	0.880	0.885	0.620	0.620	0.622	619.0	0.617	0.619	0.621	0.624	0.628	0.630	0.615	0.617	619.0	0.614	0.613
		_	500.00	500.00	500.00				500.00	500.00	500.00	500.00	500.00				200.00	500.00	500.00	500.00	500.00	500.00	200.00			500.00		
415.00 500.00 500.00	415.00 500.00 500.00	415.00 500.00 500.00	415.00 500.00 500.00	415.00 500.00 500.00	415.00 500.00 500.00	415.00 500.00 500.00	415.00 500.00 500.00		415.00 500.00 500.00	415.00 500.00 500.00	415.00 500.00 500.00	415.00 500.00 500.00	415.00 500.00 500.00	415.00 500.00 500.00	415.00 500.00 500.00	415.00 500.00 500.00	415.00 500.00 500.00	415.00 500.00 500.00	500.00 500.00		415.00 500.00 500.00	500.00 500.00	200.00 200.00	415.00 500.00 500.00	500.00	415.00 500.00 500.00	415.00 500.00 500.00	415.00 500.00 500.00
415.00	415.00	415.00	415.00	415.00	415.00	415.00	415.00		415.00	415.00	415.00	415.00	415.00	415.00	415.00	415.00	415.00	415.00	415.00	415.00	415.00	415.00	415.00	415.00	415.00	415.00	415.00	415.00
651.65	673.49	96.659	649 53	654.74	660.85	652.09	652.09		682.15	671.72	640.33	673.93	12.879	774.51	721.03	735.55	721.67	742.42	734.28	764.96	734.91	753.12	732.37	760.63	759.99	732.37	764.96	722.31
73.7	76.17	74.64	73.46	74.05	74.74	73.75	73.75		77.15	75.97	72.42	76.22	76.76	60.83	56.63	57.77	56.68	58.31	57.67	80.09	57.72	59.15	57.52	59.74	59.69	57.52	80.09	56.73
737.15	16.908	761.11	748.03	750.24	754.13	749.35	741.48		786.49	780.83	736.71	779.50	777.74	837.92	832.19	841.61	822,77	838.55	840.46	917.62	837,28	903.87	829.77	915.84	913.93	839.83	910.75	824.68
83.37	91.26	86.08	84.6	84.85	85.29	84.75	83.86		88.95	88.31	83.32	88.16	87.96	65.81	65.36	1.99	64.62	65.86	66.01	72.07	65.76	70.99	65.17	71.93	71.78	96.59	71.53	64.77
113.10	113.10	113.10	113.10	113.10	113.10	113.10	113.10		113.10	113.10	113.10	113.10	113.10	78.54	78.54	78.54	78.54	78.54	78.54	78.54	78.54	78.54	78,54	78.54	78.54	78.54	78.54	78.54
12	12	12	12	12	12	12	12		12	12	12	12	12	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10
3	4	2	1	2	3	4	5		1	2	3	4	5	_	2	3	4	5	-	2	3	4	5	_	2	3	4	5
8	16	20	21	22	23	24	25	-	56	27	28	29	30	31	32	33	34	35	36	37	38	39	40	41	42	43	44	45

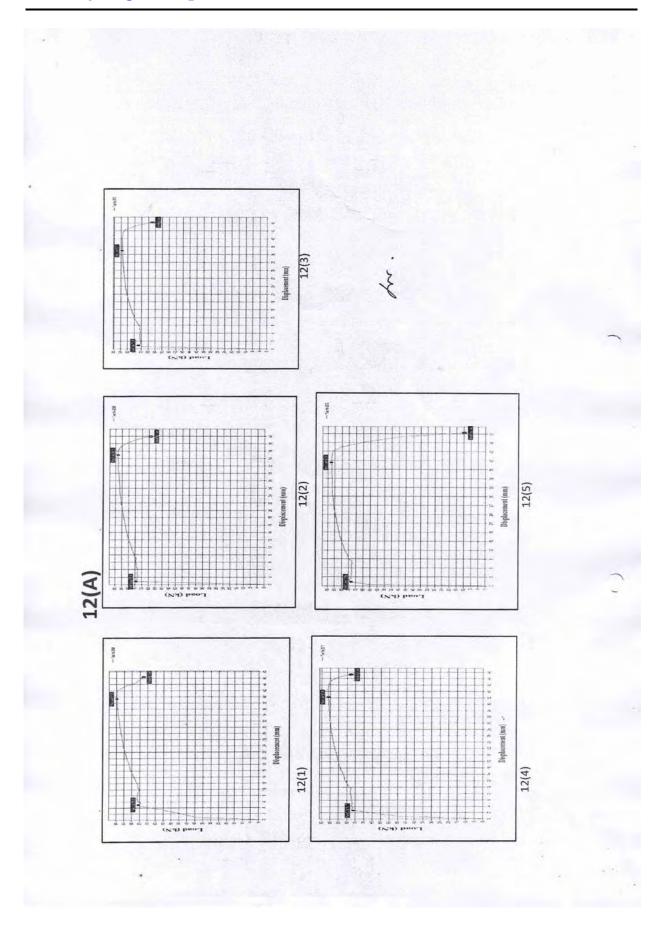


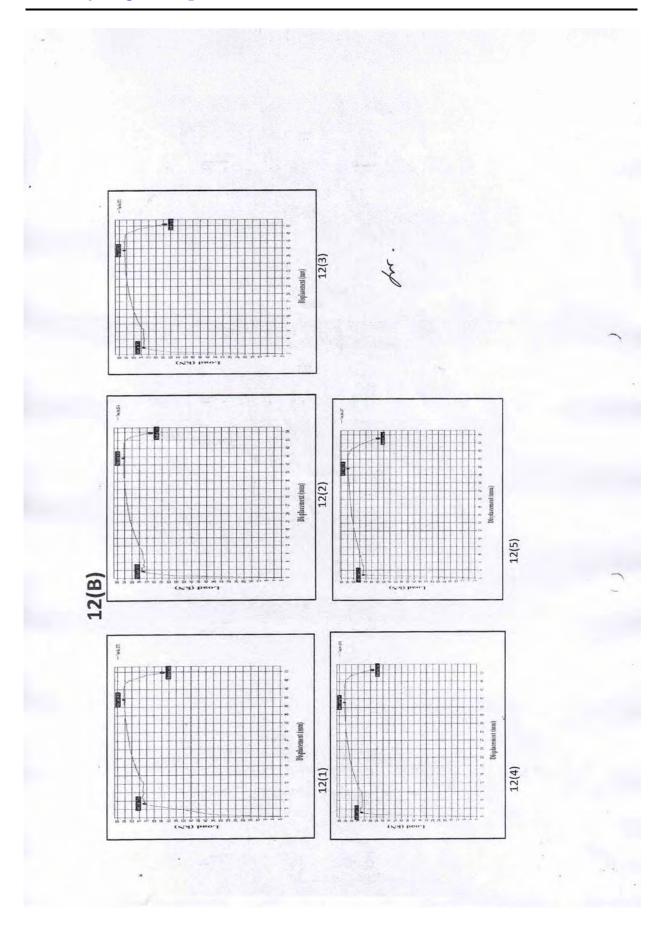
On behalf of client: Quality-Surveyor Er. Krishna Mandal (Consultant)
On behalf of Contractor: Lab. Technician Kiran Chaudary
The report only represents the tested Sample

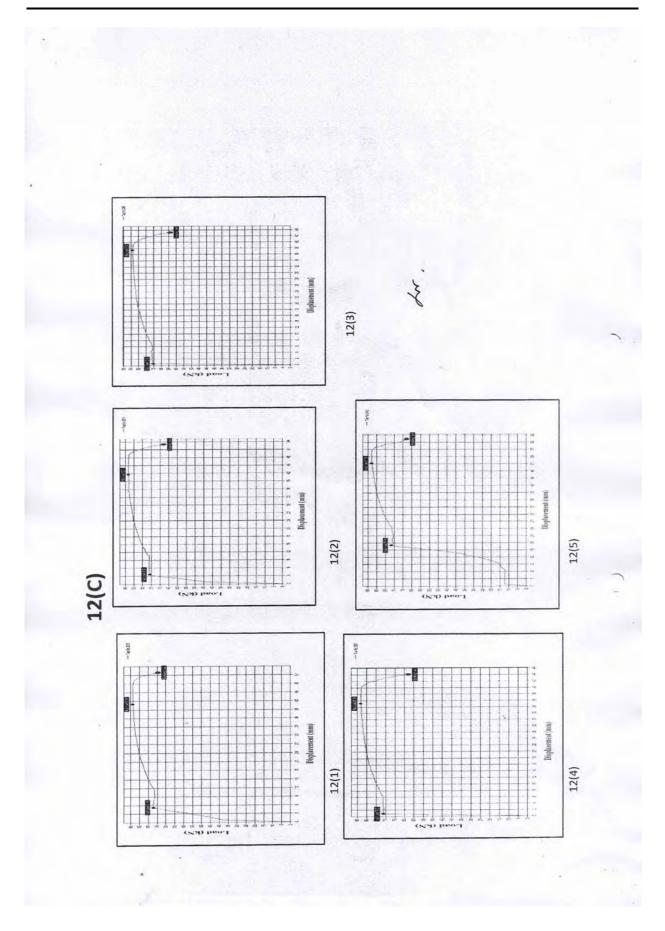


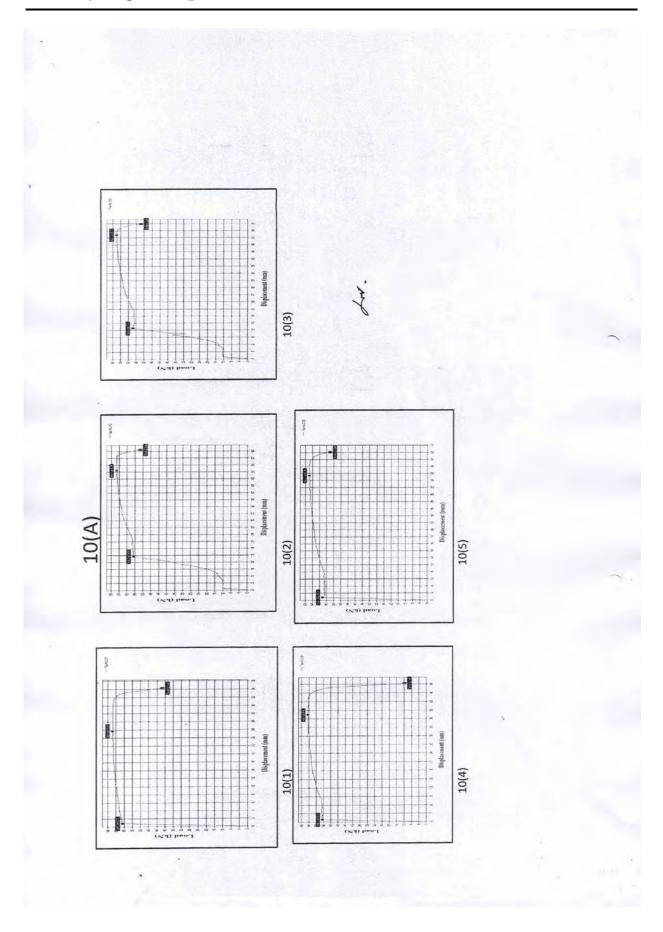


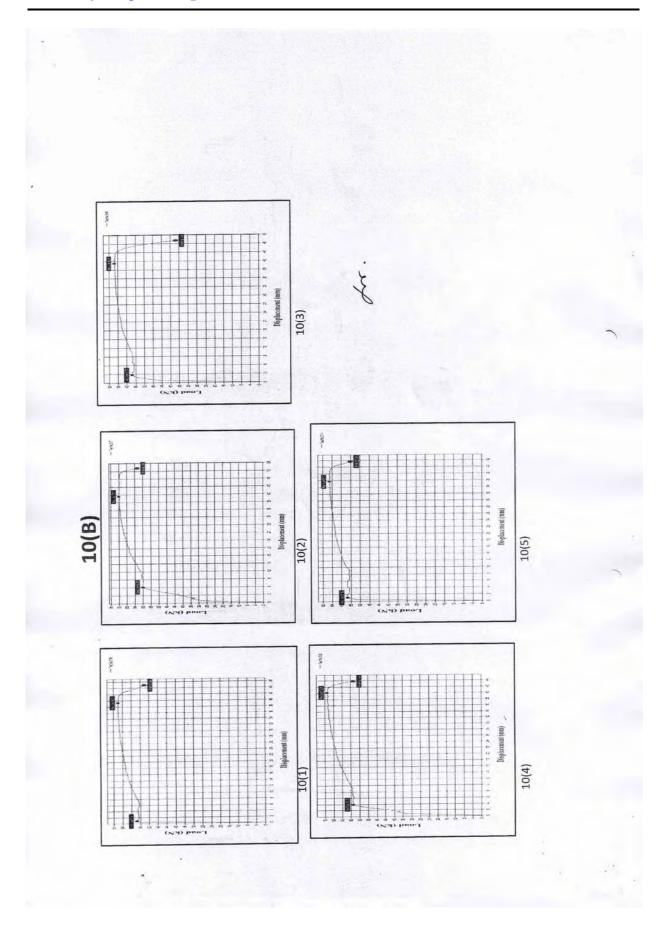


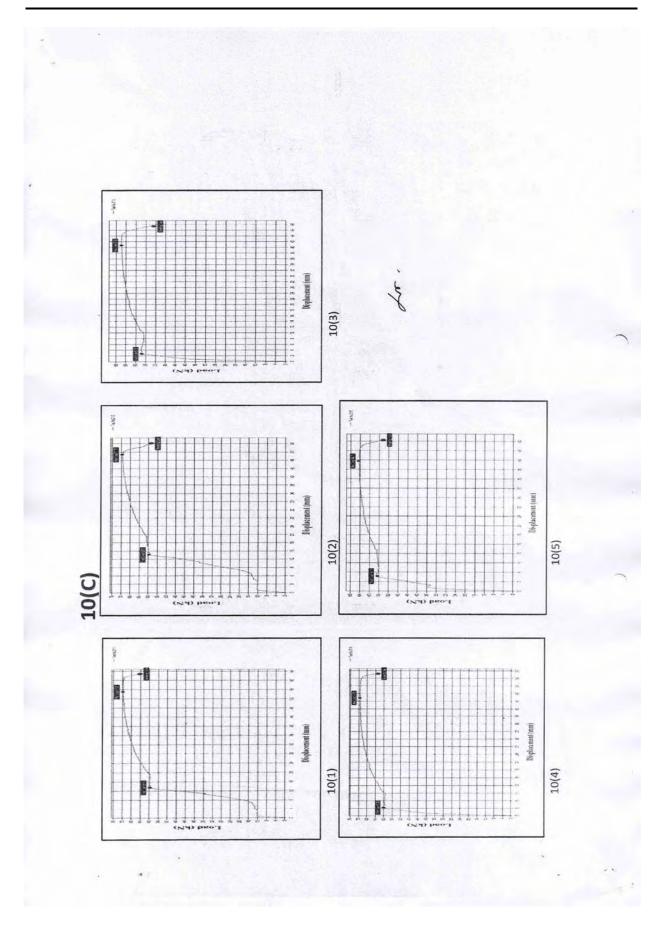












ANNEX-4: SOCIAL & ENVIRONMENT SAFEGUARD

Monitoring Formats Attached – March 2019

<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

	Chec	klist	7
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	No	
2 2.1 2.2	Occupational health and safety Insurance for workers Personal Protective Equipment (PPE)	Yes	
	provided to labors and is using (helmet, facemasks, muffles, gloves, boots, jacket, goggles etc.)	Daily Provided	
2.3	Public notification Safety and warning signs and informative signboards in working sites for work safety	Yes Provided	
2.4	Use of barricades, caution tape and flag	Daily Used	
3	Campsite management	DDO IV	
3.1	Location	DDC, Kanchanbari, Shanti Chowk, Rani	
3.2	First aid facilities available at camp and worksites	Yes	
3.3	Drinking water supply and sanitation facilities/ pit latrines	res	
3.4	Waste Disposal and Management facilities	Tap water/ Hand Pump Yes	4.
3.5	Type of fuel used for cooking	L.P.G	
4	Spoil and Construction material Management		
4.1	Cut and fill balance maintained or not, Reuse of spoil materials	Cut & Fill balance maintained	
4.2	Use of safe spoil disposal locations	Not Applicable	
4.3	Disturbance to Pedestrian and traffic movement	No any disturbance to pedestrians & traffic	flor - 0-3



4.4	Use of private land and agreement with land owners	movement	
5	Air, Noise and Water Pollution	Yes	
5.1	Dust emission and Noise pollution sites	Water sprinkled by tanker on such sites.	
5.2	Water quality monitoring result and locations	ok	
5.3	Block age of natural drainages ,water logging, drain water discharge into farmland/risky areas	Not Applicable	
6	Quarrying of construction materials and Plants Installment		
6.1	Quarry/borrow operation sites	Not Applicable	
6.2	Crusher plant and Asphalt plant operation restoration	Asphalt Plant	
7	Impact/Disruption of Private properties		
7.1		Not Applicable	
7.2	Building structures		
1.2	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 2.1	Employment to local people	Yes, both men and	
	Men and women	women	
12.2	Child labor (if any)	No	4
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/2

Month/Year: March 2019

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

Contract Package: RUDP/ICB/BRT/2

		Co	ompliance Sta	itus		0.00	
S.N		Full	Partial	None	Implementing Agency	Note of Remarks	Deadline
1	Availability of drinking water services	V					
2	Availability of toilet facility in campsite	٧					
3	Legal source of fuel wood use .			٧			
4	Legal document of fuel wood source			٧			
5	Use of safety accessories	٧					
6	Availability of first aid facility	٧		-			
7	Basic wage rate to construction workers	٧					
8	Equal wage rate to male and female workers		٧				
9	Compensation of temporarily occupied land	٧					
10	Compensation of temporarily occupied buildings	٧					
11	Legal document of temporarily occupied assets	٧				4	
12	Non use of child labour in construction activities	٧					

Pre	pared	by

Verified by:





सुचना !!

सुचना!!

सुचना!!

आयोजनाको नामः क्षेत्रिय सहरी विकास आयोजना ।

उल्लेखित आयोजना अन्तर्गत विराटनगर माहानगरपालिकामा Contract No. RUDP/ICB/BRT/2 को बाटो, Sewer र नाला, का कार्यहरू भईरहेको हुदा सर्वसाधारणमा जानकारीका साथ सहयोगको लागी अनुरोध छ।

पि आइ.युः

वि डि. ए:

निर्माण व्यवसायी

Zhongheng Construction Group of International Engineering.

S.NO	LOCATION	TYPES OF WORK	TYPES OF WORKERS	-	BOUR	_	POSITION			ETHNIC	COMPOSITION	
	The state of		The state of the s	SKILLED	UNSKILLED	MALE	FEMALE	JANJATI	DALIT	MUSLIM	MADHESI	BRAHMIN/CHHET
			LOCAL									
1	DDC Yard	Prodcn. yard	NON LOCAL	5	18	23		10	5	5	3	
•	DDC 1010	Trouch, yard	INDIAN									
-			TOTAL	23								
			LOCAL									
1	D2 Ceaus A	Davis -	NON LOCAL	10	30	40	0	15	10	5	10	
2	R2 Group A	Drain	INDIAN									
			TOTAL	40								1000000
			V									
			LOCAL	5	20	25			10		15	
3	R2 Group B	Drain -	NON LOCAL									
			INDIAN									
			TOTAL	25								
_			LOCAL	4	12	16		5	1		10	
ý	02 0 0		NON LOCAL									
4	R2 Group C	Drain	INDIAN									
			TOTAL	16								
			Table 1									
			LOCAL	2	5	7	0	0	2	0	5	
5	R6	Subgrade -	NON LOCAL									
		12.00	INDIAN	-								
			TOTAL	7								
			LOCAL	2	7	9		4			5	
	nc.		NON LOCAL									
6	R6	Base Final -	INDIAN									
			TOTAL	9								
			10011									
		Door -	LOCAL	2	6	8				5	3	
7	R26	Base	NON LOCAL					1	-			
		Maintenance	INDIAN	-	-				250	-		
	-		TOTAL	8								
			LOCAL									1/100
	0.51		NON LOCAL	4	8	12			-		12	187 1
8	R76	Asphalt	INDIAN	*	U	12			-		12	(8 0
			TOTAL	12								18
			10111	124				-	-			1



								V	1			
			LOCAL	7	16	23					23	
9	\$13	DRAIN Raise	NON LOCAL	- X					10		20	
,	313	UNAIN NAISE	INDIAN									
			TOTAL	23								
											-	
			LOCAL									
10	CN2	DRAIN Raise	NON LOCAL	4	8	12			4		8	
	Cita	Divine naisc	INDIAN									
			TOTAL	12								
		1										
	4		LOCAL	. 2	6	8					8	
11	R21	DRAIN Raise	NON LOCAL									
**	1122	DIVIN INDIC	INDIAN									
			TOTAL	8								
			LOCAL	2	7	9			4		5	
12	R05	DRAIN Raise	NON LOCAL									
	1103	Divini Haise	INDIAN					10				
			TOTAL	9								
			LOCAL									
13	T3L10	Drain —	NON LOCAL	5	12	17			7	5	5	
	1344	L. Crom	INDIAN									
			TOTAL	17								
			LOCAL	4	5	9					9	
14	R40	House	NON LOCAL									
		connection	INDIAN									
			TOTAL	9								
_												
			LOCAL	2	9	11		5		6		
15	T3L24E	Drain	NON LOCAL									
			INDIAN									
-	-		TOTAL	11								
			0.000									
			LOCAL	3	8	11	0	5			6	1
16	R103	Drain	NON LOCAL									1187
			INDIAN									16/
	-		TOTAL	11								18
			1200									1
			LOCAL								t	^



17	D110	Desta	NON LOCAL	7	18	25	10	5		10					
1/	R110	Drain	INDIAN												
			TOTAL	25		-									
			LOCAL	4	8	12				12					
18	R07	House	NON LOCAL								-				
10	NO7	connection	INDIAN												
			TOTAL	12											
			LOCAL												
19	Madhumara	Asphalt	NON LOCAL	10	22	32	10	2		20					
13	Yard	Aspirati	INDIAN							1					
			TOTAL	32											
			LOCAL												
20	Koshi Yard	Prodc.Yard	NON LOCAL	8	25	33	3	10		20					
	nosin raid	11000.1010	INDIAN												
			TOTAL	33											
21 TII5A						-	LOCAL								
21 T1L5A	T1L5A	Drain	Drain	NON LOCAL	5	17	22	2	10		10				
			INDIAN												
			TOTAL	22											
		_	LOCAL												
22	T3Truck Line	Sewer Line -	NON LOCAL	3	5	8		5		3					
		_	INDIAN												
-			TOTAL	8											
			10011												
	Rani Hartali	-	LOCAL	4	12	16	5	1		10					
23		Tick drain —	NON LOCAL												
	haat	-	INDIAN	40	-										
	-		TOTAL	16											
	-		LOCAL	-	10	17	-		-						
	Rani B Mills		LOCAL	5	12	17	7		5	5	-				
24	area	Drain Gr A	NON LOCAL					-							
	ulca		INDIAN	47							1				
			TOTAL	17							1/8/				
			LOCAL				-				1/2/				
	Rani B Mills		NON LOCAL	5	17	22		10	7		131				
25	area	Drain Gr B	INDIAN .)	1/	22	5	10	7		1				

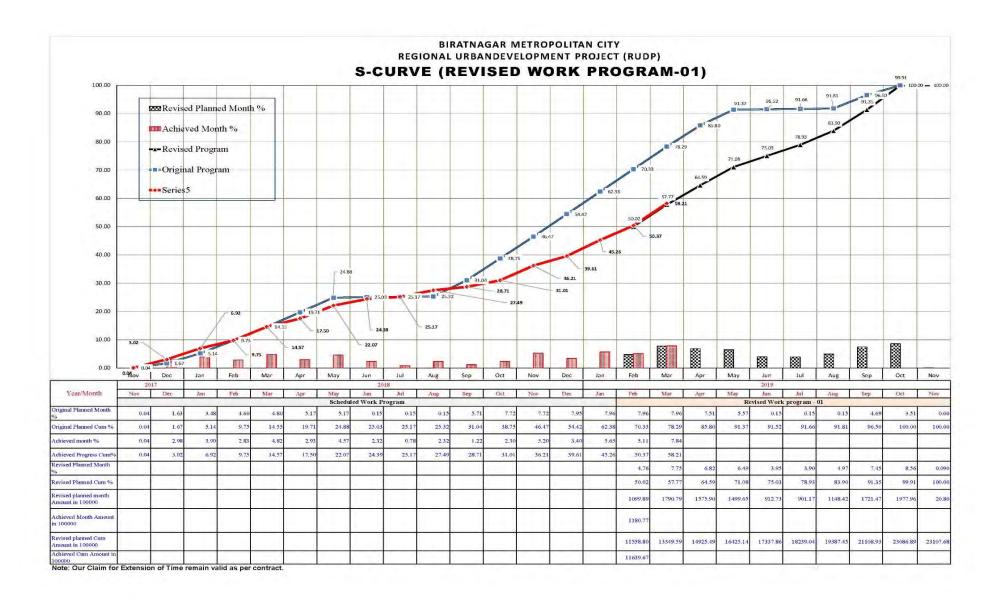


			LOCAL									
34	R6	Tick Drain	NON LOCAL	5	12	17		7	5		5	
			INDIAN	-	*							
_			TOTAL	17								
_			10011	-								
			LOCAL	4	15	19		4	5		10	
35	R29	Kerbstone	NON LOCAL	-								
			INDIAN	-								
			TOTAL	19								
-			LOCAL	3	0	- 11			,			
		2	NON LOCAL	3	8	11			5		6	
34	Chyangbari	RCC Drain	INDIAN		+					1		
			TOTAL	11								
			TOTAL	11		-						
				LAF	BOUR		COMPO	NOITION	_		ETHNIC CON	ADOCITION
			LABOUR CLASS		UNSKILLED	MALE	_	JANJATI	DALIT	MUSLIM	MADHESI	BRAHMIN/CHHETI
			LOCAL	58	165	214	9	35	28	16	144	0
			NON LOCAL	95	263	358	0	95	86	22	155	0
		t	INDIAN	0	0	0	0	0	0	0		
			INDIAN TOTAL	153	0 428	572	9	130	0 114	0 38	0 299	0
					-		_				0	0
					-		_				0	0
					-		_				0	0
					-		_				0	0



ANNEX-5: S-Curve

ATTACHED - March 2019





Annex-6: Master Plan of RUDP Project

