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



July 2019
Biratnagar Metropolitan City (BMC), Nepal

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EXECUTIVE SUMMARY

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

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

1. PROJECT DESCRIPTION

1.1. INTRODUCTION/BACKGROUND

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

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

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



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

	General Features									
Name of Project	Regional Urban Development Project(RUDP)									
	Government of Nepal,									
Executing Agency	Ministry of Urban Development									
	Department of Urban Development and Building Construction (DUDBC)									
Implementing Agency	Biratnagar Metropolitan City, Biratnagar									
Funded By	Asian Development Bank & Government of Nepal									
Package	Construction and Completion of Sewerage, Drainage, Road, Footpath and Road furniture works									
Contract No.	RUDP/ICB/BRT/2									
Location	Biratnagar Metropolitan City, Biratnagar									
Consultant	Building Design Authority (P) LTD in Joint Venture With B.N. consultancy Pvt and PLUS Engineers and Architects (P) Ltd Kathmandu.									
Date of Sign of Design and Supervision Consulting Service	28th August 2017									
Date of Commencement of Design and Supervision Consulting Service	6th September 2017									
Date of Completion	5th September 2020									
Contractor	ZHONGHENG Construction Group International Engineering Co Ltd. Beijing, China.									
Date of Agreement Made	10 th October 2017									
Date of Commencement	2 nd November 2017									
Date of Completion	1 st November 2019									
Contract Amount including PS and VAT	NRs. 2,611,092,249.63									
Progress										
Road Rehabilitation (Asphalt)	47.97%									
Sewer Line	88.73%									
Storm Drain	100.00%									
Road Side Drain	105.11%									



	General Features									
Integrated Solid Waste Management (ISWM) Design	Inception Report as well as Stakeholder's Analysis, Communication Strategy and Consultation Plan for Integrated Solid Waste Management (ISWM) has already been submitted. Due to Socio Environment Problem, Progress of Integrated Solid Waste Management (ISWM) design has been hindered.									
	With respect to Revised Work Program-01: Planned: 78.93%, Actual: 71.52%; Lead (+) or Lag (-) by (-) 7.41% Lag									
Physical Progress up to date	Physical progress lagging due to start of monsoon, unavaibility of shut down for relocation of electrical poles by (Nepal Electricity Authority) NEA on time and shifting of telecom poles on time by (Nepal Telecom) NTC, etc.									
Financial Progress up to date (on the	In Percentage: 61.95%, In Figure: NRs. 1,617,499,379.94 (including VAT and PS) up to IPC – 10.									
basis of IPC forwarded for disbursement)	In Words: NRs. One Billion Six Hundred Seventeen Millions Four Hundred Ninety Nine Thousand Three Hundred Seventy Nine and Ninety Four Paisa Only.									

3. SUMMARY OF PROGRESS STATUS OF ALL MAJOR COMPONENTS

S.No	Description	Unit	BoQ Quantity	Progress up to date	Remaining	Progress Status expressed in (%)	Remarks
1	Sewer Line						
a	HDPE/RCC	m	20,082.00	17,818.50	2,263.50	88.73%	
b	Manhole	No.	685.00	549.00	136.00	80.15%	
c	Sewer Inlet	No.	1,010.00	595.00	415.00	58.91%	
d	House Connection	No.	3,784.00	1,307.00	2,477.00	34.54%	
2	Storm Water Dra	in					



S.No	Description	Unit	BoQ Quantity	Progress up to date	Remaining	Progress Status expressed in (%)	Remarks
a	RCC Drain	m	652.80	585.00	0.00	100.00%	Revised Length =585m
b	Piles	No.	132.00	138.00	0.00	100.00%	Exceeded 6 Nos. Piles.
3	Road						
a	Subgrade	m	73,860.00	45,509.41	28,350.59	61.62%	
b	Subbase	m	73,860.00	45,369.21	28,490.79	61.43%	
С	Base	m	73,860.00	39,575.22	34,284.78	53.58%	
d	Prime	m	73,860.00	35,431.14	38,428.86	47.97%	
e	Asphalt	m	73,860.00	35,431.14	38,428.86	47.97%	
4	Road Side Drain	m	26,050.00	27,382.19	(1,332.19)	105.11%	Exceeded quantity lengthwise, approval of VO-01 is under progress

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 are in progress. Almost all the lines were completed except some of T3 secondary sewer lines. Details of proposed sewer lines are as below: -



Table 1: PROPOSED ALL MAJOR COMPONENTS OF THE PROJECT

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



Table: - 2 PHYSICAL PROGRESS IN SEWER LINES till date

		BoQ		Up to Pr	e Month	This	month	Total	Progress	
SN	Description	Length (m)	Manhole (Nos.)	Length (m)	Manhole (Nos.)	Length (m)	Manhole (Nos.)	Length (m)	Manhole (Nos.)	%
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	
Subtotal in	ı (m)	2,241.00	68.00	1,967.50	35.00			1,967.50	35.00	
HDPE Pip	e:									
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			8,902.50	283.00	
4	HDPE (T4)	2,092.00	68.00	2,051.90	56.00			2,051.90	56.00	
Subtotal in (m)		17,841.00	588.00	15,851.00	514.00			15,851.00	514.00	



SN	Description	BoQ		Up to Pre Month		This	month	Total	Progress	
		Length (m)	Manhole (Nos.)	Length (m)	Manhole (Nos.)	Length (m)	Manhole (Nos.)	Length (m)	Manhole (Nos.)	%
Total		20,082.00	656.00	17,818.50	549.00			17,818.50	549.00	88.73%

SN	Description	BoQ (Nos.)	Up to Pre Month	This month	Total to date	Progress %
1	Sewer inlet	1,010.00	595.00		595.00	58.91%
2	House connection	3,784.00	1,307.00		1,307.00	34.54%



3.1.2. STORM WATER DRAIN

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

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

	Name of Drain		Lo		Туре	Work Completed				Length									
S		Origin al	Outoin	Ominin	Owigin	Owigin	Origin	Origin Revise	Doviso	Progres		S Cum		Brick		RCC		of Covered	Remarks
N			d	Previo us	This Month	ulativ e	Drain	m	m ³	m	m^3	Drain in m							
1	CN2-CN3 (Chyangh Baari Nala)	652.89	585.00	585.00		585	RCC, closed			585		585	completed						
2	CN2-CN3 (Chyangh Baari Nala)	132 Nos piles	138	138		138 Nos.							Piling works completed						

3.1.3. ROADS AND LANES

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

Out of 73.86 km. about 45.36 Km. has been attempted for Sub Base but due to start of monsoon, asphalt work is delaying.

About 35.43 km. Asphalt work is completed. The summary of physical progress is presented below: -



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

	Road Number	Name of Road]	Length in m				Work Com	pleted			
SN					Prog	ress		Sub-base	Base	Asphalt	RCC	Paint	Remarks
			Original	Revised	Previous	This Month	Total	m	m	m	m	m	Rem
1	R42	Bhagwati Marg	218.00	218.00	218.00		218.00	218.00	218.00	123.00			
2	R5	College Road	970.00	970.00	650.00		650.00	650.00	650.00	599.20			
3	B2	Gauri Shankar Marg	2,777.83	2,777.83	2,152.00		2,152.00	2,152.00	2,152.00	2,152.00	210.00		
4	R65	Satghumti Marg	282.00	320.00	320.00		320.00	320.00	320.00				
5	R107		173.00	215.00	215.00		215.00	215.00	215.00				
6	R107 a		50.00	50.00	50.00		50.00	50.00	50.00				
7	R104	VIP Marg	273.00	273.00	273.00		273.00	273.00	273.00	273.00			
8	R8	Madhumara Marg	600.00	600.00	600.00		600.00	600.00	600.00	582.00			
9	B1	Kanchan Marg	1,172.94	1,173.00	1,173.00		1,173.00	1,173.00	1,106.00	1,106.00		1,106.00	
10	R21	Pratibha Marg	1,320.00	1,320.00	1,330.00		1,330.00	1,330.00	1,330.00	1,330.00		1,012.80	



]	Length in m				Work Com	pleted			
SN	Road	Name of			Prog	ress		Sub-base	Base	Asphalt	RCC	Paint	Remarks
	Number	Road	Original	Revised	Previous	This Month	Total	m	m	m	m	m	Rem
11	В3	Keshaliya Marg	1,574.00	1,574.00	1,574.00		1,574.00	1,574.00	1,574.00	1,574.00			
12	S13		1,617.00	1,617.00	1,617.00		1,617.00	1,617.00	1,417.00	1,417.00		1,812.60	
13	R12	Kanchha Dai Marg	1,192.00		1,297.00		1,297.00	1,297.00	1,297.00	897.00			
	R12	Keshaliya south	900.00			900.00	900.00	900.00	900.00	420.00			
14	Rani site	Rani	4,023.00	4,023.00	4,023.00		4,023.00	4,023.00	4,023.00	4,023.00			
15	R16	Satya Marg	604.00	604.00	604.00		604.00	604.00	604.00	542.10			
16	R26	Pasang Marg	617.00	654.00	654.00		654.00	654.00	654.00	654.00			
17	R28	Pustakalaya Marg	635.00	635.00	635.00		635.00	635.00	635.00	339.20			
18	R27	Peepal Marg	810.00	810.00	734.32		734.32	734.32	734.32	734.32		639.20	
19	R25	Devi Marg	599.00	580.00	580.00		580.00	580.00	580.00	561.70			
20	R24	Prabhat Marg	384.41	380.00	518.15		518.15	518.15	518.15	518.15			
21	R37	Banglamukh i Marg	420.00	477.00	477.00		477.00	477.00	477.00	477.00			



]	Length in m				Work Com	pleted			
SN	Road	Name of			Prog	ress		Sub-base	Base	Asphalt	RCC	Paint	arks
	Number	Road	Original	Revised	Previous	This Month	Total	m	m	m	m	m	Remarks
22	R7	Manakaman a Marg	814.00	814.00	542.00		542.00	542.00	542.00	242.00			
23	R30	Shanti Marg	212.00	212.00	123.10		123.10	123.10	123.10	123.10			
24	R9	Fadindra Marg	123.00	123.00	119.00		119.00	119.00	119.00	119.00			
25	S11	Samrat Marg	660.00	660.00	660.00		660.00	660.00	504.60	504.60		504.60	
26	R22	Amar Marga	373.10	367.65	367.65		367.65	367.65	367.65	367.65			
27	R29	Shanti Marg	620.00	620.00	684.70		684.70	684.70	684.70	684.70		585.60	
28	R36	Gaurav Marg	218.00	218.00	220.00		220.00	220.00	220.00	220.00		440.00	
29	R33	Tarun Marg	285.00	285.00	280.00		280.00	280.00	280.00	280.00			
30	R64	Satya Narayan Marg	121.00	121.00	121.00		121.00	121.00	121.00	-			
31	R8		-	225.00	225.00		225.00	225.00	225.00	225.00			
32	N36		-	190.00	190.00		190.00	190.00	186.95	186.95			



]	Length in m				Work Com	pleted			
SN	Road	Name of			Prog	ress		Sub-base	Base	Asphalt	RCC	Paint	Remarks
	Number	Road	Original	Revised	Previous	This Month	Total	m	m	m	m	m	Rem
33	R188	Shakti Marg	-	120.00	120.00		120.00	120.00	120.00	120.00			
34	R2	Main Road	-	-	1,085.00		1,085.00	1,085.00	350.00	350.00		350.00	
35	T3 Line 6A	Pandit Meghnath Marg	-	220.00	220.00		220.00	220.00	220.00	220.00			
36	T2 Line 24C	Nava Jyoti Marg	-	205.00	205.00		205.00	205.00					
37	T2 Line 24D	Nava Jyoti Marg	-	210.00	210.00		210.00	210.00					
38	R63 (DSP Road)	DSP Road	420.00	420.00	420.00		420.00	420.00	395.00	395.00			
39	R90	Shakti Marg	450.00	320.00	320.00		320.00	320.00	320.00	320.00		640.00	
40	R77	Arniko Marg	80.00	80.00	80.00		80.00	80.00	80.00	80.00			
41	R76	Mitra Marg	270.00	270.00	270.00		270.00	270.00	270.00	270.00		541.20	
42	R183	Nava Jyoti Marg	240.00	240.00	240.00		240.00	240.00	220.00	220.00			
43	T1 L16B	Xenial Front	210.00	210.00	210.00		210.00	210.00	205.00	205.00			



]	Length in m				Work Com	pleted			
SN	Road	Name of			Prog	ress		Sub-base	Base	Asphalt	RCC	Paint	Remarks
	Number	Road	Original	Revised	Previous	This Month	Total	m	m	m	m	m	Rem
44	T1L16A	Xenial South	140.00		180.00		180.00	180.00	180.00	180.00			
45	R114	Dharanidhar Marg	560.00	560.00	560.00		560.00	560.00	560.00	560.00		560.00	
46	R113	Kavi Lekh Marg	740.00	740.00	740.00		740.00	740.00	740.00	740.00			
47	R5a		370.00	370.00	370.00		370.00	370.00	370.00	370.00			
48	Rani site B		600.00	520.00	520.00		520.00	520.00	520.00	520.00			
49	R3	Dharamban Marg	-	2,230.00	2,233.00		2,233.00	2,233.00	2,150.30	2,150.30		2,080.30	
50	R78	Sombare - Highway	92.00	92.00	92.00		92.00	92.00	92.00	92.00			
51	R84	West of school	673.00	235.00	473.20		473.20	473.20	236.00	236.00			
52	R85	Machha Line	153.00		160.00		160.00	160.00	160.00	160.00			
53	R87	Mahabir Chowk	150.00	148.00	148.00		148.00	148.00	110.00	110.00			
54	R86	Petrol pump side -R12			293.00		293.00	293.00	293.00	293.00			
55	R11	R18/R86	281.00	281.00	281.00		281.00	281.00	205.00	205.00			



]	Length in m				Work Com	pleted			
SN	Road	Name of			Prog	ress		Sub-base	Base	Asphalt	RCC	Paint	Remarks
	Number	Road	Original	Revised	Previous	This Month	Total	m	m	m	m	m	Rem
56	N3	Jatuwa	120.00	117.00	117.00		117.00	117.00					
57	N4	Jatuwa	170.00	168.00	168.00		168.00	168.00	168.00	168.00			
58	R10	Ram Marga	1,092.00	1,092.00	292.00		292.00	292.00	292.00	292.00		853.20	
59	T2L26F	APF	61.50	61.50	55.00		55.00	55.00					
60	T2L27		80.00	80.00	80.00		80.00	80.00	80.00	80.00			
61	R122		265.55	265.55	265.55		265.55	265.55	265.55	265.55		497.40	
62	N9		220.42	220.42	220.42		220.42	220.42	220.42	220.42			
63	R17		610.06	610.06	365.00		365.00	365.00	365.00	365.00		730.00	
64	R18		465.78	465.78	370.00		370.00	370.00	370.00				
65	N2		75.84	75.84	75.84		75.84	75.84					
66	T3L6	Moti marga			170.00		170.00	170.00	170.00	170.00			
67	T3L6	Elite club - CDO Office			107.00		107.00	107.00					



					Length in m				Work Com	pleted			
SN	Road	Name of			Prog	ress		Sub-base	Base	Asphalt	RCC	Paint	arks
	Number	Road	Original	Revised	Previous	This Month	Total	m	m	m	m	m	Remarks
68	T3L6	Balmandir - Ganesh Mandir			380.00		380.00	380.00					
69	T3L6	CDO Office front			49.40		49.40	49.40					
70	T3L6A	Golchha Marga			220.00		220.00	220.00	220.00	220.00			
71	T3L23	Madhumara road			541.00		541.00	541.00	541.00	541.00		358.40	
72	R45	Bata road			505.00		505.00	505.00	295.00	295.00			
73	T3L21				400.00		400.00	400.00	400.00	400.00		774.00	
74	N5				70.00		70.00	70.00	70.00	70.00		122.00	
75	T3L39				400.00		400.00	400.00	400.00	400.00		491.00	
76	T3L39A				130.00		130.00	130.00	130.00	130.00		179.40	
77	T3L39B				80.00		80.00	80.00	80.00	80.00		117.60	
78	R68 - T2L24G				220.00		220.00	220.00					



					Length in m				Work Com	pleted			
SN	Road	Name of			Prog	ress		Sub-base	Base	Asphalt	RCC	Paint	Remarks
	Number	Road	Original	Revised	Previous	This Month	Total	m	m	m	m	m	Rem
79	N10				194.00		194.00	194.00					
80	T3L24C				170.00		170.00	170.00					
81	T3L9				278.00		278.00	278.00					
82	R6				1,228.20		1,228.20	1,228.20	1228.20	1228.20			
83	N24				136.00		136.00	136.00	136.00	136.00			
84	R31				188.70		188.70	188.70	188.70	188.70			
85	Bindabas ini Marga				352.28		352.28	352.28	352.28	352.80			
86	Bhattimo de to Hartaliha at				166.50		166.50	166.50	166.50	166.50			
87	R73				217.00		217.00	217.00	217.00	217.00			
88	R6	Bata Galli			269.00		269.00	269.00	269.00				
89	R9 (R41- R7)				194.80		194.80	194.80	194.80				



					Length in m				Work Com	pleted			
SN	Road	Name of			Prog	ress		Sub-base	Base	Asphalt	RCC	Paint	Remarks
	Number	Road	Original	Revised	Previous	This Month	Total	m	m	m	m	m	Rem
90	R44	Thakur Bari Road			357.50		357.50	357.50					
91	R102	Main			140.00		140.00	140.00	140.00				
92	R102	Branch			71.30		71.30	71.30					
93	R103				170.40		170.40	170.40					
94	R32				188.00		188.00	188.00	188.00	188.00			
95	T2L18Y				116.20		116.20	116.20					
96	R20				108.00		108.00	108.00					
97	R82	Everest School			530.00		530.00	530.00	530.00				
98	T1L5				140.00		140.00	140.00	140.00				
99	T3L23C	Jay Nepal			220.20		220.20	80.00	75.00				
100	T3L25B				195.00		195.00	195.00					



					Length in m				Work Com	pleted			
SN	Road	Name of			Prog	ress		Sub-base	Base	Asphalt	RCC	Paint	Remarks
	Number	Road	Original	Revised	Previous	This Month	Total	m	m	m	m	m	Rem
101	T3L25C				140.00		140.00	140.00					
102	R3	T3 Trunk			465.00		465.00	465.00					
103	Nag Mandir to R3				55.00		55.00	55.00	55.00	55.00			
104	R75				130.00		130.00	130.00	130.00	130.00			
105	R43					250.00	250.00	250.00					
	Total		33,228.43	33,733.63	40,656.81	4,852.60	45,509.41	45,369.21	39,575.22	35,431.14	210.00	14,395.30	



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

				Cate	egory		I	ength in n	n		Foo	tpath	S
SN	Road	Name of	Type*	Cat				Progr	ess		100	срасп	Remarks
	Number	Road	••	<3m	>3m	Original	Revised	Previous	This Month	Cumulative	m	m^2	Rer
1	B2	Gauri Shankar Marg	Precast block			2,777.83	2,777.83	1,700.00		1,700.00	1,700.00	3,888.96	
2	S11	Bhatta Chowk to Sankhar Chowk	Precast block			900.00	900.00	300.00		300.00	300.00	270.00	
3	B3 (3)	Keshaliya Road	Precast block					500.00		500.00	500.00	1,200.00	
4	R16	Jatuwa	Precast block					400.00		400.00	400.00	440.00	
5	R21		Precast block					280.00		280.00	280.00	280.00	
6	Rani		Precast block					850.00		850.00	850.00	510.00	
7	1 R6	Pratibha to pipal chowk	Precast block					154.00	400.00	554.00	554.00	277.00	,



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	44,359.41	1,150.00	45,509.41	61.62%
2	Sub Base	m	73,860.00	44,219.21	1,150.00	45,369.21	61.43%
3	Base	m	73,860.00	38,242.22	1,333.00	39,575.22	53.58%
4	Prime/Tack	m	73,860.00	34,530.14	901.00	35,431.14	47.97%
5	Asphalt	m	73,860.00	34,530.14	901.00	35,431.14	47.97%
6	Paint	m	73,860.00	14,395.30	-	14,395.30	19.49%



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 both sides or one side as per the RoW of the road. The contractor has already started drain works at many locations. The progress for the drain works is listed below:

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

			Length	in m		Work Cor	npleted	-
SN	Road	Name of	Progr	ess		Brick	RCC	Remarks
	Number	Road	Previous	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	89.58		89.58	89.58		
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		



			Length	in m		Work Cor	npleted	
SN	Road	Name of	Progr	ess		Brick	RCC	Remarks
	Number	Road	Previous	This Month	Total	m	m	Ren
12	R114	Dharanidhar Marg	312.33		312.33	312.33		
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		



			Length	in m		Work Cor	npleted	
SN	Road Number	Name of	Progr	ess		Brick	RCC	Remarks
	Number	Road	Previous	This Month	Total	m	m	Ren
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		
29	N5		65.00		65.00	65.00		
30	R21	Binayak Marga	388.25		388.25	388.25		
31	R2	Main Road	1,972.50	20.00	1,992.50	1,992.50		
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		



			Length	in m		Work Co	mpleted	
SN	Road Number	Name of	Progr	ess		Brick	RCC	Remarks
	Number	Road	Previous	This Month	Total	m	m	Ren
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		
45	Rani Site C		97.50		97.50	97.50		
46	Ranit Site D		131.45		131.45	131.45		
47	T3L21	Moti Marga	360.95		360.95	360.95		
48	T3L39	Gaheli Marga	270.00	70.00	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		



			Length	in m		Work Cor	npleted	
SN	Road	Name of	Progr	ess		Brick	RCC	Remarks
	Number	Road	Previous	This Month	Total	m	m	Rem
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	320.00	60.00	380.00	380.00		
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		100.00		100.00	100.00		



			Length in m			Work Con	npleted	
SN	Road	Name of	Progr	ess		Brick	RCC	Remarks
	Number	Road	Previous	This Month	Total	m	m	Ren
68	Rani E		85.00		85.00	85.00		
69	R102	Hamro Marg	132.50		132.50	132.50		
70	R10/R10a	Ram Marga	740.36		740.36	740.36		
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		
77	R99	APF	187.00		187.00	187.00		
78	T2 L25		150.00		150.00	150.00		
79	R20		60.00		60.00	60.00		
80	T2L24F		60.00		60.00	60.00		
81	R105		150.00		150.00	150.00		



			Length	in m		Work Co	mpleted	
SN	Road Number	Name of	Progr	ess		Brick	RCC	Remarks
	Number	Road	Previous	This Month	Total	m	m	Rem
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		288.50		288.50	288.50		
91	T3L21A		25.00		25.00	25.00		
92	R74		96.00		96.00	96.00		
93	R46		120.00		120.00	120.00		
94	R101		160.00		160.00	160.00		
95	T3L7A		125.00		125.00	125.00		
96	T3L8		75.00		75.00	75.00		



			Length	in m		Work Co	mpleted	70
SN	Road Number	Name of	Progr	ess		Brick	RCC	Remarks
	Number	Road	Previous	This Month	Total	m	m	Rem
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		300.00	35.00	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		
109	R106		70.00		70.00	70.00		
110	R41		520.00		520.00	520.00		
111	T2L19B		110.00		110.00	110.00		



			Length	in m		Work Co	mpleted	
SN	Road	Name of	Progr	ress		Brick	RCC	Remarks
	Number	Road	Previous	This Month	Total	m	m	Rem
112	R30		180.00		180.00	180.00		
113	T3L13C		150.00	75.00	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		
125	R110		150.00		150.00	150.00		
126	Parichaya Marga		130.00		130.00	130.00		



			Length	in m		Work Co	mpleted	
SN	Road Number	Name of	Progr	ess		Brick	RCC	Remarks
	Number	Road	Previous	This Month	Total	m	m	Rem
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	Sahid & Sanihat Marga	520.00		520.00	520.00		
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	320.00		320.00	320.00		
137	T3L19G		30.00	15.00	45.00	45.00		
138	R4	Jatuwa Marga	25.00		25.00	-	25.00	
139	T3L22	Rangeli Road		25.00	25.00	25.00		
140	T3L25B, Outlet	Madhumara		96.00	96.00	96.00		



	Road Number	Name of Road	Length in m Progress			Work Completed		2
SN						Brick	RCC	Remarks
			Previous	This Month	Total	m	m	Ren
141	T3L7B	Matrika Marga		75.00	75.00	75.00		
	Total		26,911.19	471.00	27,382.19	26,597.19	785.00	105.11% wrt estimated length in BOQ



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 precast production yards. The camp should have the proper roofing system. Besides that, it should be spacious, should have proper circulation of the fresh air, should be hygienic, and should have proper electric lightening system & water supply system. It should be neat and clean.

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



3.2.3. PROVISION AND MAINTENANCE OF TOILETS

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

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

The numbers of toilets in each camp is also attached hereby in annex. Toilets in all the camps are found to be in the acceptable condition.

3.2.4. CRUSHING PLANTS

Crushing plants shall be located away from the population centers, water intakes, and should not disturb the sensitive echo system. Suitable dust control device should be fitted with crusher to control emission of dust from plant. The crusher plant is located at around 42 km north-east of Biratnagar at a place called 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 around 6 Km south of the Biratnagar DSC office at a place called Rani.

3.2.6. OCCUPATIONAL HEALTH AND SAFETY MEASURES

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

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

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



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

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



3.3. SOCIAL ASPECT

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

3.4. SAFEGUARD/ GESI COMPONENT

3.4.1. COMMUNITY AWARENESS:

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

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 was found partially satisfactory.

3.4.5. STATUS OF RELOCATION OF SERVICES

Relocation of water supply pipe lines were ongoing at T3L39, T3L39B, T3L23C, T3L10, R44, R2, B1 & T3 Trunk, etc. & some of them are almost completed and where required the supply has been providing temporarily as per site condition.

Table – 5: Status of Labor at Site

Labour	Labour		Composition		Ethnic composition				
class	Skilled	Unskilled	Male	Female	Janjati	Dalit	Muslim	Madhesi	Brahmin/ Chhetri
Local	10	21	31	0	0	4	0	27	0
Non local	37	116	153	0	39	30	6	78	0
Indian	2	8	10	0	0	0	1	9	0
TOTAL	49	145	194	0	39	34	7	114	0



3.5. FINANCIAL PLAN

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

3.5.1. DISBURSEMENT RECORDS IN CONSTRUCTION

Table – 6: DISBURSEMENT RECORDS in CONSTRUCTION

S. No.	Description	Submission date	Covering date	Submitted Amount(NRs)	Remarks
1	IPC 01	15 th October 2017		339,105,000.00	Mobilization Advance
2	IPC 02	2 nd April 2018	2nd November 2017 to 31st March 2018	261,501,492.21	
3	IPC 03	1st July 2018	1st April 2018 to 30th June 2018	316,582,708.58	
4	IPC 04	1st October 2018	1st July 2018 to 31st September 2019	105,227,887.16	
5	IPC 05	2 nd December 2018	1st October 2018 to 30th November 2018	95,951,603.44	
6	IPC 06	31st January 2019	1st December 2018 to 31st January 2019	264,937,394.98	
7	IPC 07	12 th April 2019	1st February 2019 to 31st March 2019	308,805,662.97	
8	IPC 08	9 th May 2019	1st April 2019 to 30th April 2019	106,210,198.68	
9	IPC 09	10 th June 2019	1st May 2019 to 31st May 2019	90,419,375.33	
10	IPC 10	11th July 2019	1st June 2019 to 30th June 2019	67,863,056.59	
	l amount exclu ilization advan	0		1,617,499,379.94	



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:

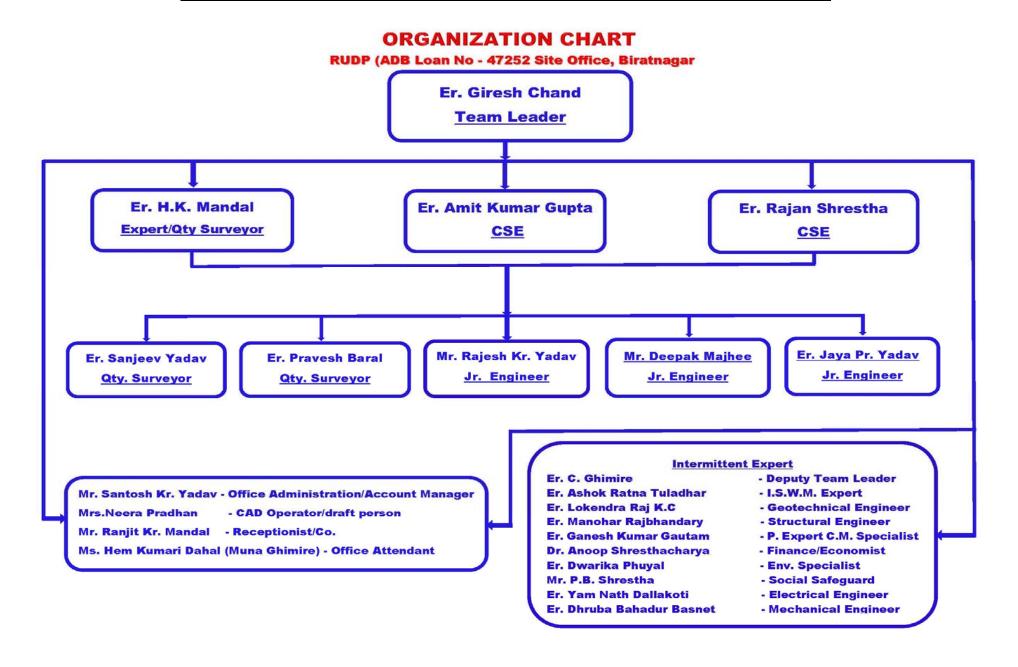
- Detailed Design and Procurement Assistance Phase for integrated solid waste management design (ISWM)
- Monthly progress report and quarterly progress report.
- Semi- annual Environmental monitoring report.
- Semi-annual Safeguard monitoring report.
- Annual progress report including annual Environmental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



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

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



5. PROGRESS OF SUB - PROJECT COMPONENTS

5.1. CONSTRUCTION MATERIALS.

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

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

5.2. PROGRESS ACHIEVED TILL DATE

35 (1	Target This Month		Achievement This Month		Leading		Lagging		
Month	Monthly	Accumulated	Monthly	Accumulated	Monthly	Accumulated	Monthly	Accumulated	Remarks
July-18	0.15%	25.17%	0.78%	25.18%	0.63%	0.01%		NA	Leading
August-18	0.15%	25.32%	2.32%	27.50%	2.17%	2.18%		NA	Leading
September- 18	5.71%	31.03%	1.22%	28.72%	NA	-2.31%		-2.31%	Lagging
October-18	7.72%	38.75%	2.30%	31.03%	NA	-7.72%		-7.72%	Lagging
November- 18	7.72%	46.47%	5.20%	36.22%	NA	-10.25%		-10.25%	Lagging
December- 18	7.95%	54.41%	3.40%	39.62%	NA	-14.79%		-14.79%	Lagging
January-19	7.96%	62.37%	5.65%	45.27%	NA	-17.10%		-17.10%	Lagging
February-	7.96%	70.33%	5.11%	50.38%	NA	-19.95%		-19.95%	Lagging
February- 19 (after Revision)	5.33%	50.03%	5.11%	50.38%	NA	0.35%		NA	Leading
March -19	7.75%	57.77%	7.84%	58.21%	NA	0.44%		NA	Leading
April-19	6.82%	64.59%	4.53%	62.74%	NA	-1.85%		-1.85%	Lagging
May-19	6.49%	71.08%	4.54%	67.28%	NA	-3.80%		-3.80%	Lagging



Target This Month		Achievement This Month		Leading		Lagging		Remarks	
Month	Monthly	Accumulated	Monthly	Accumulated	Monthly	Accumulated	Monthly	Accumulated	Kemarks
June-19	3.95%	75.03%	2.05%	69.33%	NA	-5.70%		-5.70%	Lagging
July-19	3.90%	78.93%	2.19%	71.52%	NA	-7.41%		-7.41%	Lagging

5.3. KEY EVENTS

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

Table 8: KEY DATES of EVENTS / ACTIVITIES

S. No.	Date	Activities/Events	Remarks
1		Frequent visit of sites by the representatives of the employer.	
2	23 rd – 26 th July 2019	Site visited by Mr Indu Dhakal, Project Monitoring Engineer, ADB consultant.	STIUEIP & RUDP both.
3	28 th July 2019	Meeting held at PIU in the presence of Mayor, Mr. Bhim Parajuli	Minutes of meeting No.:- 26

Note: Due to rainy season, the work progresses are very slow.



6. DETAILS OF PRE CAST ACTIVITIES.

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

	Physical Progress till date									
			P							
S.N.	Description	Unit	BoQ	Up to Previous month (RM.)	This Month (RM.)	Total to Date (RM.)	Remarks			
1	Precast Slab	No		49,571.00	8,300.00	57,871.00	Under progress			
2	Kerb Stone	Rm	147,729.68	79,293.30	-	79,293.30	53.67%			

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	ı	336.00					
2	RCC Pipe	450	681.00	681.00	1	681.00					
3	RCC Pipe	500	842.00	842.00	1	842.00					
4	RCC Pipe	600	382.00	382.00	-	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									
				Prog	ress					
S.N.	Description	Diameter (mm)	BoQ (RM)	Up to Previous month (RM)	This Month (Rm.)	Total to Date (RM.)	Remarks			
1	UPVC Pipe	160.00	5,050.00	5,050.00	0.00	5,050.00				
2	UPVC Pipe	110.00	5,050.00	5,050.00	0.00	5,050.00				

Details of Contractor's Site Personnel Nirman Gauli (Contractor Repesentive) Er. Rabindra Kr. Thakur (Contract Manager) Kiran Chaudhary Basu Dev Gauli Bishnu Hari Khanal Benu Shrestha (Sr. Lab. Tech.) (Administrative (Sr. Accountant) (Civil Engineer) Manager) Dhirendra Yaday Narsingh Bhandari Pradeep Yadav (Civil Engineer) Ajit Mukhiya (Site Engineer) (Vehicle Incharge) (Asst. Lab Tech.) Bikash Adhikari Ashish Khanal Aanand Raymajhi Santosh Kr. Rupesh Shrestha (Vehicle Incharge) (Ass. Accountant) Lakhandai (Engineer) (Lab Boy) (Civil Engineer) Madan Bhattarai Ramesh Shrestha Randhir Singh (Supervisor) Raj Kumar Mukhiya (Sub Engineer) Jarman Nepal (Surveyor) (Lab Boy) Sudeep Chaudhary (Ass. Accountant) (Surveyor) **Prashant Bagale** Plumber Incharge) **Pramod Shah** Sakir Alam Biswas Rai (lab Boy) (Civil Engineer) (Sub-Engineer) Rahul Sharma Niraj Mandal (Sub-Engineer) Dev Kumar Yadav (Supervisior) (Lab Boy) Aadarsh Karn Manoj Yadav (Sub-Engineer) (Engineer) Rabin mandal Gyanendra Tamang (Supervisor) (Sub-Engineer) Dhirendra Yadav (Jr) (Civil Engineer) Jitendra Yadav Jibachh Shah (Safety Incharge) (Engineer)



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	-	5	
9	Accountant	-	3	
10	Lab Technician	-	5	
11	Store Keeper	-	1	
12	Vehicle In charge	-	2	
13	Skilled Labors		49	
14	Unskilled Labors		145	



8. CONTRACTOR'S EQUIPMENT

Table 14: CONTRACTOR'S EQUIPMENT

S.No	Equipment Type and Characteristics	Min Number required as per Contract	ZHONGHENG CONSTRUCTION Group	Remarks
1	Excavator (200 above)	5	2	Backhoe loader-9 nos.
2	Crane (10 ton capacity)	3	-	
3	Asphalt plant of adequate capacity	1	1	
4	Asphalt pavers	1	1	
5	Vibrating roller	2	4	Among 4nos., 2ton rollers-2nos.
6	Pneumatic tyre roller 8 to 10 ton	2	1	
7	Smooth wheeled roller 8 to 10 ton	1	1	
8	Grader	1	2	
9	Track Dozer (120 to 180 HP)	1	-	
10	Bitumen distributor (4 to 6 Kilo Litres)	1	1	
11	Water browser (minimum 5000 Litres)	3	6	
12	Chips spreader	1	-	
13	Bitumen decanter minimum 4000 Litres. (preheating container)	2	2	
	Air compressor	2	2	
14	Tipping Trucks	5	5	
15	Service vehicle	15	25	
16	Survey equipment (Total station with accessories)	2	5	
17	Theodolite	1	1	
18	Levelling	2	-	
19	Mobile Generator 15-20 KVA	5	10	
20	Mixer Machine	3	9	



S.No	Equipment Type and Characteristics	Min Number required as per Contract	ZHONGHENG CONSTRUCTION Group	Remarks
22	Concrete Batching Plant	1	-	
23	Concrete pump	1	-	
24	Drain cleaner/ Nala cleaner	2	-	
25	Broomer	-	2	
26	Motor Bike	-	11	
27	Plate Compactor	-	4	
28	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 production works at contractor's yard.
- Road Side drain works.
- Laying of Kerb Stone, cover slab and interlocking tiles.
- Sewer inlet and House Connection works.
- Brick Manholes for sewer line.
- Relocation of electric poles and water supply works, etc.



ANNEX-1: Photographs of July, 2019





Meeting chaired by Mr Bhim Parajuli, Mayor



Curing of Precast slab at Precast Yard





Production of precast slab at Precast Yard



Site visit by Mr. Indu Dhakal Project Monitoring Engineer, ADB Consultant at WWTP Lab, Biratnagar





Site visit of Mr. Indu Dhakal, Project Monitoring Engineer, ADB Consultant, RUDP Lab at Judi



Site visit by Mr. Indu Dhakal Project Monitoring Engineer, ADB Consultant at RUDP Lab at Judi,
Biratnagar





Outlet of B1



Outlet of B2





Outlet of B3



Outlet of S13





Outlet of S5



Outlet of S9



ANNEX-2: Minutes of Meeting July, 2019 ATTACHED

Building Design Amhority (P) Ltd

in Point Venture with

B.N.ConsultancyPvt. Ltd and Plus Engineers & architects (P) Ltd, Kathmandu, Nepal REGIONAL URBAN DEVELOPMENTOPROJECT (RUDP), ADB Loan No: 47252

Biratnagar Metropolitan city, Biratnagar

MINUTES OF MEETING NO. - 26

Contract: RUDP/ICB/BRT-02

Date: 28 July, 2019 Time: 10:30 AM

Venue: PIU Office, Biratnagar

Attendance

Employer:

- 1. Mr. Bhim Parajuli, Mayor, BMC
- 2. Mrs. Indira Karki, Deputy Mayor, BMC
- 3. Mr. Prakash Narayan Chaudhary, DPM
- 4. Mr. Ghanashyam Kafley, Project Engineer

Contractor:

1. Mr. Ravindra Kumar Thakur, Contract Manager

Consultant:

- 1. Mr. Giresh Chand, Team Leader
- 2. Mr. H. K. Mandal, Expert/Quantity Surveyor
- 3. Mr. Rajan Shrestha, CSE

Meeting was chaired by Mayor, Mr. Bhim Parajuli and welcomed by Deputy Project Manager. In viewing the Krishna Janmasthami/ Ratha Yatra on dated 5th /6th Bhadra 2076, following matters were discussed and decided:

S.N.	Minutes	Action by
1.	TL, Mr. Chand briefed the present status of the project.	
	Mayor, Mr. Parajuli described the religious importance of Ratha Yatra globally and emphasized on road clearance/maintenance of the following roads:	
	1) R3 (Tinpaini to Banjara Chowk)	Employer/Co
	2) R44 (Devkota Chowk to Hatt Khola)	Contractor
	R3 (Devkota chowk to NTC Building)	
	4) R2 (Radha krishna Mandir to Mahendra Chowk)	
	5) R46 (Jaljala Road)	
	July 211X who	

Building Design Authority (P) Ltd

B.N.ConsultancyPvt. Ltd and Plus Engineers & architects (P) Ltd, Kathmandu, Nepal REGIONAL URBAN DEVELOPMENTIPRODECT (RUDP), ADB Loan No: 47252

Biratnagar Metropolitan city, Biratnagar

	-For R3 (Tinpaini to Banjara Chowk),CM, Mr. Ravindra Thakur proposed to start Manholes from Tinpaini to Banjara accompanied	
	with side drains construction. Mayor and Deputy Mayor asked assurance for completion of manhole and side drain with smooth riding surface before end of Shrawan. CM assured to make smooth riding surface as discussed before end of Shrawan.	
	-For other roads like R44 (Devkota Chowk to Hatt Khola Chowk), R3 (Devkota chowk to NTC Building), R2 (Radha krishna Mandir to Mahendra Chowk),R46 (Jaljala Road),CM agreed to make smooth riding surface by the end of Shrawan as discussed	
2.	Mayor and DPM advised for the road markings works by thermoplastic for uniformity with Phase II, RUDP from Tinpaini to Puspalal chowk (Road constructed during STIEUP phase I)	Employer/Co nsultant/ Contracto
3.	CM, Mr Thakur expressed that they are facing problem to resume the work as the quantity in BoQ had already been completed and VO still in progress. Mayor assured and instructed that there would be no financial problem to resume the work as soon as possible. He further reminded about the Minutes of Meeting (Board Meeting)	Employer/Co nsultant/ Contractor
4.	The meeting was concluded to be called again by the end of Shrawan.	Employer/Co nsultant/ Contractor











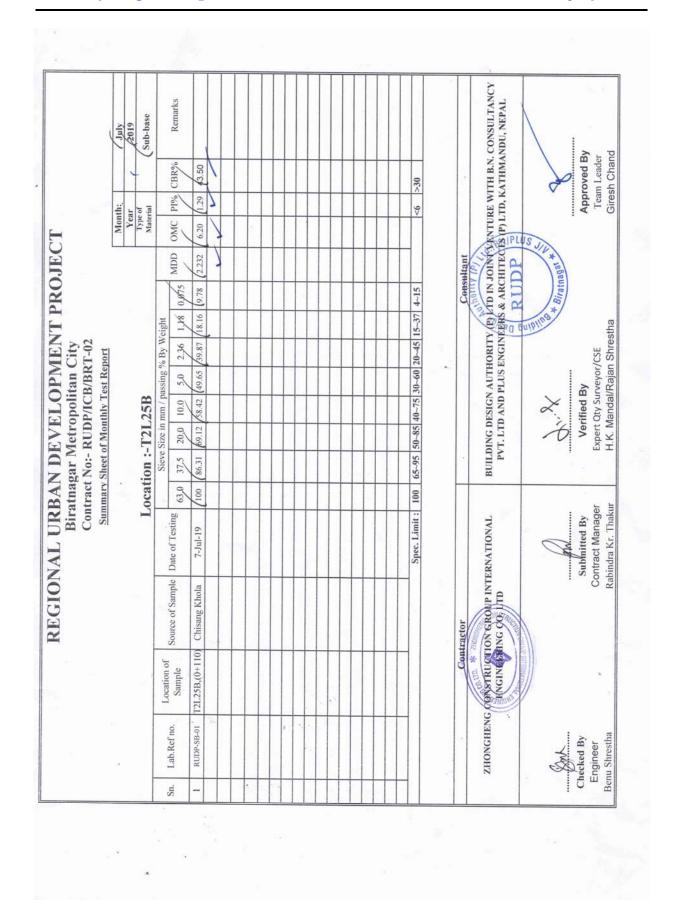
ANNEX-3: Laboratory Test Results of July, 2019 ATTACHED

1)	REGIO	В	iratnag ontract	gar Me No:- Ri	VELOP tropolitar UDP/ICB/F f Field Density	n City BRT-02	Γ PRC	DJECT	
							Month	Ju	
			T	tion.	T21.25D	The State of the S	Year	20	50 577
			Loca		T3L25B		of Material	Sub-C	
				Moistur	e content %	Density		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, R/S	6-Jul-19	0+040	7.00	6.42	2.020	1.968	97.43	95
2	RUDP-SG-FD-1, L/S	6-Jul-19	0+090	7.00	7.04	2.020	1.956	96.84	95
3	RUDP-SG-FD-1, R/S		0+120	7.00	6.02	2.020	1.963	97.18	95
4	RUDP-SG-FD-1, L/S	6-Jul-19	0+150	7.00	6.82	2.020	1.961	97.08	95
5	RUDP-SG-FD-1, R/S	6-Jul-19	0+180	7.00	6.41	2.020	1.944	96.23	- 95
ZHO	ONGHENG CONSTRUCT	oracio TON GROUP RING CO. LTI	INTERNAT	2	VENTURE W	NG DESIGN VITH BN. CC RS & ARCI	ONSULTA	It TV (P) LTD IN NCV EVT. LTI B) LTD, KATH	AND PLU



	1	REGIONAI	Contract No:-	EVELOPMENT Metropolitan City RUDP/ICB/BRT-02 of Monthly Test Report	ΓPRO	OJE	CT		58	
						Moi			July 🗸	
			Locat	ion:-T3L25B		Typ Mate	e of		2019 Sub grade	
Sn.	Lab.Ref no.	Location/Chainage	Source of Sample	Date of Testing	MDD	OMC	PI%	CBR%	Remark	
1	RUDP-SG-01	T3L25B,(0+100)	Existing Road	3-Jul-19	2.020	7.00	7.04	6.31		
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	ccked By		Submitted By	Verified By Expert Qty Surveyor/CSE	Biratnagar	0	Approv	ved By		







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		C			UDP/ICB/B				/
			Summar	y Sheet of	Field Density	Test			
							Month	/	July
			T		T 45D		Year	1	2019
_			Locat	ion:-T2	re content %		pe of Material		ıb-Base
Sn.	I -l. D. C	Tantina Data	Cl	Moistui	re content %	Density			paction %
511.	Lab.Ref.no	Testing Date	Chainage	OMC%	Field MC%	Max.Dry	Field Dry	Compac	Specified
1	RUDP-SB-FD-1, R/S	9-Jul-19				density	density,	tion	%
2	RUDP-SB-FD-1, L/S	9-Jul-19 9-Jul-19	0+020	6.20	5.81	(2.232	(2,178	(97.60 v	5.95
2			0+050	6.20	6.60	(2.232	2.160	496.77	95
2	RUDP-SB-FD-1, R/S	9-Jul-19	0+150	6.20	6.53	2.232	(2.181	(97.70	95 -
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	ecked By	Submitted By		Verifie				Approved	Ву
		ontract Manage			Surveyor/CSE lal/Rajan Shres	th a		Team Lea Giresh Ch	



			ontract No:- RU							
			one of the	rontiny restriction		Moi	nth:	July		
						Year			019	
			Location:-R-43			Typ Mate		Sub grade		
Sn.	Lab.Ref no.	Location/Chainage	Source of Sample	Date of Testing	MDD	OMC	PI%	CBR%	Remark	
1	RUDP-S-01	R-43,(0+120)	Existing Road	3-Jul-19	1.984	9.40	8.55	7.38	1	
2	RUDP-S-02	R-43,(0+250)	Existing Road	4-Jul-19	1.975	10.10	8.71	7.13	/	
				100						
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		Contractor	The state of	Wenty (State of the Constitution)						
		CERING CO. LTD.		BUILDING DESIGN AUTHORN'S (P) LTD IN JOINT						
ZHON	NGHENG CONS	TRUCTION GROUP	INTERNATIONAL	VENTURE WIT	HB.N. C	ONSUL	PANCY	PVT. L	TD ANI	
	EN	GIVEERING CO. LT	PLUS ENG	INEERS	& ARCI	HE	TS (P) L	ΓD,		
		1/20		KATHM	IANDU,	XEPAL				
		SOUTH OF THE PROPERTY OF THE P	* Biratna			*/		-		
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ett	la .		Mal.	41.1			K			
Check	ed By		Submitted By	Verified By			Annre	oved By		
Engine			Contract Manager	Expert Qty Surveyo	r/CSE		Team			
	Shrestha		Ravindra k. Thakur	Mandal/Rajan Shr			111/1/19/2002	Chand		



							T PRO	JECT	
		E	ontract	gar Me	etropolita	n City			
		•			f Field Densi			/	
			Summar	y Sheet 0	I Field Delisi	ty Test	Month	Jul	
							Year	201	
			Loc	ation:-R-			pe of Material	Sub-G	rade /
				Moisture	e content %	Density	(gm/cc)	Compac	tion %
Sn.	Lab.Ref.no	Testing Date	Chanage	0) (0)(E: 113.4004	Max.Dry	Field Dry		Specified
				OMC%	Field MC%	density gm/cc	density,	Compaction	%
1	RUDP-SG-FD-1, R/S	6-Jul-19	0+050	9.40	7.89	P	gm/cc	/%	- 0.5
2	RUDP-SG-FD-1, R/S	6-Jul-19	0+030	9.40	7.89	(1.984	(1.911	96.34	95
3	RUDP-SG-FD-1, C/S	6-Jul-19	0+120	9.40	7.06	(1.984	1.901	(95.80	95
4	RUDP-SG-FD-1, R/S	6-Jul-19	0+210			4	1.928	(97.18	95
5		ALESCO CERTO TUES		10.10	8.54	4.975	1.898	96.10	95
	RUDP-SG-FD-1, L/S	6-Jul-19	0+250	10.10	8.30	1.975	(1.912	(96.79	95
6	RUDP-SG-FD-1, C/S	6-Jul-19	0+280	10.10	5.99	(1.975	(1.930	97.71	95
7	RUDP-SG-FD-1, L/S	6-Jul-19	0+320	10.10	6.70	(1.975	1.913	496.86	95
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						/	uthority (P)		1
	Con	tractor					Consultant	10.	2
ZHO	ONGHENG CONSTRUCT	The state of the s	NTERNAT	IONAL	BUILDING I WITH B.N. C	DESIGN AUT	HORITY (P)	LTD IN JOINT O'AND PLUS E THIM NDU, NE	VENTURI NGINEER: PAL
	MAGITALES	B TALL TO LOURS		165		13		5/	
				15		-	* Biratnagat	//	
	CH.	,,,	W		91.8	X		*	11/19
	Checked By		ubmitted B		Verified			Approved By	
,	Engineer Benu Shrestha		ntract Mana, ra K. Thak		Expert Qty Sur H.K. Mandal/			Team Leader Giresh Chand	



			Contract No:-	Aetropolitan City RUDP/ICB/BRT-02 of Monthly Test Report			X		5
						Mor			oly 019
			Locati	on:-T3L25C		Typ Mate	e of	_	grade
Sn.	Lab.Ref no.	Location/Chainage	Source of Sample	Date of Testing	MDD	OMC	P1%	CBR%	Remarks
1	RUDP-SG-01	(T3L25C,(0+080)	Existing Road	(5-Jul-19	1.987	7.20	9.72	5.75	
					,	,	-	-	
-							-		
-							1		
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							1		
			Sp. Limit				<18	>3	
	V		Sp. Limit				10	100	
		Contractor			Consith	tant,			
ZHC		NSTRUCTION GROUNGINEERING CO. 1	UP INTERNATIONAL TO.	BUILDING DESIGN A WITH B.N. CONSULTA ARCHITECTS	NCY PVT. I	LTD ANI	RLUS	ENGIN	TURE EERS &
	Checked By Engineer		Submitted By Contract Manager	Verified By Expert Qty Surveyor,	# Biratn	agar		oved By Leader	



	REGIO				tropolitai		TIC	JULICI	
	£3				JDP/ICB/E			,	/
			Summary	Sheet of	Field Density				
							Month	(Ju	
			_				Year	//20	/
			Loca	tion:-	T3L25C	Type	of Material	(Sub-G	rade
				Moistur	e content %	Density	(gm/cc)	Compac	ction %
	7 1 D C	D .	CIi			Max.Dry	Field		C
SN.	Lab.Ref.no	Testing Date	Chainage	OMC%	Field MC%		Dry	Compaction	Specified
						gm/cc	density,	%	%
1	RUDP-SG-FD-1, R/S	6-Jul-19	0+020	7.20	7.04	1.987	(1.915	96.35	(95
1		6-Jul-19	0+020	7.20	7.44	1.987	/1.930	97.11	95
2	RUDP-SG-FD-1, L/S				6.19	1.987	1.930	97.14	95
3	RUDP-SG-FD-1, R/S	6-Jul-19	0+080	7.20			_	95.75	95
4	RUDP-SG-FD-1, L/S	6-Jul-19	0+100	7.20	6.86	1.987	1.903		
5	RUDP-SG-FD-1, R/S	6-Jul-19	0+130	7.20	6.48	1.987	(1.930	97.15	95
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_	1/60	ntractor	16		-	100	Consulta		
-	11-21.	- 0	187		BUILDI	NG/DESIGN	NAUTHOR	TTY (P) LTD I	N JOINT
ZI	IONGHENG CONSTRUC			TIONAL	VENTURE V	VITH B.N. O	CONSULT	NCE PVT. LT	D AND PLU
	ENGINEE	RING CO. LT	J. []		ENGINE	ERS & ARC	HITECTS	NCEPVT. LT (P)/LTD, KATI	IMANDU.
	1	्र विवास				12/		131	
						19/1	/	.*/	/
					3.4	8	* Biratnag	1	
	1 (1)					0	Diratio	0./	
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	(12)		/	1:	41.4	1		0	
	40		/A	Ν	V				
	Checked By		Submi	tted By	Verified !	Ву		Approved By	
			Contract		Expert Qty Su			Team Leader	



	I	REGIONAI	Biratnagar I Contract No:-	EVELOPMEN Metropolitan City RUDP/ICB/BRT-02 of Monthly Test Report	T PRO	OJE	СТ		
				tion:-T2L24f		Mor Ye Typ Mate	ar e of	1/2	July 2019 grade
Sn.	Lab.Ref no.	Location/Chainage	Source of Sample	Date of Testing	MDD	ОМС	P1%	CBR%	Remarks
1	RUDP-SG-01	T2L24F,(0+050)	Existing Road	3-Jul-19	1.975	8-80	7.89	6.40	
							-		
			Sp. Limit		-		<18	(>3	
	9		Sp. Dillin	× 1			10	//3	
		Contractor			Consult	ant			
ZHO		NSTRUCTION GROUNGINEERING CO.		BUILDING DESIGN AC WITH B.N. CONSULTAN ARCHITECTS	CY PVT. L	TD AND	PLUS	ENGINE	TURE EERS &
C	Thecked By Engineer nu Shrestha		Submitted By Contract Manager	Verified By Expert Qty Surveyor/ H.K. Mandal/Rajan Shrestl		In The State of th	Team I	oved By Leader	



	REGI	ONAL					T PRO	JECT	
			Contrac	gar M t No:- R	etropolit UDP/ICB	/BRT-02			
			Summa	ry Sheet	of Field Dens	ity Test			
							Month		uly
			Locati	TOI	ME	-	Year	-	019 Grade
-			Locati	on:-T2L	e content %	Density	pe of Material		action %
	_	_		777070101		Max.Dry	Field Dry		
n.	Lab.Ref.no	Testing Date	Chainage	OMC%	Field MC%		density,	Compaction	Specified
				01.1070	l leid li le / l	gm/cc	gm/cc	%	/ %
1	RUDP-SG-FD-1, L/S	4-Jul-19	0+030	8.80	6.34	1.975	1.924	97.40	95
2	RUDP-SG-FD-1, C/L	4-Jul-19 4-Jul-19	0+050	8.80	6.26	1.975	1.928	97.62	95
3	RUDP-SG-FD-1, L/S	4-Jul-19	0+070	8.80	7.05	1.975	1.930	97.74	95
_				_	7.03	1.975	1.907	96.57	95
4	RUDP-SG-FD-1,C/L	4-Jul-19	0+090	8.80					
5	RUDP-SG-FD-1,R/S	4-Jul-19	0+115	8.80	7.38	1.975	1.913	96.86	95
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-	HONGHENG CONSTRUC	TION COOL	INTERNAT	TONAT	BUILDIN	G DESIGNA	UTHORITY (P) LTD IN JOH	NT VENTUR
L	ENCINE	ERING CO. LT	DERNAI	IONAL	WITH B.N.	CONSULTA	NCKPVILLI	D AND PLUS	ENGINEERS
	Liferia	MONE OF DELLAND			, A	RCHITECTS	(P) LTD, KA	THMANDU, N	EPAL
						1.3			
			3				* Biratnaga		
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	CR4		//	V	- N				
	Checked By			tted By	Verifie			Approved By	
	Engineer Benu Shrestha			Manager	Expert Qty Su H.K. Mandal/F			Team Leader Giresh Chand	

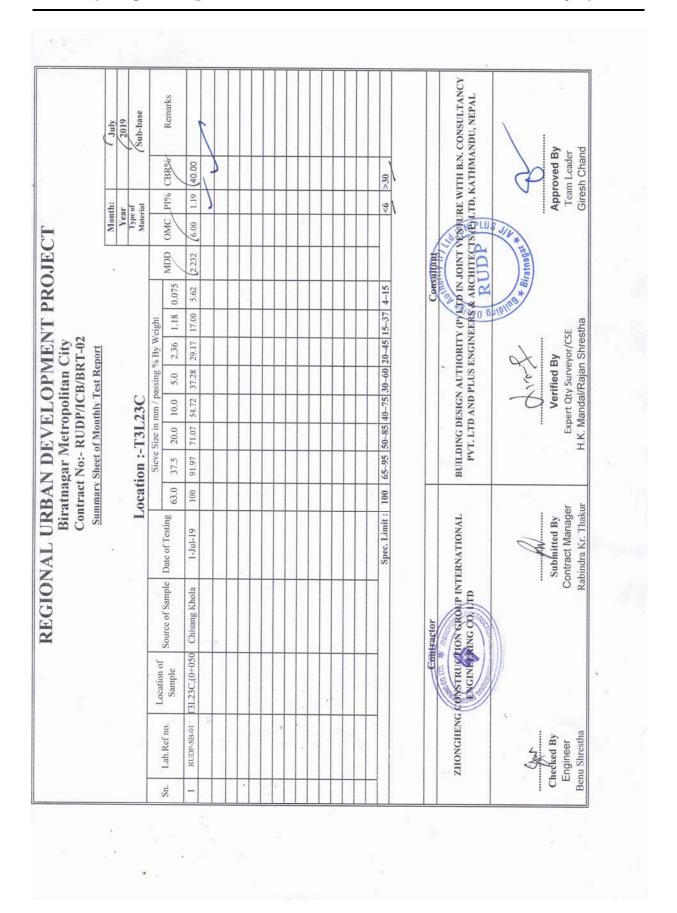


	F	REGIONAL	Biratnagar I Contract No:-	EVELOPMEN Metropolitan City RUDP/ICB/BRT-02 of Monthly Test Report	T PRO				
						Mor			July
	0		Loca	ation:-T1L5		Type Mate	e of		grade
Sn.	Lab.Ref no.	Location/Chainage	Source of Sample	Date of Testing	MDD	OMC	PI%	CBR%	Remark
1	RUDP-SG-01	T1L5,(0+070)	Existing Road	2-Jul-19	2.010	7.00	7.60	(6.65	/
						/	/		
			*						
_									
			Sp. Limit				<18	>3	
ZHO	NGHENG CON	Contractor NSTRUCTION GROUNGINEERING CO. L	P INTERNATIONAL ID	BUILDING DESIGN AN WITH B.N. CONSULTAN ARCHITECTS	NCY PVT. L	(P) LTD	PLUS	ENGINI	TURE EERS &
	Checked By Engineer	THE MAN IS DO NOT THE PARTY OF	Submitted By Contract Manager Rabindra kr. Thakur			JES STATE OF THE PARTY OF THE P	Team	oved By Leader	



	REGI	ONAL I	Biratna	gar Me	etropolita UDP/ICB	an City	TINO	0201	
			Summai	y Sheet	of Field Dens	ity Test			
			No.				Month	/Ju	
					_	-	Year	(20	
			Loca	tion:-T1I	content %		pe of Material (gm/cc)		Grade ction %
	8			Moisture	Content 70			Compa	THE RESERVE
Sn.	Lab.Ref.no	Testing Date	Chainage	OMC%	Field MC%	Max.Dry density gm/cc	Field Dry density, gm/cc	Compaction %	Specified %
1	RUDP-SG-FD-1,R/S	4-Jul-19	0+020	7.00	6.50	2.010	1.570	97.36	95
1	RUDP-SG-FD-1,K/S	4-Jul-19	0+050	7.00	6.44	2.010	1.979	98.46	95
2	RUDP-SG-FD-1,R/S	4-Jul-19	0+090	7.00	5.09	2.010	1.969	97.94	95
3		4-Jul-19 4-Jul-19	0+110	7.00	8.91	2.010	1.944	96.73	95
5	RUDP-SG-FD-1,L/S RUDP-SG-FD-1,R/S	4-Jul-19 4-Jul-19	0+110	7.00	7.20	2.010	1.958	97.42	95
		119	1						
	C	ontractor				1	Consult	ent	
7	CHONGHENG CONSTRUCTION	CTION GROUI ERING CO. LT	P INTERNA		WITH B.N	CONSULTARCHITECT	NCY PVT. L	PETD IN JOH TO AND PLUS ATHMANDU, N	ENGINEERS
	Checked By Engineer Benu Shrestha		Contrac	itted By Manager Kr. Thaku	Verifi Expert Qty S	· o′×	Biratnagat *	Approved By Team Leader Giresh Chance	

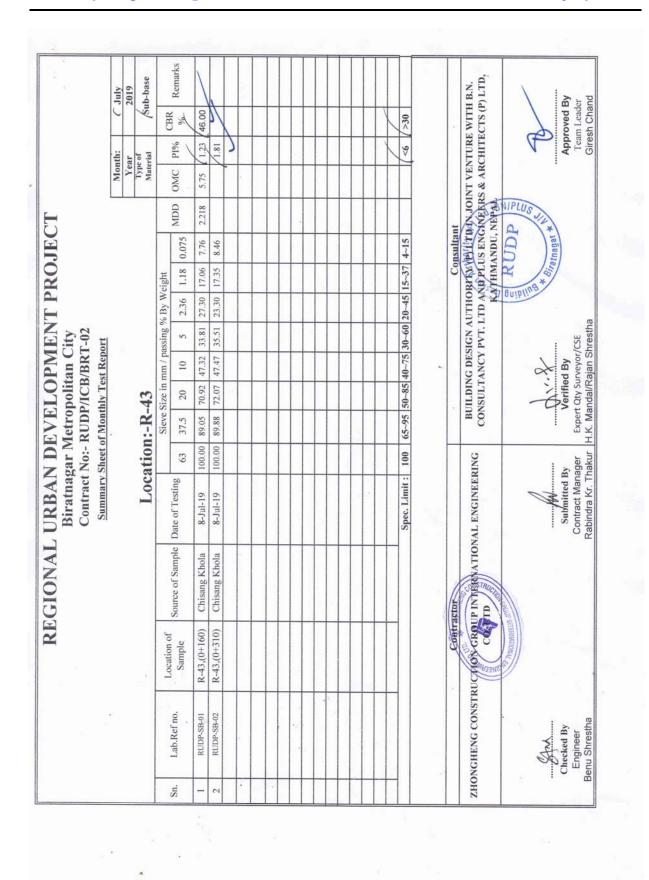






		C			DP/ICB/E		7.5		
			Summary	Sheet of	Field Density	Test		/	
							Month	1	July
			Locati	on:-T3l	.23C	T	Year pe of Material	1	2019 b-Base
	- N				e content %		(gm/cc)		action %
Sn.	Lab.Ref.no	Testing Date	Chainage		Field MC%	Max.Dry	Field Dry	Compac	Specifie
				OMC%	Field MC%	density	density,	tion	%
1	RUDP-SB-FD-1, L/S	3-Jul-19	0+020	6.00	5.90	2.232	2.145	96.10	95
2	RUDP-SB-FD-1, C/L	3-Jul-19	0+040	6.00	5.42	2.232	2.203	98.68	95
3	RUDP-SB-FD-1, R/S	3-Jul-19	0+065	6.00	5.52	2.232	2.128	95.34	95
								11 - 14	
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-	Contract	or				Cons	ultant		
I	ZHONGHENG CONSTRUCTION OF THE NATIONAL STATEMENT OF THE NATIONAL STATE	UCTION GRO NEERING CO.	UP LTD	BUILDIN B.N.	G DESIGN AI CONSULTA ARCHITEC	NCY PVI. L.	ED AND PLO	SENGINE	ERS &
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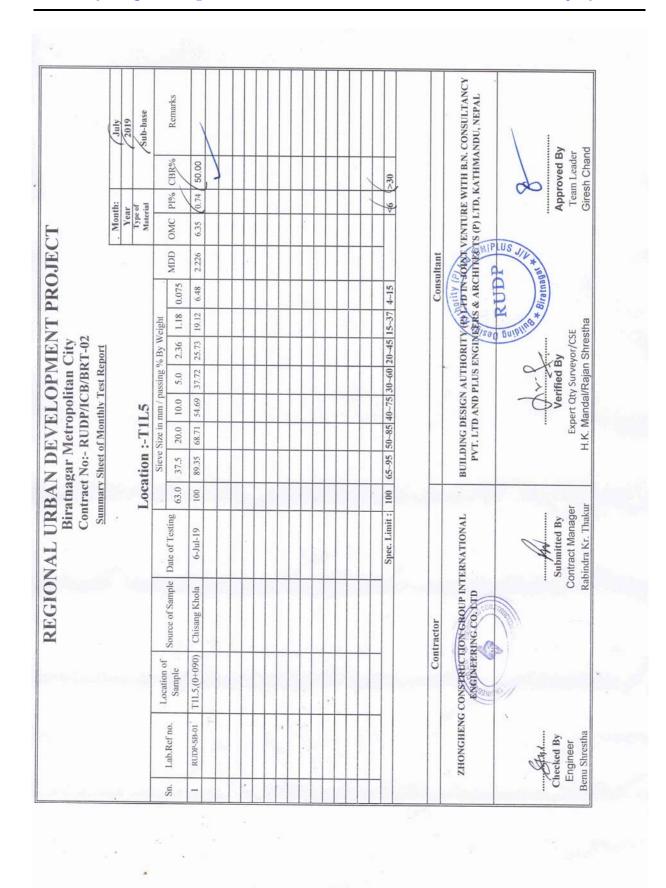






			Biratn Contra	agar M ct No:- l	letropoli RUDP/ICI	tan Cit B/BRT-(y 02	2	
			Summa	ary Sheet	of Field Den	sity Test			
							Month	July	
			Loon	tion. D	42	-	Year	2019	
			Loca	tion:-R	e content %	Danie	Type of Material sity(gm/cc)	C _{Sub-Bas}	
Sn.	Lab.Ref.no	Testing Date	Chainana			11. D		Compacti	
311.	Lab.Rel.no	resting Date	Chamage	OMC%	Field MC%	density		Compaction %	Specifie
1	RUDP-SB-FD-1, R/S	9-Jul-19	0+060	5.75	5.47	2.218	2.132	96.11	95
2	RUDP-SB-FD-1, L/S	9-Jul-19	0+130	5.75	5.09	2.218	2.132	(96.77	(95
3	RUDP-SB-FD-1, L/S	9-Jul-19	0+170	5.75	5.13	2.218	2.158	97.28	1 95
4	RUDP-SB-FD-1, R/S	9-Jul-19	0+200	5.75	5.36	2.218	2.136	98.56	-
5	RUDP-SB-FD-1, C/L	9-Jul-19	0+260	5.75	5.35			_	95
6	RUDP-SB-FD-1, R/S	9-Jul-19			5.24	2.218	2.109	(95.07	95
			0+310	5.75		2.218	2.150	(96.95	95
7	RUDP-SB-FD-1, L/S	9-Jul-19	0+350	5.75	6.00	2.218	2.123	95.07	95
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	Contrac	13011		BUILDE	NG DESIGN	ТНОВ	Consultant	OINT VENTURE	WITH D N
1	ZHONGHENG CONSTR NTERNATIONAL ENGIN	NEERING CO.	UP LTD	CONSU	JLTANCY PY	T. LIDA	ND PLUS ENGIN	VEERS & ARCHIT	ECTS (P)
	Checked By	Submittee	i By	Verifie	3/	* Biratna	15	Approved By	
	Engineer	Contract Ma	anager	Expert Qty	Surveyor/CSE		(4)	Team Leader	
	Benu Shrestha	Rabindra kr.	Thakur	H.K. Mand	dal/Rajan Shr	estha		Giresh Chand	

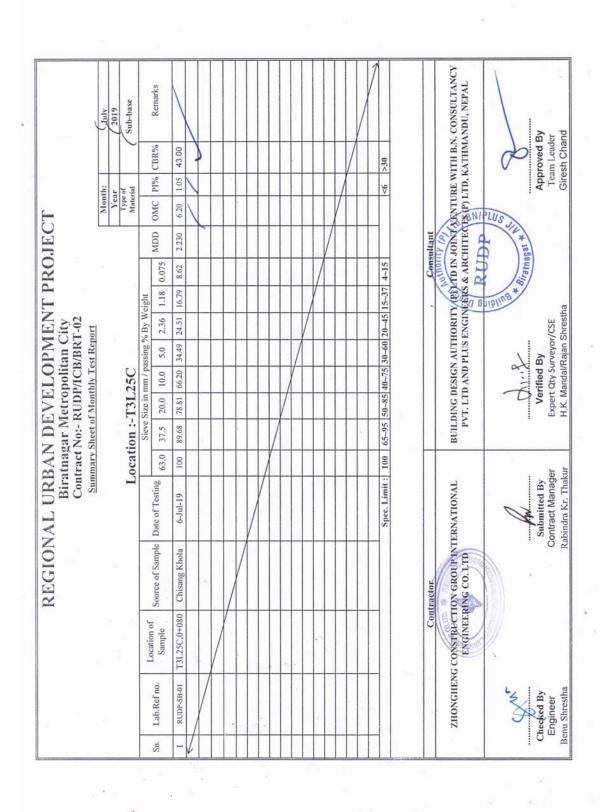






	REGIO						PROJ	ECT	
	12 h	Bi	iratnag ontract l	ar Me No:- RU	tropolita JDP/ICB/E	n City BRT-02	,		
			Summary	Sheet of	Field Density	Test			
							Month		Suly
							Year	1	2019
			Loca	tion:-T		T	ype of Material	(s	Sub-Base
				Moistur	e content %	Density	y(gm/cc)	Com	paction %
Sn.	Lab.Ref.no	Testing Date	Chainage	OMC%	Field MC9/	Max.Dry	Field Dry	Compac	Specified
				ONIC 76	Field IVIC7a	density	density,	tion	- %
1	RUDP-SB-FD-1, L/S	8-Jul-19	0+060	6.35	5.90	2.226	2.182	98.03	95
2	RUDP-SB-FD-1, C/L	8-Jul-19	0+090	6.35	5.42	2.226	2.165	97.25	95
3	RUDP-SB-FD-1, R/S	8-Jul-19	0+120	6.35	5.52	2.226	2.144	96.30	/ 95
						2.220	2.111	70.50	/ "
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		19							
	74								
	. Contrac	tor				Con	sultant		
	ZHONGHENG CONSTR	Moun	IUP	BUILDIN	NG DESIGN A	UTHORITY	(P) LYDIN J	OINT VEN	TURE WIT
]	INTERNATIONAL ENGL	NEERING CO.	LTD	B.N	ARCHITE	PRT	DATHE	JS ENGIN DU, NEPA	EERS &
	MOUNTER			· .	. 21	Birat * Birat	nagar * his	/	
	The same	W.		2	First	10		4	
	ecked By	Submitted By			Verified By		(4	Approve	d By
		ontract Manage	er	Expor	rt Qty Surveyor	/CSE		Team Le	
enu		bindra Kr. Thak	ur	H.k. Mano	dal/Rajan Shre	estha		Giresh Cl	

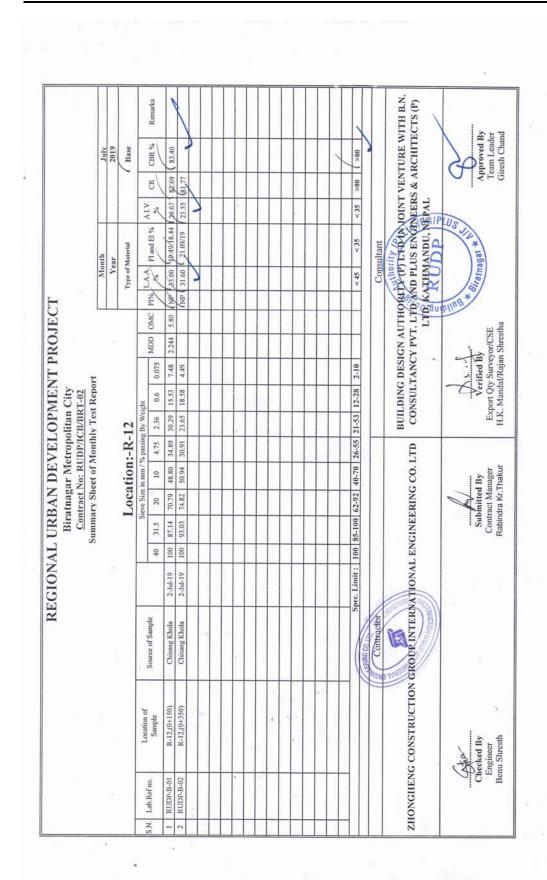






	REGIC		iratnag	gar Me	VELOP tropolitan UDP/ICB/B	City	PROJ	ECT	
		C			f Field Density				/
			Summar	y Sheet o	Field Density	Test	Month		/July
							Year	1	2019
			Locat	ion:-T3	L25C	Ty	pe of Material	(6	Sub-Base
					re content %	Density			paction %
Sn.	Lab.Ref.no	Testing Date	Chainage	OMC%	Field MC%	Max.Dry density	Field Dry density,	Compac tion	Specified
1	RUDP-SB-FD-1, R/S	7-Jul-19	0+020	6.20	5.61	2.230	2.143 /	96.09	95
2	RUDP-SB-FD-1, L/S	7-Jul-19	0+050	6.20	5.95	2.230	2.181	97.79	95
3	RUDP-SB-FD-1, R/S	7-Jul-19	0+090	6.20	5.99	2.230	2.147	96.30	95
4	RUDP-SB-FD-1, L/S	7-Jul-19	0+120	6.20	5.56	2.230	2.141	96.02	95
5	RUDP-SB-FD-1, R/S	7-Jul-19	0+140	6.20	5.12	2.230	2.166	97.13	/95
	X .								
1	ZHONGHENG CONSTR NTERNATIONAL ENGIN	UCTION GRO	UP LTD	BUILDIN	NG DESIGN AC N. CONSULTA ARCHITE	Const Const THORITY (I	P) LTDAN JO	INT VEN	TURE WITH ERS &
Che	ceked By gineer Co	Submitted By ontract Manage bindra Kr. Thak	r	Veri Export Qty	fied By Surveyor/CSE al/Rajan Shres	* Biratn	AND	Approved Team Lea	d By







			Biratr	nagar N	Tetropolita RUDP/ICB/	n City	NT PRO	TEC III	
					t of Field Densi		1.		
					200		Month	(1	uly
			Loc	cation:-1	2-12	-	Year Type of Material	-	019
- 1			1	Moistu	re content %	Dens	ity(gm/cc)		ase action %
Sn.	Lab.Ref.no	Testing Date	Chainage	OMC%	Field MC%	Max.Dr density	y Field Dry	Compaction %	Specified
1	RUDP-B-FD-1, L/S	5-Jul-19	0+155	5.80	5.72	2.244	2.222	(89.01	798
2	RUDP-B-FD-1, C/L	5-Jul-19	0+240	5.80	4.66	2.244	2.236	89.65 /	98
3	RUDP-B-FD-1, R/S	5-Jul-19	0+290	5.80	5.26	2.244	2.213	(98.63	98
4	RUDP-B-FD-1, C/L	5-Jul-19	0+350	5.80	5.48	2.244	2.206	(98.32 -	98
5	RUDP-B-FD-1, L/S	5-Jul-19	0+380	5.80	5.65	2.244	2.240	(99.81	98
6	RUDP-B-FD-1, R/S	5-Jul-19	0+400	5.80	5.89	2.244	2.241	(99,88	/ 98
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	Control of the Contro	1				1	DP		
	Glia	- K		di	X	De Bira	tnagar	. K	
	Checked By Engineer Benu Shrestha	Submitted Contract Mar Rabindra Kr. 7	ager E	xpert Qty Si	fied By urveyor/CSE II/Rajan Shresth			Approved By Team Leader	
	- 11 TM	. seemara rd. 1	randi II	LIV. Wallda	urvajan Shresth	d		Giresh Chand	

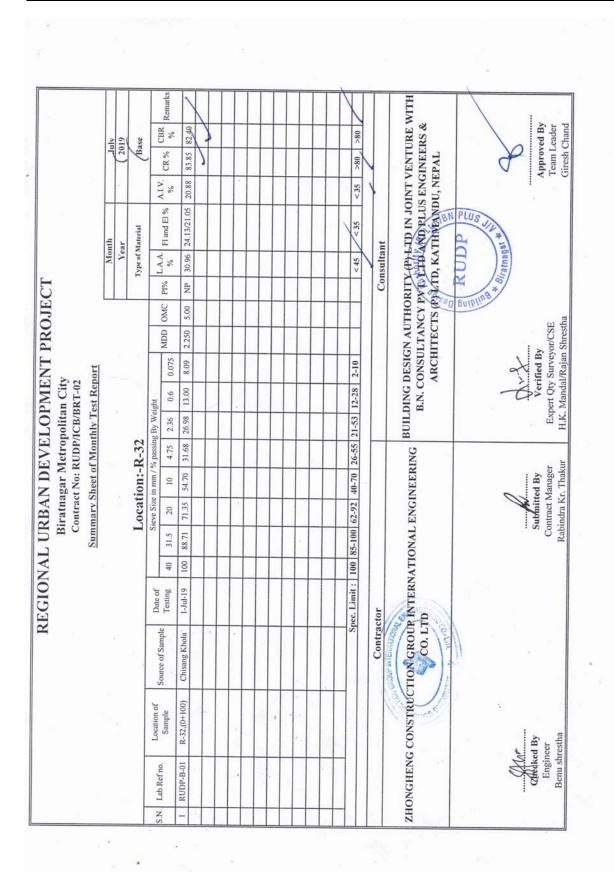


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		, X	6	se	CBD	%/ 8	83.40)			1	1	+	+	+	99	2		BUILDING DESIGN AUTHORITY PATD IN JOINT VENTURE WITH B.N. CONSULTANCY PVT. LTD AND PLUS ENGINEERS & ARCHITECTS (P) LTD, KARHMANDU, NEPAL	•	proved By	eader
		July	2019	Base		CR %	82.85	\					T				280		ENTU INEE! PAL			Team Leader
					_	18	26.47					1	T		T	100	66 >		ENG U, NE		M 4	_ (
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itan (B/BRT	v Test	•			Weight	2.36 0	30.08 20	+		-	+	+	+	+					IILDII B.N		2.	Expert Qty Surveyor/CSE
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MEGIONAL UKBAN DEVELOPMENT PROJECT Biratnagar Metropolitan City Contract No: RUDP/ICB/BRT-02	of M			L-:uo	m / % ps	10 4.	52.09 39		+	+	+	+	+	+	-	40 70 36 55 31 53	07 0/		ERIN		. B	ager
Siratnagar Metropolitan City Contract No: RUDP/ICB/BRT-02	Summary Sheet of Monthly Test Report			Location:-T1L5	Sieve Size in mm / % passing By Weight	20 1	65.17 52		H	1	+	+	-	-		00 40	08 70		GINE	_	Submitted By	Contract Manager
Bira	ımma			ĭ	Sieve	31.5 2	$\overline{}$	+	H	+	+	+		-	-	100 85 100 62.00	70 00		AL EN		Sub	Contract Manager
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5					Jo	-		+	H	+	+	+	+	H	H				ERNA			
5					Date of	Testing	8-Jul-19									Snec Limit		tor	INI A			
4		•				Source of Sample	Chisang Khola									3		Contractor	CO. DID	THE STATE OF THE PARTY OF THE P		
				,	Location of	4,	TIL'5,(0+090)	54											ZHONGHENG CONSERUCTION GROUP INTERNATIONAL ENGINEERING CO. D.D. CO. D.D.		By A	stha
					0 0 1	Lab.Ket no.	RUDP-B-01												ONGHENG		Checked By	Repli Shreetha
	05/57				1	S.	-			1									ZHC			



	REGIO	ONAL U	JRBA	N DE	VELO	PMEN	T PRO	JECT	
]	Biratna Contrac	igar M t No:- R	etropolita RUDP/ICB	an City /BRT-02			
					of Field Dens				
			75				Month	1	uly
				TO ST F			Year)19
_		1	Location		e content %		ype of Material		ase action %
C.,	Lab.Ref.no	Tantina Data	Chainean			Max.Dry	y(gm/cc) Field Dry	Compaction	Specifie
Sn.		Testing Date		Olvic 76	Field MC%	density	density,	%	%
1	RUDP-B-FD-1, R/S	25-Jul-19	0+050	5.70	5.63	2.254	2.225	98.71	98
2	RUDP-B-FD-1, L/S	25-Jul-19	0+110	5.70	5.01	2.254	2.231	98.99	98
3	RUDP-B-FD-1, R/S	25-Jul-19	0+140	5.70	5.86	2.254	2.244	99.55	98
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	ZHONGHENG CONST	EXECUTION GRO	LTD	CONSU	LTANCY PV	T. LTD AND	PLUS ENGL	NEERS & ARC	HITECTS (I
	Musim Bound	and the co	LID			TOTAL TOTAL	Time a server of the	PAL	/
		1			2/	Building + B	15	-/	
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					5-45	* 8	ratnagal	0	
	Checked By Engineer	Submitte Contract M	(1) (1) (1) (1) (1) (1) (1) (1) (1) (1)	B	ified By / Surveyor/CSE		A STATE OF THE STA	Approved E Team Leade	
	Benu Shrestha	Rabindra Kr			dal/Rajan Shr			Giresh Chai	







	REGIO	ONAL U						PRO	JECT	
			Biratna Contrac	igar M t No:- F	etropolita RUDP/ICB	an Cit /BRT-0	y 02			
			Summa	ry Sheet	of Field Dens	ity Test			/	
			4					Month	(Ji	
				T4	D 22			Year		119
_					ion:-R-32	Dan		e of Material gm/cc)		ction %
n.	Lab.Ref.no	Testing Date	Chainaga			Max.Di	-	Field Dry	Compaction	
511.	Lau.Rel.liu	resting Date	Chamage	OMC%	Field MC%	density		density,	/%	%
1	RUDP-B-FD-1, L/S	3-Jul-19	0+050	5.00	5.04	2.250		2.219	(98.64	98
2	RUDP-B-FD-1, C/L	3-Jul-19	0+090	5.00	5.47	2.250	-	2.246	/99.81	98
3	RUDP-B-FD-1, R/S	3-Jul-19	0+100	5.00	5.25	2.250)	2.221	98.73	98
4	RUDP-B-FD-1, C/L	3-Jul-19	0+140	5.00	5.01	2.250)	2.234	/99.28	98
5	RUDP-B-FD-1, R/S	3-Jul-19	0+180	5.00	5.26	2.250)	2.214	98.38	98
	*									
								11 = 8		
	₩.									
	Contrac	etor				Aut	Con	sultant		
	ZHONGHENG CONST INTERNATIONAL ENG	RUCTION GRO	DUP LTD	CONSU		ETD,R	ND P		OINT VENTUR EERS & ARCI PAL	
	The	M dhous M	,		4.34	# Bira	atnag	ar * his	V6	
	Checked By Engineer Benu shrestha	Submitte Contract M Rabindra Kr	anager		Verified By rt Qty Surveyor andal/Rajan S				Approved B Team Leade Giresh Char	r

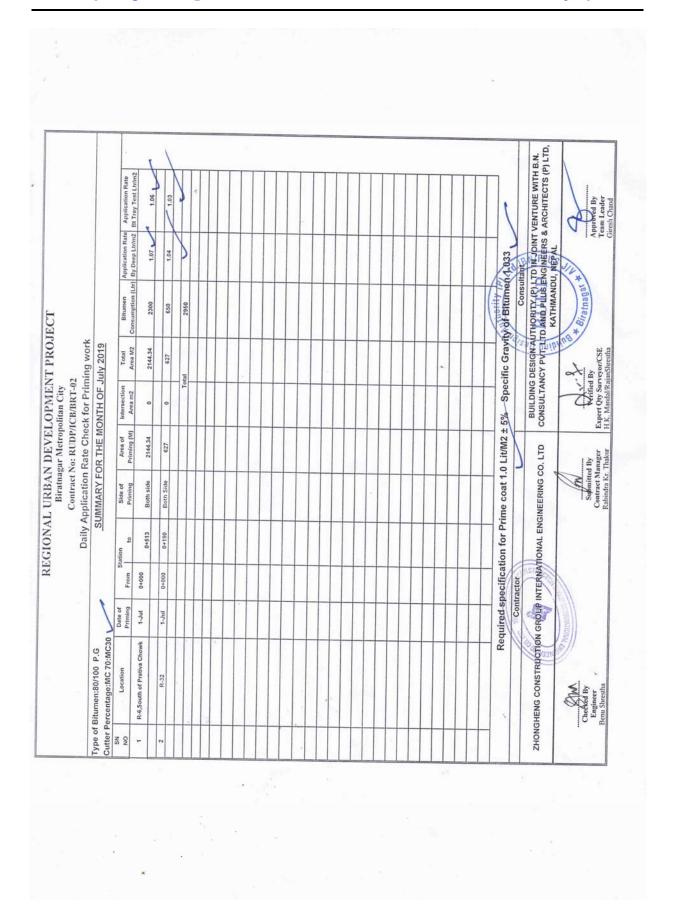




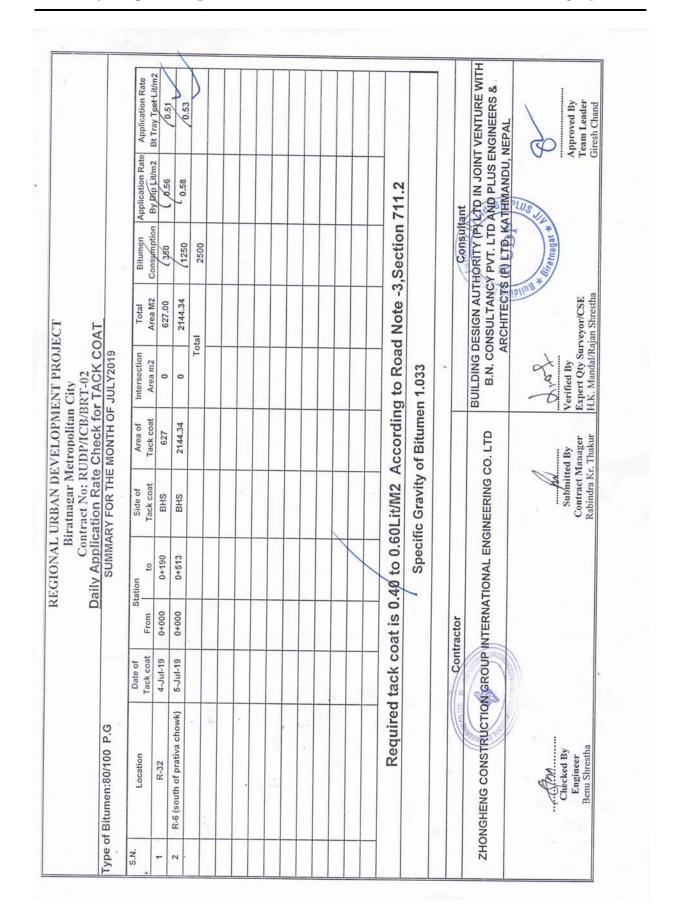


	REGI	ONAL U	JRBA	N DE	EVELO	PMEN	T PRO	JECT	
			Biratna	agar M	etropolit RUDP/ICB	an City			
					of Field Dens				
			Summi	17 SHEET	of Field Dells	sity rest	Month		
							Year	Ju 20	
					ion:-R-82		pe of Material	Ba	_
		4			e content %	Density	(gm/cc)	Compa	ction %
Sn.	Lab.Ref.no	Testing Date	Chainage	OMC%	Field MC%	Max.Dry	Field Dry	Compaction	Specifie
,	DUDD D ED 1 1 10					density	density,	%	%
1	RUDP-B-FD-1, L/S	4-Jul-19	0+030	5.10	5.60	2.250	2.249	99.95	98
2	RUDP-B-FD-1, R/S	4-Jul-19	0+050	5.10	4.99	2.250	2.224	98.83	98
3	RUDP-B-FD-1, L/S	4-Jul-19	0+140	5.10	5.58	2.250	2.228	99.03	98
4	RUDP-B-FD-1, C/L	4-Jul-19	0+210	5.10	6.15	2.250	2.227	98.97	98
5	RUDP-B-FD-1, L/S	4-Jul-19	0+290	5.10	6.37	2.250	2.220	98.65	98
6	RUDP-B-FD-1, R/S	4-Jul-19	0+350	5.10	5.99	2.250	2.248	99.91	98
7	RUDP-B-FD-1, C/L	4-Jul-19	0+420	5.10	5.37	2.250	2.246	99.81	98
8	RUDP-B-FD-1, L/S	4-Jul-19	0+480	5.10	6.51	2.250	2.244	99.74	98
9	RUDP-B-FD-1, R/S	4-Jul-19	0+520	5.10	5.03	2.250	2.239	99.50	98
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I	ZHONGHENG CONSTR STERNATIONAL ENGIN	GERING CO. 1	TD	CONSUI	TANCY PVT	LTD AND P	LUS ENGINE	EERS & ARCHI	TECTS (B)
	(E	EKING CO. I	ALD.			LEFD, KATH	MANBU, NE	PAL	(P)
	32 mm mill #	UV:		25	4.	10 1	100	. /	
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	Checked By	Submitted	D _V		2				3 m 5
	Engineer	Contract Ma			/erified By Qty Surveyor/(CSE		Approved By	
	Benu shrestha	Rabindra Kr.			idal/Rajan Shi			Team Leader Giresh Chand	

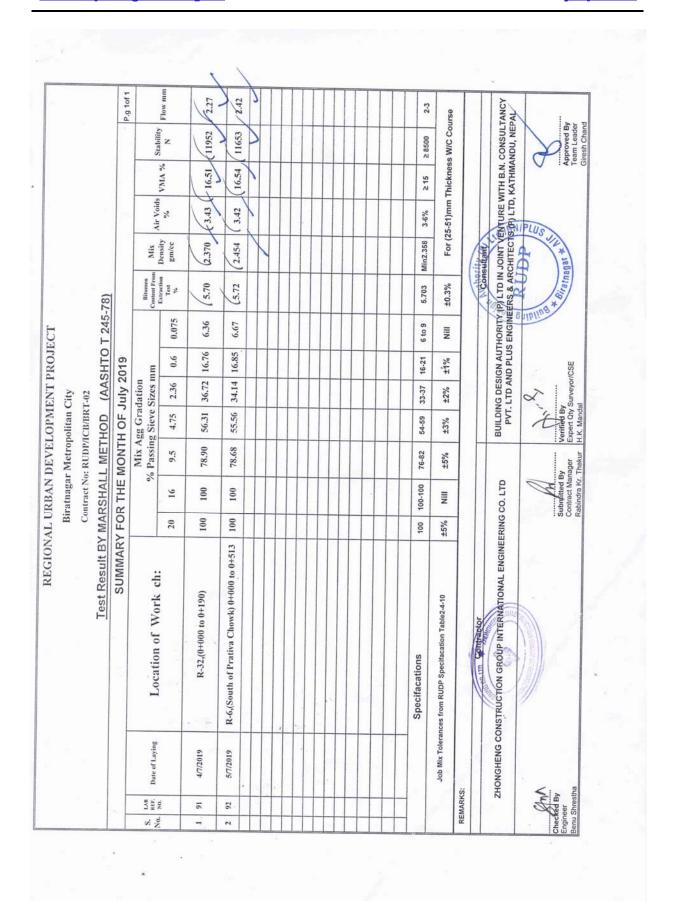














Biratnagar Metropolitan City Contract No:- RUDP/ICB/BRT-02 Summary Sheet of Mortar Test Report

								Month		J	Tuly 🗸
								Year		2	019 🗸
		,					Descri	ption of Samp	ple	Bric	k Wall
S.N.	Location	Lab	Type of Cement	Brand of	Source of Sand	Date of	Date o	f Testing	Strength	, N/mm2	Type of
		Ref.no.	Type of Cement	Cement	Source of Sand	Casting	7 Days	28 Days	7 Days	28 Days	Grade
1	T3L5	MR-2054	Saptakoshi	OPC	Chisang Khola	3-Jun-19	10-Jun-19	1-Jul-19	1	9.89	7.5
2	T2L19Y	MR-2055	Saptakoshi	OPC	Chisang Khola	3-Jun-19	10-Jun-19	1-Jul-19	1	8.93	7.5
3	T3L7B	MR-2056	Saptakoshi	OPC	Chisang Khola	3-Jun-19	10-Jun-19	1-Jul-19		8.24	7.5
4	T3L Trunk	MR-2057	Saptakoshi	OPC	Chisang Khola	3-Jun-19	10-Jun-19	1-Jul-19	1	9.07	7.5
5	R-19	MR-2058	Saptakoshi	OPC	Chisang Khola	3-Jun-19	10-Jun-19	1-Jul-19		8.52	7.5
6	T2L19X	MR-2059	Saptakoshi	OPC	Chisang Khola	3-Jun-19	10-Jun-19	1-Jul-19	1	9.48	7.5
7	R-3	MR-2060	Saptakoshi	OPC	Chisang Khola	3-Jun-19	10-Jun-19	1-Jul-19		8.52	7.5
8	R-83	MR-2061	Saptakoshi	OPC	Chisang Khola	4-Jun-19	11-Jun-19	2-Jul-19	1	9.48	7.5
9	R-6(Branch	MR-2062	Saptakoshi -	OPC	Chisang Khola	4-Jun-19	11-Jun-19	2-Jul-19	1	8.38	7.5
10	R-110	MR-2063	Saptakoshi	OPC	Chisang Khola	4-Jun-19	11-Jun-19	2-Jul-19		9.89	7.5
11	T3L7B	MR-2064	Saptakoshi	OPC	Chisang Khola	4-Jun-19	11-Jun-19	2-Jul-19		8.24	7.5
12	T2L19X	MR-2065	Saptakoshi	OPC	Chisang Khola	5-Jun-19	12-Jun-19	3-Jul-19		9:20	7.5
13	R-9	MR-2066	Saptakoshi	OPC	Chisang Khola	5-Jun-19	12-Jun-19	3-Jul-19	1	9.00	7.5
14	R-6 (Branch Road)	MR-2067	Saptakoshi	OPC	Chisang Khola	6-Jun-19	13-Jun-19	4-Jul-19	(9.07	7.5
15	T3L7C	MR-2068	Saptakoshi	OPC	Chisang Khola	6-Jun-19	13-Jun-19	4-Jul-19		/8.52	7.5
16	T2L19Y	MR-2069	Saptakoshi	OPC	Chisang Khola	7-Jun-19	14-Jun-19	5-Jul-19	1	8.93	7.5
17	R-19	MR-2070	Saptakoshi	OPC	Chisang Khola	7-Jun-19	14-Jun-19	5-Jul-19		8.24	7.5
18	T2L19Y	MR-2071	Saptakoshi	OPC	Chisang Khola	8-Jun-19	15-Jun-19	6-Jul-19	1	8.93	7.5
19	R-9	MR-2072	Saptakoshi	OPC	Chisang Khola	8-Jun-19	15-Jun-19	6-Jul-19		8.79	7.5
20	R-6 (Branch Road)	MR-2073	Saptakoshi	OPC	Chisang Khola	8-Jun-19	15-Jun-19	6-Jul-19	/	9.34	7.5
21	T3L7C	MR-2074	Saptakoshi	OPC	Chisang Khola	8-Jun-19	15-Jun-19	6-Jul-19	1	8.24	7.5
22	R-83	MR-2075	Saptakoshi	OPC	Chisang Khola	9-Jun-19	16-Jun-19	7-Jul-19	1	8.11	7.5
23	T2L19Y	MR-2076	Saptakoshi	OPC	Chisang Khola	9-Jun-19	9-Jun-19	7-Jul-19	1	8.93	7.5
24	T3L10	MR-2077	Saptakoshi .	OPC	Chisang Khola	10-Jun-19	17-Jun-19	8-Jul-19		9.48	7.5
25	T3L7B	MR-2078	Saptakoshi	OPC	Chisang Khola	10-Jun-19	17-Jun-19	8-Jul-19		9.20	7.5
26	T3L5	MR-2079	Saptakoshi	OPC	Chisang Khola	10-Jun-19	17-Jun-19	8-Jul-19	1	9.34	7.5
27	R-2	MR-2080	Saptakoshi	OPC	Chisang Khola	10-Jun-19	17-Jun-19	8-Jul-19		8.24	7.5
28	R-9	MR-2081	Saptakoshi	OPC	Chisang Khola	10-Jun-19	17-Jun-19	8-Jul-19		8.79	7.5
29	T3L39A	MR-2082	Saptakoshi	OPC	Chisang Khola	11-Jun-19	18-Jun-19	9-Jul-19		9.20	7.5
30	T3L5	MR-2083	Saptakoshi	OPC	Chisang Khola	12-Jun-19	19-Jun-19	10-Jul-19		8.93	7.5
31	R-19	MR-2084	Saptakoshi ,	OPC	Chisang Khola	13-Jun-19	20-Jun-19	11-Jul-19		8.93	7.5
32	R-83	MR-2085	Saptakoshi	OPC	Chisang Khola	13-Jun-19	20-Jun-19	11-Jul-19		8.24	7.5
		100								3.21	7.0

Contractor

ZHONGHENG CONSTRUCTION GROUP INTERNATIONAL ENGINEERING CO. LTD

Consultant

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

Checked By Engineer Benu Shrestha Submitted By Contract Manager Rabindra Kr. Thakur

Verified By

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

Approved By Team Leader Giresh Chand



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

								Month		J	luly 🗸
								Year		2	019
					,		Descr	iption of Samp	ole	Bric	k Wall
S.N.	Location	Lab	Type of Cement	Brand of	Source of Sand	Date of	Date o	f Testing	Strength	, N/mm2	Type of
17.5	* 350750736 807 E	Ref.no.	Type or coment	Cement	Source of Sand	Casting	7 Days	28 Days	7 Days	28 Days	Grade
33	T3L5	MR-2086	Saptakoshi	OPC	Chisang Khola	13-Jun-19	20-Jun-19	11-Jul-19	1	8.79	7.5
34	T2L19Y	MR-2087	Saptakoshi	OPC	Chisang Khola	14-Jun-19	21-Jun-19	12-Jul-19	(8.52	7.5
35	R-83	MR-2088	Saptakoshi	OPC	Chisang Khola	14-Jun-19	21-Jun-19	12-Jul-19	1	8.79	7.5
36	T3L10	MR-2089	Saptakoshi	OPC	Chisang Khola	14-Jun-19	21-Jun-19	12-Jul-19	1	8.93	7.5
37	T3L7B	MR-2090	Saptakoshi	OPC	Chisang Khola	15-Jun-19	22-Jun-19	13-Jul-19	1	9.20	7.5
38	R-9	MR-2091	Saptakoshi	OPC	Chisang Khola	16-Jun-19	23-Jun-19	14-Jul-19		8.52	7.5
39	T3L7B	MR-2092	Saptakoshi	OPC	Chisang Khola	16-Jun-19	23-Jun-19	14-Jul-19		8.52	7.5
40	T2L19Y	MR-2093	Saptakoshi	OPC	Chisang Khola	17-Jun-19	24-Jun-19	15-Jul-19		9.34	7.5
41	T3L10	MR-2094	Saptakoshi	OPC	Chisang Khola	17-Jun-19	24-Jun-19	15-Jul-19		8.79	7.5
42	T3L13C	MR-2095	Saptakoshi	OPC	Chisang Khola	18-Jun-19	25-Jun-19	16-Jul-19	1	9.07	7.5
43	T3L5	MR-2096	Saptakoshi	OPC	Chisang Khola	18-Jun-19	25-Jun-19	16-Jul-19		9.20	7.5
44	R-6 (Branch	MR-2097	Saptakoshi	OPC	Chisang Khola	18-Jun-19	25-Jun-19	16-Jul-19	-	8.52	7.5
45	T2L19X	MR-2098	Saptakoshi	OPC	Chisang Khola	19-Jun-19	26-Jun-19	17-Jul-19	1	9.34	7.5
46	R-19	MR-2099	Saptakoshi	OPC	Chisang Khola	19-Jun-19	26-Jun-19	17-Jul-19	1	9.20	7.5
47	T2L19G	MR-2100	Saptakoshi	OPC	Chisang Khola	20-Jun-19	27-Jun-19	18-Jul-19	1	8.79	7.5
48	T3L7C	MR-2101	Saptakoshi	OPC	Chisang Khola	20-Jun-19	27-Jun-19	18-Jul-19		9.62	7.5
49	T2L19Y	MR-2102	Saptakoshi	OPC	Chisang Khola	20-Jun-19	27-Jun-19	18-Jul-19		9.20	7.5
50	R-19	MR-2103	Saptakoshi	OPC	Chisang Khola	20-Jun-19	27-Jun-19	18-Jul-19		8.38	7.5
51	T3L7C	MR-2104	Saptakoshi	OPC	Chisang Khola	20-Jun-19	27-Jun-19	18-Jul-19		8.79	7.5
52	T2L19G	MR-2105	Saptakoshi ·	OPC	Chisang Khola	21-Jun-19	28-Jun-19	19-Jul-19		8.52	7.5
53	R-19	MR-2106	Saptakoshi	OPC	Chisang Khola	21-Jun-19	28-Jun-19	19-Jul-19		8.52	7.5
54	T3L39	MR-2107	Saptakoshi	OPC	Chisang Khola	21-Jun-19	28-Jun-19	19-Jul-19		9.62	7.5
55	R-9	MR-2108	Saptakoshi	OPC	Chisang Khola	21-Jun-19	9-Jun-19	19-Jul-19		9.89	7.5
56	T3L7C	MR-2109	Saptakoshi	OPC	Chisang Khola	21-Jun-19	28-Jun-19	19-Jul-19		8.52	7.5
57	T3L5	MR-2110	Saptakoshi	OPC	Chisang Khola	21-Jun-19	28-Jun-19	19-Jul-19		8.52	7.5
58	R-19	MR-2111	Saptakoshi	OPC	Chisang Khola	21-Jun-19	28-Jun-19	19-Jul-19		9.89	7.5
59	T3L7C	MR-2112	Saptakoshi	OPC	Chisang Khola	21-Jun-19	28-Jun-19	19-Jul-19		8.93	7.5
60	R-19	MR-2113	Saptakoshi	OPC	Chisang Khola	22-Jun-19	29-Jun-19	20-Jul-19		8.93	7.5
61	T3L5	MR-2114	Saptakoshi	OPC	Chisang Khola	22-Jun-19	29-Jun-19	20-Jul-19		8.79	7.5
62	T3L13C	MR-2115	Saptakoshi	OPC	Chisang Khola	22-Jun-19	29-Jun-19	20-Jul-19		9.07	7.5
63	T2L19G	MR-2116	Saptakoshi	OPC	Chisang Khola	22-Jun-19	29-Jun-19	20-Jul-19		8.65	7.5
64	T3L39	MR-2117	Saptakoshi	OPC	Chisang Khola	23-Jun-19	30-Jun-19	21-Jul-19		8.79	7.5

ZHONGHENG CONSTRUCTION GROUP INTERNATIONAL ENGINEERING CO. LTD

Contractor

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

Biratnagat

ENGINEERS & ARCHITECTS (P) LTD, KATHMANDU,

Approved By Team Leader

Giresh Chand

Checked By Engineer Benu Shrestha

Submitted By Contract Manager Rabindra Kr. Thakur

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

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

								Month			July 📞
								Year			019
							Descri	iption of Samp	le	Bric	k Wall
S.N.	Location	Lab	Type of Cement	Brand of	Source of Sand	Date of	Date o	f Testing	Strength		Туре
11110150		Ref.no.		Cement		Casting	7 Days	28 Days	7 Days	28 Days	Grad
65	T2L19G	MR-2118	Saptakoshi	OPC	Chisang Khola	23-Jun-19	30-Jun-19	21-Jul-19		9.48	7.5
66	T3L39	MR-2119	Saptakoshi	OPC	Chisang Khola	26-Jun-19	3-Jul-19	24-Jul-19	5.87	9.20	7.5
67	T3L5	MR-2120	Saptakoshi	OPC	Chisang Khola	26-Jun-19	3-Jul-19	24-Jul-19	5.87	8.24	7.5
68	T3L13-C	MR-2121	Saptakoshi	OPC	Chisang Khola	26-Jun-19	3-Jul-19	24-Jul-19	5.73	8.79	7.5
69	Madhumara Site	MR-2122	Saptakoshi	OPC	Chisang Khola	27-Jun-19	4-Jul-19	25-Jul-19	6.29	9.48	7.5
70	T3L13-C	MR-2123	Saptakoshi	OPC	Chisang Khola	27-Jun-19	4-Jul-19	25-Jul-19	5.59	8.65	7.5
71	R-9	MR-2124	Saptakoshi	OPC	Chisang Khola	28-Jun-19	5-Jul-19	26-Jul-19	6.15	9.89	7.5
72	T2L19G	MR-2125	Saptakoshi	OPC	Chisang Khola	28-Jun-19	5-Jul-19	26-Jul-19	5.59	8.93	7.5
73	T3L5	MR-2126	Saptakoshi	OPC	Chisang Khola	28-Jun-19	5-Jul-19	26-Jul-19	6.71	9.89	7.5
74	T3L39	MR-2127	Saptakoshi	OPC	Chisang Khola	28-Jun-19	5-Jul-19	26-Jul-19	5.87	8.24	7.5
75	T3L7C	MR-2128	Saptakoshi	OPC	Chisang Khola	30-Jun-19	7-Jul-19	28-Jul-19	6.15	8.79	7.5
76	Madhumara Site	MR-2129	Saptakoshi	OPC	Chisang Khola	30-Jun-19	7-Jul-19	28-Jul-19	6.15	9.20	17.5
77	T3L5	MR-2130	Saptakoshi	OPC	Chisang Khola	30-Jun-19	7-Jul-19	28-Jul-19	5.87	8.93	7.5
78	R-9	MR-2131	Saptakoshi	OPC	Chisang Khola	30-Jun-19	7-Jul-19	28-Jul-19	6.15	8.79	7.5
79	T3L39	MR-2132	Saptakoshi	OPC	Chisang Khola	30-Jun-19	7-Jul-19	28-Jul-19	5.59	8.24	7.5
80	T3L5	MR-2133	Saptakoshi	OPC	Chisang Khola	2-Jul-19	9-Jul-19	30-Jul-19	6.29	9.62	17.5
81	T3L13-C	MR-2134	Saptakoshî	OPC	Chisang Khola	2-Jul-19	9-Jul-19	30-Jul-19	6.57	8.65	/7.5
82	Madhumara Site	MR-2135	Saptakoshi	OPC	Chisang Khola	2-Jul-19	9-Jul-19	30-Jul-19	6.43	9.20	7.5
83	Madhumara Site	MR-2136	Saptakoshi	OPC	Chisang Khola	3-Jul-19	10-Jul-19	31-Jul-19	6.43	9.20	/ 7.5
84	T2L19G	MR-2137	Saptakoshi	OPC	Chisang Khola	5-Jul-19	12-Jul-19	2-Aug-19	6.01	V	7.5
85	R-9	MR-2138	Saptakoshi	OPC	Chisang Khola	5-Jul-19	12-Jul-19	2-Aug-19	6.01		7.5
86	T3L7C	MR-2139	Saptakoshi	OPC	Chisang Khola	5-Jul-19	12-Jul-19	2-Aug-19	5.87		7.5
87	R-9	MR-2140	Saptakoshi	OPC	Chisang Khola	18-Jul-19	25-Jul-19	15-Aug-19	6.29		7.5
88	T3L22	MR-2141	Saptakoshi	OPC	Chisang Khola	18-Jul-19	25-Jul-19	15-Aug-19	6.15		7.5
89	T3L39	MR-2142	Saptakoshi	OPC	Chisang Khola	18-Jul-19	25-Jul-19	15-Aug-19	6.29		7.5
90	R-9	MR-2143	Saptakoshi	OPC	Chisang Khola	20-Jul-19	27-Jul-19	17-Aug-19	6.29		7.5
91	T3L39	MR-2144	Saptakoshi	OPC	Chisang Khola	20-Jul-19	27-Jul-19	17-Aug-19	6.01		7.5
92	T3L22	MR-2145	Saptakoshi -	OPC	Chisang Khola	20-Jul-19	27-Jul-19	17-Aug-19	6.43		7.5
93	R-9	MR-2146	Saptakoshi	OPC	Chisang Khola	20-Jul-19	27-Jul-19	17-Aug-19	6.85	1	7.5
									/		

ZHONGHENG CONSTRUCTION GROUP

Contractor

INTERNATIONAL ENGINEERING CO. LTD.

Consultant

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

NEPAL D

Biratnagat *

Checked By Engineer

Benu Shrestha

Submitted By Contract Manager Rabindra Kr. Thakur

Verified By

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



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

7 8	Location T3L T. LINE Koshi Yard T3L10	Lab Ref.no.	Type of					Year		Cons.	
1 2 3 4 5 M 6 7 8 8	T3L T. LINE Koshi Yard	Lab Ref.no.	Type of								
1 2 3 4 5 M 6 7 8 8	T3L T. LINE Koshi Yard	Lab Ref.no.	Type of					pe of Material			Cube
2 3 4 5 M 6	Koshi Yard		Cement	Brand of Gement	Source of Sand+Agg.	Date of Casting	Date of 7 7 Days	Pesting 28 Days	7 Days	N/mm2	Concr
3 4 5 M		RUDP-2283	Saptakoshi	OPC	Chisang Khola	3-Jun-19	10-Jun-19	1-Jul-19		. 22.41	M20
4 5 M	T31.10	RUDP-2284	Saptakoshi	OPC	Chisang Khola	3-Jun-19	10-Jun-19	1-Jul-19		Z2.73	M2
5 M 5 7		RUDP-2285	Saptakoshi	OPC	Chisang Khola	3-Jun-19	10-Jun-19	1-Jul-19		23.03	M2
6 7 8	Judi Yard	RUDP-2286	Saptakoshi	OPC	Chisang Khola	3-Jun-19	10-Jun-19	1-Jul-19		24.02	/ M2
7	dadhumara Yard	RUDP-2287	Saptakoshi	OPC	Chisang Khola	4-Jun-19	11-Jun-19	2-Jul-19		27.16	M2
8	R-9	RUDP-2288	Saptakoshi	OPC	Chisang Khola	5-Jun-19	12-Jun-19	3-Jul-19		21.48	M2
_	Koshi Yard	RUDP-2289	Saptakoshi	OPC	Chisang Khola	5-Jun-19	12-Jun-19	3-Jul-19		22.73	M2
-	R-3	RUDP-2290	Saptakoshi	OPC	Chisang Khola	5-Jun-19	12-Jun-19	3-Jul-19		22.55	M2
)	R-46	RUDP-2291	Saptakoshi	OPC	Chisang Khola	5-Jun-19	12-Jun-19	3-Jul-19		22.73	M2
0	R-110	RUDP-2292	Saptakoshi	OPC	Chisang Khola	6-Jun-19	13-Jun-19	4-Jul-19		23.48	M2
1	Judi Yard	RUDP-2293	Saptakoshi	OPC	Chisang Khola	6-Jun-19	13-Jun-19	4-Jul-19		/ 23.03	M2
2	R-83	RUDP-2294	Saptakoshi	OPC	Chisang Khola	7-Jun-19	14-Jun-19	5-Jul-19		21.78	_
3	T2L19X	RUDP-2295	Saptakoshi	OPC	Chisang Khola	7-Jun-19	14-Jun-19	5-Jul-19	_		M2 M2
4	R-110	RUDP-2296	Saptakoshi	OPC	Chisang Khola	7-Jun-19 7-Jun-19	14-Jun-19 14-Jun-19	5-Jul-19		21.56	M2
5	R-9	RUDP-2297	Saptakoshi	OPC	Chisang Khola	7-Jun-19 7-Jun-19	14-Jun-19	5-Jul-19 5-Jul-19		22.78	
_	t-6,Branch Road	RUDP-2298	Saptakoshi	OPC	Chisang Khola	8-Jun-19	15-Jun-19	6-Jul-19			M2
_	Aadhumara Yard	RUDP-2299	Saptakoshi	OPC	Chisang Khola	9-Jun-19		7-Jul-19		23.55	M2
8	R-2	RUDP-2300	Santakoshi	OPC	Chisang Khola	9-Jun-19	16-Jun-19 16-Jun-19	7-Jul-19		26,86	M2
9	R-73	RUDP-2301	Saptakoshi	OPC		9-Jun-19				23.13	M2
0		RUDP-2302	Saptakoshi		Chisang Khola		16-Jun-19	7-Jul-19		22.96	M2
1	T3L5 .		Saptakoshi	OPC	Chisang Khola	9-Jun-19	16-Jun-19	7-Jul-19		23.62	M2
	T37C	RUDP-2303	Saptakoshi	OPC	Chisang Khola	10-Jun-19	17-Jun-19	8-Jul-19		121.71	M2
2 M	1adhumara Yard R-9	RUDP-2304		OPC	Chisang Khola	11-Jun-19	18-Jun-19	9-Jul-19		22.00	M2
	11.5	RUDP-2305	Saptakoshi	OPC	Chisang Khola	12-Jun-19	19-Jun-19	10-Jul-19		22.23	M2
	k-6,Branch Road	RUDP-2306	Saptakoshi	OPC	Chisang Khola	12-Jun-19	19-Jun-19	10-Jul-19		23.43	M2
5	Koshi Yard	RUDP-2307	Saptakoshi	OPC	Chisang Khola	12-Jun-19	19-Jun-19	10-Jul-19	<u>6</u>	23.03	M2
6	T2L19Y	RUDP-2308	Saptakoshi	OPC	Chisang Khola	12-Jun-19	19-Jun-19	10-Jul-19	A STREET, ST.	22.96	M2
7	T2L19Y	RUDP-2309	Saptakoshi	OPC	Chisang Khola	12-Jun-19	19-Jun-19	10-Jul-19		23.43	M2
8	R-19	RUDP-2310	Saptakoshi	OPC	Chisang Khola	12-Jun-19	19-Jun-19	10-Jul-19		23 73	M2
	T3L T, LINE	RUDP-2311	Saptakoshi	OPC	Chisang Khola	12-Jun-19	19-Jun-19	10-Jul-19		22.48	M2
-	fadhumara Yard	RUDP-2312	Saptakoshi	OPC	Chisang Khola	13-Jun-19	20-Jun-19	11-Jul-19		26.55 €	M2
$\overline{}$	t-6,Branch Road	RUDP-2313	Saptakoshi	OPC	Chisang Khola	14-Jun-19	21-Jun-19	12-Jul-19		22.36	M2
2	T3L7B	RUDP-2314	Saptakoshi	OPC	Chisang Khola	14-Jun-19	21-Jun-19	12-Jul-19		24.25	M2
3	T3L5	RUDP-2315	Saptakoshi	OPC	Chisang Khola	15-Jun-19	22-Jun-19	13-Jul-19	111	22.59	M2
4	T3L7C	RUDP-2316	Saptakoshi	OPC	Chisang Khola	15-Jun-19	22-Jun-19	13-Jul-19		23.48	M2
5	Koshi Yard	RUDP-2317	Saptakoshi	OPC	Chisang Khola	15-Jun-19	22-Jun-19	13-Jul-19		22,33	M2
6	R-110	RUDP-2318	Saptakoshi	OPC	Chisang Khola	16-Jun-19	23-Jun-19	14-Jul-19		21.78	M2
7	T3L22A	RUDP-2319	Saptakoshi	OPC	Chisang Khola	16-Jun-19	23-Jun-19	14-Jul-19		22.18	M2
8	R-19	RUDP-2320	Saptakoshi	OPC	Chisang Khola	16-Jun-19	23-Jun-19	14-Jul-19		22.88	M2
9	T2L19Y	RUDP-2321	Saptakoshi	OPC	Chisang Khola	16-Jun-19	23-Jun-19	14-Jul-19		22.63	M2
0	Koshi Yard	RUDP-2322	Saptakoshi	OPC	Chisang Khola	16-Jun-19	23-Jun-19	14-Jul-19		23.21	M2
1	T3L T. LINE	RUDP-2323	Saptakoshi	OPC	Chisang Khola	16-Jun-19	23-Jun-19	14-Jul-19		22.96	M2
2	T3L5	RUDP-2324	Saptakoshi	OPC	Chisang Khola	16-Jun-19	23-Jun-19	14-Jul-19		22.84	M2
3	T2L19X	RUDP-2325	Saptakoshi	OPC	Chisang Khola	16-Jun-19	23-Jun-19	14-Jul-19		23.65	M2
4	R-83	RUDP-2326	Saptakoshi	OPC	Chisang Khola	16-Jun-19	23-Jun-19	14-Jul-19		23.28	M2
5 R-	-6,Branch Road	RUDP-2327	Saptakoshi	OPC	Chisang Khola	16-Jun-19	23-Jun-19	14-Jul-19	/	23.48	M2
6	R-19	RUDP-2328	Saptakoshi	OPC	Chisang Khola *	17-Jun-19	24-Jun-19	15-Jul-19	-	23.10	M2
7	T3L5	RUDP-2329	Saptakoshi	OPC	Chisang Khola	18-Jun-19	25-Jun-19	16-Jul-19		22.55	M2
8	Judi Yard	RUDP-2330	Saptakoshi	OPC	Chisang Khola	18-Jun-19	25-Jun-19	16-Jul-19		22.00	M2
	/	Contracto	r					osultant		./	

INTERNATIONAL ENGINEERING CO. LTD

CONSULTANCY PVT. LTD AND PLUS ENGINEERS & ARCHITECTS (P)

LTD, KATHMANDY, NEPAL

Biratnagat

Checked By Engineer

Submitted By Contract Manager Rabindra K.Thakur

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

Giresh Chand



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

								Month		Ju	ly
						[Year		201	19
				9			T	ype of Material		Conc.	Cube
N.	Location	Lab Ref.no.	Type of	Brand of	Source of	Date of	Date of	1	Strength,		Concre
			Cement	Cement	Sand+Agg.	Casting	7 Days	28 Days	7 Days	28 Days	Grade
19	T2L19Y	RUDP-2331	Saptakoshi	OPC	Chisang Khola	19-Jun-19	26-Jun-19	17-Jul-19		23.28	M20
50	R-110	RUDP-2332	Saptakoshi	OPC	Chisang Khola	19-Jun-19	26-Jun-19	17-Jul-19		22.73	M20
51	T3L5	RUDP-2333	Saptakoshi	OPC	Chisang Khola	19-Jun-19	26-Jun-19	17-Jul-19		23.55	M20
52	T2L19X	RUDP-2334	Saptakoshi	OPC	Chisang Khola	19-Jun-19	26-Jun-19	17-Jul-19		23.03	M20
53	T3L5	RUDP-2335	Saptakoshi	OPC	Chisang Khola	20-Jun-19	27-Jun-19	18-Jul-19		22.81	M20
54	Judi Yard	RUDP-2336	Saptakoshi	OPC	Chisang Khola	20-Jun-19	27-Jun-19	18-Jul-19		22.88	M20
55	T3L13C	RUDP-2337	Saptakoshi	OPC	Chisang Khola	21-Jun-19	28-Jun-19	19-Jul-19		23.65	M20
56	R-19	RUDP-2338	Saptakoshi	OPC	Chisang Khola	21-Jun-19	28-Jun-19	19-Jul-19		22.00	M20
57	Judi Yard	RUDP-2339	Saptakoshi	OPC	Chisang Khola	21-Jun-19	28-Jun-19	19-Jul-19		22.88	M20
58	R-6	RUDP-2340	Saptakoshi	OPC	Chisang Khola	21-Jun-19	28-Jun-19	19-Jul-19		23.03	M20
59	T3L10	RUDP-2341	Saptakoshi	OPC	Chisang Khola	21-Jun-19	28-Jun-19	19-Jul-19		22.26	M20
60	R-19 ·	RUDP-2342	Saptakoshi	OPC	Chisang Khola	22-Jun-19	29-Jun-19	20-Jul-19		22.88	M20
61	T3L13C	RUDP-2343	Saptakoshi	OPC	Chisang Khola	22-Jun-19	29-Jun-19	20-Jul-19		22.81 /	M20
52	T3L22B	RUDP-2344	Saptakoshi	OPC	Chisang Khola	22-Jun-19	29-Jun-19	20-Jul-19		23.28	M20
63	Judi Yard	RUDP-2345	Saptakoshi	OPC	Chisang Khola	22-Jun-19	29-Jun-19	20-Jul-19		22.88	M20
54	R-9	RUDP-2346	Saptakoshi	OPC	Chisang Khola	22-Jun-19	29-Jun-19	20-Jul-19		23.73	M20
65	T3L22A	RUDP-2347	Saptakoshi	OPC	Chisang Khola	22-Jun-19	29-Jun-19	≈ 20-Jul-19		22.63	M20
66	Judi Yard	RUDP-2348	Saptakoshi	OPC	Chisang Khola	23-Jun-19	30-Jun-19	21-Jul-19		23.43	M20
57	R-19	RUDP-2349	Saptakoshi	OPC	Chisang Khola	23-Jun-19	30-Jun-19	21-Jul-19		23.03	M20
68	T3L13C -	RUDP-2350	Saptakoshi	OPC	Chisang Khola	23-Jun-19	30-Jun-19	21-Jul-19		23.18	M20
59	T2L19G	RUDP-2351	Saptakoshi	OPC	Chisang Khola	23-Jun-19	30-Jun-19	21-Jul-19		23.43	M20
70	T3L7C	RUDP-2352	Saptakoshi	OPC	Chisang Khola	23-Jun-19	30-Jun-19	21-Jul-19		22.33	M20
71	T3L39	RUDP-2353	Saptakoshi	OPC	Chisang Khola	24-Jun-19	1-Jul-19	22-Jul-19	15.35	22.11	M20
72	T3L5	RUDP-2354	Saptakoshi	OPC	Chisang Khola	24-Jun-19	1-Jul-19	22-Jul-19	15.65	22.81	M20
73	T3L13-C	RUDP-2355	Saptakoshi	OPC	Chisang Khola	24-Jun-19	1-Jul-19	22-Jul-19	14.53	22.21	M20
74	Madhumara site	RUDP-2356	Saptakoshi	OPC	Chisang Khola	26-Jun-19	3-Jul-19	24-Jul-19	14.38	22.88	M20
75	R-9	RUDP-2357	Saptakoshi	OPC	Chisang Khola	28-Jun-19	5-Jul-19	26-Jul-19	14.90	23.18	/ M20
76	T2L19G	RUDP-2358	Saptakoshi	OPC	Chisang Khola	28-Jun-19	5-Jul-19	26-Jul-19	15.28	24.02	M20
77	T3L7C	RUDP-2359	Saptakoshi	OPC	Chisang Khola	29-Jun-19	6-Jul-19	27-Jul-19	14.98	22.91	M20
78	R-7	RUDP-2360	Saptakoshi	OPC	Chisang Khola	29-Jun-19	6-Jul-19	27-Jul-19	15.20	22.62	M20
79	R-87	RUDP-2361	Saptakoshi	.OPC	Chisang Khola	29-Jun-19	6-Jul-19	27-Jul-19	14.61	22.95	M20
80	T3L22	RUDP-2362	Saptakoshi	OPC	Chisang Khola	29-Jun-19	6-Jul-19	27-Jul-19	15.28	23.73	M20
81	T3L39	RUDP-2363	Saptakoshi	OPC	Chisang Khola	30-Jun-19	7-Jul-19	28-Jul-19	14.38	21.93	M20
82	T3L13-C	RUDP-2364	Saptakoshi	OPC	Chisang Khola	30-Jun-19	7-Jul-19	28-Jul-19	14.23	23.03	M20
83	Judi Yard	RUDP-2365	Saptakoshi	OPC	Chisang Khola	30-Jun-19	7-Jul-19	28-Jul-19	15.13	23.73	M20
84	T3L5	RUDP-2366	Saptakoshi	OPC	Chisang Khola	2-Jul-19	9-Jul-19	30-Jul-19	14.46	22.51	M20
85	R-9	RUDP-2367	Saptakoshi	OPC	Chisang Khola	2-Jul-19	9-Jul-19	30-Jul-19	14.83	23.25	M20
86	R-9	RUDP-2368	Saptakoshi	OPC	Chisang Khola	3-Jul-19	10-Jul-19	31-Jul-19	13.93	22.78	M20
87	T2L19G	RUDP-2369	Saptakoshi	OPC	Chisang Khola	3-Jul-19	10-Jul-19	31-Jul-19	14.98	22.11	M20
88	R-7	RUDP-2370	Saptakoshi	OPC	Chisang Khola	4-Jul-19	11-Jul-19	1-Aug-19	14.53	./	M20
89	Madhumara site	RUDP-2371	Saptakoshi	OPC	Chisang Khola	6-Jul-19	13-Jul-19	3-Aug-19	14.90	~~	M20
00	T3L5	RUDP-2372	Saptakoshi	OPC	Chisang Khola	6-Jul-19	13-Jul-19	3-Aug-19	14.75		M20
11	R-87	RUDP-2373	Saptakoshi	OPC	Chisang Khola	6-Jul-19	13-Jul-19	3-Aug-19	14.61		M20
92	R-12	RÜDP-2374	Saptakoshi	OPC	Chisang Khola	17-Jul-19	24-Jul-19	14-Aug-19	15.05		_
93	R-6	RUDP-2375	Saptakoshi	OPC	Chisang Khola	17-Jul-19	24-Jul-19 24-Jul-19	14-Aug-19 14-Aug-19			M20
04	R-82	RUDP-2376	Saptakoshi	OPC	Chisang Khola	17-Jul-19 17-Jul-19			15.43		M20
95	R-9	RUDP-2377	Saptakoshi	OPC	Chisang Khola	18-Jul-19	24-Jul-19	14-Aug-19	14.46		M20
96	T3L22	RUDP-2377 RUDP-2378	Saptakoshi	OPC		18-Jul-19 18-Jul-19	25-Jul-19	15-Aug-19	14.16		M20
-6	1,40,44	The second second		OPC	r Chisang Khola	10-701-19	25-Jul-19	15-Aug-19	13.93		M20
	-//	Contracto					-	onsultant			/

ZHONGHENG CONSTRUCTION GROUP INTERNATIONAL ENGINEERING CO. LTD BUILDING DESIGN AUTHORITY (P) LTD IN JOINT VENTURE WITH B.N. CONSULTANCY PVT. LTD AND PLUS ENGINEERS & ARCHITECTS (P)

LTD, KATHMANDU, NEPAL

Checked By Engineer Benu Shrestha

Submitted By Contract Manager Rabindra K.Thakur

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

Approved By Team Leader Giresh Chand



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S.N.	Location	Lab Ref.no.	Type of Cement	Cement	Sand+Agg.	Date of Casting	7 Days	28 Days	7 Days	28 Days	Concrete
97	T3L39	RUDP-2379	Saptakoshi	OPC	Chisang Khola	18-Jul-19	25-Jul-19	15-Aug-19	14.61 -	20 Days	M20
		000000000000000000000000000000000000000	Saptakoshi			20-Jul-19	15010000000000			9	
98	T3L39	RUDP-2380		OPC	Chisang Khola		27-Jul-19	17-Aug-19	15.28		M20
99	R-9	RUDP-2381	Saptakoshi	OPC	Chisang Khola	20-Jul-19	27-Jul-19	17-Aug-19	15.80		M20
100	T3L22	RUDP-2382	Saptakoshi	· OPC	Chisang Khola	20-Jul-19	27-Jul-19	17-Aug-19	13.86	/	M20
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neck	A CONTRACTOR OF THE PARTY OF TH		Contract		Expert Qty Sur	1000				eam Leade	-



		July (2019	20 mm Agg		Kemarks											1		1				1	1			URE WITH		ved By
		Ju	20	20 mn	1 1 1 1 0 0	A.I.V.%	21.11	19.26	17.88	21.53	21.28	21.33	19.97	20.82	21.02	20.44	20.97	20.00	69.61	1					<25		T VENT NGINEE NEPAL	1	Approved By Team Leader
		th.		aterial	70 13 17 13	ri and El %	18.36/14.81	18.19/17.78	15.90/18.65	17.27/17.78	16.76/16.43	16.61/18.32	17.27/18.84	17.20/19.00	16.39/16.86	17.15/18.01	16.57/17.53	18.59/18.40	18.88/18.61	1					< 25	1	BUILDING DESIGN AUTHORITY (P) LED IN JOINT VENTURE WITH B.N. CONSULTANCY PVT. LTD AND PLUS ENGINEERS & ARCHITECTS (P) LTD - KATHMANDU, NEPAL	S JIV	
ECT		Month	Year	Type of Material	1 4 4 0/	L.A.A.70	27.10	30.96	24.96	23.80	25.50	26.96	20.00	29.80	28.92	27.98	29.58	28.50 /	29.96	>					<35	Consultar	TTY (P) (S)	550 *	oiratnagai
PR0J	Agg.	_			ight	3	1.53	1.13	1.14	1.25	2.22	1.09	1.89	67.1	1.33	1.37	1.25	81.18	1.22	1				T	0~2		UTHOR NCV PY	ining *	
ENT	ity -02 of 20mm				Sieve Size in mm / % Passing by weight	10	4.66	4.38	3.97	6.31	. 76.6	10.07	12.09	10.68	1000	8.37	7.09	5.22	4.94	1					0~25	-	ESIGN A NSULTA RCHITE		Verified By Expert Qty Surveyor/CSE
OPM	litan C CB/BRT Report o				m / % Pa	14	22.42	22.08	24.43	30.76	41.55	38.38	39.70	38.45	20.29	35.29	31.21	28.36	35.24	>	1				0~20		DING DI B.N. CO	· 3	Verified By Expert Qty Surveyor/CSI
EVEL	Tetropo RUDP/I				Size in m	20	87.34	89.10	88.88	89.86	90.13	88.03	00.33	89.79	90.03	89.16	88.42	87.45	20.97	>					85~100		BUILI	Samo	Expert Q
ION	Biratnagar Metropolitan City Contract No:- RUDP/ICB/BRT-02 Sheet of Monthly Test Report of 20				Sieve	37.5	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	1					100		IL		3y ager
EGIONAL URBAN DEVELOPMENT PROJECT	Biratnagar Metropolitan City Contract No:- RUDP/ICB/BRT-02 Summary Sheet of Monthly Test Report of 20mm Agg.				Source of Sounds	Source or Sample	Chisang Khola	Chisang Khola	Chisang Khola	Chisang Khola	Chisang Khola	Chisang Knola	Chisang Knola	Chicang Khola	Chisang Knola	Chisang Khola	Chisang Khola	Chisang Khola	Chisang Khola						Spec. Limit :		ROUP INTERNATIONAL	0	Submitted By Contract Manager
REGIO	931				Location of	Sample	T3L5	T3L39	T3L13-C	Madhumara Yard	T2170	135/C	N-7	R-/	K-0/	131.22	K-9		13L39							Contractor			
					Date of Testing	Date of Lesting	1-Jul-19	2-Jul-19	2-Jul-19	4-Jul-19	4-Jul-19	5-Jul-19	21-Int-C	6-Jul-19	0-Jul-19	/-Jul-19	19-101-19	19-101-19	19-Jul-19							0	S CONSTRUCTION (ENGINEERING	W. S. WILLER	
					Lab Ref no		RUDP-CA-374	RUDP-CA-375	RUDP-CA-376	RUDP-CA-377	RUDE-CA-3/8	PUDE-CA-379	PUDD-CA-381	PUDI-CA-381	DITUD CA 303	DITIDD CA 304	RUDF-CA-384	RUDF-CA-383	KUDF-CA-386								ZHONGHENG CONSTRUCTION CENGINEERING	Chris	Checked By Engineer Benn Shreetha
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Summing Dy		Remarks TURE WITH	Ju Canere Clay Content% 1.31 / 0.51 0.51 0.59 0.58 0.71 0.59 0.60 0.60 0.60 0.60 0.83 0.74 1.12 / 0.15 0.95 0.95 0.95 0.95 0.95 0.95 0.95 0.9	0.150 0.150 5.30 5.30 5.30 5.30 6.00	Monti Vear Type of Type of Materia Mat	30.00 15-100 15-	10 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	17 MLE tan Cit, tan Cit, by 18 / 18 / 18 / 18 / 18 / 18 / 18 / 18	Siev Siev Siev Siev Siev Siev Siev Siev		REGIONAL URBAN DEVELOPMENT PROJECT Biratnagar Metropolitan City Contract No:- RUDP/ICB/BRT-02 National Contract No:- RUDP/ICB/BRT-03 National Contract No:- RULP National Contract No:- RULP National Contract Rulp National Rulp National Contract Rulp Rulp National Rulp Rulp Rulp Rulp Rulp Rulp Rulp Rul	Contractor Con	Date of Testing 2-Jul-19 2-Jul-19 4-Jul-19 4-Jul-19 5-Jul-19 5-Jul-19 6-Jul-19 6-Jul-19 17-Jul-19 17-Jul-1	Lab.Ref no. RUDP-CS-376 RUDP-CS-378 RUDP-CS-389 RUDP-CS-381 RUDP-CS-381	S.S. n. 2 2 2 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1
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Schmitted By Verified By		TURE WITH	S ENGINE	PD IN JO	LTD A	CY PVT	IGN AU ULTAN HITECT	NG DESI N. CONS ARC	BUILDII B.1		P INTERNATION	Contractor SUCTION GROUN NEERING CO. E.	CONSTI	HONGHENG	7
HENG CONSTRUCTION GROUP INTERNATIONAL BUILDING DESIGN AUTHORITY (E/LPB IN JOI B.N. CONSULTANCY PVT. LTD AKO PLUS ARCHITECTS (P) LTD, KATHMANDI ARCHITECTS (P) LTD, KATHMANDI Sinkmitted Ry Verified Ry Verified Ry			3%	0~15	2~20	15~100	30~100	001~09	89~100	100	Spec. Limit:				1
Spec. Limit : 100 Contractor Contractor ENGINEERING CO. LTD ENGINEERING CO. LTD Submitted Ry															
Contractor Contractor HENG CONSTRUCTION GROUP INTERNATIONAL ENGINEERING CO. LTD Submitted RV	T 1														1
Spec. Limit: 100 Contractor Contractor ENGINEERING CO. LTD ENGINEERING CO. LTD Submitted Ry					>))	>	>	>					1
Contractor Contractor HENG CONSTRUCTION GROUP INTERNATIONAL ENGINEERING CO. LTD Submitted Ry				1	1	1	77.10	10.01	20.43	100.00	Chisang Knola	K-82	17-Jul-19	RUDP-CS-388	
Contractor Contractor ENGINEERING CO.LTD Configuration Contractor			130	3.35	20.07	30.70	50.24	72.51	94.55	100.00	Chisang Khola	R-6	17-Jul-19	RUDP-CS-387	\rightarrow
S-388 17-Jul-19 R-6 Chisang Khola 100.00			7 200	5.11	14.14	25.86	50.00	75.94	93.68	100.00	Chisang Khola	R-12	7-Jul-19	RUDP-CS-386	
S-386 7-Jul-19 R-6 Chisang Khola 100.00			0.74	4.03	12.03	26.81	41.91	63.98	93.73	100.00	Chisang Khola	T3L22	6-Jul-19	RUDP-CS-385	+
S-385 6-Jul-19 T31.22 Chisang Khola 100.00			0.83	3.65	12.06	27.42	50.32	74.96	93.86	100.00	Chisang Khola	R-87	6-Jul-19	RUDP-CS-384	
Contractor Con			09.0	4.81	17.50	36.41	59.62	80.45	94.13	100.00	Chisang Khola	K-9	5-Jul-19	RUDP-CS-382	-
Sec. Contractor Contracto	_	1	1.30	00.00	16.95	27.09	48.82	75.26	91.08	100.00	Chisang Khola	T3L7C	5-Jul-19	RUDP-CS-381	\vdash
S-381 5-Jul-19 T3L7C Chisang Khola 100.00		1	86.0	5.59	13.90	27.06	51.13	78.39	93.68	100.00	Chisang Khola	T2L19G	5-Jul-19	RUDP-CS-380	-
S-380 5-Jul-19 T2L19G Chisang Khola 100.00			68.0	5.79	16.98	32.02	52.47	78.86	93.67	100.00	Chisang Khola	Madhumara Site	4-Jul-19	RUDP-CS-379	+
S-379 4-Jul-19 Madhumara Site Chisang Khola 100.00			0.91	4.41	15.23	30.18	54.52	80.50	94.38	100.00	Chisang Khola	T31 13-C	4-Inf-19	RUDP-CS-378	
Signature Sign	_		1.31	5.30	14.03	36.27	56.42	83.02	94.53	100.00	Chisang Khola	T3L39	2-Jul-19	RUDP-CS-376	-
S-376 2-Jul-19 T3L39 Chisang Khola 100.00 S-377 2-Jul-19 T3L13-C Chisang Khola 100.00 S-384 4-Jul-19 Madhumara Site Chisang Khola 100.00 S-380 5-Jul-19 T3L7C Chisang Khola 100.00 S-382 5-Jul-19 T3L7C Chisang Khola 100.00 S-383 6-Jul-19 R-7 Chisang Khola 100.00 S-383 6-Jul-19 R-87 Chisang Khola 100.00 S-384 6-Jul-19 R-87 Chisang Khola 100.00 S-385 6-Jul-19 R-87 Chisang Khola 100.00 S-387 17-Jul-19 R-6 Chisang Khola 100.00 S-387 17-Jul-19 R-6 Chisang Khola 100.00 S-387 17-Jul-19 R-82 Chisang Khola 100.00 S-388 17-Jul-19 R-82 Chisang Khola 100.00 S-389 17-Jul-19 R-82 Chisang Khola 100.00 S-380 17-Jul-19 R-82 Chisang Khola 100.00 S-381 17-Jul-19 R-82 Chisang Khola 100.00 S-382 17-Jul-19 R-82 Chisang Khola 100.00 S-383 17-Jul-19 R-82 Chisang Khola 100.00 S-388 17-Jul-19 R-82 Chisang Khola 100.00 S-389 17-Jul-19 R-82 Chisang Khola 100.00 S-380 17-Jul		Kemarks	Conteint%	0.150	0.300	0.600	1.18	2.36	5.0	10	Source of Sample	Sample	Testing	Lab.Ref no.	
Lab.Ref no. Lab.Ref no. Lab.Ref no. Lab.Ref no. Lab.Ref no. Lab.Ref no. Lab.19 T31.59 Chisang Khola 100.00 RUDP-CS-377 2-Jul-19 T31.3-C Chisang Khola 100.00 RUDP-CS-378 4-Jul-19 T31.13-C Chisang Khola 100.00 RUDP-CS-380 5-Jul-19 T31.7C Chisang Khola 100.00 RUDP-CS-381 5-Jul-19 R-9 Chisang Khola 100.00 RUDP-CS-383 6-Jul-19 R-7 Chisang Khola 100.00 RUDP-CS-383 6-Jul-19 R-87 Chisang Khola 100.00 RUDP-CS-383 6-Jul-19 R-87 Chisang Khola 100.00 RUDP-CS-383 7-Jul-19 R-87 Chisang Khola 100.00 RUDP-CS-383 7-Jul-19 R-82 R-9 Chisang Khola 100.00 R-9		4	Clay		ght	sing by wei	ım / % Pass	e Size in m	Siev			Togation of	Data of		-
Lab.Ref no. Date of Location of Source of Sample 10		te Sand	Canere	of al	Type o							6			
Lab.Ref no. Date of Location of Source of Sample 10	_)	20		Year										
Lab.Ref no. Testing Sample Chisang Khola 100.00						and	ancrete S	ort of Ca	Test Rep	Monthly	ummary Sheet of	S			
Contractor Con	¥						5 A	tan City B/BRT-0	etropoli UDP/IC	agar M ct No:- R	Biratn				
Lab.Ref no. Date of Location of Summary Sheet of Monthly					17	KOJE	INI) FINIE	VEL	NDE	NAL URBA	REGIO			



			REGION	Biratna Contract	N DEVELO gar Metropolita No:- RUDP/ICI heet Of Monthly T	B/BRT-02	CT	
							Month	July
_	1-1-						Year Type of Material	2019 Brick
	Ref.N o.	Testing Date	Location of Sample	Source of Brick	Name Of Brick	Water Absorption of Brick(%)	Strength of Brick(N/mm²)	Remarks
1	703	2-Jul-19	T3139	Dadarbairya	ACC	13.19	13.33	
2	704	2-Jul-19	T3L5	- Dadarbairya	ACC	14.54	12.95	
3	705	2-Jul-19	T3L13C	Dadarbairya	ACC	13.72	14.15	/
5	706	3-Jul-19	Madhumara site	Dadarbairya	ACC	14.29	14.69	
6	707	4-Jul-19 4-Jul-19	T2L19G	Dadarbairya	ACC	14.09	13.04	
7	709	5-Jul-19	R-9	Dadarbairya	ACC	12.51	12.92	
_	710	5-Jul-19	T3L39 T3L7C	Dadarbairya	ACC	13.17	14.33	
_	711	5-Jul-19	R-9	Dadarbairya	ACC	14.79	12.58	
-	712	5-Jul-19	T3L39	Dadarbairya	ACC	13.51	13.31	
-	713	5-Jul-19		Dadarbairya	ACC	15.01	11.27	
_	714	5-Jul-19	T3L5 T3L7C	Dadarbairya	ACC	14.96	12.01	
	715	6-Jul-19	T2L19G	Dadarbairya	ACC	15.47	11.87	
_	716	6-Jul-19	R-9	Dadarbairya	ACC	14.72	12.04	
_	717	18-Jul-19	T3L22	Dadarbairya Dadarbairya	ACC	16.82	13.00	
		70.011-12	13222	Dadarbairya	ACC /	15.41	11.70	
-				1				
\pm								
+								
-								
1								
+								
omm	ents:-		Sp. Limit			<20%	>8 to 10 N/mm²	
_		SELRING	Contractor			simple		
		1101				Consultant		
HON	GHENG	construction o	GROUP INTERNATIONAL E	NGINEERING CO.	BUILDING DESIGN AL	THORITY (P) LTD IN JOINT VENTU	RE WITH B.N. CONSULT	ANCY PVT, LTD
		112	100		AND PLU	JS ENGINEERS & ARCHITECTS (P) L	TD, KATHMANDU, NEPA	AL
		1100	18			O DITT	_ 2	
			NOTION WITH CITY OF THE PARTY O			a digital distribution	PIUS	
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						*Biratnagar	NI /	
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Th	10		16/1		(male	The state of the s	0	
ecke	l By		Submitted	By	AN	Verified By		
ngine			Contract Man	ager		Verified By Qty Surveyor/CSE	Approved B Team Leade	
at shre	estha		Rabindra Kr. Ti	hakur		dal/Rajan Shrestha	Giresh Chan	
21110								



		July .	2019	1	Remarks										H B.N. P) LTD,		. A h
		٦	20	Strength N/mm²	28 Days	47.06	45.64	44.93				CV			E WITI	1	Approved By Team Leader
		_		Strengt	7 days			26.93		I		133	1)		TENTUR		7 4 1
		Month	Year	Date of Testing	28 Days	1-Jul-19	10-Jul-19	31-Jul-19							CINTOINT VINEERS & VINEERS	PLUS JIII	
Pinter Minter Minter Control of the				Date of	7 Days	10-Jun-19	19-Jun-19	10-Jul-19							Consultant (North UTEX (P) LTEX D PLUS ENG!	A Sylletin Soll + Mile Soll +	
) ity F-02 <u>T</u>			Date of	Casting	3-Jun-19	12-Jun-19	3-Jul-19							Consultant BUILDING DESIGN AUTHORITY (P) LTB IN JOINT VENTURE WITH B.N. CONSULTANCY PVT. LTD AND PLUS ENGINEERS & ARCHITECTS (P) LTB, KATHMANDE, NEPAL		or/CSE
	CB/BR			Fineness	(%)		22.0	7.33				<10	\ \		NG DESI	×	Verified By Export Oty Surveyor/CSE H K Mandal (Raian Shaecha
	Metropo RUDP/I			Soundness Fineness	(mm)		1 43	1.43				<10	1		BUILDE	O.	Export H K Man
of the same	Contract No:- RUDP/ICB/BRT-02 SUMMARY SHEET OF CEMENT TEST			Time	Final (min)		00 020	20.00				Max-600	Ì				
Din	Con			Consistancy & Setting Time	nitial(Min)		112.00	00:344				Min-30)		RNATION		By ager nakur
				Consistanc	Normal Cons.(%, Initial(Min)		31.00							tor	GROUP INTE	O's	Submitted By Contract Manager Rabindra Kr. Thakur
				Tetsing Date			2-Jul-19					nit:		Contractor	NSTRUCTION GROUP I	10 to	
				Type of cement	Control	Saptakoshi opc	Saptakoshi opc					Sp.Limit:			ZHONGHENG CONSTRUCTION GROUP INTERNATIONAL ENGINEERING CO. LTD		Checked By Engineer Benu Shrestha
				Lab Ref.no.	77/	48	-						Comments:-		ZHON	Š	Check Engi Benu S
				S.N.		1 0	m						E		F		



ANNEX-4: SOCIAL & ENVIRONMENT SAFEGUARD

Monitoring Formats Attached – July 2019



Biratnagar Metropolitan City Regional Urban Development Project

Constructuon and Completion Of Sewarage, Drainage, Road, Foothpath and Road Furniture Works(RUDP/ICB/BRT)

LABOUR DATA OF JULY 2019

	ΙΔ	BOUR	COMPOSITION		ETHNIC COMPOSITION					
LABOUR CLASS	SKILLED	UNSKILLED		FEMALE	JANJATI	DALIT	MUSLIM	MADHESI	BRAHMIN/CHHETRI	
LOCAL	10	21	31	0	0	4	0	27	0	
NON LOCAL	37	116	153	0	39	30	6	78	0	
INDIAN	2	8	10	0	0	0	1	9	0	
TOTAL	49	145	194	0	39	34	7	114	0	



Biratnagar Metropolitan City Regional Urban Development Project

Constructuon and Completion Of Sewarage, Drainage, Road, Foothpath and Road Furniture Works(RUDP/ICB/BRT)

LABOUR DATA OF JULY 2019

			NAME OF THE PROPERTY OF THE PR	LABOUR		COMPOSITION		ETHNIC COMPOSITION				
.NO	LOCATION	TYPES OF WORK	TYPES OF WORKERS	- 177	UNSKILLED	MALE	FEMALE	JANJATI	DALIT	MUSLIM	MADHESI	BRAHMIN/CHHETRI
			LOCAL									
4			NON LOCAL	4	12	16		5	5		6	
1	R82	Gutter	INDIAN									
			TOTAL	16								
		¥1,	LOCAL									
	and a		NON LOCAL	3	17	20		5			15	
2	T1L5	Gutter	INDIAN									
	,		TOTAL	20								
1		. 1.3000	LOCAL	2	5	7			1		7	
			NON LOCAL									
3	R12	Weep Hole	INDIAN									
			TOTAL	7								
_	1											
			LOCAL	1	3	4					4	
	10002	Site Clearance	NON LOCAL					-				
4	R12		INDIAN									
			TOTAL	4		L						
										_		
			LOCAL									
200		M.H Constrution	NON LOCAL	3	7	10			5		5	
5	R7		INDIAN									
	1		TOTAL	10				1				
										_		A STATE OF THE STA
-			LOCAL									
		0.00	NON LOCAL	5	12	17		5	5		7	
6	B1	Drain Rise	INDIAN								-	
			TOTAL	17								
			LOCAL									
		Deal Cilling	NON LOCAL	2	3	5				-	5	No.
7	B1	Back Filling	INDIAN							-		W THEN
	1	× 1	TOTAL	5			10.11					A A



			LOCAL	4	7	11		4		7	
		House	NON LOCAL								
8	R12	Connection	INDIAN			7					
		Connection	TOTAL	11							
		-	101114								
-			LOCAL	3	6	9				9	
		House	NON LOCAL								
9	R105	Connection	INDIAN								
		Connection	TOTAL	9							
_		-	10								
_			LOCAL								
			NON LOCAL	4	12	16		1	6	10	
10	R6	Interlock	INDIAN								
			TOTAL	16							
_	1 , 1		TOTAL								
_			LOCAL						Security 1		
		-	NON LOCAL								
11	R46	Dçain	INDIAN	2	8	10			1	9	
		d	TOTAL	10	-						
_		1 1	TOTAL							•	
_			LOCAL	T							
	Madhumara	J. A. H	NON LOCAL	5	18	23	10			13	
12	Madhumara Yard	Production	INDIAN	+							
	Talu	-	TOTAL	23	7						
			TOTAL								
_			LOCAL	T							
			NON LOCAL	3	9	12	2	5		5	
13	R6	Gutter	INDIAN								
		-	TOTAL	12							
	,	1 12 20	TOTAL				,				
	_		LOCAL	T .							
		-	NON LOCAL	5	20	25	10	5		10	
14	Judi Yard	Production	INDIAN		-						
		-	TOTAL	25							
		, ,	TOTAL	2.5							
_			LOCAL								
		DCC Drain	NON LOCAL	3	6	9	2	5		2	
15	R6	RCC Drain	INDIAN	-	,						
7	Maintenance	TOTAL	9	-				-		7/10/10/10	



Details of Contractor's Personnel at Site Staffs Name List

SN.	Name	Position	Contact No	Remarks
1	Ravindra kumar Thakur	CM	9801159860	
2	Basu Gauli	AM	9801156727	. 10
3	Benu Shrestha	Engineer	9801159861	
4	Dhirendra Yadav	Engineer	9801225283	
5	Randhir Singh	Engineer	9801159918	
6	Govind Jha	Engineer	9801157340	
7	Pradeep Yadav	Engineer	9801159896	
8	Jibachha Sah	Engineer	9805932183	
9	Dhirendra yadav jr	Engineer	9805913881	
10	Aanand Rayamajhi	Engineer	9801157317	
11	Santosh Kr Lakandae	Engineer	9801159863	
12	Sakir Alam	Engineer	9801160993	
13	Manoj kumar yadav	Engineer	9815714239	
14	Rahul Kr Sharma	Sub-Engineer	9801159862	
15	Adarsh Karn	Sub-Engineer		
16	Sudip Chaudhary	Surveyor	9801159859	
17	Biswas Rai	Sub-Engineer	9801159920	
18	Gyanendra Tamang	Sub-Engineer	9811357918	
19	Ramesh Shrestha	Sub-Engineer		
20	Jitendra Yadav	Safety incharge	9801160166	
21	Prashant Bagale	Plumbing Supervisor	9801159842	
22	Kiran Chaudhary	SLT	9801225281	
23	Rupesh Shrestha	LT	9811316006	
24	Ajit Mukhiya	LT .	9827369882	
25	Pramod shah	LT	9815779383	
26	Dev Kr Yadav	LT		
27	Bishnu Hari Khanal	Chief Accountant	9801157314	
28	Aasish Khanal	Assistant Accountant	9801159867	
29	Bikash Adhikari	Vehicle incharge	9801159868	
30	Narsingh Bhandari	Vehicle incharge	9801157318	
31	Madan Bhattarai	Store Keeper	9801159634	





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

Subproject Road:-RUDP/ICB/BRT/2

Month/Year: July 2019

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

Contract Package: RUDP/ICB/BRT/2

		Con	npliance Stat	us	Implementing	Note of	
S.N	Key Social Issuse	y Social Issuse Agency Full Partial None		30 000	Remarks	Deadline	
1	Availability of drinking water services	٧					
2	Availability of toilet facility in campsite	٧					
3	Legal source of fuel wood use			٧			4
4	Legal document of fuel wood source			٧			
5	Use of safety accessories	٧					
6	Availability of first aid facility	٧		12		A	
7	Basic wage rate to construction workers	V					
8	Equal wage rate to male and female workers	:H	٧		N _	V	
9	Compensation of temporarily occupied land	٧					
10	Compensation of temporarily occupied buildings	٧					
11	Legal document of temporarily occupied assets	٧	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1		9	- A	
12	Non use of child labour in construction activities	. V	da.		A.		× .



Verified by:

Monitored by:



<u>Environmental MonitoringFormat</u> Regional Urban Development Project (RUDP)/Biratnagar

Nameof SubProject: RUDP/ Biratnagar ContractPackage: RUDP/ICB/BRT/02

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

Month:July2019

Checklist

SN	Activity	Description/Present Status (Compliance/Partially Compliance/Non Compliance	Remarks/ Corrective actions for Non- Compliance
1 1.1	Training Health, Safety and EMPtrainings and awareness	Yes	2
1.2	Othersawareness and skilltrainings	No	
2 2.1	Occupationalhealthand safety Insuranceforworkers	Yes	
2.2	Personal Protective Equipment (PPE) provided to labors and is using (helmet, face masks, muffles, gloves, boot s, jacket, gogglesetc.)	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	Judi, Keshaliya, Shanti	
3.1 3.2	Location Firstaidfacilitiesavailableatcampand worksites	Chowk, Rani	
3.3	Drinkingwatersupplyandsanitationfaciliti es/ pit latrines	Yes	
3.4	Waste Disposal and Management facilities	Tap water/ Hand Pump Yes	3
3.5	Typeoffuelusedforcooking	L.P.G	
4	Spoil and Construction material Management Cutandfillbalancemaintainedornot,	Cut & Fill balance	
4.1	Reuseofspoilmaterials	maintained	ONTERNATIONAL
4.2	Useof safespoildisposallocations	Not Applicable	(C)
4.3	Disturbance to Pedestrian and traffic movement	No any disturbance to pedestrians& traffic	STRUCK



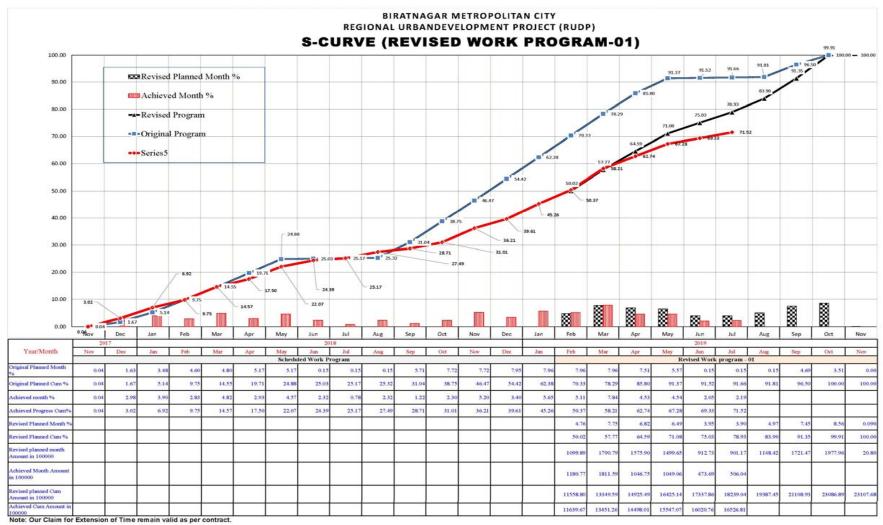
		movement	
4.4	Use of private land and agreement with	Yes	
	land owners Air,NoiseandWaterPollution		
5		Water sprinkled by	
5.1	Dust emissionandNoisepollutionsites	tanker on such sites.	
5.2	Waterqualitymonitoringresultandlocations	ok	
5.3	Blockage of naturaldrainages,waterlogging, drainwaterdischargeintofarmland/risky areas	Not Applicable	
6	Quarryingofconstructionmaterials		
0	and Plants Installment	Not Applicable	
6.1	Quarry/borrow operation sites	Not Applicable	5=3
6.2	Crusher plant and Asphalt plantoperationrestoration	Asphalt Plant	
7	Impact/Disruption of Private		
	properties	Not Applicable	
7.1	Building structures	The contract of the contract o	
7.2	Other utilities	Not Applicable	
8	Impact/disruptionofpublicinfrastruct		
0.4	ures	Not Applicable	
8.1	Irrigationcanal	Not Applicable	
8.2	Watersupply pipe	The state of the s	
8.3	Access road	Not Applicable	
8.4	Electric/Telephone pole	Not Applicable	
8.5	Others	Not Applicable	
9	Sitesfor culturalandreligiousvalues	1	
9.1	Culturalandreligioussensitivespots (if any)	Not Applicable	
10	Forestandvegetation		
10.1	Numberoftreesremoval	00	_
10.2	No of treeplantation(Roadside)	Not Applicable	
11	Accident cases and records	No any records	
12	Employmenttolocal people	Yes, both men and	
12.1	Men and women	women	
12.2	Child labor (if any)	No	35 u
13	EstablishmentofSafeguarddesk and meeting	Yes	
14	Grievances from local people and addressed	Yes	· · · · · · · · · · · · · · · · · · ·



ANNEX-5: S-Curve

ATTACHED – July 2019







Annex-6: Master Plan of RUDP Project

