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



November 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 (Scheduled)	1 st November 2019						
Date of Completion (after EOT-1)	18 th May 2020						
Contract Amount including PS and VAT	NRs. 2,611,092,249.63						
Contract Amount including PS and VAT (Corrected)	NRs. 2,611,088,390.60						
Contract Amount including PS and VAT (after approval of VO-1)	NRs. 2,760,853,674.59						
Additional Financing (provisional items) 100% funded by BMC after VO-1	NRs. 39,999,893.49						



General Features								
Progress	wrt to Original BOQ Quantity	wrt to the quantity after VO-1						
Road Rehabilitation (Asphalt)	54.04%	59.83%						
Sewer Line	91.92%							
Storm Drain	100.00%	100.00%						
Road Side Drain	114.50%	84.20%						
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	20.03% Lag DSC asked the contractor to su	Program-01: D7%; Lead(+) or Lag(-) by (-) ubmit updated work program & VO-1 to monitor the project						
Financial Progress up to date (on the basis of IPC forwarded for disbursement)	of IPC forwarded for In Percentage: 68.52%, In Figure: NRs. 1,891,874,970.							

3. SUMMARY OF PROGRESS STATUS OF ALL MAJOR COMPONENTS

S. No.	Description	Unit	BoQ Quantity	Quantity after VO-1	Progress up to date	Remaining	Progress Status expressed in (%)	Progress Status expresse d in (%)	Remarks
1	Sewer Line								
a	HDPE/RCC	m	20,082.00	18,559.80	17,818.50	2,263.50	88.73%	99.46%	
b	Manhole	No.	685.00	606.00	549.00	136.00	80.15%	98.84%	



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S. No.	Description	Unit	BoQ Quantity	Quantity after VO-1	Progress up to date	Remaining	Progress Status expressed in (%)	Progress Status expresse d in (%)	Remarks
с	Sewer Inlet	No.	1,010.00	1,010.00	604.00	406.00	59.80%	59.80%	
d	House Connection	No.	3,784.00	3,784.00	1,471.00	2,313.00	38.87%	39.40%	
2	Storm Water	Drain							
a	RCC Drain	m	652.80	585.00	585.00	0.00		100.00%	
b	Piles	No.	132.00	138.00	138.00	0.00		100.00%	
3	Road								
a	Subgrade	m	73,860.00	66,718.00	52,305.31	21,554.69	70.82%	78.40%	
b	Sub base	m	73,860.00	66,718.00	52,076.21	21,783.79	70.51%	78.05%	
с	Base	m	73,860.00	66,718.00	47,238.66	26,621.34	63.96%	70.80%	
d	Prime	m	73,860.00	66,718.00	39,914.40	33,945.60	54.04%	59.83%	
e	Asphalt	m	73,860.00	66,718.00	39,914.40	33,945.60	54.04%	59.83%	
4	Road Side Drain	m	26,050.00	35,424.00	29,827.19	(3,777.19)	114.50%	84.20%	



3.1. SUB PROJECT COMPONENTS

3.1.1. SEWER LINES

Trunk Line T1 & T2 were already completed in STIUEIP (Secondary Town Integrated Urban Environmental Improvement Project) and remaining part of sewer lines in T4 completed and T3 have been identified and necessary survey and construction works were performed, almost all the lines were completed except 100m length of secondary sewer lines of T3 east of Sanihat chowk. Details of proposed sewer lines are as below: -



S. No.	Description	Unit	Original Quantity	Quantity after VO-1
1	Sewerage Pipe Supply and Installation	m	20,082.00	18,559.80
	Reinforced Concrete Pipe laying and jointing		2241.00	1,967.50
	Line T2 (Secondary)	m	206.00	205.00
	Line T3 (Trunk)	m	1905.00	1,632.50
	Line T4 (Trunk)	m	130.00	130.00
	HDPE laying and jointing	m	17,841.00	16,592.30
	Line T1 (Secondary)	m	1,825.00	1,743.20
	Line T2 (Secondary)	m	3,927.00	3,153.40
	Line T3 (Secondary)	m	9,997.00	9,643.80
	Line T4 (Secondary)	m	2,092.00	2,051.90
2	Manhole (Brick / RCC)	no.	685.00	606.00
3	Sewer Inlet	no.	1,010.00	1,010.00
4	House Connection	no.	3,784.00	3,784.00
5	Reinstatement of Roads	km	73.86	66.718
6	Road side Drain	Km	26.05	35.424
7	Storm Water Drain	m	652.8	585.00

Table 1: PROPOSED ALL MAJOR COMPONENTS OF THE PROJECT



Table: - 2 PHYSICAL PROGRESS IN SEWER LINES till date

		BoQ		Up to Pr	Up to Pre Month		This month		to date	Progress	
SN	Description	Length (m)	Manhole (Nos.)	Length (m)	Manhole (Nos.)	Length (m)	Manhole (Nos.)	Length (m)	Manhole (Nos.)	%	
Hur	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	1,632.50	25.00			1,632.50	25.00		
3	Hume Pipe (T4)	130.00	4.00	130.00	4.00			130.00	4.00		
Sub	total in (m)	2,241.00	68.00	1,967.50	35.00			1,967.50	35.00		
HD	PE 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	3,153.40	121.00			3,153.40	121.00		
3	HDPE (T3)	9,997.00	316.00	8,902.50	283.00	641.30	50.00	9,543.80	333.00		
4	HDPE (T4)	2,092.00	68.00	2,051.90	56.00			2,051.90	56.00		
Sub	total in (m)	17,841.00	588.00	15,851.00	514.00	641.30	50.00	16,492.30	564.00		



SN	Description	BoQ		Up to Pre Month		This month		Total to date		Progress
		Length (m)	Manhole (Nos.)	Length (m)	Manhole (Nos.)	Length (m)	Manhole (Nos.)	Length (m)	Manhole (Nos.)	%
Tota	l	20,082.00	656.00	17,818.50	549.00	641.30	50.00	18,459.80	599.00	91.92%
										99.46% wrt VO-1

SN	Description	BoQ (Nos.)	Up to Pre Month	Up to Pre Month This month		Progress %
1	Sewer inlet	1,010.00	604.00	0.00	604.00	59.80
2	House connection	3,784.00	1,471.00	20.00	1,491.00	39.40



3.1.2. STORM WATER DRAIN

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

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

3.1.3. ROADS AND LANES

Most of the roads/lanes in Biratnagar are in a poor state due to lack of periodic maintenance, and need improvement where as some of the roads are graveled and would benefit from upgrading. In the areas where drainage and sewerage works are proposed there will be significant impact on the existing roads. The Project has considered on design based on reinstatement, rehabilitation and upgrading of existing roads length 73.86 km. Some of the roads of the project has been completed and some of them are in the process of being upgraded.

Out of 73.86 km. about 52.07 Km. has been attempted for Sub Base but due to start unseasonal monsoon, asphalt work is delaying.

About 39.91 km. asphalt work is completed. The summary of physical progress is presented below: -



			I	Length in m	l		Work Comp	oleted			S
SN	Road Number	Name of Road	Prog	ress		Sub-base	Base	Asphalt	RCC	Paint	nark
BI			Previous (Revised)	This Month	Total	m	m	m	m	m	Remarks
1	R42	Bhagwati Marg	218.00		218.00	218.00	218.00	218.00			
2	R5	College Road	650.00		650.00	650.00	650.00	544.50			
	R5	Chulachuli Road		230.00	230.00	230.00	230.00				
3	B2	Gauri Shankar Marg	2,152.00		2,152.00	2,152.00	2,152.00	2,152.00	210.00		
4	R65	Satghumti Marg	320.00		320.00	320.00	320.00				
5	R107		215.00		215.00	215.00	215.00	174.00			
6	R107 a		50.00		50.00	50.00	50.00				
7	R104	VIP Marg	273.00		273.00	273.00	273.00	273.00			
8	R8	Madhumara Marg	600.00		600.00	600.00	600.00	582.00			
9	B1	Kanchan Marg	1,173.00		1,173.00	1,173.00	1,106.00	1,106.00		1,106.00	
10	R21	Pratibha Marg	1,330.00		1,330.00	1,330.00	1,330.00	1,330.00		1,012.80	
11	B3	Keshaliya Marg	1,574.00		1,574.00	1,574.00	1,574.00	1,574.00			
12	S13		1,617.00		1,617.00	1,617.00	1,467.00	1,417.00		1,812.60	
13	R12		880.00		880.00	880.00	880.00	740.00			

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



]	Length in m	I		Work Com	pleted			S
SN	Road Number	Name of Road	Prog	ress		Sub-base	Base	Asphalt	RCC	Paint	ark
514	Koad Number	Ivanie of Koau	Previous (Revised)	This Month	Total	m	m	m	m	m	Remarks
14	R12	Kanchha Dai Marg	900.00		900.00	900.00	900.00	289.50			
15	Rani site	Rani	4,023.00		4,023.00	4,023.00	4,023.00	4,023.00			
16	R16	Satya Marg	604.00		604.00	604.00	604.00	604.00			
17	R26	Pasang Marg	654.00		654.00	654.00	654.00	654.00			
18	R28	Pustakalaya Marg	635.00		635.00	635.00	621.20	339.20			
19	R27	Peepal Marg	734.32		734.32	734.32	734.32	734.32		639.20	
20	R25	Devi Marg	580.00		580.00	580.00	580.00	561.70			
21	R24	Prabhat Marg	518.15		518.15	518.15	518.15	518.15			
22	R37	Banglamukhi Marg	477.00		477.00	477.00	477.00	477.00			
23	R7	Manakamana Marg	542.00		542.00	542.00	542.00	542.00			
24	R7	in between R18 to R27	400.00		400.00	400.00	400.00	375.00			
25	R30	Shanti Marg	123.10		123.10	123.10	123.10	123.10			
26	R9	Fadindra Marg	119.00		119.00	119.00	119.00	119.00			
	R9		150.00	80.00	230.00	230.00	230.00	140.00			
27	S11	Samrat Marg	660.00		660.00	660.00	504.60	504.60		504.60	



]	Length in m	I		Work Com	pleted			S
SN	Road Number	Name of Road	Prog	ress		Sub-base	Base	Asphalt	RCC	Paint	ark
511	Koau Number	Ivanie of Koau	Previous (Revised)	This Month	Total	m	m	m	m	m	Remarks
28	R22	Amar Marga	367.65		367.65	367.65	367.65	367.65			
29	R29	Shanti Marg	684.70		684.70	684.70	684.70	684.70		585.60	
30	R36	Gaurav Marg	220.00		220.00	220.00	220.00	220.00		440.00	
31	R33	Tarun Marg	280.00		280.00	280.00	280.00	280.00			
32	R64	Satya Narayan Marg	121.00		121.00	121.00	121.00	-			
33	R8		225.00		225.00	225.00	225.00	225.00			
34	N36		190.00		190.00	190.00	186.95	186.95			
35	R188	Shakti Marg	120.00		120.00	120.00	120.00	120.00			
36	R2	Main Road	2,800.00	-	2,800.00	2,800.00	2,488.20	937.11		350.00	
37	T3 Line 6A	Pandit Meghnath Marg	220.00		220.00	220.00	220.00	220.00			
38	T2 Line 24C	Nava Jyoti Marg	205.00		205.00	205.00					
39	T2 Line 24D	Nava Jyoti Marg	210.00		210.00	210.00					
40	R63 (DSP Road)	DSP Road	420.00		420.00	420.00	405.00	405.00			
41	R90	Shakti Marg	320.00		320.00	320.00	320.00	320.00		640.00	



			I	Length in m	I		Work Com	pleted			S
SN	Road Number	Name of Road	Prog	ress		Sub-base	Base	Asphalt	RCC	Paint	ark
514	Koad Number	Ivalle of Koau	Previous (Revised)	This Month	Total	m	m	m	m	m	Remarks
42	R77	Arniko Marg	80.00		80.00	80.00	80.00	80.00			
43	R76	Mitra Marg	270.00		270.00	270.00	270.00	270.00		541.20	
44	R183	Nava Jyoti Marg	240.00		240.00	240.00	220.00	220.00			
45	T1 L16B	Xenial Front	210.00		210.00	210.00	205.00	205.00			
46	T1L16A	Xenial South	180.00		180.00	180.00	180.00	180.00			
47	R114	Dharanidhar Marg	560.00		560.00	560.00	560.00	560.00		560.00	
48	R113	Kavi Lekh Marg	740.00		740.00	740.00	740.00	740.00			
49	R5a		54.70		54.70	54.70	54.70	54.70			
50	Rani site B		520.00		520.00	520.00	520.00	520.00			
51	R3	Dharamban Marg	2,233.00	150.00	2,383.00	2,383.00	2,383.00	2,150.30		2,080.30	
	R3 - under STIUEIP	Tinpaini to Puspalal chowk			-					4,000.00	
52	R78	Sombare - Highway	92.00		92.00	92.00	92.00	92.00			
53	R84	West of school	473.20		473.20	473.20	236.00	236.00			
54	R85	Machha Line	160.00		160.00	160.00	160.00	160.00			
55	R87	Mahabir Chowk	148.00		148.00	148.00	110.00	110.00			



]	Length in m	I		Work Com	pleted			S
SN	Road Number	Name of Road	Prog	ress		Sub-base	Base	Asphalt	RCC	Paint	ark
514	Koau Number	Name of Koau	Previous (Revised)	This Month	Total	m	m	m	m	m	Remarks
56	R86	Petrol pump side -R12	200.00		200.00	200.00	120.00	120.00			
57	R11	R18/R86	281.00		281.00	281.00	205.00	205.00			
58	N3	Jatuwa	117.00		117.00	117.00	117.00	117.00			
59	N4	Jatuwa	168.00		168.00	168.00	168.00	168.00			
60	R10	Ram Marga	292.00		292.00	292.00	292.00	292.00		853.20	
61	T2L26F	APF	55.00		55.00	55.00					
62	T2L27		80.00		80.00	80.00	80.00	80.00			
63	R122		265.55		265.55	265.55	265.55	265.55		497.40	
64	N9		220.42		220.42	220.42	220.42	220.42			
65	R17		365.00		365.00	365.00	365.00	365.00		730.00	
66	R18		370.00		370.00	370.00	370.00	180.00			
67	N2		75.84	30.00	105.84	105.84	105.84				
68	T3L6	Moti marga	170.00		170.00	170.00	170.00	170.00			
69	T3L6	Elite club - CDO Office	107.00		107.00	107.00					
70	T3L6	Balmandir - Ganesh Mandir	380.00		380.00	380.00					



]	Length in m	l		Work Com	pleted			S
SN	Road Number	Name of Road	Prog	ress		Sub-base	Base	Asphalt	RCC	Paint	ark
511	Koad Number		Previous (Revised)	This Month	Total	m	m	m	m	m	Remarks
71	T3L6	CDO Office front	49.40		49.40	49.40					
72	T3L6A	Golchha Marga	220.00		220.00	220.00	220.00	220.00			
73	T3L23	Madhumara road	541.00		541.00	541.00	541.00	541.00		358.40	
74	R45	Bata road	505.00		505.00	505.00	315.00	315.00			
75	T3L21		400.00		400.00	400.00	400.00	400.00		774.00	
76	N5		70.00		70.00	70.00	70.00	70.00		122.00	
77	T3L39		400.00		400.00	400.00	245.80	245.80		491.00	
78	T3L39A		130.00		130.00	130.00	130.00	130.00		179.40	
79	T3L39B		80.00		80.00	80.00	80.00	80.00		117.60	
	T3L39C			100.00	100.00	100.00					
80	R68 - T2L24G		220.00		220.00	220.00					
81	N10		194.00		194.00	194.00	194.00				
82	T3L24C		170.00		170.00	170.00					
83	T3L9		278.00		278.00	278.00					
84	R6		1,228.20		1,228.20	1,228.20	1,228.20	1,228.20			
85	N24		136.00		136.00	136.00	136.00	136.00			



			J	Length in m Progress			Work Com	pleted			S
SN	Road Number	Name of Road	Prog	ress		Sub-base	Base	Asphalt	RCC	Paint	ark
SIN	Koad Number		Previous (Revised)	This Month	Total	m	m	m	m	m	Remarks
86	R31		188.70		188.70	188.70	188.70	188.70			
87	Bindabasini Marga		352.28		352.28	352.28	352.28	352.80			
88	Bhattimode to Hartalihaat		166.50		166.50	166.50	166.50	166.50			
89	R73		217.00		217.00	217.00	217.00	217.00			
90	R6	Bata Galli	269.00		269.00	269.00	269.00	269.00			
	R6		280.00		280.00	280.00	280.00	194.80			
	R6	Pratibha chowk to N2	510.80		510.80	510.80	510.80	510.80			
91	R9 (R41-R7)		194.80		194.80	194.80	194.80	194.80			
92	R44	Thakurbari Road	357.50	125.00	482.50	482.50	482.50				
93	R102	Main	140.00		140.00	140.00	140.00				
94	R102	Branch	71.30		71.30	71.30					
95	R103		170.40		170.40	170.40					
96	R32		188.00		188.00	188.00	188.00	188.00			
97	T2L18Y		116.20		116.20	116.20	116.20				



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]	Length in m Progress			Work Com	pleted			S
SN	Road Number	Name of Road	Prog	ress		Sub-base	Base	Asphalt	RCC	Paint	ark
514	Koau Number	Name of Koau	Previous (Revised)	This Month	Total	m	m	m	m	m	Remarks
98	R20		108.00		108.00	108.00	108.00				
99	R82	Everest School	530.00		530.00	530.00	530.00	530.00			
100	T1L5		140.00		140.00	140.00	140.00	140.00			
	T1L5A		533.50		533.50	533.50	533.50	275.00			
101	T3L23C	Jay Nepal	220.20	52.00	272.20	272.20	272.20	65.20			
102	T3L25B		195.00		195.00	195.00					
103	T3L25C		140.00		140.00	140.00					
104	R3	T3 Trunk	465.00		465.00	465.00	370.00				
105	Nagmandir to R3		55.00		55.00	55.00	55.00	55.00			
106	R4			220.00	220.00	220.00					
107	R75		130.00		130.00	130.00	130.00	130.00			
108	R43		250.00		250.00	250.00					
109	T219P		124.80		124.80	124.80	124.80	124.80			
110	T219Q		113.70		113.70	113.70	113.70	113.70			
111	R106		130.00		130.00	120.90	120.90				
112	T3L12		80.00		80.00	80.00	80.00				



Regional Urban Development Project (RUDP)

]	Length in m	I		Work Com	oleted			S
SN	Road Number	Name of Road	Prog	ress		Sub-base	Base	Asphalt	RCC	Paint	ark
51	Koau Number	Name of Koau	Previous (Revised)	This Month	Total	m	m	m	m	m	Remarks
113	R46		340.00		340.00	200.00					
114	T3L11E		180.00		180.00	100.00	100.00				
115	T3L13D		70.00		70.00	70.00					
116	T3L13C			100.00	100.00	100.00	100.00	100.00			
117	R34		157.00		157.00	157.00	157.00				
118	T3L13E		80.00		80.00	80.00	65.00	65.00			
119	T3L13K		154.00		154.00	154.00	154.00	74.00			
120	R19		220.00	27.00	247.00	247.00	247.00				
121	R41		540.00		540.00	540.00	420.00	400.00			
122	R9B		90.00		90.00	90.00	90.00	83.85			
123	R67		119.40		119.40	119.40	119.40				
124	R74			100.00	100.00	100.00	100.00				
125	R9A		109.00		109.00	109.00	109.00	109.00			
126	T2L19F			120.00	120.00	120.00	120.00				
127	T3L7A		190.00		190.00	190.00	190.00	158.00			
	Total		50,971.31	1,334.00	52,305.31	52,076.21	47,238.66	39,914.40	210.00	18,395.30	



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

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



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



				Progress in	m		Footpath		
SN	Road Number	Туре*	Previous	This Month	Cumulative	Length (m)	Avg. Breadth (m)	Quantity (m ²⁾	Remarks
36	В3	Precast block	670.00		670.00	670.00	0.70	469.00	RHS
37	B3	Precast block	670.00		670.00	670.00	0.70	469.00	LHS
38	S11	Precast block	112.00		112.00	112.00	0.95	106.40	RHS
39	S11	Precast block	75.00		75.00	75.00	1.21	90.75	LHS
40	Rani	Precast block	425.00		425.00	425.00	1.00	425.00	RHS
41	Rani	Precast block	425.00		425.00	425.00	1.00	425.00	LHS
42	R3	Precast block	250.00		250.00	250.00	1.10	275.00	RHS
43	R3	Precast block	1,050.00		1,050.00	1,050.00	1.10	1,155.00	LHS
44	R27	Precast block	400.00		400.00	400.00	1.10	440.00	RHS
45	R27	Precast block	400.00		400.00	400.00	0.85	340.00	LHS
46	R26	Precast block	300.00		300.00	300.00	1.23	369.00	RHS
47	R26	Precast block	285.00		285.00	285.00	1.10	313.50	LHS
48	R25	Precast block	205.00		205.00	205.00	1.00	205.00	RHS
49	R25	Precast block	201.00		201.00	201.00	1.00	201.00	LHS



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

SN	Description	Unit	Proposed	Total Up to Previous Month	This Month	Total Up to this Month	Progress
1	Subgrade	m	73,860.00	50,971.31	1,334.00	52,305.31	70.82%
2	Sub Base	m	73,860.00	50,642.21	1,434.00	52,076.21	70.51%
3	Base	m	73,860.00	43,917.42	3,321.24	47,238.66	63.96%
4	Prime/Tack	m	73,860.00	39,784.40	130.00	39,914.40	54.04%
5	Asphalt	m	73,860.00	39,784.40	130.00	39,914.40	54.04%
6	Paint	m	73,860.00	18,395.30	-	18,395.30	24.91%



3.1.4. ROAD SIDE DRAIN

Most of the roads under this project for upgrading is without drain or existing drain are in poor condition, on instruction from the employer at various stretches the construction works were ongoing and some of them have been completed. The project has provisioned drain at either sides or one side as per available RoW of the road. The contractor has 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 the	ill date.
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			L	Length in (m)			Work Completed		
SN	Road Number	Name of Road	Progress			Brick	RCC	Remarks	
			Previous (Revised)	This Month	Total	m	m	Rem	
1	B1	Kanchan Marg	90.00		90.00	90.00			
2	R29	Shanti Marg	256.52		256.52	256.52			
3	N36		185.88		185.88	185.88			
4	R8		219.83		219.83	219.83			
5	R7	Devi Marg and Pipal Marg	149.58		149.58	149.58			
6	R63	DSP Road	418.79		418.79	418.79			
7	R9	Baglamukhi path	103.20		103.20	103.20			
8	S13	Udaya Marga	158.10		158.10	158.10			
9	N33		70.00		70.00	70.00			
10	R28	Pustakalaya Marg	278.00		278.00	278.00			
11	R90	Shakti Marg	313.25		313.25	313.25			
12	R114	Dharanidhar Marg	312.33		312.33	312.33			



Monthly Progress Report

			L	ength in (m	l)	Work Con	npleted	
SN	Road Number	Name of Road	Prog	ress		Brick	RCC	arks
			Previous (Revised)	This Month	Total	m	m	Remarks
13	R11	Om Shiv Marg	225.17		225.17	225.17		
14	R18		381.50		381.50	381.50		
15	R17		75.00		75.00	75.00		
16	R113	Kavi Lekhnath Marg	72.45		72.45	72.45		
17	R77	Arniko Marg	80.00		80.00	80.00		
18	R76	Mitra Marg	270.00		270.00	270.00		
19	N9	Devi Marga	22.70		22.70	22.70		
20	N4		146.38		146.38	146.38		
21	R33	Tarun Marg	264.48		264.48	264.48		
22	R36	Gaurav Marg	216.45		216.45	216.45		
23	R86	Janpath Marg	187.55		187.55	187.55		
24	R183	Nava Jyoti Marg	211.05		211.05	211.05		
25	R7a		65.00		65.00	65.00		
26	Rani site	Rani B	530.00		530.00	530.00		
27	Rani site	Rani A	270.00		270.00	270.00		
28	N3		110.00		110.00	110.00		



			L	ength in (m	l)	Work Cor	npleted	
SN	Road Number	Name of Road	Prog	ress		Brick	RCC	Remarks
			Previous (Revised)	This Month	Total	m	m	Rem
29	N5		65.00		65.00	65.00		
30	R21	Binayak Marga	388.25		388.25	388.25		
31	R2	Main Road	2,092.50		2,092.50	2,092.50		
32	T1L16B	Xenial Front	205.68		205.68	205.68		
33	T1L16A	Xenial South	150.20		150.20	150.20		
34	R75	Tintoliya Marga	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		
37	R7(b) (Neuro to sidhartha chowk)	Siddhartha Marga	330.00		330.00	330.00		
38	R12	Sukra Path	290.00		290.00	290.00		
39	R42	Jahada Marga	171.00		171.00	171.00		
40	R6	Shahi Marg	760.00		760.00	-	760.00	
41	R21(a)	DharamBadh Junction	80.00		80.00	80.00		
42	R78	Binayak Marga	70.00		70.00	70.00		
43	R188	Shakti Marg	115.60		115.60	115.60		
44	R40	Brahma Kumari Marga	350.00		350.00	350.00		



			L	ength in (m	l)	Work Con	npleted	
SN	Road Number	Name of Road	Prog	ress		Brick	RCC	Remarks
			Previous (Revised)	This Month	Total	m	m	Rem
45	Rani Site C		97.50		97.50	97.50		
46	Ranit Site D		131.45		131.45	131.45		
47	T3L21	Moti Marga	385.95		385.95	385.95		
48	T3L39	Gaheli Marga	340.00		340.00	340.00		
49	T3 Line 39A		90.00		90.00	90.00		
50	T3 L39B		90.00		90.00	90.00		
51	T2L27	Bhumi Prashasan Junction	79.50		79.50	79.50		
52	T4 Line 1	Sailesh Marg	100.00		100.00	100.00		
53	N2		95.00		95.00	95.00		
54	T2 Line 26E	College Road	90.00		90.00	90.00		
55	T2 Line 18C	Maisthan Marga	102.00		102.00	102.00		
56	T2Line 18A	Makalu Marga	60.00		60.00	60.00		
57	R6 (T3L11i)		247.50		247.50	247.50		
58	R9 (T3L11k)	Tathasthu Marga	180.00		180.00	180.00		
59	R45 (T3Line10D)	Dadhiram Marga	260.00		260.00	260.00		
60	R9, T2 L19	Fanindra Marga	380.00		380.00	380.00		



Monthly Progress Report

			L	Length in (m)			npleted	
SN	Road Number	Name of Road	Prog	ress		Brick	RCC	arks
			Previous (Revised)	This Month	Total	m	m	Remarks
61	R7c (Neuro to Shanti Chowk	Siddhartha Marga	305.00		305.00	305.00		
62	R84	School Marga	663.00		663.00	663.00		
63	R85	Lekhanath Marga	150.00		150.00	150.00		
64	R87	Byas Marga	150.00		150.00	150.00		
65	Rani B (Bus park)		90.00		90.00	90.00		
66	R8(a)	Madhumara Marg	285.00		285.00	285.00		
67	T3L23A		280.00		280.00	280.00		
68	Rani E		85.00		85.00	85.00		
69	R102	Hamro Marg	132.50		132.50	132.50		
70	R10/R10a	Ram Marga	940.36		940.36	940.36		
71	N10	APF	150.00		150.00	150.00		
72	R23	Bani Marg	200.00		200.00	200.00		
73	R103	Vibuti Marga	162.50		162.50	162.50		
74	T3L6	Sahid Marga	350.00		350.00	350.00		
75	P1, T3L6A	Pandit Meghnath Marga	260.00		260.00	260.00		
76	T2 L24C & D	Hanuman Das Marga	130.00		130.00	130.00		



			L	ength in (m	ı)	Work Con	npleted	
SN	Road Number	Name of Road	Prog	ress		Brick	RCC	Remarks
			Previous (Revised)	This Month	Total	m	m	Rem
77	R99	APF	187.00		187.00	187.00		
78	T2 L25		300.00		300.00	300.00		
79	R20		60.00		60.00	60.00		
80	T2L24F		60.00		60.00	60.00		
81	R105		150.00		150.00	150.00		
82	R34	Prabhu Marg	158.35		158.35	158.35		
83	R35	Garima Marg	138.00		138.00	138.00		
84	R107		160.00		160.00	160.00		
85	T3L13D		70.63		70.63	70.63		
86	T3L13E		62.40		62.40	62.40		
87	T3L11E		110.00		110.00	110.00		
88	B2		76.50		76.50	76.50		
89	R78		35.00		35.00	35.00		
90	R7b	in between R26 & R27	288.50		288.50	288.50		
91	T3L21A		25.00		25.00	25.00		
92	R74		96.00		96.00	96.00		



			L	Length in (m)			npleted	
SN	Road Number	Name of Road	Prog	ress		Brick	RCC	arks
			Previous (Revised)	This Month	Total	m	m	Remarks
93	R46		120.00		120.00	120.00		
94	R101		160.00		160.00	160.00		
95	T3L7A		125.00		125.00	125.00		
96	T3L8		75.00		75.00	75.00		
97	R20		100.00		100.00	100.00		
98	R5		200.00		200.00	200.00		
99	R67		110.00		110.00	110.00		
100	R82		350.00		350.00	350.00		
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		335.00		335.00	335.00		
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		



			L	ength in (m	l)	Work Con	npleted	
SN	Road Number	Name of Road	Prog	ress		Brick	RCC	Remarks
			Previous (Revised)	This Month	Total	m	m	Rem
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		225.00		225.00	225.00		
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	355.00		355.00	355.00		
121	T2L18K		40.00		40.00	40.00		
122	T3L23C		105.00		105.00	105.00		
123	T2L24E	Mahabir Marga	60.00		60.00	60.00		
124	R44		390.00		390.00	390.00		



			L	ength in (m	l)	Work Cor	npleted	
SN	Road Number	Name of Road	Prog	ress		Brick	RCC	Remarks
			Previous (Revised)	This Month	Total	m	m	Rem
125	R110		150.00		150.00	150.00		
126	Parichaya Marga		130.00		130.00	130.00		
127	T3L25B		200.00		200.00	200.00		
128	T1L5, 5A		590.00		590.00	590.00		
129	R82		110.00		110.00	110.00		
130	T2L19Y		150.00		150.00	150.00		
131	T3 Trunk	Tinpaini to Devkota Chowk	1,140.00		1,140.00	1,140.00		
132	T2L19F		55.00		55.00	55.00		
133	T2L18D		20.00		20.00	20.00		
134	R19		175.00		175.00	175.00		
135	R83	Shiva Marga	125.00		125.00	125.00		
136	T310B, T3L7D (R46)	Rangeli Road	400.00		400.00	400.00		
137	T2L19G		60.00		60.00	60.00		
138	R4 (T2 Trunk)	Jatuwa Marga	130.00		130.00	-	130.00	
139	T3L22	Rangeli Road	70.00		70.00	70.00		
140	T3L25B, Outlet	Madhumara	96.00		96.00	96.00		



SN	Road Number	Name of Road	Length in (m)			Work Completed		
			Progress			Brick	RCC	Remarks
			Previous (Revised)	This Month	Total	m	m	Ren
141	T3L7B	Matrika Marga	75.00		75.00	75.00		
142	T3L5	Sanihat Marga	280.00		280.00	280.00		
143	T2L19X	Parichaya Marga	210.00		210.00	210.00		
144	T2L19H		75.00		75.00	75.00		
145	R181		150.00		150.00	150.00		
146	N38		150.00		150.00	150.00		
	Total		29,827.19		29,827.19	28,937.19	890.00	



3.2. ENVIRONMENTAL ASPECT

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

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

3.2.1. BORROW/ QUARRY SITES

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

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

3.2.2. DISPOSAL OF SPOIL AND CONSTRUCTION WASTE

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

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

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

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

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

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 Chis yang.

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

3.2.5. ASPHALT PLANTS AND BATCHING PLANTS

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

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

3.2.6. OCCUPATIONAL HEALTH AND SAFETY MEASURES

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

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

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



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

A regular monitoring visit by DSC was carried out and a standard site specific environmental monitoring checklist was used to record the present status of the project to verify if work has been done as per EMP Guidelines. A sample of environmental checklist is attached herewith as Annex.

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.

3.4.2. GRIEVANCE REDRESSES MECHANISM:

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

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 equipment's.

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

3.4.5. STATUS OF RELOCATION OF SERVICES

Relocation of water supply pipe lines were ongoing at R2, Tinpaini chowk, B2 and at Pratibha chowk, etc. The supply has been providing temporarily as per site condition where required. Relocation of electric poles in R2, Jahada road, R7 (Neuro to shanti chowk) & R3 are going on.

Labour	Labour		Composition		Ethnic composition				
class	Skilled	Unskilled	Male	Female	Janjati	Dalit	Muslim	Madhesi	Brahmin/ Chhetri
Local	20	62	82	0	0	0	0	82	0
Non local	53	177	210	20	55	29	14	132	0
Indian	7	27	34	0	0	0	17	17	0
TOTAL	80	266	326	20	55	29	31	231	0

Table – 5: Status of Labor at Site



3.5. FINANCIAL PLAN

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

3.5.1. DISBURSEMENT RECORDS IN CONSTRUCTION

Table – 6: DISBURSEMENT RECORDS in CONSTRUCTION

S. No.	Description	Submission date	Covering date	Submitted Amount(NRs)	Remarks
1	IPC 01	15 th October 2017		339,105,000.00	Mobilization Advance
2	IPC 02	2 nd April 2018	2nd November 2017 to 31st March 2018	261,501,492.21	
3	IPC 03	1 st July 2018	1st April 2018 to 30th June 2018	316,582,708.58	
4	IPC 04	1 st October 2018	1st July 2018 to 31st September 2019	105,227,887.16	
5	IPC 05	2 nd December 2018	1st October 2018 to30thNovember2018	95,951,603.44	
6	IPC 06	31 st January 2019	1st December 2018 to 31st January 2019	264,937,394.98	
7	IPC 07	12 th April 2019	1st February 2019 to 31st March 2019	308,805,662.97	
8	IPC 08	9 th May 2019	1st April 2019 to 30th April 2019	106,210,198.68	
9	IPC 09	10 th June 2019	1st May 2019 to 31st May 2019	90,419,375.33	
10	IPC 10	11th July 2019	1st June 2019 to 30th June 2019	67,863,056.59	
11	IPC 11	30 th September 2019	1 st July 2019 to 30 th September 2019	95,296,297.30	
12	IPC 12	3rd November 2019	1st October 2019 to 31st October 2019	53,113,369.86	



S. No.	Description	Submission date	Covering date	Submitted Amount(NRs)	Remarks
13	IPC 13	30thNovember2019	4th June 2019 to 30th June 2019	125,965,923.87	
	l amount exclu ilization advan	0		1,891,874,970.97	



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:

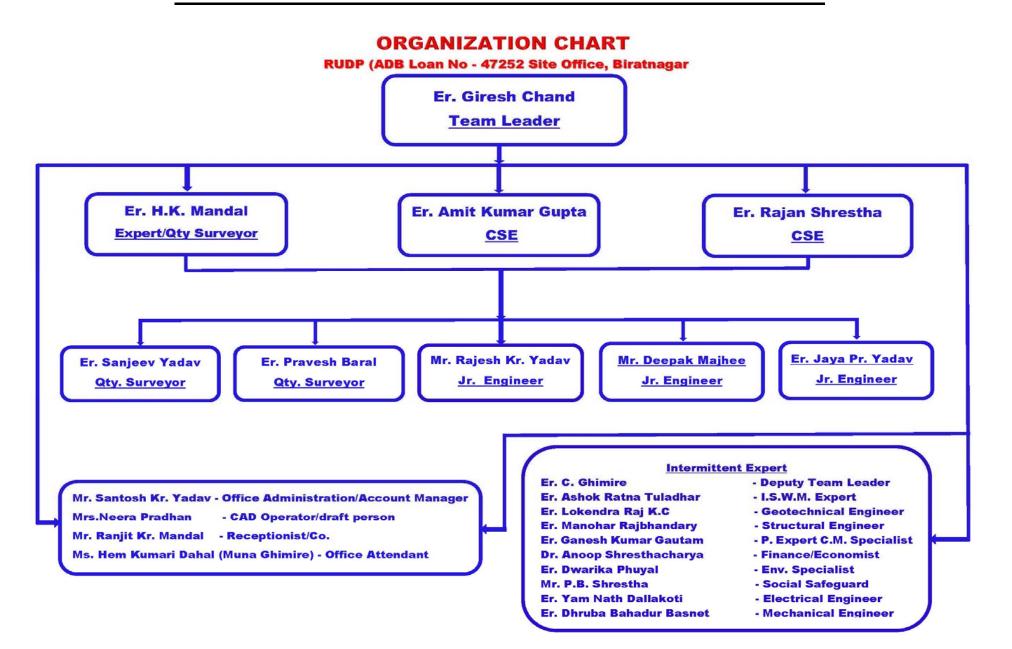
- Detailed Design and Procurement Assistance Phase for integrated solid waste management design (ISWM)
- Monthly progress report and quarterly progress report.
- Semi- annual Environmental monitoring report.
- Semi-annual Safeguard monitoring report.
- Annual progress report including annual Environmental / 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	Mr. Giresh Chand	Team Leader	6 th Sep 2017	
2	Mr. Ashok Ratna Tuladhar	ISWM (Designer)	6 th Sep 2017	Intermittent
3	Mr. Dwarika Phuyal	Environmental Safeguard Expert	1 Nov 2017	Intermittent
4	Mr. Prakash Bhakata Shrestha	Social Safeguard Monitoring Expert	26 th dec-2017	Intermittent
5	Mr. Hare Krishna Mandal	Expert/Quantity surveyor	1 st Nov 2017	
6	Mr. Amit Kumar Gupta	Construction Supervision Engineer	1 st March 2018	
7	Mr. Rajan Shrestha	CSE/Quantity Surveyor	7 th Nov 2017	Working as CSE from 1st May 2019.
8	Mr. Rajesh Kumar Yadav	Junior Engineer-1	6 th Sep 2017	
9	Mr. Sanjeev Yadav	Qty. Surveyor	5 th Nov 2017	
10	Mr. Santosh Kumar Yadav	Office Administration/Account Manager	6 th Sep 2017	
11	Mr. Hem Kumari Dahal (Muna Ghimire)	Office Attendant	6 th Sep 2017	
12	Mr. Ranjit Kumar Mandal	Receptionist	10 th Dec 2017	
13	Mr. Pravesh Baral	Junior Engineer-2	10 th Dec 2017	
14	Mr. J.P Yadav	Junior Engineer-3	1 st March 2018	
15	Mr. Deepak Majhi	Junior Engineer-4	1 st March 2018	
16	Mrs. Neera Pradhan	CAD operator/Draft Person	10 th Dec 2017	
17	Mr. Yubraj Poudel	Driver	10th Feb-2019	



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

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



5. PROGRESS OF SUB – PROJECT COMPONENTS

5.1. CONSTRUCTION MATERIALS.

Before using any construction material in the project, as per clause 7.3, engineer gave prior notice to contractor for joint inspection of the construction materials and all materials have been jointly checked and verified. Team leader issued letter to contractor to do the lab test of the construction materials from the authorized organizations and lab reports of the tested materials have been submitted by contractor. Engineer has emphasized on the production of the pre-cast item like (Kerb stone, drain cover slab, manhole etc.) for better work progress of the project. The Contractor has established three production yards at Koshi project, Madhumara and Judi contractor camp for pre-cast items like Kerb stone, drain cover slab, sewer precast elements, etc. but as more than 75% work done so that the production yard at Koshi project has been closed and production are going on.

The Contractor has informed to borrow RCC NP-3 pipes from Itahari Hume pipe factory or other location and also requested for three Edge bearing test. It has been tested in presence of consultant TL, PIU and contractor representative.

Mad	Target This Month		Achievement This Month		Leading		Lagging		Remarks	
Month	Monthly	Accumulated	Monthly	Accumulated	Monthly	Accumulated	Monthly	Accumulated	ACTINAT RS	
July-18	0.15%	25.17%	0.78%	25.18%	0.63%	0.01%			Leading	
August-18	0.15%	25.32%	2.32%	27.50%	2.17%	2.18%			Leading	
September-18	5.71%	31.03%	1.22%	28.72%				-2.31%	Lagging	
October-18	7.72%	38.75%	2.30%	31.03%				-7.72%	Lagging	
November-18	7.72%	46.47%	5.20%	36.22%				-10.25%	Lagging	
December-18	7.95%	54.41%	3.40%	39.62%				-14.79%	Lagging	
January-19	7.96%	62.37%	5.65%	45.27%				-17.10%	Lagging	
February-19	7.96%	70.33%	5.11%	50.38%				-19.95%	Lagging	
February-19 (after Revision)	5.33%	50.03%	5.11%	50.38%		0.35%			Leading	
March -19	7.75%	57.77%	7.84%	58.21%		0.44%			Leading	
April-19	6.82%	64.59%	4.53%	62.74%				-1.85%	Lagging	
May-19	6.49%	71.08%	4.54%	67.28%				-3.80%	Lagging	
June-19	3.95%	75.03%	2.05%	69.33%				-5.70%	Lagging	

5.2. PROGRESS ACHIEVED TILL DATE



Month	Target This Month		Achievement This Month		Leading		Lagging		D
	Monthly	Accumulated	Monthly	Accumulated	Monthly	Accumulated	Monthly	Accumulated	Remarks
July-19	3.90%	78.93%	2.19%	71.52%				-7.41%	Lagging
August-19	4.97%	83.90%	2.01%	73.53%				-10.37%	Lagging
September-19	7.45%	91.35%	4.97%	78.50%	NA	NA	-2.48%	-12.85%	Lagging
October-19	8.56%	99.91%	1.14%	79.64%	NA	NA	-7.42%	-20.27%	Lagging
November-19	0.09%	100.00%	0.33%	79.97%	0.24%	NA	NA	-20.03%	Lagging

5.3. KEY EVENTS

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

S. No.	Date	Activities/Events	Remarks
1		Frequent visit of sites by the representatives of the employer.	
2	10 th November 2019	Expert visit to Biratnagar Site, Prof. Dr. Bhagwan Ratna Kansakar, Wastewater Treatment Specialist, Mr. Lokendra K.C., Geotechnical Engineer and Mr. Ganesh Gautam, Contract Management specialist from BDA.	

Table 8: KEY DATES of EVENTS / ACTIVITIES



6. DETAILS OF PRE CAST ACTIVITIES.

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

	Physical Progress till date										
			I	Progress							
S.N.	Description	Unit	BoQ	Up to Previous month (RM.)	This Month (RM.)	Total to Date (RM.)	Remarks				
1	Precast Slab	No		79,871.00	2,000.00	81,871.00	Under progress				
2	Kerb Stone	Rm	147,729.68	92,293.30	1,000.00	93,293.30	63.15%				

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

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



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

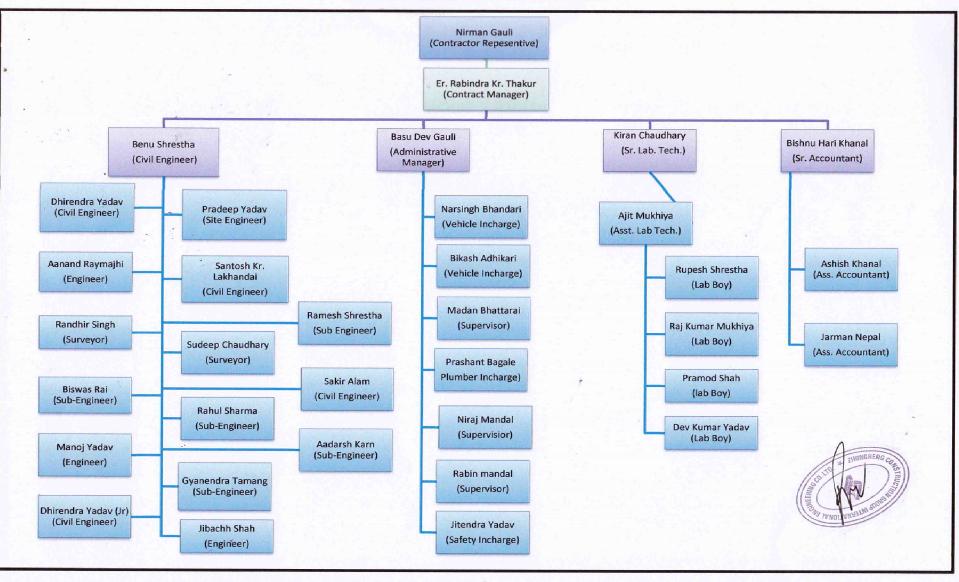
	Physical Progress till date										
				Progi	ress						
S.N.	Description	Diameter (mm)	BoQ (RM)	Up to Previous month (RM.)	This Month (RM.)	Total to Date (RM.)	Remarks				
1	HDPE Pipe	110.00	1,987.20	4,487.20	-	4,487.20					
2	HDPE Pipe	200.00	16,656.00	16,500.00	-	16,500.00	Under process				
3	HDPE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

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

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



Details of Contractor's Site Personnel





7. CONTRACTOR'S MANPOWER

Table 13: CONTRACTOR'S KEY STAFFS

S. No.	Position	Minimum Number Required as per Contract	ZHONGHENG CONSTRUCTION Group	Remarks
1	Project/Contract Manager (1 No) 15/10 Yrs. (Total/Similar Exp.)	1	1	
2	Civil Engineer- 10/6	2	2	
3	Sanitary Engineer- (1no.)- 12/8	1	-	
4	Road Engineer- (1no.)-12/8	1	1	
5	Electromechanical Engineer-(1no)- 10/5	1	-	
6	Safety Engineer	-	1	
7	Site Engineer	-	8	
8	Sub- Engineer	-	7	
9	Accountant	-	3	
10	Lab Technician	-	6	
11	Store Keeper	-	1	
12	Vehicle In charge	-	2	
13	Skilled Labors		80	
14	Unskilled Labors		266	



8. CONTRACTOR'S EQUIPMENT

Table 14: CONTRACTOR'S EQUIPMENT

S. No.	Equipment Type and Characteristics	Min Number required as per Contract	ZHONGHENG CONSTRUCTION Group	Remarks
1	Excavator (200 above)	5	1	Backhoe loader-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	1	
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 Litres)	1	1	
11	Water browser (minimum 5000 Litres)	3	9	
12	Chips spreader	1	-	
13	Bitumen decanter minimum 4000 Litres. (preheating container)	2	2	
	Air compressor	2	2	
14	Tipping Trucks	5	2	
15	Service vehicle	15	4	
16	Survey equipment (Total station with accessories)	2	1	



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S. No.	Equipment Type and Characteristics	Min Number required as per Contract	ZHONGHENG CONSTRUCTION Group	Remarks
17	Theodolite	1	-	
18	Levelling	2	27	
19	Mobile Generator 15-20 KVA	5	10	
20	Mixer Machine	3	5	
21	Concrete Batching Plant	1	-	
22	Concrete pump	1	-	
23	Drain cleaner/ Nala cleaner	2	_	
24	Broomer	_	1	
25	Motor Bike	-	11	
26	Plate Compactor	-	5	
27	Water Pump	-	14	

9. WORK PLAN FOR THE NEXT MONTH

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

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



ANNEX-1: Photographs of November, 2019





Sub base at R4



Laying of Sewer pipes at T3Line7



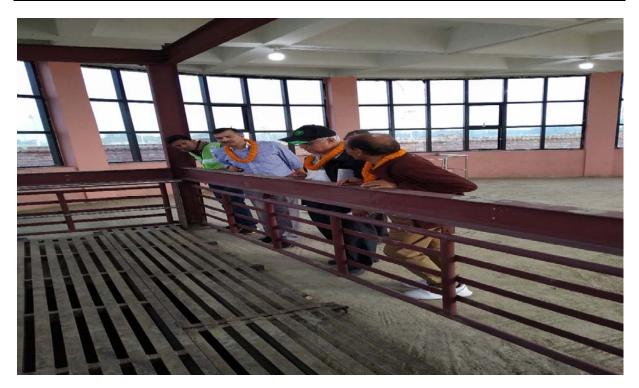


Laying of Sewer pipes at T3Line7



Brick Manhole of Sewer line at T3Line7





Experts with Team Leader at WWTP



Precast work at Yard



ANNEX-2: Minutes of Meeting November, 2019



	Meeting Minute: 15
Regional Urban	Development Project (RUDP), Biratnagar
15 th Safeguard Desk (SD) Meeting	
The 15 th Safeguard Desk meeting v of Project Manager Er. Bharat Ku were made.	was held on 27 th November, 2019 at PIU office under the Chairmanship mar Neupane, discussed over the following agendas and the decision
Participants:	
Safeguard Desk members:	
Er. Bharat Kumar Neupane	Project Manager, PIU/RUDP, Biratnagar
Mr. Punam Kumar Dahal	Chief, social Development, PIU/RUDP, Biratnagar
Mr. Prakash Bhakta Shrestha	Social Safeguard Expert, DSC/RUDP, Biratnagar
Er. Dwarika Phuyal	Environmental Safeguard Expert DSC/RUDP, Biratnagar
Invitee:	
Er. Prakash Chaudhari	Deputy Project Manager

Er. Giresh Chand

Team Leader, DSC/RUDP, Biratnagar

Discussion and Decisions:

Agenda no1: Progress Review and compliance issues meeting and Site Visit

Discussion and Decision: Joint meeting and site visit of PMC, PIU and DSC was held on 26th and 27th November, 2019. The meeting was held at PIU Office under the chairmanship of Mayor Mr. Bhim Parajuli and discussed over the progress and compliance issues. In meeting presentation on Compliance issues of project were made by DTL/PMC Mr. Rajendra Giri. PM Er.Bharat Kumar Neupane and TL/DSC Er. Giresh Chand clarified the issues raised in meeting and agreed to fully comply the few non-complied and partially complied issues as according to the PAM and ToR.

Agenda no2: Progress on Safeguard Measures

Discussion and Decision:

Discussed over the dust emission during construction contractor has been sprinkling water over dust prone area; however was not sufficient, contractor therefore instructed to increase the frequency of water sprinkling in dust prone area within construction sites and nearby unpaved road surfaces.



Regional Urban Development Project (RUDP)



Page.

Discussed over the Use of personnel Protective Equipment like, helmet, boots, glove, and jackets by labors was found partly compliance. The contractor instructed for full compliance and provided the site and personnel safety tools, proper barricades and traffic signs.

Discussed over the matter of drain cover, almost completed road side drains found cover with RCC cover.

Agenda-3: Encourage of Female employment

Discussion and Decision:

Discussed over the low number of female employee; Contractor instructed to encourage employing as labor and skilled man power to local female.

Contractor instructed to manage separate camp and necessary facilities for female workers to encourage of employment.

Priority should be given to employ local labors.

Agenda -4: Others

Discussion and Decision:

The overall safeguard compliance found satisfactory.

age

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



Monthly Progress Report

ember 019 grade Remarl	2		Mon	Г	ontiny rest Report	mmary Sheet of Mo	Su		
	Sub	ar	Yea						
Remar			Type Mater		Prajatantra Marg(B)	Location:-Rani-			
	CBR%	PI%	OMC	MDD	Date of Testing	Source of Sample	Location/Chainage	Lab.Ref no.	Sn.
	5.78	8.48	7.40	1.957	9-Nov-19	*Existing Road	Prajatantra Marg-B,(0+150)	RUDP-SG-01	1
	-								-
-									
									-
					1.1.1.1				
									-
					100				
					1				
	>3	<18				nit	Sp. Lin		-
				(Internet	Huthority				
	-				131	la serie de la	Confractor		
			2	Consū	BUILDING DESIGN AU		13 A 2		
INEER	US ENG	ND PLU	LTD A	NCY PVI	WITH B.N. CONSULTA	ERNATIONAL	ONSTRUCTION GROUP INT	HONGHENG C	ZI
-	, NEPAI	IANDU	KATHN	(P)LTD,	& ARCHITEGIS	and the second second	ADDITION AUGUST		
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	/	2	(1.8	Λ		word 29	
		R			diav			- Witch	
	ved By				Verified By	Submitted By		hecked By Engineer	8
	Chand					Contract Manager			
-	ved By eader	Approv Team L	LTD A	NCY PVI (PFLTD,	WITH B.N. CONSULTA & ARCHITECTER J. C. X.		ENGINEERING CO. LTD	Chirerela hecked By	



		C	ontract	No:- R	tropolita	BRT-02			
							Month Year	Nove 20	mber 19
-	- Carlo Carro	Loca	tion:-Pr		ra marg-E		of Material	Sub-C	
SN.	Lab.Ref.no	Testing Date	Chainage		re content %	Max.Dry density	Field Dry	Compaction %	and the second
1	RUDP-SG-FD-1, L/S	10-Nov-19	0+050	7.40	6.17	gm/cc 1.957	density, 1.910	97.60	95
2	RUDP-SG-FD-1, R/S	10-Nov-19	0+030	7.40	7.12	1.957	1.910	97.60	95
3	RUDP-SG-FD-1, C/L			7.40	7.88	1.957	1.905	97.34	95
4	RUDP-SG-FD-1, R/S	10-Nov-19		7.40	7.14	1.957	1.890	96.59	95
			,						
		i. Tels					1.01		
-	Coi	tractor ENG				6	Consultan	E.	
ZH	ONGHENG CONSTRUCT	ALSING STR	NTERNAT	TIONAL	VENTURE V	NG DESIGN VITH B.N. C ERS & ARCI	AUTHORI	TY (P) ETD IN NCY PVT. LTD P) LTD, KATH	AND PLUS
	Checked By Engineer Dhirendra Yaday		Submitt Contract M	Manager	Verified B Expert Qty Sun H.K. Mandal/Ri	veyor/CSE		Approved By Team Leader Giresh Chand	



Monthly Progress Report

			Contract No:- RU Summary Sheet of M						
						Mor			ember 019
			Locatio	on:-T3L13C	46.	Тур	e of		grade
Sn.	Lab.Ref no.	Location/Chainage	Source of Sample	Date of Testing	MDD	Mate	PI%		Remark
1	RUDP-SG-01	T3L13C,(0+080)	Existing Road	9-Nov-19	1.995	8.00	8.64	6.65	
-									
-									
-									
				1	-				
-									
_		Sp. I	Limit				<18	>3	
				n	thorit	IPI			
-		Contractor ZHONGHE			Consu	10	1		
ZH	IONGHENG CO I	NSTRUCTION GROUP I	NTERNATIONAL	BUILDING DESIGN A WITH B.N. CONSULT: & ARCHITECT	UTHORIT	Y (P) LT F. LTD A	ND PL	US ENG	INEERS
E	hecked By Engineer endra Yadav		Submitted By Contract Manager Rabindra kr. Thakur	Verified By Expert Qty Surveyor, H.K. Mandal/Rajan St		(Appro Team L	ved By leader Chand	



	REGIO	В	iratnag ontract	gar Me No:- Ri	VELOP tropolita UDP/ICB/I f Field Densit	n City BRT-02	r pro	DJECT	
			Cultural	- oncer of	There is the ist	1	Month		mber
	Sender in		Loca	tion:-	T3L13C		Year of Material		19 Grade
				Moistur	e content %	Density	(gm/cc)	Compa	ction %
SN.	Lab.Ref.no	Testing Date	Chainage	OMC%	Field MC%	Max.Dry density gm/cc	Field Dry density,	Compaction %	Specified %
1	RUDP-SG-FD-1, L/S	11-Nov-19	0+020	8.00	7.21	1.995	1.934	96.95	95
2	RUDP-SG-FD-1, R/S RUDP-SG-FD-1, L/S	11-Nov-19	0+060 0+100	8.00 8.00	7.16	1.995 1.995	1.949	97.70	95
			0.100	0.00	0.55	1.995	1.908	95.66	95
						19			
-		100					-bet We		
			2.1				monty	The	
_	Cor	tractor			3	1 (5)	Consultan	LD P	
ZH	ONGHENG CONSTRUCT	D. * ZHONGHEA TION GROUP RING CO. LTT	INTERNAT	TONAL	VENTURE W	NG DESIGN	AUTHORI	TY (P) LTD IN NCY PVT: LTD PLTD, KATH	AND PLUS
	Engineer Dhirendra Yaday		Sabmitt Contract M	Aanager	Verified B Expert Qty Surv H.K. Mandal/Ra	veyor/CSE		Approved By Team Leader Giresh Chand	



	November 2019	Sub-base	Remarks							BUILDING DESIGN AUTHORITY (P) LTD IN JOINT VENTURE WITH B.N. CONSULTANCY PVT. LTD AND PLUS ENGINEERS & ARCHTECTS (P) LTD, KATHMANDU, NEPAL		
	NON	Su	R%	42.10				-		B.N. CO HMAND		eader Chand
		-	P1% CBR%	0.84 42	1.85			5 >30		E WITH D, KAT	9	Approved By Team Leader Giresh Chand
	Month: Year	Type of Material	OMC P	5.15 0	-			9>		S(P) LT		.a. ⊙
		-	MDD	2.214					(a)	OINT V HTECT	A INC	
Biratnagar Metropolitan City Contract No:- RUDP/ICB/BRT-02 Summary Sheet of Monthly Test Report			0.075		6.06			4~15	tharity (P)	Consultant. TD_IN_JOINT & ARCHITEC	Elitational.	
			cight 1.18	16.53	16.63			15~37	13	V (P) L	tes"	stha
		g(B)	6 By W 2.36	28.28	27.36			20-45		ORITY		/CSE
City T-02		mar	Sieve Size in mm / passing % By Weight 37.5 20.0 10.0 5.0 2.36 1.18	34.91	31.87			3060		AUTH		
tan (B/BR est Re		ntra	10.0	48.82	47.30			40~75		ESIGN	1 al	Verified By pert Qty Surve K. Mandal/R
P/IC P/IC		ijata	Size in mm / p 20.0 10.0	71.26	73.04			20-85		ING DI	4.10	Ver Ver Expert H.K. M
Aetro RUD of Mon		i-pra	Sieve	89.84	90.95			65-95		BUILD		
gar No:-		Ran	63.0	100	100			100				
Biratnagar Metropolitan City Contract No:- RUDP/ICB/BRT-02 Summary Sheet of Monthly Test Report		Location :-Rani-prajatantra marg(B)	Testing	0-19	w-19			Spec. Limit : 100 65-95 50-85 40-75 30-60 20-45 15-37		ERING C	0	Submitted By Contract Manager Rabindra Kr. Thakur
Big O 3		Locat	Date of Testing	11-Nov-19	11-Nov-19			Spec.		NGINER	1	Submitted By Dintract Manag bindra Kr. Thak
			Source of Sample	Chisang Khola	Chisang Khola					ERNA FRONAL E	A DE LETA	Co
			Location of Sample	Rani-prajatantra marg(B),0+100	Rani-prajatantra marg(B),0+200					ZHONGHENG CONSTRUCTION ON DATE AND A THINK	THE GEOLDE HITERNATION	
			Lab.Ref no.	RUDP-SB-01	RUIDP-SB-02					NGHENG	Pron D	Checked By Engineer Dhirendra yadav
			Sn.	1 R	2 RI					ZHON	1	Engi

Monthly Progress Report



Regional Urban Development Project (RUDP)

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			100		f Field Density	[Month		ovember
		Locatio	nRan	i-nrajat	antra marg	(B)	Year		2019
		Locatio	JuItan	Moistur	re content %		Type of Material ity(gm/cc)		ab-Base
Sn.	Lab.Ref.no	Testing Date	Chainage	OMC%	Field MC%	Max.Dr	y Field Dry	Compac	Specifie
						density		tion	%
1 2	RUDP-SB-FD-1, R/S RUDP-SB-FD-1, CL	14-Nov-19 14-Nov-19	0+090	5.35	5.38	2.214	· 2.143	96.80	95
2	RUDP-SB-FD-1, CL	14-Nov-19	0+180	5.35	5.45 5.06	2.214	2.158	97.45 96.49	95 95
			0.210	0.00	5.00	2.214	2.150	90.49	95
									1.48
_									
					3.1	164			
		1				1			
_			-						
	Contrae					Co	nsultant		
1	ZHONGHENC CONSTR INTERNATIONAL ENGIN	NEERING CO.	UP LTD	BUILDI B.	N. CONSULTA	UTHORIT NCY PVT.	Y (P) LTD IN JO LTD AND PLUS D, KATHMAND	SENGINE	ERS &
	hirevet	R		di	¥		* Biratna	8	/
Che	ecked By gineer Co	Submitted By ontract Manage bindra Kr. Thak			y Surveyor/CSE Ial/Rajan Shres	stha		Approved Team Lea Giresh Ch	der



	November	Sub-base		Remarks								BUILDING DESIGN AUTHORITY (P) LTD IN JOINT VENTURE WITH B.N. CONSULTANCY PVT. LTD AND PLUS ENGINEERS & ARCHITECTS (P) LTD, KATHMANDU, NEPAL	/	By ar nd
				CBR%	47.00				>30			ITH B.N.	06	Approved By Team Leader Giresh Chand
	Month: Vear	Type of Material		PI%	1.11				9>			JRE W	000	Appu
	Mo	Tyr	-	OMC	5.80							VENTI TS (P)		
				MDD	2.225						Consultant	JOINT	- 13	
				0.075	6.50				4~15	6	Cons	A REAL	*	
			/eight	1.18	16.28				65-95 50-85 40-75 30-60 20-45 15-37 4-15	(1) (P)	ľ	Y (D) E	Biratnagar	stha
City tT-02			% By W	2.36	36.94				20-45	Inul		HORIT	1111	r/CSE n Shre
itan B/BF Test Re			Sieve Size in mm / passing % By Weight	5.0	43.51				3060		1	N AUTI	40	Verified By Expert Qty Surveyor/CSE H.K. Mandal/Rajan Shrestha
OP/IC PP/IC			1 mm / b	10.0	57.90				40~75			D AND	d.g.p	Verified By pert Qty Surve K. Mandal/Ra
Metr RUI of Mo			s Size in	20.0	69.39				50~85			DING J	0	Ve Expert H.K. I
gar I t No:-		4	Sieve	37.5	87.97				65-95			BUIL		
Biratnagar Metropolitan City Contract No:- RUDP/ICB/BRT-02 Summary Sheet of Monthly Test Report		-R-7		63.0	100				100					er ur
Coi Bir		Location :-R-74		Date of Lesting	16-Nov-19				Spec. Limit :			RNATIONAL	Ra	Sulfmitted By Contract Manager Rabindra Kr. Thakur
		-		Source of Sample	Chisang Khola						actor	ZHONGHENG CONSTRUCTION GROUP INTERNATIONAL		. S Cor Rabi
			Location of		R-74,(0+050) (•					Contractor	CONSTRUCTION GROUP		
			T at D for	Lab.Ket no.	RUDP-SB-01							ZHONGHENG	historica .	Encked By Engineer Dhirendra yadav
			-0	Sn.	-								ġ	Dhire



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					f Field Density		Month	Ne	ovember
			La	ation:-F	74		Year		2019
				Moistu	re content %		ype of Material (gm/cc)	Com	ub-Base paction %
Sn.	Lab.Ref.no	Testing Date	Chainage	OMC%	Field MC%	Max.Dry density	Field Dry density,	Compac tion	Specified %
1	RUDP-SB-FD-1, R/S	18-Nov-19	0+020	5.80	5.32	2.225	2.133	95.88	95
2	RUDP-SB-FD-1, L/S		0+050	5.80	5.97	2.225	2.159	97.04	95
2	RUDP-SB-FD-1, R/S	18-Nov-19	0+070	5.80	5.49	2.225	2.151	96.66	95
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-									
-									
						nife-	-		
-						1022			
-			_		1				1
-									
	Contract	orzhonouche		_		Cons	ultant 10		
Г	ZHONGHENC CONSTR NTERNATIONAL ENGL	EUCTION GRO	UP LTD	BUILDI B.I	NG DESIGN AU N. CONSULTA ARCHITEC	NCY PVT, L	P) LTD IN JO FD AND PLUS KATHMAND	ENGINE	ERS &
	and VA	Λ	1	\ "X	<	10	Siratnagal		
11	gineer Co	Submitted By ontract Manage bindra Kr. Thaki		Verified B Export Qty H.K. Mand	y Surveyor/CSE Ial/Rajan Shres	tha		Approved Team Lea Giresh Ch	der



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Contract No:- RUDP/ICB/BRT-02 Summary Sheet of Monthly Test Report	. Vear	1 year Material		75 MDD OMC PI% CBR%	5.80 0.93 44.80	1.60		3				1.0		N. CO	/ Å H
	Month: Vear	- Naterial		MDD OMC	5.80	1.60					-30	00~		BUILDING DESIGN AUTHORITY (P) LTD NAOHNT VENTURE WITH B.N. CONSULTANCY PVT. LTD AND PLUS ENGINEERS & ARCHITECTS (P) LTD, KATHMANDU, NEPAL	Approved By Team Leader
				MDD	-		+				47	9		URE W	App
Contract No:- RUDP/ICB/BRT-02 Summary Sheet of Monthly Test Report														VENT CTS (P)	
Contract No:- RUDP/ICB/BRT-02 Summary Sheet of Monthly Test Report			ght	75	2.225	-							Consultant	HITE	
Contract No:- RUDP/ICB/BRT-02 Summary Sheet of Monthly Test Report			ght	0.075	6.52	6.46					4-15	CI-+	Cons	TD IN	* India
Contract No:- RUDP/ICB/BRT-02 Summary Sheet of Monthly Test Report			G	1.18	17.33	18.57					65-05 50-85 40-75 30-60 20-45 15-27 4-15	10-01		Y (P) L	A Biratnenser
Contract No:- RUDP/ICB/BR Summary Sheet of Monthly Test Re			% By W	2.36	26.54	29.40					20-45	CH-07		ENGIN	/CSE
Contract No:- RUDP/IC Summary Sheet of Monthly 1			assing 9	5.0	37.27	40.78					30-60	00-00		PLUS	By
Contract No:- RUD Summary Sheet of Mo			Sieve Size in mm / passing % By Weight	10.0	48.99	52.89		~~			40~75	C/- 04		D AND	Verified By Expert Qty Surveyor/CSE
Contract No:- Summary Sheet		R-4	Size in	20.0	66.27	69.23					50-85	CO- 00		JING D	Ve
Contract Summary		-: u	Sieve	37.5	87.47	88.36					20-29	01-00		BUILI	1.0
Cor	•	atio		63.0	100	100					100	007			5
		Location :-R-4	-	Date of Testing	13-Nov-19	13-Nov-19					Snec Limit - 100			ERNATIONAL	Submitted By Contract Manager
				Source of Sample	Chisang Khola	Chisang Khola							Contractor	ONSTRUCTION GROUP ENERNATIONAL ENGINEERING CO. LTB	
			Location of			R-4,90+200)							Contr	ZHONGHENG CONSTRUCTION GROUT	
				Lab.Ref no.	RUDP-SB-01	RUDP-SB-02								HONGHENG	M) Checked By Engineer

Monthly Progress Report

	REGIO	DNAL U					PROJ	ЕСТ	
		E C	ontract	gar Me No:- Ri	tropolitar UDP/ICB/B	City RT-02			
					f Field Density				
						F	Month		vember
	23 m. 1. 199		Lo	cation:-]	R-4	T	Year pe of Material		2019 ub-Base
					re content %		(gm/cc)		paction %
Sn.	Lab.Ref.no	Testing Date	Chainage	OMC%	Field MC%	Max.Dry	Field Dry	Compac	Specified
1	RUDP-SB-FD-1,R/S	16-Nov-19	0+040	5.80	5.24	density 2.225	density, 2.141	tion 96.23	% 95
2	RUDP-SB-FD-1, C/L		0+040	5.80	5.52	2.225	2.141	90.23	95
3	RUDP-SB-FD-1, R/S		0+150	5.80	5.17	2.225	2.168	97.43	95
4	RUDP-SB-FD-1, C/L	16-Nov-19	0+200	5.80	5.69	2.225	2.141	96.24	95
5	RUDP-SB-FD-1, R/S	16-Nov-19	0+240	5.80	5.26	2.225	2.139	96.01	95
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			1 73			6	NY IFILIO		
_	Contrac	TEBNATIONAL				Const	ultant		
			1				-nP	E	
	ZHONGHENG CONSTR NTERNATIONAL ENGI	UCTION GRO	UP	BUILDI	NG DESIGN AI	UTHORITY (P) LTD IN JO	INT VENT	URE WITH
1	NTERNATIONAL ENGE	VEERING CO.	LTD	D .1	N. CONSULTA ARCHITEC	CTS (P) LTD,			
		-	L. AL		Scotland In	10	9 + Riratnage	2	3
								/	
		4		`	0,			2	
N	1	Δ.	2	A.R.	X			4	
A					2				
	cked By gineer C	Submitted By ontract Manage	er	Verified B Expert Oty	Surveyor/CSE			Approved Team Lea	
		bindra Kr. Thak			al/Rajan Shres	tha		Giresh Ch	
			*						



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	November	Sub-base		Remarks									BUILDING DESIGN AUTHORIEY (PLEPTIN JOINE VENTURE WITH B.N. CONSULTANCY PVT. LTD AND PLUS ENGINEERS & ARCHTIECTS (P) LTD, KATHMANDU, NEPAL		de la la
				CBR%	48.20						>30		TH B.N ATHM	2 S	Team Leader Giresh Chand
_ 2	Month:	Type of Material		Pl%	0.92	0.57					9>		RE WI	26	Tear
	MOI	Typ		OMC	5.90								VENTU IS (P) I		
				MDD	2.224							1	OINE	Tel	
				0.075	6.63	6.59		T			4~15	Anity (PL	Consultant FDTN JOINT	8 * Biratnauet	
			sight	1.18	16.60	16.29		T				1 Eleg	(P) L1	1 × 8	tha
T-02			Sieve Size in mm / passing % By Weight	2.36	33.01	33.69					20-45		ORIENO		Expert Qty Surveyor/CSE H.K. Mandal/Rajan Shrestha
B/BR est Rej			ssing %	5.0	39.70	42.29					30~60		AUTH	2	rveyor/ Rajan
Contract No:- RUDP/ICB/BRT-02 Summary Sheet of Monthly Test Report			mm / pa	10.0	51.67	53.84			T		40~75		ESIGN AND I	0 + P	Oty Sui andal/
RUD of Mon			Size in	20.0	71.33	69.83					50~85		ING D	0 mf	Expert Qty Surveyor/CSE H.K. Mandal/Rajan Shr
Contract No:- RUDP/ICB/BRT-02 Summary Sheet of Monthly Test Report		-	Sieve	37.5	89.43	91.60					65~95 50~85 40~75 30~60 20~45 15~37		BUILD		
tract		-R-3(63.0	100	100		1			100	F			
Con		Location :-R-30		Date of Testing	5-Nov-19	5-Nov-19					Spec. Limit :		RNATIONAL	Subditted By	Contract Manager Rabindra Kr. Thakur
			-	Source of Sample	Chisang Khola	Chisang Khola						- And	ZHONGHENG CONSTRUCTION GROUP INTERNATIONAL ENGRALEMANG.CO.LTD	1	Col
			Location of		R-30,(0+200)	R-30,(0+300)						110-X1.41010	CONSTRUCTI		
				Lab.Ket no.	RUDP-SB-01	RUDP-SB-02							ZHONGHENG	M. W. A.	Engineer Dhirendra yadav
				Sn.	-	2							1	(10	Dhir

Monthly Progress Report

				ć."		E	Month Year		2019
			Loc	ation:-R	re content %		ype of Material		ib-Base
Sn.	Lab.Ref.no	Testing Date	Chainage			Max.Dry	y(gm/cc) Field Dry	Compac	Specified
Sil.	Lab.Rel.no	Testing Date	Chamage	OMC%	Field MC%	density	density,	tion	specified %
1	RUDP-SB-FD-1, R/S	10-Nov-19	0+150	5.90	6.11	2.224	2.176	97.83	95
2	RUDP-SB-FD-1, L/S		0+220	5.90	5.09	2.224	2.120	95.34	95
2	RUDP-SB-FD-1, R/S	10-Nov-19	0+330	5.90	5.69	2.224	2.152	96.75	95
			-						
-					1				_
				-17					
						200			
		-04				-65			
						-			
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									-
				10			CAN (P) L		
	Contrac	tor				Cons	ultant	(Sel	
I	ZHONGHENG CONSTR INTERNATIONAL ENGIN	NEERING OO.	DUP LTD	BUILDI B.I	NG DESIGN AI N. CONSULTA ARCHITEC	NCY PVT. L	P) LTD IN JO TD AND PLU KATHMANI * Birato	S ENGINE DU, NEPAL	ERS &
- and the second	hisenerter		•	d'a	8			0	
Eng		Submitted By ontract Manage abindra Kr. Thak			s y Surveyor/CSE dal/Rajan Shres	stha		Approved Team Lea Giresh Ch	der



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Location :-R-3,(T3 Trunk line)		37.5 20.0 10.0 5.0 2.36 1.18 0.075 MDD OMC PP%	88.34 69.11 50.91 40.16 33.00 15.81 6.58 2.232 6.20 1.43 43.20	1.00	65.53 48.67 38.97 29.62 16.24 6.89	18.76 6.87 2.228 6.45	10.78 1.29		*					100 65-95 50-85 40-75 30-60 20-45 15-37 4-15	0	Alberty 191,	Consultant	BUILDING DESIGN AUTHORITY (P) LTD IN JOINT VENTURE WITH B.N. CONSULTANCY PVT. LTD AND PLUS ENGINEERS & ARCHIVECTS (P) LTD, KATHMANDU, NEPAL	Bergeragar *		Verified By Approved By Expert Qty Surveyor/CSE Team Leader H.K. Mandal/Rajan Shrestha Giresh Chand
		37.5 20.0 10.0 5.0 2.36 1.18 0.075 MDD OMC	69.11 50.91 40.16 33.00 15.81 6.58 2.232 6.20 1.43	66.32 48.91 39.11 26.49 17.03 7.66 1.00	65.53 48.67 38.97 29.62 16.24 6.89	47.92 38.90 34.16 18.76 6.87 2.228 6.45 1.66	41.41 32.22 24.11 18.51 10.78 1.29		3/1 						0	Anority IPI	Consultant	N AUTHORITY (P) LTD IN JOINT VENTURE WI	Biratnagar *		
		37.5 20.0 10.0 5.0 2.36 1.18 0.075 MDD	69.11 50.91 40.16 33.00 15.81 6.58 2.232	66.32 48.91 39.11 26.49 17.03 7.66	65.53 48.67 38.97 29.62 16.24	47.92 38.90 34.16 18.76 6.87 2.228	41.41 32.22 24.11 18.51 10.78									though PIL	Consultant	N AUTHORITY (P) LTD IN 30 NH VENTUI	B Biratnagar *		1 By surveyor/CSE al/Rajan Shrestha
R-3,(T3 Trunk line)		37.5 20.0 10.0 5.0 2.36 1.18 0.075 MDD	69.11 50.91 40.16 33.00 15.81 6.58	66.32 48.91 39.11 26.49 17.03 7.66	65.53 48.67 38.97 29.62 16.24	47.92 38.90 34.16 18.76 6.87	41.41 32.22 24.11 18.51							10-75 30-60 20-45 15-37 4-15	CI-+ /C-CI C+-07 00-0C C/-0	though PIL	Consultant	N AUTHORITY (P) LTD IN JOINT V D PLUS ENGINEERS & ARCHITECT	A Biratnagar *		1 By surveyor/CSE al/Rajan Shrestha
R-3,(T3 Trunk line)		<i>37.5</i> 20.0 10.0 5.0 2.36 1.18 0.075	69.11 50.91 40.16 33.00 15.81 6.58	66.32 48.91 39.11 26.49 17.03 7.66	65.53 48.67 38.97 29.62 16.24	47.92 38.90 34.16 18.76 6.87	41.41 32.22 24.11 18.51							10-75 30-60 20-45 15-37 4-15	CT~+ / C~CT C+-07 00-0C C/-0	Thority (P1)	Consul	D PLUS ENGINEERS & ARCH	Biratnogar		1 By surveyor/CSE al/Rajan Shrestha
R-3,(T3 Trunk line)	Sieve Size in mm / passing % By Weight	37.5 20.0 10.0 5.0 2.36 1.18	69.11 50.91 40.16 33.00 15.81	66.32 48.91 39.11 26.49 17.03	65.53 48.67 38.97 29.62 16.24	47.92 38.90 34.16 18.76	41.41 32.22 24.11 18.51							10-75 30-60 20-45 15-37	1/0-01 06-07 00-00 01-0	though	- AND	D PLUS ENGINEERS &	a klina		I By surveyor/CSE al/Rajan Shrestha
R-3,(T3 Trunk line)	Sieve Size in mm / passing % By We	37.5 20.0 10.0 5.0 2.36	69.11 50.91 40.16 33.00	66.32 48.91 39.11 26.49	65.53 48.67 38.97 29.62	47.92 38.90 34.16	41.41 32.22 24.11							10~75 30~60 20~45 1	1 Ct-07 00-00 01-0		No.	N AUTHORITY	CINO .	4	i By 5urveyor/CSE al/Rajan Shres
R-3,(T3 Trunk line)	Sieve Size in mm / passing %	37.5 20.0 10.0 5.0	69.11 50.91 40.16	66.32 48.91 39.11	65.53 48.67 38.97	47.92 38.90	41.41 32.22							10~75 30~60	na-nelei-n			N AUTH		4	i By Surveyor/ al/Rajan
8-3,(T3 Trunk lir	Sieve Size in mm / pa	37.5 20.0 10.0	69.11 50.91	66.32 48.91	65.53 48.67	47.92	41.41							10~75	01-0			Z G		7	all all
R-3,(T3 Trui	Sieve Size in	37.5		66.32	65.53	64.26	6.60								r			ESIC		A	ified Oty : land
R-3,(T3	Sieve		88.34	7.08	10		2		A.					50-85				ING D		1 to 1	Ver Expert H.K. N
2-3		0		00	90.15	88.89	88.09							65-95	00-00			BUILD			
-		63.0	100	100	100	100	100							100	0.01						5 1
Location :		ŝ	2-Nov-19	2-Nov-19	2-Nov-19	2-Nov-19	3-Nov-19							Spec. Limit :				RNATIONAL		June .	t Mitte
		Sample	Chisang Khola	Chisang Khola	Chisang Khola	Chisang Khola	Chisang Khola										Calctornarinual	ON GROUP INTI NG CO. LTD	· · · ·		Co Rab
			-		R-3,(6+200)		R-3,(6+550)		~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~								Cont	CONSTRUCTI			
	T at Dafa	Lab.Net II0.	RUDP-SB-01	RUDP-SB-02	RUDP-SB-03	RUDP-SB-04	RUDP-SB-05											HONGHENG		hi yeverat	Cherlied By Engineer Dhirendra yadav
		Location of control of	4	Lab.Ref.no. Location of Sample Source of RUDP-SB-01 R-3,(5+700) Chisang	Lab.Ref no. Location of Sample Source of Source of RUDP-SB-01 R-3,(5+700) Chisang RUDP-SB-02 R-3,(6+100) Chisang	Lab.Ref no. Location of Sample Source of Source of RUDP-SB-01 R.3.(5+700) Chisang RUDP-SB-02 R-3.(6+100) Chisang RUDP-SB-03 R-3.(6+200) Chisang	Lab.Ref no.Location of SampleSource of Source of SampleRUDP-SB-01R-3,(5+700)Chisang RUDP-SB-02R-3,(6+100)RUDP-SB-03R-3,(6+200)Chisang RUDP-SB-04R-3,(6+400)	Lab.Ref no. Location of Sample Source of Source of Sample RUDP-SB-01 R-3,(5+700) Chisang Chisang RUDP-SB-02 R-3,(6+100) Chisang Chisang RUDP-SB-03 R-3,(6+200) Chisang RUDP-SB-04 R-3,(6+550) Chisang RUDP-SB-05 R-3,(6+550) Chisang	Lab.Ref no.Location of SampleSource of Source of SampleRUDP-SB-01R-3,(5+700)Chisang RUDP-SB-02R-3,(6+100)RUDP-SB-03R-3,(6+200)Chisang RUDP-SB-04R-3,(6+400)RUDP-SB-04R-3,(6+400)Chisang RUDP-SB-05R-3,(6+550)	Lab.Ref no.Location of SampleSource of Source of SampleRUDP-SB-01R-3,(5+700)Chisang RUDP-SB-02R-3,(6+100)RUDP-SB-03R-3,(6+200)Chisang RUDP-SB-04R-3,(6+550)RUDP-SB-04R-3,(6+550)Chisang RUDP-SB-05R-3,(6+550)	Lab.Ref no. Location of Sample Source of Sample RUDP-SB-01 R-3,(5+700) Chisang RUDP-SB-02 RUDP-SB-03 R-3,(6+100) Chisang RUDP-SB-03 RUDP-SB-04 R-3,(6+200) Chisang RUDP-SB-05 RUDP-SB-05 R-3,(6+550) Chisang	Lab.Ref no. Location of Sample Source of Sample RUDP-SB-01 R-3,(5+700) Chisang RUDP-SB-02 R-3,(6+100) Chisang RUDP-SB-03 R-3,(6+100) Chisang RUDP-SB-04 R-3,(6+100) Chisang RUDP-SB-05 R-3,(6+100) Chisang RUDP-SB-06 R-3,(6+100) Chisang	Lab.Ref no.Location of SampleSource of Source of SampleRUDP-SB-01R-3,(5+700)Chisang RUDP-SB-02R-3,(6+100)Chisang RUDP-SB-03RUDP-SB-03R-3,(6+200)Chisang RUDP-SB-05R-3,(6+550)Chisang RUDP-SB-05RUDP-SB-05R-3,(6+550)Chisang RUDP-SB-05R-3,(6+550)Chisang RUDP-SB-05	Lab.Ref no. Location of Sample Source of Sample RUDP-SB-01 R-3,(5+700) Chisang Chisang RUDP-SB-03 R-3,(6+100) Chisang RUDP-SB-04 R-3,(6+200) Chisang RUDP-SB-05 R-3,(6+550) Chisang RUDP-SB-05 R-3,(6+550) Chisang RUDP-SB-05 R-3,(6+550) Chisang RUDP-SB-05 R-3,(6+550) Chisang	Lab.Ref no. Location of Sample Source of Sample RUDP-SB-01 R-3/(5+700) Chisang RUDP-SB-02 R-3/(6+100) Chisang RUDP-SB-03 R-3/(6+250) Chisang RUDP-SB-04 R-3/(6+550) Chisang RUDP-SB-05 R-3/(6+550) Chisang RUDP-SB-06 R-3/(6+550) Chisang RUDP-SB-07 R-3/(6+550) Chisang	Lab.Ref no. Location of Sample Source of Sample RUDP-SB-01 R-3/(5+700) Chisang RUDP-SB-02 R-3/(6+100) Chisang RUDP-SB-03 R-3/(6+200) Chisang RUDP-SB-04 R-3/(6+550) Chisang RUDP-SB-05 R-3/(6+550) Chisang RUDP-SB-06 R-3/(6+550) Chisang	Lab.Ref no.Location of SampleSource of Source of SampleRUDP-SB-01R-3,(5+700)Chisang RUDP-SB-01R.3,(6+100)RUDP-SB-03R-3,(6+200)Chisang RUDP-SB-05R-3,(6+400)RUDP-SB-05R-3,(6+550)Chisang (6+400)RUDP-SB-05R-3,(6+550)Chisang (6+400)RUDP-SB-05R-3,(6+550)Chisang (6+400)RUDP-SB-05R-3,(6+550)Chisang (6+400)RUDP-SB-05R-3,(6+550)Chisang (6+400)	Lab.Ref no. Location of Sample Source of Sample RUDP-SB-01 R-3,(5+700) Chisang Chisang RUDP-SB-03 RUDP-SB-03 R-3,(6+100) Chisang Chisang RUDP-SB-05 RUDP-SB-04 R-3,(6+550) Chisang Chisang RUDP-SB-05 R-3,(6+550) Chisang RUDP-SB-05 R-3,(6+550) Chisang RUDP-SB-05 R-3,(6+550) Chisang	Lab.Ref no. Location of Sample Source of Sample RUDP-SB-01 R-3(5+700) Chisang Khola RUDP-SB-03 R-3(6+100) Chisang Khola RUDP-SB-03 R-3(6+550) Chisang Khola RUDP-SB-04 R-3(6+550) Chisang Khola RUDP-SB-05 R-3(6+550) Chisang Khola RUDP-SB-06 R-3(6+550) Chisang Khola RUDP-SB-07 R-3(6+550) Chisang Khola RUDP-SB-06 R-3,(6+550) Chisang Khola RUDP-SB-07 R-3,(6+550) Chisang Khola RUDP-SB-06 R-3,(6+550) Chisang Khola RUDP-SB-07 R-3,(6+50) Chisang Khola RUDP-SB-07 R-3,(6+50) Chisang Khola RUDP-SB-07 R-3,(6+50) Chisang Khola RUDP-SB-07 R-	Lab.Ref no. Location of Sample Source of Sample RUDP-SB-01 R-3,(5+700) Chisang RUDP-SB-02 R-3,(6+100) Chisang RUDP-SB-03 R-3,(6+200) Chisang RUDP-SB-03 R-3,(6+550) Chisang RUDP-SB-05 R-3,(6+550) Chisang<	



Monthly Progress Report

	· REGIC				VELOP tropolitan		T PROJ	ECT	
		(Contract	No:- RI	UDP/ICB/B	RT-02			
			Summar	y Sheet of	f Field Density	Test	Month	'N	ovember
							Year	14	2019
		Loo	cation:-I		Trunk line)		Type of Material	s	ub-Base
				Moistu	re content %		sity(gm/cc)	10.000	paction %
Sn.	Lab.Ref.no	Testing Date	Chainage	OMC%	Field MC%	Max.Dr		Compac	
1	RUDP-SB-FD-1,L/S	7-Nov-19	5+650	6.20	5.01	density 2.232	density, 2.154	tion 96.50	% 95
2	RUDP-SB-FD-1, C/L	7-Nov-19	5+700	6.20	5.33	2.232	2.134	97.89	95
3	RUDP-SB-FD-1, R/S	7-Nov-19	5+850	6.20	6.72	2.232	2.190	98.12	95
4	RUDP-SB-FD-1, L/S	7-Nov-19	6+090	6.20	5.84	2.232	2.182	97.75	95
5	RUDP-SB-FD-1, R/S	7-Nov-19	6+150	6.20	5.31	2.232	2.167	97.11	95
6	RUDP-SB-FD-1, R/S	7-Nov-19	6+200	6.20	5.27	2.232	2.174	97.41	95
7	RUDP-SB-FD-1, L/S	7-Nov-19	6+250	6.20	5.58	2.232	2.174	96.47	95
8	RUDP-SB-FD-1, R/S	7-Nov-19	6+300	6.20	5.01	2.232	2.204	98.76	·95
9	RUDP-SB-FD-1, L/S	7-Nov-19	6+350	6.20	6.58	2.232	2.131	95.48	95
0	RUDP-SB-FD-2, L/S	7-Nov-19	6+400	6.45	5.62	2.228	2.194	98.47	95
1	RUDP-SB-FD-2, C/L	7-Nov-19	6+450	6.45	6.03	2.228	2.145	96.29	95
2	RUDP-SB-FD-2, R/S	7-Nov-19	6+490	6.45	6.16	2.228	2.160	96.94	95
13	RUDP-SB-FD-2, C/L	7-Nov-19	6+540	6.45	6.33	2.228	2.170	97.41	95
14	RUDP-SB-FD-2, R/S	7-Nov-19	6+580	6.45	5.96	2.228	2.163	97.06	95
15	RUDP-SB-FD-2,C/L	7-Nov-19	6+600	6.45	5.20	2.228	2.145	96.28	95
6	RUDP-SB-FD-2, L/S	7-Nov-19	6+630	6.45	6.78	2.228	2.172	97.93	95
+									
I	ZHONGHENG CONSTR NTERNATIONAL ENGIN	RUCTION GRO		BUILDI B.I	N. CONSULTA	UTHORIT NCY PVT.	nsultant Y (P) LTD IN JO LTD AND PLUS D, KÁTHMAND	ENGINE	ERS &
2	Ched By	Submitted By	•	Verified E	&J	a contraction	P + Biratnagar*	2	d By
Eng	gineer C	ontract Manage		Export Qty	Surveyor/CSE Ial/Rajan Shres	tha		Approve Team Lea Giresh Ch	ader



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November	2019	Jun-Day	Remarks									BUILDING DESIGN AUTHORATY (P) LTD IN JOINE VENTURE WITH B.N. CONSULTANCY PVT. LTD AND PLUS ENGINEERS & ABCHTREETS (P) LTD, KATHMANDU, NEPAL		/.	
			OMC PI% CBR%	40.00						>30		TH B.N. ATHMA	0	6	Approved By Team Leader Giresh Chand
Month:	ar e of	rial	%Id	1.30						9		RE WI JD, K		6	Appr Tear Gires
Mor	Year Type of	Material		5.35								VENTU TS (P) L			
			MDD	2.223							ultant	JOINT	AX.		
			0.075	7.04						4~15	Consultant	ABC STDIN	*.	liratna	
		eight	1.18	15.73						15~37		Y (P) L	1	*)	stha
되		Bv W	2.36	32.70						20-45	X	ORIT	ini		CSE Shres
t Repo		ssine %	5.0	43.63					11	09~0		AUTH LUS E		, .	y veyor/ Rajan
ly Tes		nm/pa	10.0	56.11		11				0-75 3		SIGN AND I	C	Xillin	Vernied By Expert Qty Surveyor/CSE H.K. Mandal/Rajan Shrestha
Month		ize in r	20.0	67.03	T					0~85 4		NG DE		4.6	pert C K. Ma
Summary Sheet of Monthly Test Report	500	Sieve Size in mm / passine % Bv Weight	37.5	88.17						5-95 51		TVT		1	άH
Summary Sheet of Monthly Test Report	121		63.0	100	+					00 6	H			-	
Summ			-							mit : 1		T			usy nager Fhakur
	I ocation . T2I 12C	Toran	Date of Testing	13-Nov-19						Spec. Limit : 100 65-95 50-85 40-75 30-60 20-45 15-37 4-15		NATION	<	M	Contract Manager Rabindra Kr. Thakur
		1	mple	iola	1					H		NTER		10	Con Rabi
			Source of Sample	Chisang Khola							1	NOT NOT			
		-	Sou								HT-Beld	NON C	CROUP INTERNATI		
		I anation of	Sample	T3L13C,(0+070)							Colline .	ENGINEE	TERNATION		
			Lab.Ref no.	RUDP-SB-01								ZHONGHENG CONSTRUCTION GROUP INTERNATIONAL	Y	Millenon	Engineer Dhirendra yadav
			Sn.	-										0/3	En



Monthly Progress Report

November, 2019

							Month		vember
			Locat	tion:-T3	LISC		Year Type of Material		2019 b-Base
			Locar	Moistur	re content %	Dens	sity(gm/cc)		action %
Sn.	Lab.Ref.no	Testing Date	Chainage	OMON	Field MC%	Max.Dr		Compac	Specified
_				ONC%	Field MC%	density		tion	%
1	RUDP-SB-FD-1, R/S		0+040	5.35	5.61	2.223		95.87	95
2	RUDP-SB-FD-1, L/S	and the second se	0+080	5.35	5.15	2.223		96.87	95
2	RUDP-SB-FD-1, R/S	18-Nov-19	0+110	5.35	5.44	2.223	2.128	95.72	95
_			-						
						12312			
					2				
-				11					-
					20.8				
						4.4			-
-						5			
_						in and			
-			-						1. 200
					1				
	C - -								
I	ZHONGHENG CONSTR NTERNATIONAL ENGLI	UCTION GRO NEERING CO.	UP LTD	BUILDI B.!	N. CONSULTAI	THORIT	nsultant Y (P) LTD IN JO LTD AND PLUS D, KATHMAND RUDY	ENGINEE	RS &
	hitenals Ked By jineer C	Submitted By		d . K Verified B		Culture Contraction	* Biratnagal *	Approved	
		bindra Kr. Thak			Surveyor/CSE Ial/Rajan Shres	tha		Team Lead Giresh Cha	



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			•	•	Kemarks		T									BUILDING DESIGN AUTHORITY (P) LTD IN JOINT VENTURE WITH B.N. CONSULTANCY PVT. JTD AND PLUS ENGINEERS & ARCHITECTS (P) LTD, KATHMANDUENEPAL		A La La	·
	November	2019	Base	CBR	%	83.00								>80		NTUR & ARC		Approved By Team Leader	
	Z				č	83.86								>80		NT VE CERS (L	00	Api	5
				_	%	19.85				4.				<35		N JOIL VGINE			
	Month	ar	Type of Material		FI and EI %	19.33/16.16								< 35	ultant	BUILDING DESIGN AUTHORITY (P) LTD IN JOINT VENTURE WITH N. CONSULTANCY PVT.J.TD AND PLUS ENGINEERS & ARCHITECT (P) LTD, KATHMANDUCNEPAL	A lenner of		
	Mo	Year	Type of !	LAA.	%	32.28								< 45	Consultant	AND) all all all all all all all all all al	plia	
	Ш			1	C PI%	S NP	_		_							TD, K	uning		
			4		D UMC	7 5.35		+	-	-	+	-	_	H		NAU VPVT (P)L	- · ·	CSE.	LCSUIR
					S MUU	2.247	_		-			-				ESIG	Q.	I By veyor/	inc mp[
tu					0.075	7.66						_		8 2-10		NG D	4-14	Verified By t Qty Surveyo	Idal/Ina
Biratnagar Metropolitan City Contract No: RUDP/ICB/BRT-02 mmary Sheet of Monthly Test Ren				eight	0.6	16.35								12-28		CON	-6	Verified By Export Qty Surveyor/CSE, U.V. Mondol/Boing Schootho	V. Mai
olitan CB/B				Sieve Size in mm / % passing By Weight	2.36	30.54								40-70 26-55 21-53		BI B.N.		ш п	đ
etrop UDP/I			-74	% passi	4.75	40.87								26-55		CO.			
ar M No: RI			1:-R	in mm /	10	54.76										SUNG		Sulmitted By Contract Manager	
tract bury Sh			tion	eve Size	20	65.85								62-92		INEEI	X	Sulmitted By ontract Manage	
Biratnagar Metropolitan City Contract No: RUDP/ICB/BRT-02 Summary Sheet of Monthly Test Renort		•	Location:-R-74	Si	31.5	86.68								85-100		ENG		Sul	
			-		40	100								100		INAL		•	
				Date of	Testing	20-Nov-19								Spee. Limit : 100 85-100 62-92		ERNATIO			
Biratnagar Metropolitan City Contract No: RUDP/ICB/BRT-02 Summary Sheet of Monthly Test Renort					Source of Sample	Chisang Khola				1 AL				S	Contractor	ON GROUP INTI			
				Location of	Sample	R-74,(0+040)										ZHONGHENG CONSTRUCTION GROUP INTERNATIONAL ENGINEERING CO.	-MO	Enecked By Engineer	Jia yauav
					Lab.Kef no.	RUDP-B-01				T						VGHEN	MO	Eng	
					S.N. Lab.	RUD										OH			



Monthly Progress Report

				ct No:-]	RUDP/ICB/	RRT_02			
				Cl					
			Summ	ary Sneet	t of Field Densit	ty Test	Month	Nove	mber
							Year	20	
					ation:-R-74		ype of Material (gm/cc)	Ba	ise
Sn.	Lab.Ref.no	Testing Date	Chainage	OMC%	Field MC%	Max.Dry density	Field Dry density,	Compaction % .	Specified %
1 R	UDP-B-FD-1, R/S	13-Nov-19	0+020	5.35	5.08	2.247	2.240	99.69	98
	UDP-B-FD-1, C/L	13-Nov-19	0+050	5.35	5.85	2.247	2.225	99.03	98
3 R	UDP-B-FD-1, L/S	13-Nov-19	0+070	5.35	6.54	2.247	2.221	98.84	98
				-					* 5
	- Andrews								
			•						
		- 3							
						.*			••
1	Contrac	tor				Co	nsultant		
	IONGHENG CONST ERNATIONAL ENGI				NG DESIGN AU TANCY PVT. L'	TD AND PLU		RS & ARCHITE	
y.	hirends?	Submitte	d By	4	A. ified By	THE WE	liratna9a1*	Approved B	
	Engineer hirendra yadav	Contract M Rabindra Kr	anager	Expert Qty	Surveyor/CSE dal/Rajan Shrest	tha		Team Leader Giresh Chan	P 6 -



				Kemarks					Å					BUILDING DESIGN AUTHORITY (P) LTD IN JOINT VENTURE WITH B.N. CONSULTANCY PUT, LTD AND PLUS ENGINEERS & ARCHITECTS (P) LTD, KATHMANDU, NEPAL	By/ Iden	
	November 2019	Base	CBR	%	82.00							>80		NTUR & ARC	Approved By Team Leader Giresh Chand	
	Z			čč	81.88							>80		VT VE JERS d	Api	
				%	22.68							<35		N JOIN VGINE NEPAI		1.11
	4 -	aterial	the second se	FI and EI %	22.36/17.48							< 35	tant	VAUTHORITY, P. LTD IN JOIN PCT, LTD AND PLUS ENGINEE (P) VTD, KATHMANDU, NEPAL	E Birannan + +	
	Month Year	Type of Material	_	%	30.30	Ħ			T	Ħ		< 45	Consultant	AND	Liatmas	10-3
			1010	P1%	ЧN									HORI LTD	2)*	
			10	OMC	8 5.23		_		+			_		PVT D	SE culture De	
				CICIM S	2.248		-					_		ESIGN	By veyor/	
tro				0.075	7.19		_		-			8 2-10		NG DI	Verified By Verified By t Qty Surveyo	
n City RT-02		-	Veight	0.6	t 15.99		_					3 12-28		CON	Verified By Verified By Export Qty Surveyor/CSE H.K. Mandal/Rajan Shrestha	
olita ICB/B		ront	ing By V	2.36	7 29.64		_		-			26-55 21-53		BI B.N.	H H	_
Biratnagar Metropolitan City Contract No: RUDP/ICB/BRT-02 Summory Shoot of Monthly Test Benort		UF	Sieve Size in mm / % passing By Weight	4.75	41.67						_) 26-5		.00	. 5	
gar M No: B		7,PI	te in mm	10	52.53							40-70		RING	Supmitted By Contract Manager Rabindra Kr. Thakur	
atnag		-R-	Sieve Siz	20	68.28							62-92		SINEE	Submitted By ontract Manage	
Bin		Location:-R-7,PIU Front)		31.5	89.14							100 85-100 62-92		L ENC	S . Rab	
		.0ca		40	100		+		-					IONA		
		Ι	Date of	Testing	9-Nov-19						-	pec. Limit :		ERNAT		
			-1	source of sample	Chisang Khola							S	ONGREE Contractor	IN GROUP INT		
			Location of	Sample	R-7,PIU Front (0+050)								COLOR * ZHONG	ZHONGHENG CONSTRUCTION GROUP INTERNATIONAL ENGINEERING CO.	Checker By Checker By Engineer	
				-	RUDP-B-01									NGHEN	Eng	1
			T-LT		RUD									OH	4	



	REGI	ONAL	Biratn	agar N	EVELOI letropolita RUDP/ICB/	n City	NT PRO	JECT	
					t of Field Densi				
							Month		mber
			Locatio	n:-R-7.(PIII Front)		Year Type of Material		19 ase
			Louino	Moistu	PIU Front) re content %	Dens	sity(gm/cc)		ction %
Sn.	Lab.Ref.no	Testing Date	Chainage	OMC%	Field MC%	Max.Dr density		Compaction %	Specified %
1	RUDP-B-FD-1, R/S	10-Nov-19	0+040	5.23	5.87	2.248		99.24	98
2	RUDP-B-FD-1, C/L	10-Nov-19	0+070	5.23	5.85	2.248		99.09	98
3	RUDP-B-FD-1, L/S	10-Nov-19	0+090	5.23	5.87	2.248	2.219	98.73	98
4	RUDP-B-FD-1, C/L	10-Nov-19	0+110	5.23	5.34	2.248	2.219	98.71	98
									·
_			•						
-									
						1.50	- Dr.		0.00
	Contrac	ctor	-			5/ 0	Consultant		
1	ZHONGHENG CONST INTERNATIONAL ENGI	RUCTION GRO	DUP LTD	BUILDI CONSUL	NG DESIGN AT TANCY PVT. E	TD AND P	Y (P) LTD IN JO LUS ENGENEEI MANDU, NEPAI	RS & ARCHITH	E WITH B.N. ECTS (P) LTI
	Checked By Engineer Dhirendra yadav	Supmitte Contract M Rabindra Kr	anager	Expert Qty	rified By Surveyor/CSE dal/Rajan Shres		atnaßa	Approved B Team Leader Giresh Chan	r



Page 83 of 128

					Remarks																BUILDING DESIGN AUTHORITY (P) LTDAN JOINT VENTURE WITH B.N. CONSULTANCY PVT. LTD AND PEUS ENGINEERS & ARCHITECTS (P) LTD, KATHMANDU, NEPAL	/ A 1	p
		November 2019	Base	CBD	%	87.90	-	82.60	1	+	t	85.00		83.60			Ħ	>80			ARC	Approved By Team Leader	Giresh Chand
		ž			CR	81.07	81.68	82.36	83.49	83.50	82.64	84.33	81.45	85.44	82.26	84.15		>80			T VEI ERS &	App Tea	Gire
				ATV	%	20.02	19.38	19.57	20.08	18.70	19 14	19.82	19.15	20.99	20.48	18.42		< 35			JOIN GINE EPAL		
			-	-	Fl and El %	23.39/17.43			-	17.19/13.39	_		22.47/17.09	20.27/18.19	19.53/17.13	20.04/18.75		< 35		2	S ENN		
		Month 'Year	Type of Material																1	sultan	(P) L' D PEL	LieBeu	
		e :	. Type	TA	% %	NP 31.76	NP 30.76	NP 31.80	NP 33.10	NP 33.60			P 32.96	P 31.80	NP 32.76	P 31.80		< 45		Consultant	B AN CATH	* Biratnagar	
	L	-			OMC PI%	5.10 N	Z	5.60 N	z	ZZ		5.40 NP	NP	5.65 NP	Z	NP	+	+		1	N ADTHORITY (P) LTD IN JOIN (PVT.LTD AND PEUS ENGINE) (P) LTD, KATHMANDU, NEPAL	87	
n)			- 55		MDD	2.247 5		2.243 5	+		t	2.248 5		2.245 5				Η			CY PV (P)	or/CSE	Shresth
EGIONAL URBAN DEVELOPMENT PROJECT Biratnagar Metropolitan City				F	0.075	7.23 2	5.62		7.36	6.50 ¢ 0.2	4.98	-	4.89	6.80 2	8.77	4.35		2-10			DESI	Verified By Export Oty Surveyor/CSE	H.K. Mandal/Rajan Shrestha
EN	- <u>U2</u> keport				0.6 0	16.97	21.14	-	-	19.98	+	-	15.47 4	21.51 0	18.64	13.22 4	\square				DING	Verified B	fandal/
tan C	Test F			by Weigh	2.36	32.80	34.83 2	_	-	30.64	+	-	28.47 1	39.58 2	36.91 1	34.18 1.		-53 1			BUIL N. CC	Expo	H.K.N
Biratnagar Metropolitan City	Contract No: KUDP/ICB/BK1-02 Summary Sheet of Monthly Test Report			Sieve Size in mm / % passing By Weight	4.75	42.54 3	45.01 3		-	41.05 3		_	35.39 2	46.52 3	45.68 3	45.75 3		40-70 26-55 21-53 12-28	ł	-			
Meth	t of Mo		Location:-R-2	1 % / mm	10	54.29 4	56.33 4		-	54.57 4	-	-	62.92 3	55.20 4	54.65 4	56.10 4	\square)-70 20			NG CC	y ger	akur
nagar	Sheet		tion:	Size in 1	20	68.31 5-	72.08 50	\rightarrow	-	76 70 6	-	+	72.90 62	64.24 5:	65.11 5-	64.17 50	+	-92 40			EERIN	Submitted By	Kr.Th
Birati	nmary		ocal	Sieve	31.5	88.87 68	89.83 72	-	-	1 20.19	-	-	93.01 72	90.26 64	89.37 65	91.22 64	$\left \right $	100 62			NGIN	Submitted By Contract Manager	Rabindra Kr.Thakur
	Sur		T		40 3	100 88	100 89	_	_	100 91	_	-	100 93	100 90	100 89	100 91	\mathbb{H}	00 85-			AL E	Ŭ	∝
ANIC				of	-			-	-	-	+	-		-	-	-	Ħ	mit: 1			VOIL		
197				Date of	Testing	1-Nov-19	1-Nov-19	1-Nov-19	1-Nov-19	2-Nov-19	2-Nov-19	J3-Nov-19	13-Nov-19	13-Nov-19	13-Nov-19	13-Nov-19		Spec. Limit : 100 85-100 62-92			ERNATIONAL ENGINEERING CO.		-
K					Source of Sample	Chisang Khola	Chisang Khola	Chisang Khola	Chisang Khola	Chicang Khola	Chisang Khola	Chisang Khola	Chisang Khola	Chisang Khola	Chisang Khola	Chisang Khola		07		Contractor	ZHONGHENG CONSTRUCTION GROUP INT LTD		
			•	Location of	Sample	R-2,(0+800)	R-2,(0+900)	R-2,(1+000)	R-2,(1+250)	R-2,(1+400) R-2 (1+600)	R-2.(1+700)	R-2,(2+050)	R-2,(2+200)	R-2,(2+300)	R-2,(2+400)	R-2,(2+500)					CONSTRUCT	Chrecked By Engineer	a yadav
					Lab.Ref.no.	RUDP-B-01	RUDP-B-02	RUDP-B-03	RUDP-B-04	CU-8-400X	RUDP-B-07	RUDP-B-08	RUDP-B-09	RUDP-B-10	RUDP-B-11	RUDP-B-12					HONGHENC	Enecked By Engineer	Dhirendra yadav
					S.N.	1	2	-	4 1	-	-	8	6	10	11	12		11			IZ		

	REGI	IUNAL			EVELOI Ietropolita		I PRO.	JECI	
					RUDP/ICB/				
			Sumn	nary Shee	t of Field Densi	ty Test			
						F	Month		mber
				Locatio	n:-R-2		Year Type of Material		19 ise
	2.520				re content %		ity(gm/cc)	Compa	
Sn.	Lab.Ref.no	Testing Date	Chainage	e OMC%	Field MC%	Max.Dry density		Compaction %	Specified %
1	RUDP-B-FD-1, L/S	4-Nov-19	0+800	5.10	5.32	2.247	2.206	98.19	98
2	RUDP-B-FD-1, C/L	4-Nov-19	0+830	5.10	5.89	2.247	2.228	99.17	98
3	RUDP-B-FD-1, L/S	4-Nov-19	0+860	5.10	5.83	2.247	2.233	99.38	98
4	RUDP-B-FD-1, C/L	4-Nov-19	0+890	5.10	5.44	2.247	2.221	98.82	98
5	RUDP-B-FD-1, L/S	4-Nov-19	0+920	5.10	4.87	2.247	2.230	99.24	. 98
6	RUDP-B-FD-1, R/S	4-Nov-19	0+950	5.10	5.99	2.247	2.214	98.54	98
7 8	RUDP-B-FD-1, C/L	4-Nov-19	0+980	5.10	5.82	2.247	2.246	99.97	98
8	RUDP-B-FD-1, L/S RUDP-B-FD-1, R/S	4-Nov-19	1+020	5.60	5.76	2.243	2.211	98.57	98
10	RUDP-B-FD-1, R/S	4-Nov-19 4-Nov-19	1+100 1+150	5.60	5.19 5.59	2.243	2.233	99.55	98
11	RUDP-B-FD-2, C/L	4-Nov-19	1+130	5.60	5.07	2.243	2.211	98.55	98
12	RUDP-B-FD-2, C/L	4-Nov-19	1+200	5.60	5.23	2.243	2.209	98.47 99.60	98 98
13	RUDP-B-FD-2, C/L	4-Nov-19	1+300	5.60	5.81	2.243	2.234	99.00	98
14	RUDP-B-FD-2, L/S	4-Nov-19	1+340	5.60	5.80	2.243	2.212	98.63	98
15	RUDP-B-FD-2, C/L	4-Nov-19	1+400	5.60	5.47	2.243	2.232	99.52	98
16	RUDP-B-FD-2, R/S	4-Nov-19	1+450	5.60	5.60	2.243	2.225	99.20	98
17	RUDP-B-FD-2, C/L	4-Nov-19	1+500	5.60	5.96	2.243	2.205	98.30	98
18	RUDP-B-FD-2, R/S	4-Nov-19	1+590	5.60	4.90	2.243	2.234	99.61	98
19	RUDP-B-FD-3, L/S	15-Nov-19	2+050	5.40	5.78	2.248	2.248	99.99	98
20	RUDP-B-FD-3, R/S	15-Nov-19	2+080	5.40	5.37	2.248	2.225	98.56	98
21	RUDP-B-FD-3, L/S	15-Nov-19	2+120	5.40	5.36	2.248	2.225	98.96	98
22	RUDP-B-FD-3, C/L	15-Nov-19	2+150	5.40	5.94	2.248	2.240	99.63	98
23	RUDP-B-FD-3, L/S	15-Nov-19	2+180	5.40	6.45	2.248	2.240	99.66	98
24	RUDP-B-FD-3, R/S	15-Nov-19	2+210	5.40	5.57	2.248	2.238	99,54	98
25	RUDP-B-FD-3, C/L	15-Nov-19	2+250	5.40	5.32	2.248	2.218	98.68	98
26 27	RUDP-B-FD-3, L/S	15-Nov-19	2+290	5.40	6.06	2.248	2.241	99.68	98
61	RUDP-B-FD-3, R/S	15-Nov-19	• 2+320	5.65	6.93	2.245	2.239	99.72	98
	Contrac	tor	-			C	onsultant	10	
	on signing	GROUP INTERNATIO			1.15	1	6/	121	
	ZHONGHENG CONST INTERNATIONAL ENGI	RUCTION GRO	DUP LTD	BUILDI CONSUL	NG DESIGN AU FANCY PVT. L7	FD AND PL	(P) LTD IN JO JUS ENGINEER IANDU, NEPAL	S & ARCHITE	WITH B.N. CTS (P) LTI
	Charlest By			N.	24		Biratnag	X	_
	Engineer Dhirendra yadav	Contract Ma Rabindra Kr.	anager	Expert Qty	Surveyor/CSE al/Rajan Shrest	ha	Course of	Approved By Team Leader Giresh Chano	
	ZHONGHENG CONST INTERNATIONAL ENGI INTERNATIONAL ENGI Engineer	Submittee Contract Ma	LTD d By anager	CONSUL Ver Expert Qty	ified By Surveyor/CSE	THORITY ID AND PL KATHM	US ENGINEER IANDU, NEPAL	Approved By Team Leader	CTS (



			Contra	ict No:-	Aetropolita RUDP/ICB/	BRT-02			
			Sumn	nary Shee	t of Field Densi	ity Test			
						-	Month Year		mber 19
_				Locatio			Type of Material	Bi	
C.	, Lak Dafaa	Turin Da			re content %		ity(gm/cc)		ction %
Sn.	Lab.Ref.no	Testing Date	Chainage	OMC%	Field MC%	Max.Dry		Compaction	
28	RUDP-B-FD-4, L/S	15-Nov-19	2+350	5.65	4.75	density 2.245	density, 2.245	% 99.98	% 98
29	RUDP-B-FD-4, C/L	15-Nov-19	2+380	5.65	5.71	2.245	2.243	99.98	98
30	RUDP-B-FD-4, R/S	15-Nov-19	2+400	5.65	5.16	2.245	2.205	98.21	98
31	RUDP-B-FD-4, C/L	15-Nov-19	2+420	5.65	5.24	2.245	2.215	98.68	98
32	RUDP-B-FD-4, L/S	15-Nov-19	·2+460	5.65	5.86	2.245	2.213	98.50	98
33	RUDP-B-FD-4, R/S	15-Nov-19	2+500	5.65	5.56	2.2,45	2.203	98.11	98
7				-					3 N. Cong 14
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	. Contrac	tor				Co	nsultant		
п	ZHONGHENG CONSTR NTERNATIONAL ENGIN	TERMATION GRO NEERING CO.	UP LTD	BUILDI CONSULT	NG DESIGN AU FANCY PVT. LI	TD AND PL	(P) LTD IN JOI US ENGINEER ANDU, NEPAL	S & ARCHITE	WITH B.N. CTS (P) LTD
	SE hirender	h		La	et.	*	Biratnagal	a	
6	Checked By Engineer Dhirendra yadav	Submitted Contract Ma Rabindra Kr.	l By inager	Expert Qty S	ified By Surveyor/CSE al/Rajan Shresti	ha		Approved By Team Leader Giresh Chand	



			•	Damashe	NGUIALINS											BUILDING DESIGN AUTHORITY (P) LTD IN JOINT VENTURE WITH B.N. CONSULTANCY PVT. LTD AND PLUS ENGINEERS & ARCHITECTS (P) J.ID, KATHMANDU, NEPAL	1.21		
	November	2019	Base .	CBR	%	85.40	1	+						>80		ARCI	Approved By Team Leader	Giresh Chand	
	No			6		_	81.06	81.30			Π			>80		T VEN ERS &	dd A dd	Gire	
				ALV.	%						- 44			< 35		I JOIN GINE VEPAL			
			rial	El and El 6/	10 EI 20	32.20 21.96/17.12 21.10	NP 31.58 21.50/17.80 19.84	2/10.90						< 35	Ħ	N AUTHORITY (P) LTD IN JOIN (PVT. LTD AND PLUS ENGINEI (P) LTD, KATHMANDU, NEPAL			
	Month	Year	Type of Material		Lia	20 21.9	58 21.5	48 21.3		-	+	-	+	< 45	nsultar	Y (P) I ND PL	* JeBe		
_			Typ	DI02 L.A.A.		NP 32	NP 31	NP 29		+	\mathbb{H}			v	The Consultant	ORIT TD A	* Biratnagat		
JEC				OWC	OWIC	5.80									1	HUTUA I.TV	1V	tha .	
NY N				MMM	UUINI	2.252										SIGN NCY I	A	in Shree	
	ort				-	-	-	16.9						2-10		NG DE	Verified By	H.K. Mandal/Rajan Shrestha	
INTEN	st Rep(eight				18.75						12-28		CONS	C A	K. Man	
oolitar ICB/BI	hly Te		10E)	ing By W		31.76	34.32	32.47						5 21-53		BL B.N.		· 🗄 🔹	
tuDP/	Mont		T3L	/ % pass	4.75			42.34		-) 26-5		.00		5	
Biratnagar Metropolitan City Contract No: RUDP/ICB/BRT-02	Summary Sheet of Monthly Test Report		44,(Sieve Size in mm / % passing By Weight	10	-		0 61.10		-				2 40-7		ERING	Submitted By	Rabindra Kr. Thakur	
ratna	nary S		1:-R-	Sieve Si	20			8 78.00		_				0 62-9		GINEI	Submitted By	oindra K	
L M OI	Sumi	•	Location:-R-44,(T3L10E)		31.5	_	_	0 89.38	•	_				0 85-10		NL EN		Rat	
INA			Loc		g 40		_	-19 100		+				it: 10		TION			
KEGIOIALI UKDAN DEVELOFMENT FROJECT Biratnagar Metropolitan City Contract No: RUDP/ICB/BRT-02				Date of	Testing	16-Nov-19	16-Nov-19	16-Nov-19						pec. Limit : 100 85-100 62-92 40-70 26-55 21-53 12-28		ERNA			
2				Source of Sample	aidume to aninoe	Chisang Khola	Chisang-Khola	Chisang Khola			· 4·			S	Contractor	ZHONGHENG CONSTRUCTION GROUP INTERNATIONAL ENGINEERING CO.			
				Location of	Sample	R-44,90+100)	R-44,(0+200)	R-44,(0+300)								G CONSTRUCT	Diversion	Dhirendra yadav	
				of no	CI 110'	RUDP-B-01	-B-02	-13-03								GHEN	Chief	Dhirend	
				e N Tah Dafno	Trancia	RUDE	RUDP-B-02	KUDP-B-03								NOF	.01	-	





		UNAL	Biratn	agar N	EVELOI Ietropolita RUDP/ICB/	n City	I I KU	JECT	
					t of Field Densi				
							Month		mber
			Locati	on:-R-4	4,(T3L10E)	T	Year pe of Material		19 ase
					re content %		(gm/cc)		ction %
Sn.	Lab.Ref.no	Testing Date	Chainage	OMC%	Field MC%	Max.Dry	Field Dry	Compaction	Specifie
		10.11				density	density,	%	%
1	RUDP-B-FD-1, R/S	18-Nov-19	0+040	5.80	5.02	2.252	2.249	99.86	98
2	RUDP-B-FD-1, C/L	18-Nov-19	0+080	5.80	5.60	2.252	2.213	98.25	98
3	RUDP-B-FD-1, L/S	18-Nov-19	0+120	5.80	5.96	2.252	2.240	99.46	98
4	RUDP-B-FD-1, L/S	18-Nov-19	0+150	5.80	5.44	2.252	2.214	99.65	98
-	RUDP-B-FD-1, R/S	18-Nov-19	0+180	5.80	5.25	2.252	2.248	99.83	98
6	RUDP-B-FD-1, R/S RUDP-B-FD-1, C/L	18-Nov-19 18-Nov-19	0+200	5.80	5.17	2.252	2.211	98.19	98
8	RUDP-B-FD-1, C/L	18-Nov-19	0+240	5.80 5.80	5.63 5.76	2.252	2.212	98.24	98
9	RUDP-B-FD-1, R/S	18-Nov-19	0+280	5.80	5.42	2.252	2.240	99.45 99.24	98 98
-	Contrac	tor			-	Con	sultant		
I	ZHONGHENG CONSTI NTERNATIONAL ENGI	RUCTION GRO NEERING CO.		BUILDI CONSULT	NG DESIGN AU FANCY PVT. L1	THORITY (F) LTD IN JO	S & ARCHITE	WITH B.N CTS (P) L1
4.	Checked By Engineer Dhirendra yaday	Submitte Contract Ma Rabindra Kr.	anager	Expert Qty :	ified By Surveyor/CSE lal/Rajan Shrest	ha		Approved By Team Leader Giresh Chance	



				Remarks				+ >					T	Γ	BUILDING DESIGN AUTHORITY (P) LTD IN JOINT VENTURE WITH B.N. CONSULTANCY PVT. LTD AND PLUS ENGINEERS & ARCHITECTS (P) LTD, KATHMANDU, NEPAL		/ A . P]
	November 2019	Base	-	%	82.00		Ħ					+	>80		ARCI		Approved By Team Leader Giresh Chand	
	Ż			CR	81.16								>80		T VEN ERS &	00	Approved Team Lea Giresh Ch	
				% %	19.08								< 35		I JOIN GINE			
		erial		FI and EI %	20.57/18.49								< 35	ut	V AUTHORITY (P) LTD IN JOIN (PVT. LTD AND PLUS ENGINEI (P) LTD, KATHMANDU, NEPAL	1		
	Month	Type of Material		FI 8%	31.48 20.	+	-	-	-		++		< 45	Consultant	Y (P) I ND PL	A.		
,		Tyl		%Id	NP 31		$\left \right $		-		++	+	v	Ŭ	ORIT TD AI	Alleling a	biratms	
				OMC	6.00										AUTH PVT.1	IPINS	EE	
Biratnagar Metropolitan City Contract No: RUDP/ICB/BRT-02 Summary Sheet of Monthly Test Report				MDD	2.242										NCY	0	yor/C	
ort				0.075	6.54			1				_	01-7		NG DE	2 AL	Verified B Qty Survey indal/Rajan	
n City RT-02 st Rep			/eight	0.6	14.82								87-71		CONS	-2	Vo Vo Xport Q	
polita ICB/B thly Te		U	sing By W	5 2.36	44.23 32.22							1	FC-17 0		BU B.N.		EHI	
Actro RUDP/ f Mon	ė	L13	Sieve Size in mm / % passing By Weight	4.75					-			1000	C-07 0		CO.			
Igar No: 1 theet o		:-T3	ize in mr	10	4 54.57							12 07	1/-04 7		CRING	-	ed By fanager r.Thaku	
Biratnagar Metropolitan City Contract No: RUDP/ICB/BRT-02 Summary Sheet of Monthly Test Report		tion	Sieve S	5 20	7 66.54				-			0 57 0	6-70 n		GINEH	An	Submitted By Contract Manager Rabindra Kr. Thakur	
B		Location:-T3L13C		40 31.5	100 88.77				-			OC C1 C2 10 22 20 40 20 20 20 20 20 20 20 20 20 20 20 20 20	01-00 0		IL EN		Co Co Rab	
			\vdash	-			-	+	-	-					LIONA			
			Date of	Testing	21-Nov-19			5				ne l im		. /	ERNA'			
				Source of Sample	Chisang Khola								2	Contractor	N GROUP INTI LTD			
			Location of	Sample	T3L13C,(0+050)										ZHONGHENG CONSTRUCTION GROUP INTERNATIONAL ENGINEERING CO. LTD	- mineres-	ed By teer a yadav	
				ct no.	-B-01				+			-			CHENC	A C	Engineer Dhirendra yadav	
				Lab.Ket no.	RUDP-B-01			1.							ONOF		0/10	



			Contra	ict No:-]	letropolita RUDP/ICB/ t of Field Densi	BRT-02			
						F	Month	Nove	
				Locatio	n:-T3L13C	1	Year Type of Material	20 Ba	
					re content %		y(gm/cc)	Compa	ction %
Sn.	Lab.Ref.no	Testing Date	Chainage	OMC%	Field MC%	Max.Dry		Compaction	
1	RUDP-B-FD-1, R/S	23-Nov-19	0+040	5.00	5.38	density 2.242	density, 2.199	% 98.06	% 98
2	RUDP-B-FD-1, C/L	23-Nov-19	0+080	5.00	5.32	2.242	2.135	99.70	98
3	RUDP-B-FD-1, L/S	23-Nov-19	0+100	5.00	5.12	2.242	2.202	98.20	98
								-	
	Contrac					Co	nsultant	\	
I	ZHONGHENG CONSTR NTERNATIONAL ENGIN	UCTION GRO	UP LTD	BUILDIN CONSULT	NG DESIGN AU TANCY PVT. L1	TD AND PLU	P) LTD IN JOI JS ENGINEER ANDU, NEPAL	S & ARCHITE	WITH B.N. CTS (P) LTI
	Checked By Engineer Dhirendra yaday	Submitted Contract Ma	nager	Expe	Verified By tt Qty Surveyor/C	SE	* Biratnagat	Approved By Team Leader	-
		Rabindra Kr.	THAKUr	<u>н.к. Ма</u>	andal/Rajan Shr	estha		Giresh Chand	



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				Remarks					1				Γ	BUILDING DESIGN AUTHORITY (P) LTD IN JOINT VENTURE WITH B.N. CONSULTANCY PVT. LTD AND PLUS ENGINEERS & ARCHITECTS (P) LTD, KATHMANDU, NEPAL		By er	Pu
	November 2019	Base	CBD	%	81.40				1			>80		NTUR ¢ ARC	ab	Approved By Team Leader	Giresh Chand
				CR	81.21	84.52	82.50	81.33				>80		T VEI ERS &		App Tea	Gire
			ATV	%	22.85	23.58	21.87	22.89				<35		GINE			
		erial		FI and EI %	17.95/15.92	19.19/18.42	21.02/20.05	18.02/16.94				< 35	unt	YAUTHORITY (P) LTD IN JOIN (PVT. LTD AND PLUS ENGINEE (P) LTD, KATHMANDU, NEPAL			
	Month	Type of Material		% H	30.16 17	31.48 19	32.76 21	30.98 18	+			< 45	Consultant	Y (P) ND PI	5.1		-
		Ty		PI%	NP 30	NP 31	NP 32	NP 30	+			V	0	UTD A	555 * "	iel .	
				OMC	5.00					A.				PVT. I		Biratna99 SE	stha
			L	MDD	2.246									SIGN	al	Verified By Export Qty Surveyor/CSE	H.K. Mandal/Rajan Shrestha
t				0.075	8.08	7.94	6.49	6.89				2-10		G DES	A. A.	Verified By Qty Survey	al/Kaja
City T-02 t Repo		()	ight	9.0	16.66	15.49	16.60	15.52				12-28		NIGLIN	C	Ve port Qt	. Mand
Biratnagar Metropolitan City Contract No: RUDP/ICB/BRT-02 mmary Sheet of Monthly Test Rep	1	k lin	g By We	2.36	27.20	27.41	30.48	26.10				21-53	1	BUJ B.N. (. Ex	HY .
Biratnagar Metropolitan City Contract No: RUDP/ICB/BRT-02 nmary Sheet of Monthly Test Rep		run	Sieve Size in mm / % passing By Weight	4.75	35.28	37.02	38.15	40.10				26-55		00.			
Nr Me		T T	in mm /	10	48.03	50.73	46.39	53.47				40-70		ING C		By. nager	hakur
tract /		-3.(]	eve Size	20	74.54	73.62	69.98	65.78				62-92		NEER	Ca	Submitted By Contract Manager	Kabindra Kr. I hakur
Biratnagar Metropolitan City Contract No: RUDP/ICB/BRT-02 Summary Sheet of Monthly Test Report		Location:-R-3.(T3 Trunk line)	Si	31.5	89.51	91.16	88.41	90.25				85-100		ENGI		Cont	Kabin
So.		atio		40	100	100	100	100				100		DNAL			
		Loc	Date of	Testing	21-Nov-19	21-Nov-19	21-Nov-19	21-Nov-19				Spec. Limit : 100 85-100 62-92 40-70 26-55 21-53 12-28		ERNATIO			
		•		Source of Sample	Chisang Khola	Chisang Khola	Chisang Khola	Chisang Khola				S	Contractor	ZHONGHENG CONSTRUCTION GROUP INTERNATIONAL ENGINEERING CO.	Contraction (1) (TE O Server		
			I ocation of	Sample	R-3,(6+100)	R-44,(0+250)	R-44,(0+400)	R-44,(0+500)						G CONSTRUCTI	Mirenard	ed By necr	Dhirendra yadav
				Lab.Ref no.	RUDP-B-01	RUDP-B-02	RUDP-B-03	RUDP-B-04		4				ONGHEN	OWC	Checked By Engineer	Dhirend





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			Biratr	agar N	EVELOI Ietropolita RUDP/ICB/	n City		JEC I.	
					t of Field Densi			in the	-
						ŀ	Month Year		mber 19
		Lo	cation:-	-R-3,(T3	trunk line)		Type of Material	Bi	ase
Sn.	Lab.Ref.no	Testing Date	Chainson		re content %		ity(gm/cc)		ction %
511.	Lao.Rel.no	Testing Date	Chainage	OMC%	Field MC%	Max.Dr density		Compaction %	Specified %
1	RUDP-B-FD-1, L/S	25-Nov-19	6+050	5.00	5.33	2.246	2.214	98.57	98
2	RUDP-B-FD-1, C/L	25-Nov-19	6+100	5.00	5.78	2.246	2.231	99.33	98
3	RUDP-B-FD-1, L/S	25-Nov-19	6+120	5.00	5.13	2.246	2.217	98.72	98
4	RUDP-B-FD-1, L/S	25-Nov-19	6+180	5.00	5.54	2.246	2.228	99.20	98
5	RUDP-B-FD-1, C/L	25-Nov-19	6+220	5.00	5.23	2.246	2.242	99.81	98
6 7	RUDP-B-FD-1, R/S	25-Nov-19	6+260	5.00	5.29	2.246	2.235	99.49	98
8	RUDP-B-FD-1, R/S RUDP-B-FD-1, C/L	25-Nov-19 25-Nov-19	6+300 6+350	5.00	5.77 5.41	2.246	2.222	98.95	98
9	RUDP-B-FD-1, R/S	25-Nov-19	6+380	5.00	5.58	2.246	2.216	98.66	98
10	RUDP-B-FD-2, R/S	25-Nov-19	6+400	5.00	5.24	2.246	2.204	98.14 99.65	98 98
11	RUDP-B-FD-2, C/L	25-Nov-19	6+450	5.00	5.69	2.246	2.241	99.03	98
12	RUDP-B-FD-2, L/S	25-Nov-19	6+490	5.00	6.21	2.246	2.232	99.37	98
13	RUDP-B-FD-2, L/S	25-Nov-19	6+520	5.00	5.82	2.246	2.210	98.38	98
14	RUDP-B-FD-2, L/S	25-Nov-19	6+550	5.00	5.74	2.246	2.232	99.39	98
15	RUDP-B-FD-2, R/S	25-Nov-19	6+680	5.00	5.17	2.246	2.213	98.53	98
16 17	RUDP-B-FD-2, C/L RUDP-B-FD-2, L/S	25-Nov-19 25-Nov-19	6+600 6+620	5.00	5.77 5.59	2.246	2.235	99.50	98
-	+:								
	THE STREET						V (PI	-	
	Contrac	tor		-		C	onsultant	1	
I	ZHONGHENG CONSTR NTERNATIONAL ENGI	UCTION GRO	UP LTD	BUILDI CONSULT	NG DESIGN AU FANCY PVT. LT	THORITY D AND PL	(P) LTD IN JOI	S & ARCHITE	WITH B.N. CTS (P) LTD
	Chickled By Engineer Dhirendra yaday	Submitted Contract Ma Rabindra Kr.	nager	Expert Qty S	ified By Surveyor/CSE al/Rajan Shresth		Biratnasa	Approved By Team Leader	
		Rubindia N.	THAKUT	T.R. Manu	av Rajan Shrestr			Giresh Chand	



		•			Remarks			•						BUILDING DESIGN AUTHORITY (P) LTD IN JOINT VENTURE WITH B.N. CONSULTANCY PVT LTD AND PLUS ENGINEERS & ARCHITECTS (P) LTD,		A P	
	November	2019	Base		CBR %	83.40						-80		URE W	06	Approved By Team Leader Giresh Chand	
	~				ß	82.69	81.77					>80		VENT ARCH		Apl Ter Gir	
-72				ATV	%	20.67	23.55					< 35		DINT RS & L			
	÷	-	aterial		L.A.A.% Fl and El %	19.49/18.44	21.09/19					< 35	ultant	BUILDING DESIGN AUTHORITY (P) LTD IN JOINT VENTURE WITH B.N. ONSULTANCY PVT. LTD AND PLUS ENGINEERS & ARCHITECTS (P) LTI	6		
	Month	Year	Type of Material		A.A.%	33.00	31.60		Ħ			< 45	Consultant	Y (P)	- SIL		
			-		%Id	-	AP .						1	AND I KATH	B Alitatmontal &		
					OMC	5.80								LTD RITH	A BII	E .	
					MDD	2.244								PVT.	A	sy yor/CS n Shres	
ti					0.075	7.48	4.49					2-10		G DES	Nº YO	Verified By Export Qty Surveyor/CSE H.K. Mandal/Rajan Shrestha	
Contract No: RUDP/ICB/BRT-02 mmary Sheet of Monthly Test Rep			illin	ght	9.0	15.53	18.58					12-28		ILDING	-6	Ver port Qty Manda	
CB/BH			lact	By Wei	2.36	30.29	23.65					21-53		BUI		Exj H.K.	
Contract No: RUDP/ICB/BRT-02 nmary Sheet of Monthly Test Rep			Chu	o passing	4.75	34,89	30.91			-		26-55			in -		1 13
No: RI eet of			R-5.	n mm / %	10	48.80	50.94					40-70		CO.1	. 1	By nager hakur	110
Contract No: RUDP/ICB/BRT-02 Summary Sheet of Monthly Test Report			Location:-R-5,Chulachuli	Sieve Size in mm / % passing By Weight	20	70.79	74.82					100 85-100 62-92 40-70 26-55 21-53 12-28		RING	Carl	Submitted By Contract Manager Rabindra Kr. Thakur	1
Col			ocat	Si	31.5	87.14	93.03		Π			5-100		INEE	X	Sulf Contr Rabine	12
			· L		40	100	100					100 8		L ENC		•	
						21-Nov-19	22-Nov-19					Spec. Limit :		NATIONA			
					Source of Sample	Chisang Khola	Chisang Khola					8	Contractor	GROUP INTER			-
				Location of	Sample	R-5,Chulachuli,(0+080)	R-5, Chulachuli, (0+170)							ZHONGHENG CONSTRUCTION GROUP INTERNATIONAL ENGINEERING CO. LTD	A. H. Martin	Eliecked By Engineer Dhirendra Yadav	
					.00.				-	-	++-			IENG	X	Eng Eng Dhirend	
				1.4.1.2	Lab.Ket no.	RUDP-B-01	RUDP-B-02							ONGE		14 -	
					2°N.	1	2			1		11		ZH			



November, 2019



	KLO	IUNAL	Biratr	agar N	L V ELUI Ietropolita RUDP/ICB/	n City	T PRO	JECI	
					t of Field Densi				
						F	Month Year		mber
		1	Location		hulachuli		Type of Material		ase
	Lab Dafaa	Testine Det	01.1		re content %		ity(gm/cc)		ction %
Sn.	Lab.Ref.no	Testing Date	Chainage	OMC%	Field MC%	Max.Dr density		Compaction %	Specified %
1	RUDP-B-FD-1, L/S	26-Nov-19	0+030	5.80	5.72	2.244	2.222	99.03	98
2	RUDP-B-FD-1, C/L	26-Nov-19	0+080	5.80	4.66	2.244	2.205	98.27	98
3	RUDP-B-FD-1, R/S	26-Nov-19	0+120	5.80	5.26	2.244	2.220	98.95	98
4 5	RUDP-B-FD-1, C/L RUDP-B-FD-1, L/S	26-Nov-19	0+150	5.80	5.48	2.244	2.212	98.59	98
2	KUDP-B-FD-1, L/S	26-Nov-19	0+175	5.80	5.65	2.244	2.224	99.09	98
	Contrac					С	onsultant	_	-
	ZHONGHENG CONSTI NTERNATIONAL ENGI	RUCTION GRO				FD AND PI	(P) LTD IN JO LUS ENGINEER IANDU, NEPAL	S & ARCHITE	
11	Checked By Engineer Dhirendra Yadav	Submitte Contract Ma Rabindra Kr.	anager	Expert Qty	ified By Surveyor/CSE bal/Rajan Shrest		+ Biratnogot *	Approved B Team Leader Giresh Chan	



				Remarks									RE RS &		
November	2019	Base		%	0 86.10	-				_	>80		ENTU		Approved By Team Leader Giresh Chand
N				CR%	9 91.30	4 87.74		_			>80		INT V S ENG		Approved Team Lea
+				%	0 22.59	7 20.4	-			-	< 35		IN JO		
4		aterial		FI and EI %	23.50/19.50	22.57/20.57 20.44					< 35	+	BUILDING DESIGN AUTHORITY (P) LTD IN JOINT VENTURE WITH B.N. CONSULTANCY PVT, LTD AND PLUS ENGINEERS & ARCHITECTS (P) LTD, KATHMANDU, NEPAL		
Month	Year	Type of Material		%	26.90	32.20					< 45	Consultant	ATT TANK	*	
		T		P1%	NP							Con	HOR CY PV) LTI	B + Biratnagar	
				OMC	5.40				-			alle -	AUT ANG CTS (* Bild	SE
				DOM	2.248								ESIG	100	By eyor/CS
E				0.075	5.90	6.15					2-10		NG D N. CO ARC		Verified By Verified By Expert Qty Surveyor/CSE H.K. Mandal/Rajan Shrestha
t Kep(ight	9.0	13.36	15.71					12-28		TH B.		Ve Ve Mand
IIV 1 es			ig By We	2.36		29.44					21-53				H.K
Summary Sneet of Monthly Lest Report			Sieve Size in mm / % passing By Weight	_	_	35.65					40-70 26-55 21-53 12-28 2-10		G CO.		cur
10 100		~	in mm /	10	52.98	55.32					40-70		ERING		the Manage
ary Si		Location:-R-28	ieve Size	20	72.32	75.88					62-92		GINE		Submitted By Contract Manager Rabindra Kr. Thakur
mmnc		tion:	S	31.5	89.59	89.96					85-100		AL EN		C
		Loca	Ц	40	_	100					100		NOI		
			Date of	Testing	16-Nov-19	17-Nov-19					Spec. Limit : 100 85-100 62-92	or	TERNA		
				pompe to pompe	Chisang Khola	Chisang Khola					S	Contractor	DN GROUPIN	TERMATON	
			Location of	Sample	R-28,(0+330)	R-28,(0+410)							ZHONGHENG CONSTRUCTION GROUP INTERNATIONAL ENGINEERING CO.		An Reveal By Engineer incordar Yadav
			I ab Dafaa	140.1501 110.	RUDP-B-01	RUDP-B-02							NGHENG C		Checked By Engineer Dhirchdra Yadav
-			C NI	1110	-	1				T			OHZ	24	

Monthly Progress Report



Regional Urban Development Project (RUDP)

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					RUDP/ICH				
			Summa	ry Sheet	of Field Den	sity Test	Month	Nove	mber
			Loop	tions D	0.70		Year	• 20	19
			Loca	tion:-R	e content %		ype of Material /(gm/cc)		ction %
Sn.	Lab.Ref.no	Testing Date	Chainage		Field MC%	Max Day	Field Dry density,	Compaction %	
1	RUDP-B-FD-1, L/S		0+320	5.80	5.71	2.248	2.234	99.39	98
2	RUDP-B-FD-1, C/L		0+380	5.80	4.63	2.248	2.208	98.23	98
3	RUDP-B-FD-1, L/S	19-Nov-19	0+420	5.80	5.07	2.248	2.232	98.28	98
4	RUDP-B-FD-1, R/S		0+460	5.80	4.42	2.248	2.215	98.51	98
5	RUDP-B-FD-1, R/S RUDP-B-FD-1, R/S	19-Nov-19 19-Nov-19	0+510 0+570	5.80 5.80	4.87	2.248	2.215	98.52	98
		13-1101-13		5.60	5.08	2.248	2.212	98.41	98
_									
-						-		•	
-									
-									
-									
-									
							PEL		
_	Contrac	tor			9	Co	nsultant	5	
в	ZHONGHENG CONSTI NTERNATIONAL ENGI	RUCTION GRO	UP LTD	BUILDIN CONSU	IG DESIGN A LTANCY PVT	LTD AND	(P) LTD IN JO PLUS ENGIN MANDU, NE	DINT VENTURI EERS & ARCH PAL	E WITH B.N. ITECTS (P)
	Checked By Engineer Dhirendra Yaday	Submitted Contract Ma Rabindra Kr.	nager	Expert	Verified By t Qty Surveyor/ ndal/Rajan Sh	 /CSE	* Biratnau	Approved By Team Leader Giresh Chand	



					Remarks													BUILDING DESIGN AUTHORITY (P), LTD IN JOINT VENTURE WITH B.N. CONSULTANCY PVT, EID AND PLUS ENGINEERS & ARCHITECTS (P) LTD, KATHMANDU, NEPAL		nd for	
	November	2019	Base	CBP	%	82.00										>80		URE	nd	Approved By Team Leader Giresh Chand	
	Z				ť	83.73	84.76									>80		VENT & AF	h	Apl	
					%	20.53	23.34									< 35		OINT			
			rial		FI and El %	30/17.86	23.32/14.24									< 35	1 to	D IN J			
	Month	Year	Type of Material		% H	33.52 22.	31.76 23.	-	+	+	-	+	\mathbb{H}	+	-	< 45	Consultant	P) LT	* Biratnau		
			Typ		PI%	NP 33		-	+	+		+	\mathbb{H}		-	v	S	UTY (HE X		1
			-		OMC	5.75		T		T		1					18m	THORITY (P) LTD IN JOINT LTD AND PLUS ENGINEER LTD, KATHMANDU, NEPAL	2	a	
					MDD	2.254				-		1	Ħ					NA NE		Verified By Export Qty Surveyor/CSE H.K. Mandal/Rajan Shrestha	
			(B)		0.075	6.80	8.11									2-10		DESIG	J. K	Verified By Qty Surveyo mdal/Rajan S	
ourt			Marg	ht	9.0	13.88	20.28	T				T	\square			12-28		ING	-6	Ver oort Qty Manda	
RT-02 est Rej			tra l	By Weig	2.36	27.63	31.63									21-53		CON	3	Exp H.K.	
Contract No: RUDP/ICB/BRT-02 mmary Sheet of Monthly Test Repo			nan	o passing	4.75	36.10	45.09									26-55					
Contract No: RUDP/ICB/BRT-02 Summary Sheet of Monthly Test Report		÷	ijata	Sieve Size in mm / % passing By Weight	10	48.33	54.95									40-70		0. LT	0	By nager hakur	
t No:			i Pra	eve Size	20	64.13	68.02						T			62-92		ING C	B	Submitted By Contract Manager Rabindra Kr.Thakur	
ontrac mary S			Ran	Sic	31.5	88.54	90.06									85-100		NEER	-	Sub Contr Rabine	
Sum			-:uo		40	100	100									100 8		ENGI	139		
			Location:-Rani Prajatanantra Marg(B)	Date of	Testing	27-Nov-19	28-Nov-19									Spec. Limit : 100 85-100 62-92 40-70 26-55 21-53 12-28		TIONAL			
			I		Source of Sample	Chisang Khola	Chisang Khola									Spe	Contractor	OUP INTERNATIO			
		•		Location of	Sample	Rani Prajatanantra Marg(B),0+060	Rani Prajatanantra Marg(B),0+160											ZHONGHENG CONSTRUCTION GROUP INTERNATIONAL ENGINEERING CO. LTD	Jerman &	Enecked By Engineer Dhirendra Yadav	
					Lab.Ket no.	RUDP-B-01	RUDP-B-02											NGHE		ā	
					S.N. Lab.	RUD	RUD											OHZ			



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			Sumn		RUDP/ICB/		0 - 1997 - 14		
				any once	tor ricid Densi	ty rest	Month		mber
		Location:-	Rani Pr	aiatanti	ra Marg(B)		Year Type of Material		19 ase
			100	Moistu	re content %	Dens	sity(gm/cc)	Compa	ction %
Sn.	Lab.Ref.no	Testing Date	Chainage	OMC%	Field MC%	Max.Dr		Compaction	
1	RUDP-B-FD-1, L/S	29-Nov-19	0+060	5.70	5.92	density 2.254		% 98.12	% 98
2	RUDP-B-FD-1, C/L	29-Nov-19	0+000	5.70	5.46	2.254		98.49	.98
3	RUDP-B-FD-1, L/S	29-Nov-19	0+120	5.70	5.27	2.254		98.35	98
4	RUDP-B-FD-1, C/L	29-Nov-19	0+260	5.70	5.02	2.254		99.43	98
5	RUDP-B-FD-1, L/S	29-Nov-19	0+300	6.00	5.65	2.248	2.224	98.91	98
_							_		
							_		
_									
-									
_									
			•						
								•	
	Contrac	ctor				(Consultant		
1	ZHONGHENG CONST INTERNATIONAL ENGI MUMMUMIZ * 01.01			BUILDI CONSUL	NG DESIGN AU FANCY PVT, LT	TD AND P	Y (P) LTD IN JOI LUS ENGINEER MANDU, NEPAL	S & ARCHITE	WITH B.N. CTS (P) LTI
	Checked By Engineer Dhirendra Yaday	Submitte Contract M Rabindra Kr.	anager	Expert Qty	ified By Surveyor/CSE Jal/Rajan Shrest		* Biratnes	Approved By Team Leader Giresh Chan	



Daily Application Rate Check for Priming work	SUMMARY FOR THE MONTH OF NOVEMBER 2019		Station Side of terming Area of Area m2 Intersection Ioun From to Priming Priming M2 Area M2 Area M2	1+860 2+030 Both side 1785.00 0.00 1785.00	0+730 0+940 Both Side 2230.20 0.00 2230.20	1+780 1+860 Both Side 812.00 0.00 812.00		0+000 0+074 Both Side 222.00 0.00	0+300 0+357 Both Side 433.20 0.00	0+000 0+031 Both Side 162.75 0.00 162.75	0+940 1+075 Both Side 1385.10 0.00 1385.10	1+160 1+350 Both Sirie 2024.00 0.00 2024.00	Required specification for Prime coat 1.0 Lit/M2 ± 5% Specific Gravity of Bitumen 1.034	ntractor	BUILDING DESIGN AUTHORITY (P) LTD IN JOINT VENTURE WITH B.N. ROUP INTERNATIONAL ENGINEERING CONSULTANCY PVT. LTD AND PLUS ENGINEERS & ARCHITECTS (P) C. LTD C. LTD C. LTD C. LTD, KATHMANDU, NEPAL	s an the second
	Type of Bitumen:80/100 P.G	30	Eror	9 1+860	R-2 4-Nov-19 0+730 0	5-Nov-19 1+780	B 5-Nov-19 0+000	06-Nov-19 0+000		+	++		Required specifica	Contractor	ZHONGHENG CONSTRUCTION GROUP IN	Checked By Engineer



REGIONAL URBAN DEVELOPMENT PROJECT Biratnagar Metropolitan City Contract No: RUDP/ICB/BRT-02 Daily Application Rafe Check for Priming work	Type of Bitumen:80/100 P.G SUMMARY FOR THE MONTH OF NOVEMBER 2019	Cutter Percentage:MC 70:MC30	Location Date of Station Side of Ar Priming From to Priming Primi		R-7, PIU 14-Nov-19 0+000 0+130 Both Side 12:	R-2 16-Nov-19 1+075 1+145 Both Side 70	T2L24G 17-Nov-19 0+000 0+206 Both Side 126	R-28 21-Nov-19 0+577 Both Side 90	23-Nov-19 1+460 1+780 Both Side 326	R-44 25-Nov-19 0+000 0+175 Both Side 159	R-44 26-Nov-19 0+175 0+520 Both Side 131	Required specification for Prime coat 1.0 Lit/M2 ± 5%	Contractor	ZHONGHENG CONSTRUCTION GROUP INTERNATIONAL ENGINEERING	Contract Manager Contract Manager Dhirendra Yadav
URBAN DEVELOPMEN Biratnagar Metropolitan City Contract No: RUDP/ICB/BRT-02 blication Rate Check for Prim	R THE MONTH		Area of Intersection Priming (m2) Area m2		1215.50 0.00	701.40 0.00	1293.68 0.00	907.21 0.00	3264.00 0.00	1592.50 0.00	1319.50 0.00	0 Lit/M2 ± 5%		100	
MENT PI L City BRT-02 r Priming w	I OF NOVEN		n Total Area M2		1215.50	701.40	1293.68	907.21	3264.00	1592.50	1319.50	-		ILTANCY PVT	A.P.A.A. Verified ¹ By Expert Oty Surveyor/CSE H.K. Mandal/RajanShrestha
ROJECT	ABER 2019		Bitumen Consumption (Ltr)	400	1300	750	1400	975	3550	1700	1400	Specific Gravity of Bitumen 1.034	Consultant	BUILDING DESIGN AUTHORITY (P) LTD IN JOINT VENTURE WITH B.N. CONSULTANCY PVT.LTD AND PLUS ENGINEERS & ARCHITECTS (P)	Biratnaust
			Application Rate Bv Deep Ltr/m2	1.07	1.07	1.07	1.08	1.07	1.09	1.07	1.06	men 1.034	nt	D IN JOINT VEN ENGINEERS & J U, NEPAL	
		Page no 1 of 2	Application Rate Bt Trav Test Ltr/m2	1.06	1.05	1.05	1.07	1.06	1.06	1.05	1.05		-	ITURE WITH B.N ARCHITECTS (P)	Approved By Team Leader Giresh Chand



November, 2019



Regional Urban Development Project (RUDP)

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Contract Application UMMARY FC Side of Priming Priming Prim Soth side 4, 4, 4, 4, 4, 4, 4, 4, 4, 4, 4, 4, 4,		P/ICB/BR1 eck for P/ MONTH O 0.00 0.00 0.00 1.00 1.2 ± 5%	F NOVEMBI F NOVEMBI Total Total Total Total Total Total Total Total Total Total Total Total Total	P-02 riming work F NOVEMBER 2019 Total Bitumen Area M2 Consumption (Ltr) 1648.00 4700 4294.00 4700 Total 27975 Total 27975 Consult Consult DESIGN AUTHORITY (P) L1 ANCY PVT. LTD AND PLUS Consult DESIGN AUTHORITY (P) L1 ANCY PVT. LTD AND PLUS Consult	-02 riming work F NOVEMBER 2019 Total Deputation Rate Area M2 Consumption (Ltr) By Deep Ltring 1648.00 1.09 4294.00 1.09 4294.00 1.09 1.00 1.	Contract No: RUDP/ICB/BRT-02 Application Rate Check for Prim	UMMARY FOR THE MONTH O		Area of In Priming (m2)	1648.00	4294.00						Prime coat 1.0 Lit/M2 ± 5%			BI Are	ger ikur
Daily App Station Station Station Station 2 - 200 Both s 2 - 20 Both s 2 - 200 Both s 2 - 200 Bo		Contract No: RUD Iication Rate Ch MARY FOR THE I of Priming (m2) 1648.00 ide 4294.00 ide 4294.00 ide 4294.00 ide 1648.00 ide 1648.00 ide 1648.00 ide coat 1.0 Lit/N ne coat 1.0 Lit/N N manger ide By intradicte Kr. Thakur			DP/ICB/BRT-02 Check for Priming work E MONTH OF NOVEMBER 2019 E MONTH OF NOVEMBER 2019 Intersection Total Bitumen 0.00 4294.00 4700 0.00 4294.00 4700 0.00 4294.00 4700 0.00 27975 Total 2	C Daily App	SUMN		ation to	2+200	2+580						cification for Prin	actor		Control GROU	Co
I Station Station I Station I Station I Station I I I I I I I I I I I I I I I I I I I	Con SUMMA SUMMA SUMMA SUMMA Sumple Sumple Contring Poth side Both side Both side National El	Contract No: RUD Daily Application Rate Ch atter Percentage:MC 70:MC30 Tutter Percentage:MC 70:MC30 Tutter Percentage:MC 70:MC30 Timing Priming Priming Priming (m2) 18 R-2 28:Nov-19 2+200 80th side 4294.00 19 R-2 28:Nov-19 2+200 80th side 4294.00 19 R-2 28:Nov-19 2+200 80th side 4294.00 19 R-2 28:Nov-19 2+200 2+680 80th side 4294.00 19 R-2 28:Nov-19 2+200 2+680 80th side 4294.00 19 R-2 28:Nov-19 2+200 2+680 80th side 4294.00 10 R-2 28:Nov-19 2+200 2+680 80th side 4294.00 10 R-2 28:Nov-19 2+200 2+680 80th side 1648.00 10 R-2 28:Nov-19 2+200 2:0.LTD Contractor Totactor Thomas and the state of				1		Cutter Percentage:MC 70:MC30	Station	\vdash	28-Nov-19 2+200 2+5						d specificatio	Contractor	N GROUP INTER	GTION GROUP INTERNATION	



	4 - E 4		Application Rate Bt Tray Test Lit/m2	0.55		0.54	0.55		0.52	0.58		0.54	010	70.0				BUILDING DESIGN AUTHORITY (P) LTD IN JOINT VENTURE WITH B.N. CONSULTANCY PVT, LTD AND PLUS ENGINEERS & ARCHITECTS (P) LTD, KATHMANDU, NEPAL	Approved By Team Leader Giresh Chand
			Application Rate By Dip Lit/m2	0.58		0.56	0.55		0.60	0.58	2010	0.59		0.60	n 711.2		Consultant	DESIGN AUTHORITY (P) LTD IN JOINT VENT ONSULTANCY PVT, LTD AND PLUS ENGINE ARCHITECTS (P) LTD, KATHMANDU, NEPAL	
			Bitumen Consumption	1300		1500	150	1	125	476	011	1200		800	According to Road Note -3, Section 711.2		OULY (P) CONS	UTHORITY (VCY PVT, L TS (P) LTD,	yor/CSE n Shreatha
AT T	19	•	Total Area M2	2230.20		2655	274.48		207.20		79.667	2024.00		1323.00	ad Note -		10H-	DESIGN AL	
REGIONAL URBAN DEVELORMENT FRODE Biratnagar Metropolitan City Contract No: RUDP/ICB/BRT-02	VEMBER 20		Intersection Area m2	0		0	-		0		0	0		0	ng to Ro	en 1.034		BUILDING B.N. (Verified By Expert Oty H.K. Manda
Tropolitan DP/ICB/B	NTH OF NO		Area of Tack coat	2230.2		2655	01 10	2/4.40	207.2		299.82	2024		1323	Accordir	of Bitum		CO. LTD	Schmitted By Contract Manager Rabindra Kr. Thakur
L URBAN DE VELOLUMENT Biratnagar Metropolitan City ontract No: RUDP/ICB/BRT-(DR THE MOI		Side of	I aCK COAL	2	BHS		BHS	SHB		BHS	BHS		BHS	1 1	Specific Gravity of Bitumen 1.034		GINEERING	Sebm Sebm Contrac Rabindra
REGIONAL UKBAN DEVELOTIATION AND A REGIONAL UKBAN DEVELOTIATION Biratnagar Metropolitan City Contract No: RUDP/ICB/BRT-02	SI IMMARY FOR THE MONTH OF NOVEMBER 2019			to	01340	2+030		0+073	0+074		0+357	1+360		1+075	is 0.40 to 0.60Lit/M2	Speci		ERNATIONAL ENGINEERING CO. LTD	
KEO I	Dai	0	Station	From	0+/30	1+780		000+0	000+0		0+300	1+160		0+940				OUP INTERNA	
			Date of	Tack coat	7-Nov-19	8-Nov-19		9-Nov-19	9-Nov-19		10-Nov-19	15-Nov-19		15-Nov-19	Required tack coat		k	rion Grou	
		Type of Bitumen:80/100 P.G		- LOCAUDI	R-2	R.2		T3L11B	T3L13D		R-7	B.3		R-2	Reguire			ZHONGHENG CONSTRUCTION GROUP NT	Checked By Engineer Drimordes Vadav
		e of Bit	S.N.		1			3	4	-	5			7	_			ZHON	

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	Page no 1 of 2	Application Rate	Bt Tray Test Lit/m2	990		0.53	0.57		0.54		0.53		0.52	0.54			*		RI III DING DESIGN AUTHORITY (P) LTD IN JOINT VENTURE WITH	B.N. CONSULTANCY PVT. LTD AND PLUS ENGINEERS & ARCHITECTS (P) LTD, KATHMANDU, NEPAL	æ	Approved By Team Leader Giresh Chand
		Application Rate	By Dip Lit/m2	0.58		0.53	0.61		0.58		0.58		0.57	0.59		n 711.2		Consultant	P) LTD IN JO	CONSULTANCY PVT. LTD AND PLUS ENGINE ARCHITECTS (P) LTD, KATHMANDU, NEPAL		
		Ditumon	Consumption	700		200	175	071	400		750		550	CEO.	2000	According to Road Note -3, Section 711.2		Cons	UTHORITY (NCY PVT. L'	IV *	ha E
AT	19	- 1	Total Area M2	1215.50		375	00100	204.50	690.20		1293.68		968.00		07.026	ad Note		1111 111 1110	DESIGN A	CONSULTA	A Biratnauat +	MI A.H. Verified B. Expert Qty Surveyor/CSE H.K. Mandal/Rajan Shrestha
REGIONAL ONDER OF A CHARACTER OF A C	/EMBER 20		Intersection Area m2	0		0		0	c	>	0		0		0	ng to Ro	en 1.034	~	BIII DINC	B.N.	-	Verified By Expert Qty H.K. Manda
DP/ICB/BI	NTH OF NO		Area of Tack coat	1215.5		375		204.6	0000	7.060	1293.68		968		925.2	Accordi	r of Bitum			CO. LTD	1.	Submitted By Contract Manager Rabindra Kr. Thakur
Biratnagar Metropolitan City Biratnagar Netropolitan City Contract No: RUDP/ICB/BRT-02	DR THE MO		Side of Tack coat	BHS		BHS		BHS	-	BHS	BHS		BHS		BHS	OLit/M2	Specific Gravity of Bitumen 1.034			GINEERING		Subm Subm Contrac Rabindra
Biratnagar Metropolitan City Contract No: RUDP/ICB/BRT-02	SUMMARY FOR THE MONTH OF NOVEMBER 2019			0+130		0+050		0+031		1+145	BUCTU	01400	0+220	Distant No.	0+577	is 0.40 to 0.60Lit/M2	Speci			ERNATIONAL ENGINEERING CO. LTD		
	S	1	Station	From	20010	000+0		000+0		1+075	00010	000+0	000+0		0+320				Contractor	P INTERN	10 ca un. *	
			Date of	Tack coat	EI-VON-OL	16-Nov-19		16-Nov-19		19-Nov-19		19-Nov-19	25-Nov-19		27-Nov-19	Required tack coat			Certan CO	TION GROU	- IIII	
	D O UIUU D G	Type of Bitumen:80/100 F.O	1 ocation	FOCEROLI	R-7	T31 6	1000	T3L8		R-2		T2L24G	R-19		R-28	Reduire				ZHONGHENG CONSTRUCTION GROUP INT		Criecked By Engineer Dhirendra Yadav
	- C Ditte	e of Bitu	S.N.		8	-	R	10		11		12	13	2	14					ZHONG		

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	Page no 1 of 3		Bt Tray Test LIVINA 0.54		0.54	0.63		0.52	0.50					INT VENTURE W	BUILDING DESIGN AUTHORNY (P) LID IN JOINT YENTON B.N. CONSULTANCY PYT, LTD AND PLUS ENGINEERS & ARCHITECTS (P) LTD, KATHMANDU, NEPAL	00	Approved By Team Leader Giresh Chand
		Application Rate	By Dip Lit/m2 0.58	2000	0.58	0.50	000	0.59	0.60	000	n 711 2			Consultant	DESIGN AUTHORITY (P) LID IN JOINT Y AND AUTHORITY (P) CONSULTANCY PVT. LTD AND PLUS ENGINE ARCHITECTS (P) LTD, KATHMANDU, NEPAL		
		Bitumen	Consumption	ne/	1150		1650	1550		14375	2 Cartin	According to road note -3,000 and		VI P/ Cons	NCY PVT. L STS (P) LTD	Biratnager *	E
BCT	019	Total	Area M2	1301.75	1978.25		2929.80	2626.50		1248.75 Total	ad Noto	au Nuc		2	G DESIGN A CONSULTA ARCHITE(Surveyor I/Rajan Sŀ
City City RT-02 TACK CC	VEMBER 20	Intersection	Area m2	0	.0		0	0		0		ng to Ku	len 1.034		BUILDIN B.N.	d'art	Verified By Expert Qty H.K. Manda
VELOPMH etropolitan JDP/ICB/B	NTH OF NO	Area of	Tack coat	1301.75	1978.25		2929.8	2626.5		1248.75			y of Bitum		G CO. LTD		Submitted By Contract Manager Rabindra Kr. Thakur
REGIONAL URBAN DEVELOPMENT PROJECT Biratnagar Metropolitan City Contract No: RUDP/ICB/BRT-02	ally Application rate officer 2019 SUMMARY FOR THE MONTH OF NOVEMBER 2019	Cidn of	Tack coat	BHS	BHS		BHS	BHS		BHS		is 0.40 to 0.60Lit/M2	Specific Gravity of Bitumen 1.034		IGINEERING	4	Subr Subr Contra Rabindr
REGIONAL URBAN DEVELOPMENT PROJECT Biratnagar Metropolitan City Contract No: RUDP/ICB/BRT-02	IIY APPIIC		Station	1+587	1+780		2+325	2+580		0+135		.40 to 0.	Spec		ATIONAL EN		
RE	IS IS		From 1	1+460	44687	10011	2+040	2+325		000+0				Contractor	P INTERN	the man	
			Date of Tack coat	28-Nov-19	Of New York	EL-AON-67	29-Nov-19	30-Nov-19		30-Nov-19		Required tack coat		Co	TION GROU		
	Time of Bitumen:80/100 P.G		Location	R-2		R-2	R-2	6.G		R-44		Requi			ZHONGHENG CONSTRUCTION GROUP INTERNATIONAL ENGINEERING CO. LTD		Engineer
	of Ritu	אווה וה פו	S.N.	15		16	17		18	19					ZHONG		



			1	Τ		Flow mm		2.43	2.48	2.43	2.52	2.37	2.62	2.48	2.35	77.7	2.48	2.43	2.28		5.35	2.33	2.58	2.27	2.30	2.3				ND PLUS		/
			-	P.g 1of 2		N Flor	-				-			-	+	-	-			-	-	0	=	4	16	0	//C Course			BUILDING DESIGN AUTHORITY (P) LTD IN JOINT VENTURE WITH B.N. CONSULTANCY PVT. LTD AND PLUS ENGINEERS & ARCHITECTS (P) LTD KATHMANDU, NEPAL	C	ader Shand
						Stability		10746	10735	11432	11365	11620	11985	11675	11565	11199	11321	11354	11509		12107	10945	11841	79.14	11731	2 8500	For (25-51)mm Thickness W/C Course			SULTANCY		Approved By Team Leader Giresh Chand
						WA %		16.30	16.35	16.45	16.42	16.51	16.25	16.58	16.43	16.38	16.53	16.01	96.91	10.40	16.41	16.46	16.55	16.51	16.41	≥ 15	5-51)mm TI			B.N. CONSTHMANDU,		
						Air Voids		3.13	3.02	3.18	3.36	3.29	3.06	3.34	3.27	3.24	3.32	20.0	310	01.6	3.39	3.41	3.47	3.44	3.07		For (2)	1	Itant	URE WITH	SJ	IV * IBB
						N	gm/cc	2.373	2.377	2.374	2.373	2.373	2 376	2.456	2.370	2.375	2.372	2.572	2.3/0	2.3/9	2.373	2.371	2.369	2.370	2.374	Min2.358		AV (P) LI	Consultant	OINT VENT	P	* Biratnagar *
			45-78)			Bihumen Content From	2317861800 LCN	5.74	5.80	5.78	5.69	576	274	5.77	5.74	5.72	5.76	5,75	5.78	5.72	5.68	5.69	5.71	5.70	5.81	5.703	±0.3%	10/	1000) LTD IN J	62	BUIDING *
REGIONAL URBAN DEVELOFMENT FROM			(AASHTO T 245-78)	19			0.075	6.85	7.01	6.92	6.58	60.9	62.9	6.19	6.22	6.02	6.41	6.42	5.90	6.55	6:39	6.58	6.03	6.36	8.16		IIIN			HORITY (F		
	City	L-02	(AASH	nber 20		mu	9.0	17.46	18.68	17.00	16.76	+	+	+	+	-	16.70	+	+	16.95	16.67	1 16.76	9 16.53	7 16.76	4 19.74	+ +	· ±1%			ESIGN AUT		yoriCSE
CLUCK THE	opolitan (P/ICB/BR	THOD	F Nover	"adation	ve Sizes n	5 2.36	0 35.28	9 36.94	4 34.9+4	34 36	+	+	1 33.09	-	-		-	-	92 35.83	22 36.07	57 34.37	14 35.09	31 36.27	P0 92 90 22	+ +	±3% ±2%			NILDING D		Verified By Expert dty Surveyor/CSE H.K. Mandal
IN DEAD	Biratnagar Metropolitan City	Contract No: RUDP/ICB/BRT-02	Test Result BY MARSHALL METHOD	NTH O	Min Ann Cuadation	Passing Sieve Sizes mm	5 4.75	78.78 56.80	78.24 56.79	78.35 55.74	+	+	-	+	+	+	78.25 56.28		79.41 56.27	78.04 54.92	78.80 56.22	78.26 55.57	78.15 55.14	78.90 56.31			±5% ±3		-	8	-	
TT OKDE	Biratna	Contrac	MARSH	THE MO		4 %	16 9.5	100 78.	100 78	100 78	-	+	+	+	+	+	100 78	\vdash	100 75	100 78	100 78	100 7	100 7	100 7	+	100-100 7	IIN	1		O. LTD		Sumitted By Contract Manager Bahindra Kr Thakur
SGIUNA			sult BY	SV FOR			20	100 1	100	100	-	+		100	-	+	100		100	100	100	100	100	100		100 1	±6%			IEERING C		:00 C C
K			Teet Re	CIMMARY FOR THE MONTH OF November 2019			Location of Work ch:	R-2,(0+730 to 0+940)	R-2.(1+780 to 2+030)	VERALD - CODO - CO - CODO	13L11B(07000 10 0702)	T3L13D,(0+000 to 0+074)	R-7,(0+300 to 0+357	R-2,(1+160 to 1+360)	R-2,(0+940 to 1+075	R-7,(0+000 to 0+130)	T3L6 CDO,(0+000 to 0+050)	D 2 /1 +075 to 1+145)	K-2(1+0/5 to 1+1+5) T21.24G	R-28,(0+000 to 0+206)	R-2,(1+460 to 1+587)	R-2,(1+587 to 1+780)	R-2.(2+040 to 2+325)	(0854C of 2024C) F G	(00C 17 0) C7C 17)'7-N	R-44,(0+000 to 0+135) Specifacations	Ion Mit Tolerances from RUDP Specification Table2-4-10			Contractor	CONSTRUCTION GROUP IN FRANCISION FIL	ST S
							Date of Laying	7/11/2019	0101010	6107/11/0	9/11/2019	9/11/2019	10/11/2019	15/11/2019	15/11/2019	16/11/2019	16/11/2019	16/11/2019	19/11/2019	27/11/2019	28/11/2019	29/11/2019	6102/11/66		29/11/2019	29/11/2019	tob Mix Tolera		KS:		ZHONGHENG	
							S. LAB No. No.	138		139	3 140	4 141	5 142	+	-	-			11 148		14 151		_		17 154	18 155			REMARKS:			Decked By



		November	2019 Cancrete Sand	Clav	Ŭ	1.05	1.12	1.15	1.49	1.42	1.62	1.41	1.78	1.96	2.30	101	1.05	1.62	1.50	1.42	1.04	~~~~		BUILDING DESIGN AUTHORITY (P) LTD IN JOINT VENTURE WITH B.N. CONSULTANCY PYT. LTD AND PLUS ENGINEERS & ARCHITECTS (P) LTD, KATHMANDU, NEPAL	do	Approved By Team Leader Giresh Chand
		nth	Year Type of Matorial	11111	0.150	6.82	7.67	/.44	8.55	6.70	5.18	7.01	7.94	2.71	5.78	8.74	6.51	6.96	12.41	10.02	21-0	CT~0	nt / 2	LTD IN J	+ Ishami	
ITT		Month	Typ	veight	0.300	14.80	14.54	15.24	29.22	14.45	14.89	18.71	18.79	15.95	24.30	+		18.89	22.40	21.80	+	0/~~	Consultant	TY (P) 1 T. LTD /	E Birathala	
UKBAN DEVELOPMENT PROJECT	e Sand			assing by v	0.600	24.13	22.13	23.91	36 77	28.97	35.79	35.39	33.77	30.30	42.28	27.54	33.73	32.47	37.28	36.17	00.90	001~01		VCY PV TS (P)	Built	-
INT	ity -02 Cancrete			mm / % P;	1.18	59.91	35.46	33.10	51.30	47.88	51.09	50.82	50.28	45.85	51.76	35.43	40.24	42.68	54.79	63.13	24.10	20~100		SIGN AU SULTAI CHITEC		/or/CSE in Shrest
	Biratnagar Metropolitan City Contract No:- RUDP/ICB/BRT-02 heet of Monthly Test Report of Cai			Sieve Size in mm / % Passing by weight	2.36	73.36	61.69	63.31	/0.85 69 14	63.07	66.10	66.41	62.83	73.37	74.71	70.13	69.06	16.69	81.32	77.20	201102	00~100		ING DES .N. CON	J.	Verified By Expert Qty Surveyor/CSE H.K. Mandal/Rajan Shrestha
	Aetropo RUDP/I y Test R			S	5.0	92.65	95.23	93.90	94.13	92.48	92.64	93.30	94.41	93.70	94.13	92.48	90.76	93.04	92.97	95.63	90.100	89~100		BUILDB		Verified By Expert Qty S H.K. Manda
	nagar A act No:- Monthl				10	100.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00	100	100		VAL		ur
	Biratnagar Metropolitan City Contract No:- RUDP/ICB/BRT-02 Summary Sheet of Monthly Test Report of Cancrete Sand				Source of Sample	Chisang Khola	Chisang Khola	Chisang Khola	Chisang Khola	Chisang Khola	Chisang Khola	Chisang Khola	Chisang Khola	Chisang Khola	Chisang Khola	Chisang Khola	Chisang Khola	Chisang Khola	Chisang Khola	Chisang Khola	Chisang Knola	spec. Limit :		ZHONGHENG CONSTRUCTION GROUP INTERNATIONAL ENGINEERING COLLING	L.	Submitted By Contract Manager Rabindra K. Thakur
NEGIOINAL	0.1			Location of	Sample	R-4	N-38	13L19F	T3L10A T3L10	N-38	R-12	R-12	R-2	R-2	R-40	R-28	R-4	N-38	T3L10A	R-44 D-40	04-V	1 4 m	Contractor Cole	ICTION GROUP		
				Date of	Testing	1-Nov-19	3-Nov-19	61-AON-C	0-Nov-19	7-Nov-19	8-Nov-19	8-Nov-19	9-Nov-19	9-Nov-19	10-Nov-19	11-Nov-19	12-Nov-19	13-Nov-19	14-Nov-19	01-VOV-CI	61-A0AT-01		110	CONSTRI		
					Lab.Ref no.	RUDP-CS-521	RUDP-CS-522	KUDP-CS-525	RUDP-CS-525	RUDP-CS-526	RUDP-CS-527	RUDP-CS-528	RUDP-CS-529	KUDP-CS-530	RUDP-CS-531		RUDP-CS-534		_	RUDP-CS-537				HONGHENG	Z	Checked By Engineer Dhirendra Yadav
					S.n.	-		+	4 5	-	-	-	-	+	1	+	14	-		10	-			Z	0 B	Checked Engineer Dhirendr



	er		and	Domodio	NCIIIAIKS					T								RE WITH S &	1	Ρ.
	November	2019	Cancrete Sand	Clay	Contetnt%	2.03	1.50	1.03	1.47	1.54	1.48	1.03			10%>	2/0		BUILDING DESIGN AUTHORITY (P) LTD IN JOINT VENTURE WITH B.N. CONSULTANCY PVT, LTD AND PLUS ENGINEERS & ARCHITECTS (P) LTD, KATHMANDU, NEPAL	ab	Approved By Team Leader Giresh Chand
	4		of ial		0.150	6.45	5.72	5.56	4.91	62.1	6.12	6.36			0~15	1 mil	121	D IN JO VD PLUS	tinagat	
ECI.	Month	Year	Type of Material	ight	0.300	14.10	13.18	9.14	9.66	14.60	14.83	15.18			5~70	1 11-0	Consultant	Y (P) LJ . LTD A! rD, KAT	Biratnaga	
Sand				Sieve Size in mm / % Passing by weight	0.600	25.79	24.10	19.74	19.41	17.07	29.74	22.60			15~100	DATECT	0	THORIT CY PVT IS (P) LJ		e.
ty ty 02 Ancrete				nm / % Pas	1.18	47.22	44.13	43.49	45.29	50.64	55.73	40.32			30~100	001-00		IGN AU ULTAN HITECT		or/CSE
DE IMU Litan Ci CB/BRT- sport of C				eve Size in 1	2.36	63.74	68.37	70.18	66.34	67.01	73.55	65.40			60~100	001-00		NG DESI N. CONS ARC	X	By y Surveyo idal/Rajar
DKDAIN DEVELOUTMEL Biratnagar Metropolitan City Contract No:- RUDP/ICB/BRT-02 heet of Monthly Test Report of Car					5.0	91.54	92.85	93.93	91.65	10.00	10.197	94.00			89~100	001-70		BUILDI B.	が、そ	Verified By Expert Qty Surveyor/CSE H.K. Mandal/Rajan Shrestha
act No:-					10	100.00	100.00	100.00	100.00	100.00	100.00	100.00			100			AL		Ŀ
KEGIONAL UKBAN DEVELOFMENT FKOJECT Biratnagar Metropolitan City Contract No:- RUDP/ICB/BRT-02 Summary Sheet of Monthly Test Report of Cancrete Sand				Source of Sample	and times to astrong	Chisang Khola	Chisang Khola	Chisang Khola	Chisang Khola	Chicana Khola	Chisang Khola	Chisang Khola			Snec. Limit :	· · ·		INTERNATION D	N.	Submitted By Contract Manager Rabindra K. Thakur
				Location of	Sample	T3L19F	R-7	R-7	R-2 D 4	R-28	T3L19F	Koshi Yard				tern de Plan	Contractor Piero	ZHONGHENG CONSTRUCTION GROUP INTERNATIONAL ENGINEERING CO. LTD		
				Date of	Testing	17-Nov-19	19-Nov-19	20-Nov-19	21-Nov-19	01-Nov-10	23-Nov-19	23-Nov-19				1	1 and	CONSTRU		
				I ah Ref no	-011 1001000				RUDP-CS-542	-		RUDP-CS-546						HONGHENG	\	Checked By Engineer Dhirendra Yadav
				u S			-	-	4 67 H	+	-	27 B						ZH	B	Checked Engineer Dhirendr





Biratingar Metropolitan City Contract No RUDP/ICB/BRT-02 Summary Sheet of Monthly Test Report of 20mm Ass. Annuary Sheet of Monthly Test Report of 20mm Ass. Annuary Sheet of Monthly Test Report of 20mm Ass. Type of Matchind Date of Testing Volue Date of Testing Constract Noise Rhole 0000 933 3918 500 1437(123) 2 Type of Matchind 2-Nov-19 Rample Chisang Rhole 0000 933 1448 101 2400-19 241 251 1341 241 251 <		November 2019	20 mm Agg	V.% Remarks	32	21.86	51	15.61	19.05	19.78	10	20.80	20.32	21.02	19.71	12	1014	21.84	21.36		<25		TENTURE WI INEERS & PAL	Approved By Team Leader Giresh Chand
Biratnagar Met Contract No:- RU Summary Sheet of Monthly Date of Testing Location of Sample Source of Sample Sizere Size 2-Nov-19 R-4 N-38 Chisang Khola 100.00 9 2-Nov-19 R-4 Chisang Khola 100.00 9 9 2-Nov-19 R-4 Chisang Khola 100.00 9 9 2-Nov-19 R-4 Chisang Khola 100.00 9						+	+	+		+	+	+			+	+	+	+			-		S ENG	, A
Biratnagar Met Contract No:- RU Summary Sheet of Monthly Date of Testing Location of Sample Source of Sample Sizere Size 2-Nov-19 R-4 N-38 Chisang Khola 100.00 9 2-Nov-19 R-4 Chisang Khola 100.00 9 9 2-Nov-19 R-4 Chisang Khola 100.00 9 9 2-Nov-19 R-4 Chisang Khola 100.00 9			laterial	Fl and EI %	14.25/12.87	14.14/12.79	71 46/20 48	20.26/18.73	20.22/19.60	20.21/18.87	19 31/93 00	17 84/16.26	21.31/17.49	19.60/17.54	20.03/15.51	13.46/16.10	17 22/16 5/1	16.44/14.0	23.91/16.3		< 25	int	LTD IN JC AND PLU ATHMANI	
Biratnagar Met Contract No:- RU Summary Sheet of Monthly Jate of Testing Location of Sample Source of Sample Sieve Si 37.5 Date of Testing Location of Sample Source of Sample Sieve Si 37.5 Date of Testing Location of Sample Source of Sample Sieve Si 37.5 Date of Testing Location of Sample Source of Sample Sieve Si 37.5 Date of Testing Location of Sample Source of Sample Sieve Si 3-Nov-19 R-4 Chisang Khola 100.00 Sieve Si 3-Nov-19 R-40 Chisang Khola 100.00 Sieve Si 5-Nov-19 R-40 Chisang Khola 100.00 Sieve Si 5-Nov-19 R-44 Chisang Khola 100.00 Sieve Si 7-Nov-19 R-44 Chisang Khola 100.00 Sieve Si 8-Nov-19 R-44 Chisang Khola 100.00 Sieve Si 7-Nov-19 R-44 Chisang Khola 100.00 Sieve Sieve Si 8-Nov-19 R-44 Chisang Khola 100.00 Sieve		Mon Yea	Type of M	L.A.A.%	30.96	30.20	28.60	28.26	31.78	28.06	50.75	20.10	27.76	29.18	27.58	28.10	01.26	27.50	26.82		<35	D, Consulta	RITY (P) VT. LTD	A there
Biratnagar Met Contract No:- RU Summary Sheet of Monthly Jate of Testing Location of Sample Source of Sample Sieve Si 37.5 Date of Testing Location of Sample Source of Sample Sieve Si 37.5 Date of Testing Location of Sample Source of Sample Sieve Si 37.5 Date of Testing Location of Sample Source of Sample Sieve Si 37.5 Date of Testing Location of Sample Source of Sample Sieve Si 3-Nov-19 R-4 Chisang Khola 100.00 Sieve Si 3-Nov-19 R-40 Chisang Khola 100.00 Sieve Si 5-Nov-19 R-40 Chisang Khola 100.00 Sieve Si 5-Nov-19 R-44 Chisang Khola 100.00 Sieve Si 7-Nov-19 R-44 Chisang Khola 100.00 Sieve Si 8-Nov-19 R-44 Chisang Khola 100.00 Sieve Si 7-Nov-19 R-44 Chisang Khola 100.00 Sieve Sieve Si 8-Nov-19 R-44 Chisang Khola 100.00 Sieve	BB.			ight 5	2.43	1.90	1.71	2.69	3.67	3.27	5.28	14.7	2.07	1.93	2.32	2.32	14.7	1.89	2.25		0~5	1 vin	ANCY I	1 +
Biratnagar Met Contract No:- RU Summary Sheet of Monthly Parte of Testing Location of Sample Biratnagar Met Contract No:- RU Date of Testing Location of Sample Source of Sample Sieve Si 2:Nov-19 R44 Chisang Khola 100.00 9 3:Nov-19 R24 Chisang Khola 100.00 9 3:Nov-19 R24 Chisang Khola 100.00 9 4:Nov-19 R24 Chisang Khola 100.00 9 5:Nov-19 R-40 Chisang Khola 100.00 9 5:Nov-19 R-44 Chisang Khola 100.00 9 7:Nov-19 R-44 Chisang Khola 100.00 9 7:Nov-19 R-44 Chisang Khola 100.00 9 7:Nov-19 R-44 Chisang Khola 100.00 9 8:Nov-19 R-44 Chisang Khola 100.00 9 10:Nov-19 R-44 Chisang Khola 100.00 9 10:Nov-19 R-44 Chisang Khola 100.00 9 10:Nov-19 R-44 Chisang Khola	ity -02 of 20mm /			ssing by we	5.09	5.14	6.16	9.80	9.79	10.81	C8.6	0.00	4.73	4.28	6.76	7.09	1.34	4.94	69.9		0~25		DESIGN DESIGN	By veyor/CSE un Shrestha
Biratnagar Met Contract No:- RU Summary Sheet of Monthly Parte of Testing Location of Sample Biratnagar Met Contract No:- RU Date of Testing Location of Sample Source of Sample Sieve Si 2:Nov-19 R44 Chisang Khola 100.00 9 3:Nov-19 R24 Chisang Khola 100.00 9 3:Nov-19 R24 Chisang Khola 100.00 9 4:Nov-19 R24 Chisang Khola 100.00 9 5:Nov-19 R-40 Chisang Khola 100.00 9 5:Nov-19 R-44 Chisang Khola 100.00 9 7:Nov-19 R-44 Chisang Khola 100.00 9 7:Nov-19 R-44 Chisang Khola 100.00 9 7:Nov-19 R-44 Chisang Khola 100.00 9 8:Nov-19 R-44 Chisang Khola 100.00 9 10:Nov-19 R-44 Chisang Khola 100.00 9 10:Nov-19 R-44 Chisang Khola 100.00 9 10:Nov-19 R-44 Chisang Khola	itan C B/BRT Report o			n / % Pa	39.18	14.98	15.68	23.15	22.03	23.25	27.19	43.58	29.21	32.08	36.83	39.39	40.78	44.64	40.62		0~70		DING I B.N. CO	Verified 2ty Surv
Date of Testing Location of Sample 2-Nov-19 R-4 3-Nov-19 R-4 3-Nov-19 R-4 3-Nov-19 R-4 3-Nov-19 R-4 3-Nov-19 R-4 3-Nov-19 R-4 4-Nov-19 R-40 6-Nov-19 R-40 7-Nov-19 R-2 8-Nov-19 R-40 7-Nov-19 R-40 7-Nov-19 R-40 7-Nov-19 R-40 7-Nov-19 R-41 7-Nov-19 R-41 7-Nov-19 R-41 7-Nov-19 R-43 7-Nov-19 R-43 7-Nov-19 R-43 7-Nov-19 R-2 10-Nov-19 R-2 19-Nov-19 R-2 1	etropol UDP/IC v Test I			ize in mi	95.31	94.70	94.92	02 80	93.70	94.00	94.38	92.96	97.54	98.13	97.18	96.97	96.86	97.16	96.16		85~100		BUIL	Expert (
Date of Testing Location of Sample 2-Nov-19 R-4 2-Nov-19 R-4 3-Nov-19 R-4 3-Nov-19 R-4 3-Nov-19 R-40 4-Nov-19 R-40 4-Nov-19 R-40 5-Nov-19 R-40 6-Nov-19 R-40 7-Nov-19 R-40 6-Nov-19 R-40 7-Nov-19 R-40 7-Nov-19 R-40 7-Nov-19 R-40 8-Nov-19 R-40 7-Nov-19 R-41 7-Nov-19 R-41 7-Nov-19 R-41 7-Nov-19 R-41 7-Nov-19 R-28 9-Nov-19 R-28 10-Nov-19 R-2 19-Nov-19 R-2 19-Nov-19 R-2 19-Nov-19 R-2 19-Nov-19 R-2	agar Mo ct No:- R f Monthl			Sieve S	100.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00		100		AL	By nager Takur
Date of Testing Location of Sample 2-Nov-19 R-4 3-Nov-19 R-4 3-Nov-19 R-4 3-Nov-19 R-4 3-Nov-19 R-4 3-Nov-19 R-4 3-Nov-19 R-4 4-Nov-19 R-40 6-Nov-19 R-40 7-Nov-19 R-2 8-Nov-19 R-40 7-Nov-19 R-40 7-Nov-19 R-40 7-Nov-19 R-40 7-Nov-19 R-41 7-Nov-19 R-41 7-Nov-19 R-41 7-Nov-19 R-43 7-Nov-19 R-43 7-Nov-19 R-43 7-Nov-19 R-2 10-Nov-19 R-2 19-Nov-19 R-2 1	Biratn Contra ummary Sheet o			Source of Sample	Chisane Khola	Chisang Khola	Chisang Khola	Chisang Khola	Chisang Khola	Chisang Khola	Chisang Khola	Chisang Khola	Chisang Miola	mony Simerio	Spec. Limit :		NTERNATION	Sabmitted Sabmitted Contract Mai						
Date D 20 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0		1			Sample R-4	N-38	T3L19F	T3L10	R-2	R-40	R-40	Madhumara Yard	R-44 D 20	Koshi Yard	R-28	R-4	N-38	T3L10	13LIUA R_7	N-2		Intractor	TION GROUP I RING CO. LTD	
f no. f no. A-451 A-451 A-453 A-455 A-455 A-455 A-456 A-456 A-456 A-456 A-456 A-456 A-456 A-456 A-456 A-456 A-456 A-456 A-455 A-456 A-455 A-455 A-456 A-455 A-456 A-455 A-455 A-456 A-456 A-456 A-456 A-456 A-455 A-456 A-				Date of Testing	2-Now-19	3-Nov-19	3-Nov-19	4-Nov-19	4-Nov-19	5-Nov-19		1	7-Nov-19	8-Nov-19	8-Nov-19	9-Nov-19	10-Nov-19	10-Nov-19	10 Nov-19	61-A0NI-61		J	CONSTRUCT E ENGINEE	19 +
Lab.Ref no. Lab.Ref no. RUDP-CA-451 RUDP-CA-452 RUDP-CA-455 RUDP-CA-456 RUDP-CA-460 RUDP-				Lab.Ref no.	+	RUDP-CA-452	RUDP-CA-453	RUDP-CA-454	RUDP-CA-455	RUDP-CA-457	RUDP-CA-458	RUDP-CA-459	RUDP-CA-460	RUDP-CA-461	RUDP-CA-463	RUDP-CA-464	RUDP-CA-465	RUDP-CA-466	RUDP-CA-46/	KUDF-CA-408			ZHONGHENG	Checked By Engineer Dhirondra Vadav



Monthly Progress Report

Regional Urban Development Project (RUDP)

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			C	ontract No:- RU	ropolitan DP/ICB/B	RT-02		
			Su	mmary Sheet Of N	Ionthly Test	Report		November
							Month Year	2019
						-	Type of Material	Brick
La . Ref		Testing Date	Location of Sample	Source of Brick	Name of Brick	Water Absorption of Brick(%)	Strength of Brick(N/mm ²)	Remarks
0		1-Nov-19	T3L10F	Dadarbairya	ACC	13.50	15.11	
	46	1-Nov-19	N-38	Dadarbairya	ACC	14.74	15.98	
-	48	2-Nov-19	T3L19F	Dadarbairya	ACC	13.53	13.78	
_	49	2-Nov-19	T3L10	Dadarbairya	ACC	12.32	14.75	
_	50	3-Nov-19	T3L10A	Dadarbairya	ACC	13.35	14.47 15.40	
_	51	3-Nov-19	T3L19F	Dadarbairya	ACC	11.55	13.27	
_	52	4-Nov-19	N-38	Dadarbairya	ACC	13.07	14.96	
8	53	5-Nov-19	T3L10	Dadarbairya	ACC	12.42	13.11	
8	54	6-Nov-19	N-38	Dadarbairya	ACC	14.52 14.86	13.72	
0 8	55	6-Nov-19	T3L10A	Dadarbairya	ACC	14.86	14.79	
-	56	7-Nov-19	T3L10	Dadarbairya	ACC	12.93	13.12	
_	357	7-Nov-19	N-38	Dadarbairya	ACC	13.90	14.08	
-	358	8-Nov-19	T3L Trunk Line	Dadarbairya Dadarbairya	Acc	13.82	14.57	
	359	8-Nov-19	T3L10A		ACC	14.33	13.26	
-	360	9-Nov-19	T3L10	Dadarbairya Dadarbairya	ACC	14.25	13.63	
-	361	9-Nov-19	T3L19F T3L10A	Dadarbairya	ACC	13.90	14.76	
-	862	10-Nov-19	N-38	Dadarbairya	ACC	12.97	14.29	
-	863	10-Nov-19	N-38	Dadarbairya	Anand	14.90	13.81	
-	864	11-Nov-19 11-Nov-19	T3L10	Dadarbairya	Anand	14.31	13.78	
-	866	12-Nov-19	T3L10A	Dadarbairya	Anand	16.75	14.37	
_	867	13-Nov-19	N-38	Dadarbairya	Anand	15.11	14.31	
	868	14-Nov-19	T3L19F	Dadarbairya	Anand	13.12	14.43	
	869	15-Nov-19	T3L10	Dadarbairya	ACC	12.66	14.51	
	870	16-Nov-19	T3L10A	Dadarbairya	ACC	14.24	14.73	
	871	17-Nov-19	N-38	Dadarbairya	ACC	13.90	14.28	
27	872	17-Nov-19	T3L19F	Dadarbairya	ACC	15.48	12.51	
28	873	18-Nov-19	T3L10	Dadarbairya	ACC	13.14	12.01	
29	874	19-Nov-19	N-38	Dadarbairya	ACC	15.35	14.26	
30	875	20-Nov-19	T3L19F	Dadarbairya	ACC	11.87	14.31	
	876	21-Nov-19	T3L10	Dadarbairya Dadarbairya	Anand	13.96	12.60	
	877	22-Nov-19	N-38	Dadarbairya	Anand	15.11	13.01	
33	878	22-Nov-19	N-38 Sp. Limit	Dadarbanya	Ananu	<20%	>8 to 10 N/mm	2
omm	ents:-					statity (sultant	
_	_	(STION	Contractor		-	NG DESIGN AUTHORITY (JRE WITH B.N.
HONG	SHENG	CONSTRUCTION	I GROUP INTERNATIO	NAL ENGINEERING CO	CONSUL	TANCY PVT. LTD AND PL	US ENGINEERS & ARCH ANDU, NEPAL	IITECTS (P) LTD
Check	ked By		Contra	mitted By act Manager ra Kr. Thakur		Verified By Deert Qty Surveyor/CSE Mandal/Rajan Shrestha	Team	ved By Leader Chand



			c	Biratnagar Met Contract No:- RU	DP/ICB/I	BRT-02		
			<u>Si</u>	ummary Sheet Of N	Ionthly Tes	t Report	Month Year Type of Material	Novembe 2019 Brick
S.N.	Lab Ref.N	Testing Date	Location of Sample	Source of Brick	Name of Brick	Water Absorption of Brick(%)	Strength of Brick(N/mm ²)	Remark
	0.	23-Nov-19	T3L10	Dadarbairya	Anand	11.50	14.86	
34	879 880	23-Nov-19 24-Nov-19	T3L10A	Dadarbairya	Anand	11.36	14.95	
35 36	881	24-Nov-19 25-Nov-19	N-38	Dadarbairya	ACC	12.03	15.43	
37	882	26-Nov-19	T3L19F	Dadarbairya	ACC	11.24	12.46	
38	883	26-Nov-19	T3L10	Dadarbairya	ACC	14.03	12.48	
	-							
			Sp. Limit			<20%	>8 to 10 N/mm ²	
Com	nments	2				WINY (P) U	1	
		1	Contractor			Cons	sultant	
zно	NGHEN	S CONSTRUCTION	N GROUP INTERNATION	IAL ENGINEERING CO.	BUILDIN CONSULT	G DESIGN AUTHORITY (P ANCY PVT. LTD AND PLU KATHMA) LTDIN JOINT VENTU S ENGINEERS & ARCHI NDU, NEPAL	RE WITH B.M TECTS (P) LT
			W W W	200		* Biratnar		
E	Ecked By ngineer endra Yao	av	Contrac	hitted By tt Manager a Kr. Thakur		Verified By tr (tty Surveyor/CSE landal/Rajan Shrestha	Approv Team La Giresh C	eader



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			REGION	Bi	ratnagar Me ontract No:- RI	tropolitan JDP/ICB/Bl	City RT-02	ROJEC			
				Summar	y Sheet of Con	crete Cube	l est Report		2.00	Nove	-
								Month		20	
						-	T	Year		Conc.	
-							Date of T	pe of Material	Stranoth	N/mm2	
.N.	Location	Lab Ref.no.	Type of Cement	Brand of Cement	Source of Sand+Agg.	Date of Casting	7 Days	28 Days	7 Days	28 Days	Concrete Grade
1	R-3 (Telecom)	RUDP-2663	Shalimar Gold	OPC	Chisang Khola	4-Oct-19	11-Oct-19	1-Nov-19		22.58	M20
2	R-2	RUDP-2664	Shalimar Gold	OPC	Chisang Khola	4-Oct-19	11-Oct-19	1-Nov-19		22.18	M20
3	Judi yard	RUDP-2665	Shalimar Gold	OPC	Chisang Khola	4-Oct-19	11-Oct-19	1-Nov-19		23.27	M20
4	R-4	RUDP-2666	Shalimar Gold	OPC	Chisang Khola	5-Oct-19	12-Oct-19	2-Nov-19 2-Nov-19		17.14	M15 M20
5	R-8	RUDP-2667	Shalimar Gold	OPC	Chisang Khola	5-Oct-19 15-Oct-19	12-Oct-19 22-Oct-19	12-Nov-19		28.20	M20 M25
6	Madhumara-yard	RUDP-2668	Shalimar Gold Shalimar Gold	OPC	Chisang Khola Chisang Khola	15-Oct-19	22-Oct-19 22-Oct-19	12-Nov-19		27.00	M25
7	Madhumara-yard	RUDP-2669 RUDP-2670	Shalimar Gold	OPC OPC	Chisang Khola	16-Oct-19	23-Oct-19	13-Nov-19		22.95	M20
8	R-4	RUDP-2671	Shalimar Gold	OPC	Chisang Khola	16-Oct-19	23-Oct-19	13-Nov-19		22.66	M20
9	T3L10C R-8	RUDP-2672	Shalimar Gold	OPC	Chisang Khola	17-Oct-19	24-Oct-19	14-Nov-19		23.50	M20
11	R-41	RUDP-2673	Shalimar Gold	OPC	Chisang Khola	17-Oct-19	24-Oct-19	14-Nov-19		23.03	M20
12	R-7	RUDP-2674	Ambe Hi-tech	OPC	Chisang Khola	18-Oct-19	25-Oct-19	15-Nov-19		23.77	M20
13	R-6	RUDP-2675	Ambe Hi-tech	OPC	Chisang Khola	19-Oct-19	26-Oct-19	16-Nov-19		22,41	M20
14	Judi yard	RUDP-2676	Ambe Hi-tech	OPC	Chisang Khola	19-Oct-19	26-Oct-19	16-Nov-19		22.78	M20
15	R-4	RUDP-2677	Ambe Hi-tech	OPC	Chisang Khola	19-Oct-19	26-Oct-19	16-Nov-19		22.73	M20
16	N-38	RUDP-2678	Ambe Hi-tech	OPC	Chisang Khola	25-Oct-19	1-Nov-19	22-Nov-19	15.60	23.36	M20
17	T3L19F	RUDP-2679	Ambe Hi-tech	OPC	Chisang Khola	25-Oct-19	1-Nov-19	22-Nov-19	16.47	23.88	M20
18	T3L10A	RUDP-2680	Ambe Hi-tech	OPC	Chisang Khola	26-Oct-19	2-Nov-19	23-Nov-19	14.84	23.18	M20
19	R-12	RUDP-2681	Ambe Hi-tech	OPC	Chisang Khola	26-Oct-19	2-Nov-19	23-Nov-19	15.57	23.28	M20
20	R-2	RUDP-2682	Ambe Hi-tech	OPC	Chisang Khola	26-Oct-19	2-Nov-19	23-Nov-19	14.31	23.13	M20
21	R-7	RUDP-2683	Ambe Hi-tech	OPC	Chisang Khola	27-Oct-19	3-Nov-19	24-Nov-19	15.43	23.43	M20
22	R-28	RUDP-2684	Ambe Hi-tech	OPC	Chisang Khola	28-Oct-19	4-Nov-19	25-Nov-19	15.57	23,43	M20 M20
23	R-44	RUDP-2685	Ambe Hi-tech	OPC	Chisang Khola	29-Oct-19	5-Nov-19	26-Nov-19 26-Nov-19	15.65	21.71 24.47	M20 M20
24	T3L19F	RUDP-2686	Ambe Hi-tech Ambe Hi-tech	OPC	Chisang Khola Chisang Khola	29-Oct-19 30-Oct-19	5-Nov-19 6-Nov-19	27-Nov-19	12.68	17.14	M15
25	R-4	RUDP-2687 RUDP-2688	Ambe Hi-tech	OPC OPC	Chisang Khola	30-Oct-19 30-Oct-19	6-Nov-19	27-Nov-19 27-Nov-19	15.43	22.73	M20
26 27	R-40 R-7	RUDP-2689	Ambe Hi-tech	OPC	Chisang Khola	30-Oct-19	6-Nov-19	27-Nov-19	15.80	22.51	M20
28	N-38	RUDP-2690	Ambe Hi-tech	OPC	Chisang Khola	1-Nov-19	8-Nov-19	29-Nov-19	14.53	23.18	M20
29	R-44	RUDP-2691	Ambe Hi-tech	OPC	Chisang Khola	2-Nov-19	9-Nov-19	30-Nov-19	14.98	22.73	M20
30	R-4	RUDP-2692	Ambe Hi-tech	OPC	Chisang Khola	2-Nov-19	9-Nov-19	30-Nov-19	12.31	16.54	M15
31	T3L19F	RUDP-2693	Ambe Hi-tech	OPC	Chisang Khola	4-Nov-19	11-Nov-19	2-Dec-19	14.38		M20
32	T3L10	RUDP-2694	Ambe Hi-tech	OPC	Chisang Khola	6-Nov-19	13-Nov-19	4-Dec-19	14.68		M20
33	T319F	RUDP-2695	Ambe Hi-tech	OPC	Chisang Khola	6-Nov-19	13-Nov-19	4-Dec-19	15.80		M20
34	R-28	RUDP-2696	Ambe Hi-tech	OPC	Chisang Khola	8-Nov-19	15-Nov-19	6-Dec-19	17.00		M20
35	N-38	RUDP-2697	Ambe Hi-tech	OPC	Chisang Khola	11-Nov-19	18-Nov-19	9-Dec-19	15.58		M20
36	R-44	RUDP-2698	Ambe Hi-tech	OPC	Chisang Khola	12-Nov-19	19-Nov-19	10-Dec-19	15.21		M20
37	R-7	RUDP-2699	Ambe Hi-tech	OPC	Chisang Khola	12-Nov-19	19-Nov-19	10-Dec-19 12-Dec-19	17.15		M20 M20
38	R-4	RUDP-2700 RUDP-2701	Ambe Hi-tech Ambe Hi-tech	OPC	Chisang Khola Chisang Khola	14-Nov-19 14-Nov-19	21-Nov-19 21-Nov-19	12-Dec-19	15.65		M20
39 40	R-44	RUDP-2701 RUDP-2702	Ambe Hi-tech	OPC OPC	Chisang Khola	14-Nov-19	21-Nov-19 21-Nov-19	12-Dec-19	15.80		M20
40	R-2		Ambe Hi-tech	OPC	Chisang Khola	16-Nov-19	23-Nov-19	14-Dec-19	17.90		M20
-	T3L19F	RUDP-2703	Ambe Hi-tech	OPC	Chisang Khola	16-Nov-19	23-Nov-19	14-Dec-19	15.72		M20
42 43	R-12 R-40	RUDP-2704 RUDP-2705	Ambe Hi-tech	OPC	Chisang Khola	16-Nov-19	23-Nov-19 23-Nov-19	14-Dec-19	14.98		M20
44	T3L10	RUDP-2706	Ambe Hi-tech	OPC	Chisang Khola	18-Nov-19	25-Nov-19	16-Dec-19	14.90		M20
45	T3L19F	RUDP-2707	Ambe Hi-tech	OPC	Chisang Khola	18-Nov-19	25-Nov-19	16-Dec-19	15.20		M20
46	R-4	RUDP-2708	Ambe Hi-tech	OPC	Chisang Khola	18-Nov-19	25-Nov-19	16-Dec-19	16.32		M20
47	R-4	RUDP-2709	Ambe Hi-tech	OPC	Chisang Khola	18-Nov-19	25-Nov-19	16-Dec-19	12.46		M15
		Contra	ctor				C	onsultant			
I			TRUCTION C				UTHORITY LTD AND ETD, KATH	PLUS ENGI	NEERS &		
LUU L	cked By		Submi	tted By	H Verified By		# Bira	may	G	Approved I	 3y
	ineer			Manager	Expert Qty Su	rveyor/CSE				Team Lead	
110.17	rendra Yadav			K.Thakur	H.K. Mandal/R					Giresh Chan	



				Bi	RBAN DE ratnagar Me ontract No:- R	etropolitan UDP/ICB/B	City RT-02				
				Summan	ry Sheet of Con	crete Cube	Test Report				
						[Month		Nove	mber
						[Year		20	
_	1					-		pe of Material		Conc.	
5.N.	Location	Lab Ref.no.	Type of Cement	Brand of Cement	Source of Sand+Agg.	Date of Casting	Date of 7 7 Days	28 Days	Strength 7 Days	28 Days	Concrete Grade
48	R-12	RUDP-2710	Ambe Hi-tech	OPC	Chisang Khola	18-Nov-19	25-Nov-19	16-Dec-19	15.65		M20
49	Koshi yard	RUDP-2711	Ambe Hi-tech	OPC	Chisang Khola	19-Nov-19	26-Nov-19	17-Dec-19 17-Dec-19	17.74		M20 M20
50	R-28	RUDP-2712 RUDP-2713	Ambe Hi-tech Ambe Hi-tech	OPC OPC	Chisang Khola Chisang Khola	19-Nov-19 21-Nov-19	26-Nov-19 28-Nov-19	19-Dec-19	15.87		M20
51	R-7 N-38	RUDP-2714	Ambe Hi-tech	OPC	Chisang Khola	21-Nov-19	28-Nov-19	19-Dec-19	15.80		M20
53	T3L10A	RUDP-2715	Ambe Hi-tech	OPC	Chisang Khola	21-Nov-19	28-Nov-19	19-Dec-19	15.35		M20
54	R-12	RUDP-2716	Ambe Hi-tech	OPC	Chisang Khola	21-Nov-19	28-Nov-19	19-Dec-19	15.20		M20
55	R-12	RUDP-2717	Ambe Hi-tech	OPC	Chisang Khola	22-Nov-19	29-Nov-19	20-Dec-19	14.53		M20
56	Koshi yard	RUDP-2718	Ambe Hi-tech	OPC	Chisang Khola	22-Nov-19	29-Nov-19	20-Dec-19	16.70		M20
57	R-2	RUDP-2719	Ambe Hi-tech	OPC	Chisang Khola	22-Nov-19	29-Nov-19	20-Dec-19	16.47		M20
58	R-44	RUDP-2720	Ambe Hi-tech	OPC	Chisang Khola	22-Nov-19	29-Nov-19	20-Dec-19 20-Dec-19	16.10		M20 M20
59	R-12	RUDP-2721	Ambe Hi-tech Ambe Hi-tech	OPC OPC	Chisang Khola Chisang Khola	22-Nov-19 23-Nov-19	29-Nov-19 30-Nov-19	20-Dec-19 21-Dec-19	14.75		M20 M20
60	R-4 Koshi yard	RUDP-2722 RUDP-2723	Ambe Hi-tech	OPC	Chisang Khola	23-Nov-19 23-Nov-19	30-Nov-19 30-Nov-19	21-Dec-19 21-Dec-19	16.17	-	M20
62	T3L19F	RUDP-2724	Ambe Hi-tech	OPC	Chisang Khola	23-Nov-19	30-Nov-19	21-Dec-19	14.61		M20
63	R-12	RUDP-2725	Ambe Hi-tech	OPC	Chisang Khola	23-Nov-19	30-Nov-19	21-Dec-19	14.46		M20
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-											
		Contra						onsultant			
	1	N GROUP INTERNA					10				
IN	ZHONGHE	NG CONST	RUCTION O	GROUP CO. LTD	BUILDING CONSULT	DESIGN A TANCY PVT	LTD AND LTD, KATI	PLUS ENGI	NEERS &	ARCHITI	ITH B.I
Che	eked By	*	Submi	tted By	Verified By		Bira Bira	Inagat		Approved I	 3y



Page 112 of 128

REGIONAL URBAN DEVELOPMENT PROJECT Biratnagar Metropolitan City

Contract No:- RUDP/ICB/BRT-02

Summary Sheet of Mortar Test Report

								Month			ember
						1 (a a a 2)		Year			019
							Descri	ption of Samp			k Wall
	Logitica	Lab	Turna of Comment	Brand of	Source of Sand	Date of	Date of	Testing	Strength,		Туре о
S.N.	Location	Ref.no.	Type of Cement	Cement	Source of Sand	Casting	7 Days	28 Days	7 Days	28 Days	Grade
1	T3L10C	MR-2302	Shalimar Gold	OPC	Chisang Khola	17-Oct-19	24-Oct-19	14-Nov-19		8.94	7.5
2	R-8	MR-2303	Shalimar Gold	OPC	Chisang Khola	17-Oct-19	24-Oct-19	14-Nov-19		9.50	7.5
3	R-3	MR-2304	Shalimar Gold	OPC	Chisang Khola	19-Oct-19	26-Oct-19	16-Nov-19		9.36	7.5
4	T3L10C	MR-2305	Shalimar Gold	OPC	Chisang Khola	21-Oct-19	28-Oct-19	18-Nov-19		8.66	7.5
5	R-3	MR-2306	Shalimar Gold	OPC	Chisang Khola	21-Oct-19	28-Oct-19	18-Nov-19		9.36	7.5
6	R-8	MR-2307	Shalimar Gold	OPC	Chisang Khola	21-Oct-19	28-Oct-19	18-Nov-19	-	9.50	7.5
7	T3L10C	MR-2308	Shalimar Gold	OPC	Chisang Khola	22-Oct-19	29-Oct-19	19-Nov-19		9.92	7.5
8	N-38	MR-2309	Shalimar Gold	OPC	Chisang Khola	25-Oct-19	1-Nov-19	22-Nov-19	6.71	9.92	7.5
9	R-3	MR-2310	Shalimar Gold	OPC	Chisang Khola	25-Oct-19	1-Nov-19	22-Nov-19	6.71	8.94	7.5
10	T3L19F	MR-2311	Ambe Hi-tech	OPC	Chisang Khola	25-Oct-19	1-Nov-19	22-Nov-19	6.99	8.52	7.5
11	T3L10	MR-2312	Ambe Hi-tech	OPC	Chisang Khola	25-Oct-19	1-Nov-19	22-Nov-19	6.99	8.94	7.5
12	T3L10	MR-2313	Ambe Hi-tech	OPC	Chisang Khola	25-Oct-19	1-Nov-19	22-Nov-19	7.13	8.80	7.5
13	T3L10A	MR-2314	Ambe Hi-tech	OPC	Chisang Khola	26-Oct-19	2-Nov-19	23-Nov-19	7.13	8.94	7.5
14	R-3	MR-2315	Ambe Hi-tech	OPC	Chisang Khola	27-Oct-19	3-Nov-19	24-Nov-19	7.41	9.64	7.5
15	T3L19F	MR-2316	Ambe Hi-tech	OPC	Chisang Khola	27-Oct-19	3-Nov-19	24-Nov-19	6.29	7.69	7.5
16	R-12	MR-2317	Ambe Hi-tech	OPC	Chisang Khola	28-Oct-19	4-Nov-19	25-Nov-19	6.71	8.38	7.5
17	R-3	MR-2318	Ambe Hi-tech	OPC	Chisang Khola	28-Oct-19	4-Nov-19	25-Nov-19	7.13	9.64	7.5
18	N-38	MR-2319	Ambe Hi-tech	OPC	Chisang Khola	28-Oct-19	4-Nov-19	25-Nov-19	6.71	8.80	7.5
19	R-12	MR-2320	Ambe Hi-tech	OPC	Chisang Khola	29-Oct-19	5-Nov-19	26-Nov-19	7.13	9.22	7.5
20	R-12	MR-2321	Ambe Hi-tech	OPC	Chisang Khola	29-Oct-19	5-Nov-19	26-Nov-19	7.27	9.08	7.5
21	T3L10	MR-2322	Ambe Hi-tech	OPC	Chisang Khola	29-Oct-19	5-Nov-19	26-Nov-19	6.99	9.78	7.5
22	R-12	MR-2323	Ambe Hi-tech	OPC	Chisang Khola	30-Oct-19	6-Nov-19	27-Nov-19	6.85	8.80	7.5
23	T3L19F	MR-2324	Ambe Hi-tech	OPC	Chisang Khola	31-Oct-19	7-Nov-19	28-Nov-19	7.27	8.80	7.5
24	T3L19F	MR-2325	Ambe Hi-tech	OPC	Chisang Khola	31-Oct-19	7-Nov-19	28-Nov-19	6.57	9.92	7.5
25	N-38	MR-2326	Ambe Hi-tech	OPC	Chisang Khola	31-Oct-19	7-Nov-19	28-Nov-19	7.27 6.57	9.78	7.5
26	T3L10F	MR-2327	Ambe Hi-tech	OPC	Chisang Khola	31-Oct-19	7-Nov-19	28-Nov-19 28-Nov-19		9.36	7.5
27	T3L10	MR-2328	Ambe Hi-tech	OPC	Chisang Khola	31-Oct-19 31-Oct-19	7-Nov-19 7-Nov-19	28-Nov-19	9.13 6.57	8.94	7.5
28	N-38	MR-2329	Ambe Hi-tech	OPC OPC	Chisang Khola Chisang Khola	31-Oct-19 31-Oct-19	7-Nov-19	28-Nov-19	7.13	9.50	7.5
29 30	R-12	MR-2330	Ambe Hi-tech	OPC	Chisang Khola	1-Nov-19	8-Nov-19	29-Nov-19	6.85	9.78	7.5
31	T3L10A N-38	MR-2331 MR-2332		OPC	Chisang Khola	1-Nov-19	8-Nov-19	29-Nov-19	6.29	9.08	7.5
32	T3L19F	MR-2332 MR-2333	Ambe Hi-tech	OPC	Chisang Khola	2-Nov-19	9-Nov-19	30-Nov-19	6.71	9.08	7.5
		Contract					Consul	tant			
		Contract	.01		PUILD	ING DESIG			TDIN	LIOIN	T
7			UCTION GE	OUP	VENTURE		0.	- 'A \			
			NEERING CO			ERS & AR	CHITECT	S(P) LTD,			
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Check	ked By		Submitt	ed By	Verified By				A	prove	d By
Engin			Contract N		Expert Qty Su	irvevor/CSF				eam Le	
	ndra Yadav		Rabindra Kr	0	H.K. Mandal/R					iresh Cl	
Dhiron		and the second sec	naomura N	manul	A Manual/K	ajun om coulie			0	. con C	and



		REGI	H	Biratnag Contract	DEVELO ar Metropol No:- RUDP/IC heet of Mortar	itan City B/BRT-02		JECT			
						[Month		Nove	ember
								Year		20	019
							Descrip	tion of Samp	le	Bric	k Wall
							Date of	Testing	Strength,	N/mm2	
S.N.	Location	Lab Ref.no.	Type of Cement	Brand of Cement	Source of Sand	Date of Casting	7 Days	28 Days	7 Days	28 Days	Type o Grade
22	T3L19F	MR-2334	Ambe Hi-tech	OPC	Chisang Khola	3-Nov-19	10-Nov-19	1-Dec-19	6.57		7.5
33	R-12	MR-2335	Ambe Hi-tech	OPC	Chisang Khola	3-Nov-19	10-Nov-19	1-Dec-19	6.71		7.5
35	R-12 R-12	MR-2336	Ambe Hi-tech	OPC	Chisang Khola	3-Nov-19	10-Nov-19	1-Dec-19	6.15		7.5
35	T3L10A	MR-2337	Ambe Hi-tech	OPC	Chisang Khola	4-Nov-19	11-Nov-19	2-Dec-19	6.29		7.5
37	T3L10A	MR-2338	Ambe Hi-tech	OPC	Chisang Khola	4-Nov-19	11-Nov-19	2-Dec-19	6.43		7.5
38	T3L19F	MR-2339	Ambe Hi-tech	OPC	Chisang Khola	5-Nov-19	12-Nov-19	3-Dec-19	7.13		7.5
39	T3L19F	MR-2340	Ambe Hi-tech	OPC	Chisang Khola	6-Nov-19	13-Nov-19	4-Dec-19	6.15		7.5
40	T3L19F	MR-2341	Ambe Hi-tech	OPC	Chisang Khola	8-Nov-19	15-Nov-19	6-Dec-19	6.01		7.5
40	T3L10	MR-2342	Ambe Hi-tech	OPC	Chisang Khola	8-Nov-19	15-Nov-19	6-Dec-19	6.85		7.5
42	T3L10	MR-2343	Ambe Hi-tech	OPC	Chisang Khola	8-Nov-19	15-Nov-19	6-Dec-19	6.43		7.5
43	T3L19F	MR-2344	Ambe Hi-tech	OPC	Chisang Khola	13-Nov-19	20-Nov-19	11-Dec-19	7.41		7.5
44	N-38	MR-2345	Ambe Hi-tech	OPC	Chisang Khola	14-Nov-19	21-Nov-19	12-Dec-19	6.29		7.5
45	T3LIOA	MR-2346	Ambe Hi-tech	OPC	Chisang Khola	16-Nov-19	23-Nov-19	14-Dec-19	6.43		7.5
46	T3L19F	MR-2347	Ambe Hi-tech	OPC	Chisang Khola	19-Nov-19	26-Nov-19	17-Dec-19	6.57		7.5
47	N-38	MR-2348	Ambe Hi-tech	OPC	Chisang Khola	21-Nov-19	28-Nov-19	19-Dec-19	6.43		7.5
48	T3L19F	MR-2349	Ambe Hi-tech	OPC	Chisang Khola	23-Nov-19	30-Nov-19	21-Dec-19	6.85		7.5
49	N-38	MR-2350	Ambe Hi-tech	OPC	Chisang Khola	23-Nov-19	30-Nov-19	21-Dec-19	7.41		7.5
50	T3L10A	MR-2351	Ambe Hi-tech	OPC	Chisang Khola	23-Nov-19	30-Nov-19	21-Dec-19	6.71		7.5
									-		-
_					-		(P) Consul	tant			-
	HONGHEN	Contrac		ROUP	BUILD	ING DESIG	GN AUTHO	DRITY (P)	LTD II T. LT	N JOI D ANI	NT D PLU
			INEERING C		ENGINI	CERS & AR	CHITECT NEP	S (P) LTD,	KATH	IMAN	DU,
Cha	26 Ked By	and the II	Submit	ted By	Verified By	18 *	Biratnagar		A	pprov	ed By
Engi			Contract I Rabindra K	Manager	Expert Qty S H.K. Mandal/F				Т	eam L Giresh (eader



ANNEX-4: SOCIAL & ENVIRONMENT SAFEGUARD

Monitoring Formats Attached – November 2019

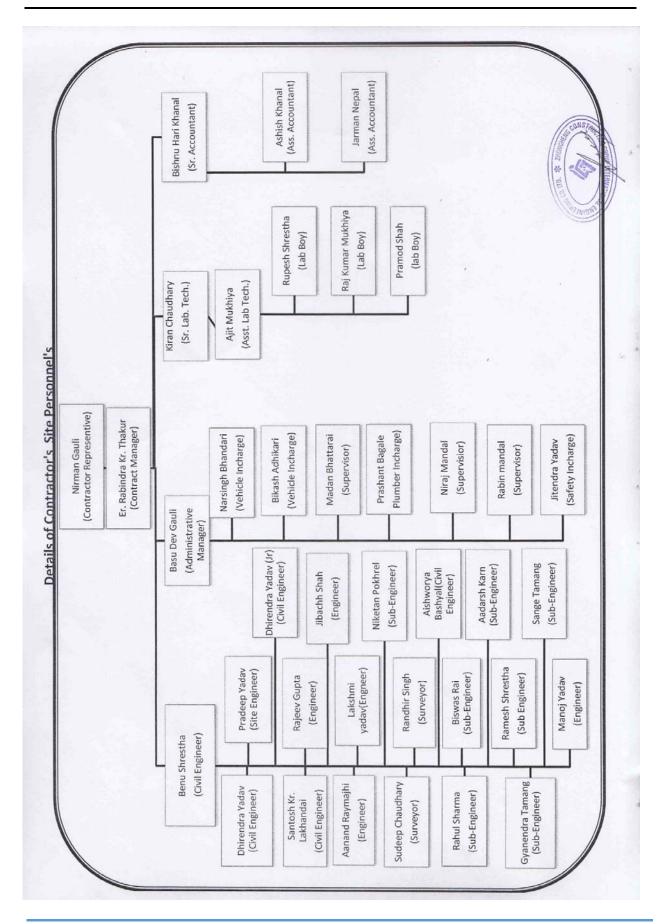


.N	Equipment Type and Characteristics	ZHONGHENG CONSTRUCTION GROUP
1	Excavator	1
2	Backhoe Loader	9
3	Asphalt plant of adequate capacity	1
4	Asphalt pavers	1
5	Vibrating roller	5
6	Pneumatic tyre roller 8 to 10 ton	1
7	Smooth wheeled roller 8 to 10 ton	2
8	Tipper	4
9	Crane	1
10	Water Tank	4
11	Grader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

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









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

Subproject Road : -RUDP/ICB/BRT/2

Month/Year: November. 2019

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

Contract Package: RUDP/ICB/BRT/2

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



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

Name of Sub Project: RUDP/ Biratnagar

Contract Package: RUDP/ICB/BRT/02

Sub-project Component: - Road Lanes Improvement / Sewerage Drainage Month:November. 2019

Checklist	
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SN	Activity	Description/Present Status (Compliance/Partially Compliance/Non Compliance	Remarks/ Corrective actions for Non- Compliance
1 1.1	Training Health, Safety and EMP trainings and awareness	Yes	
1.2	Others awareness and skill trainings	No	
2 2.1	Occupational health and safety Insurance for workers	Yes	
2.2	Personal Protective Equipment (PPE) provided to labors and is using (helmet, facemasks, muffles, gloves, boots, jacket, goggles etc.)	Daily Provided	
2.3	Public notification Safety and warning signs and informative signboards in working sites for work safety	Yes Provided	
2.4	Use of barricades, caution tape and flag	Daily Used	
3	Campsite management	Pichra, Judi, Shanti	
3.1	Location	Chowk, Rani	
3.2	First aid facilities available at camp and worksites '	Yes	
3.3	Drinking water supply and sanitation facilities/ pit latrines	105	
3.4	Waste Disposal and Management facilities	Tap water/ Hand Pump Yes	
3.5	Type of fuel used for cooking	L.P.G	
4	Spoil and Construction material Management		
4.1	Cut and fill balance maintained or not, Reuse of spoil materials	Cut & Fill balance maintained	
4.2	Use of safe spoil disposal locations	Not Applicable	
4.3	Disturbance to Pedestrian and traffic movement	No any disturbance to pedestrians & traffic	



1.4	Use of private land and agreement with	movement	
3.15	land owners	Yes	
5	Air, Noise and Water Pollution	Water sprinkled by	
5.1	Dust emission and Noise pollution sites	tanker on such sites.	2-12-12-1-1-1-1-1-1-1-1-1-1-1-1-1-1-1-1
5.2	Water quality monitoring result and locations	ok	
5.3	Block age of natural drainages ,water logging, drain water discharge into farmland/risky areas	Not Applicable	
6	Quarrying of construction materials and Plants Installment		
6.1	Quarry/borrow operation sites	Not Applicable	
6.2	Crusher plant and Asphalt plant operation restoration	Asphalt Plant	
7	Impact/Disruption of Private properties		
7.1	Building structures	Not Applicable	
7.2	Other utilities	Not Applicable	
8	Impact/disruption of public infrastructures		S
8.1	Irrigation canal	Not Applicable	
8.2	Water supply pipe	Not Applicable	1 N. 19 14 14 15
8.3	Access road	Not Applicable	
8.4	Electric/Telephone pole	Not Applicable	
8.5	Others	Not Applicable	1
9	Sites for cultural and religious values	Hot Applicable	
9.1	Cultural and religious sensitive spots (if any)	Not Applicable	
10	Forest and vegetation		
10.1	Number of trees removal	00	
10.2	No of tree plantation (Roadside)	Not Applicable	
11	Accident cases and records	No any records	
12 12.1	Employment to local people Men and women	Yes, both men and women	
12.2	Child labor (if any)	No	
13	Establishment of Safeguard desk and meeting	Yes	
14	Grievances from local people and addressed	Yes	





		LABOUR	COMPO	Biratnagar, Nepal LABOUR DATA SUMMARY COMPOSITION	Biratnagar,Nepal DUR DATA SUMM	Project Implementation Unit (PIU) Biratnagar,Nepal LABOUR DATA SUMMARY MPOSITION	ETHNIC COMPOSITION	NOITION	
LABOUR CLASS	SKILLED	UNSKILLED	MALE	FEMALE	ITAUNAL	DALIT	MUSLIM	MADHESI	BRAHMIN/CHHETRI
LOCAL	20	62	82	0	0	0	0	82	0
NON LOCAL	53	177	210	20	55	29	14	132	0
INDIAN	7	27	34	0	0	0	17	17	0
TOTAL	80	266	326	20	55	29	31	231	0



Page **121** of **128** elopment Project (RUDP)

vember 2019	BPAUMIN/CUNETRI																																			
Month/Year: November 2019	ETHNIC COMPOSITION	MAUHEN	10				-			11				15				25			10	67			16				13				12			
	ETHNIC COL	MUSUIM																5																		
		DAUT												3																						
(40		IANJATI	15											6				11	**																	
Regional Urban Development Project (RUDP) Project Implementation Unit (PIU) Biratingør, Nepal LABOUR DATA	COMPOSITION	FEMALE	20																																	
rban Development Pro ct Implementation Un Biratnagar,Nepal LABOUR DATA	COMF	MALE	5				7				11				17		C		Th			19			16				13				12			
Regional Ur Projec	LABOUR	UNSKILLED	25				5				80				77				15			15			12				6				6			1
	LAB	SKILLED			25		2	4			8	11			0	27			10	41		4		19	4			16	4			13	8			12
	TYPES OF WORKERS		LOCAL	INDIAN	TOTAL	LOCAL	NON LOCAL	INDIAN	IOIM.	LOCAL	NON LOCAL	TOTAL		LOCAL	NON LOCAL	TOTAL		LOCAL	NON LOCAL	TOTAL		LOCAL	NON LOCAL	TOTAL	1 OCAL	NON LOCAL	INDIAN	TOTAL	LOCAL	NON LOCAL	INDIAN	TOTAL	LOCAL	NON LOCAL	INDIAN	TOTAL
	TYPES OF WORK			Brooming			Ween Hole				Drain				Production				Production				Drain			1	Drain Kise			House Connection				11-110 Canadian	House connection	
	IOCATION			R2			ca	ž			TLIDA				Madhumara	Yard			Koshi Yard				812				B3-3			ca	2				R46	
	C NO	0000		-1			r	7			6		-		4		-		5	,	-		9				2			c	10				б.	



	TYPES OF WORK TYPES OF WORKERS		LOCAL	House Connection NON LC	TOTAL	LOCAL	Drain	TOTAL	 IUCAL	Drain Drain INDIAN	TOTAL	LOCAL	Drain NoN LOCAL	TOTAL	TOCAL	Kerbstone NON LOCAL	TOTAL	10CM	FOOR FOOR	Prime INDIA	TOTAL	IDCAL	NON LOCAL	RUL DIGIN INDIAN	TOI	TOCAL	Z	Sewer Line INDL	101	100	Sewer Manhole & Inlet NON U	Rising	101
		SKILLED	AL 3	DCAL	AL 11		DCAL 5	AL 17	AL		AL 19		DCAL 4	AL 17		OCAL >	AL 20	VI	AL 3		AL 6	AL	OCAL 4		AL 17	AL	OCAL 2	AN	AL 6	AL	OCAL 2		TAL 7
Regional L Proje	LABOUR	UNSKILLED	00				12			16			13			9			4	,			13				4				5		
Irban Development Pr ect Implementation Un Biratnagar,Nepal LABOUR DATA	COMI	MALE	11				17			19			1/		00	50			9	,			17				9				7		
Regional Urban Development Project (RUDP) Project Implementation Unit (PIU) Biratnagar Nepal LABOUR DATA	COMPOSITION	FEMALE																															
(dout)		JANJATI										2	0		10	24			1				2										
		DAUIT										4			2	-			3				5				2						
	ETHNIC COMPOSITION	MUSLIM								6									2														
Month/Year:	NOITION	MAURESI 11	-			10				10		00			5								10				4				1		
Month/Year: November 2019																																	



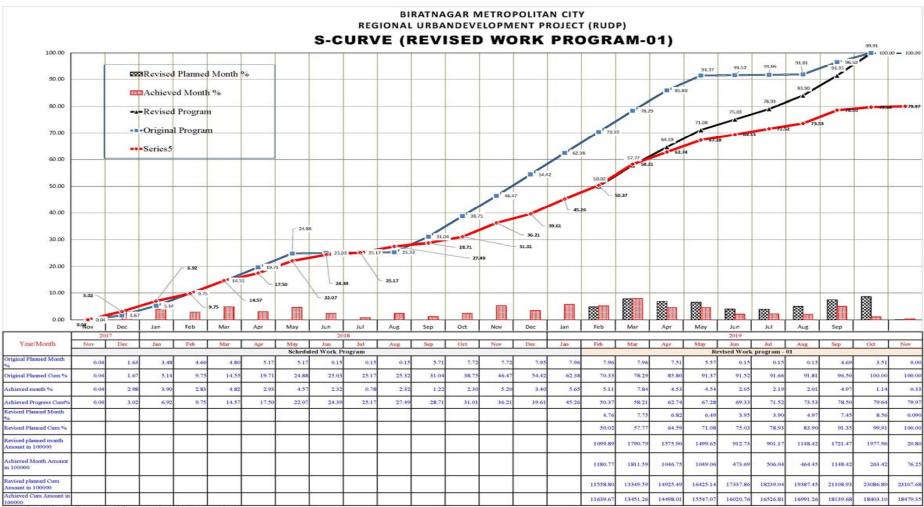
ovember 2019	Provinsie (Construction)	BRAHININ/ CHINELIKI														BRAHMIN/CHHETRI	0	0 0			HUGINE COLUMN
Month/Year: November 2019	MPOSITION	MADHESI	14				9			7		11			MPOSITION	181	82	132	1/	v (C)	SUBJICE TO AN ADDRESS OF THE SUBJECT
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		DAUT					5									DALIT	0	29	0	67	
(Ann		IANJATI					4									ITALNAL	0	55	0	8	
Regional Urban Development Project (NOUP) Project Implementation Unit (PIU) Biratnagar,Nepal LABOUR DATA	COMPOSITION	FEMALE													COMPOSITION	FEMALE	0	20	0	20	
rban Development Pl ct Implementation U Biratnaga r,Nepal LABOUR DATA	COMF	MALE		14			15			15		11			COMM	MALE	82	210	34	326	
Regional U Proje	LABOUR	UNSKILLED		10			10			11		6			anoavi	UNSKILLED	62	177	27	266	
	LAB	SKILLED		4	14		5	31		4	15	2			11	SKILLED	20	53	7	80	
	TYPES OF WORKERS		LOCAL.	NON LOCAL	TOTAL.		LOCAL NON LOCAL	INDIAN	 MON LOCAL	INDIAN	TOTAL	ICCAI	NON LOCAL	INDIAN	TOTAL	LABOUR CLASS	IDCAL	NON LO CAL	INDIAN	TOTAL	
	TYPES OF WORK			Tick Drain	(Gutter Drain)			Electrical Work		Asphalt				Kerbstone Laying							
	LOCATION			87	1			R2		R2				RIS	-						
	C NO	-		0,	1	-		20		21				22							



ANNEX-5: S-Curve

ATTACHED – November 2019





Note: Our Claim for Extension of Time remain valid as per contract.



Annex-6: Master Plan of RUDP Project





