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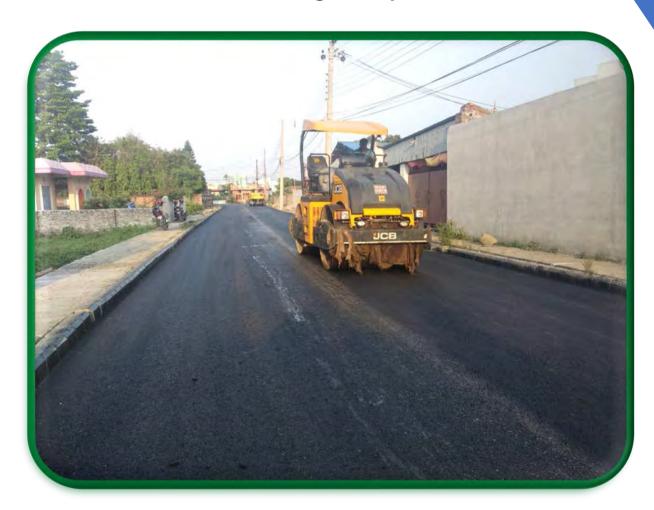
Building Design Authority (P) Ltd

in joint Venture with

B.N. Consultancy Pvt. Ltd and PLUSH Engineering & architects (P) Ltd Kathmandu.

Monthly Progress Report

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



June 2018

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 by following Chapters as mentioned below.

- **1. Introduction/ Background-** It provides brief Account of 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 brief Account of 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 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 being 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. Having said that, the Progress may get affected by unpredicted events frequently occurring in case of our Country Nepal so such events are also enlisted for viewing the reasons behind affected Progress.
- **6. Details of Pre Cast Activities-** Details of Precast activities are also provided in this Chapter in order to demonstrate the Progress by the Contractor. Since in Urban Sector the Work is required to conduct in speedy manner, Precast work is best alternate to be provided. Hence, the details of Precast activities have been provided in order to determine whether the Contractor is able to meet the Schedule or not.
- 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. The Contractor seemed unable to meet the target by 2.81% in cumulative achievement due to unpredictable Rainfall this month as well as the Contractor seemed desperate in providing sufficient Labors on the Field.



PROJECT DESCRIPTION

1.1 INTRODUCTION/BACKGROUND

GoN has negotiated loan with Asian Development Bank for the Regional Urban Development Project (RUDP) in Nepal .The RUDP, in the line with ADB's water and urban operation plans, will construct and upgrade urban infrastructure in eight towns in the Terai Region of Nepal, improve operational effectiveness of these eight municipalities. The project will also build institutional capacity of DUDBC for urban planning, project planning and project preparation in order to proactively shape urbanization in Nepal and implement the National Urban development strategy .Biratnagar is one of the eight municipal towns included in the RUDP. The subcomponent of the RUDP covers the construction and improvement of sewerage, drainage and roads and design of Integrated Solid Waste Management System for Biratnagar Municipality.Building Design Authority (P) Ltd (Nepal) ,B.N. Consultancy Pvt.ltd and PLUS Engineers & Architects (P) Ltd Kathmandu and have entered for a Contract of Consulting Services with Regional Urban Development Project (RUDP), Project Implementation Unit(PIU), Biratnagar Metropolitan City on 28th August 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	1st November 2019								
Contract Amount including PS and VAT	NRs. 2,611,092,249.63								
Progress									
Road Rehabilitation (Asphalt)	18.91%								
Sewer Line	39.95%								
Storm Drain	81.18%								
Road Side Drain	55.90%								
Integrated Solid Waste Management (ISWM) Design	Inception Report as well as Stakeholder's Analysis, Communication Strategy and Consultation Plan for Integrated Solid Waste Management (ISWM) has already been submitted. Due to Socio Environment Problem, Progress of Integrated Solid Waste Management (ISWM) design has been hindered.								
Physical Progress up to date	Planned: 25.03%, Actual: 24.40%; Lead (+) or Lag (-) by -0.63% S curve attached								
Financial Progress up to date	In Percentage: 22.84%, In Figure: NRs. 596,339,691.11(with vat & PS)								

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						
а	HDPE/RCC	m	20,082.00	8,023.00	12,059.00	39.95%	
b	Manhole	No.	656.00	270.00	386.00	41.16%	
2	Storm Water Drain						
а	RCC Drain	m	652.89	530.00	122.89	81.18%	
b	Piles	No.	132.00	138.00	(6.00)	100.00%	Exceeded
3	Road						
а	Subgrade	m	73,086.00	21,964.65	51,121.35	30.05%	
b	Subbase	m	73,086.00	19,202.85	53,883.15	26.27%	
С	Base	m	73,086.00	18,075.85	55,010.15	24.73%	
d	Prime	m	73,086.00	13,819.20	59,266.80	18.91%	
е	Asphalt	m	73,086.00	13,819.20	59,266.80	18.91%	
4	Road Side Drain	m	26,050.00	14,562.93	11,487.07	55.90%	

3.1 SUB PROJECT COMPONENTS

3.1.1 SEWER LINES

Surveying works going on after identifying the all sewer lines i.e. T1, T2, T3, and T4. Production of manhole cover and precut are also going on. Laying of RCC Hume pipe as well as HDEP are going on at T3 Line 11,T3 line 13A,T2 line 19 P etc

Table 1: PROPOSED SEWER LINES

S. NO.	Description	Unit	Original Quantity
1	Sewerage Pipe Supply and Installation	m	20,082.00
	Reinforced Concrete Pipe laying and jointing		2241.00
	Line T2 (Secondary)	m	206.00
	Line T3 (Trunk)	m	1905.00
	Line T4 (Trunk)	m	130.00



S. NO.	Description	Unit	Original Quantity
	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	2,902.00
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 June, 2018

		BoQ		Up to Pre Month		This month		Total to date		
SN	Locations	Length (m)	Manhole	Length(m)	Manhole	Length	Manhole	Length	Manhole	Progress %
		(no)	(no)	Lengin(m)	(no)	(m)	(no)	(m)	(no)	,,,
1	Hume pipe(T2)	206.00	6.00							
2	Hume pipe(T3)	1,905.00	58.00	292.00	6.00			292.00	6.00	
3	Hume Pipe (T4)	130.00	4.00	326.00	11.00			326.00	11.00	
	Subtotal in (m)	2,241.00	68.00	618.00	17.00	-	-	618.00	17.00	
1	HDPE(T1)	1,825.00	57.00	750.00	24.00	287.00	6.00	1,037.00	30.00	
2	HDPE(T2)	3,927.00	147.00	2,176.00	77.00	652.00	30.00	2,828.00	107.00	
3	HDPE(T3)	9,997.00	316.00	2,771.00	97.00			2,771.00	97.00	
4	HDPE(T4)	2,092.00	68.00	769.00	19.00			769.00	19.00	
	Subtotal in (m)	17,841.00	588.00	6,466.00	217.00	939.00	36.00	7,405.00	253.00	
	Total	20,082.00	656.00	7,084.00	234.00	939.00	36.00	8,023.00	270.00	39.95%
	Sewer Inlet	BoQ(no)		Up to Pre	Up to Pre Month		This month		Total to date	
1	Sewer inlet	1,010	0.00							



SN	Locations	BoQ		Up to Pre Month		This month		Total to date		
		Lonoth (m)	Manhole	Length(m)	Manhole	Length	ngth Manhole Length M	Manhole	Progress %	
			(no)		(no)	(m)	(no)	(m)	(no)	
2	House connection	3,784.00								

3.2 STORM WATER DRAIN

The storm water drain CN2, and CN3 has been provisioned in Regional Urban Development Project (RUDP) .The Contractor has already started construction of storm water drain. The construction of drain works is going on and piling works have been completed. The detail of the progress is shown in the table below:

Table:-3 PROPOSED and PHYSICAL PROGRESS in STORM WATER DRAINS TILL June, 2018.

	Location	Proposed Length in (m)	Progre	ess		
SN			Up to previous month in (m)	This month in (m)	Total till date (m)	Progress %
1	CN2-CN3 (Chyangh Baari Naalaa)	652.89	500	30	530	Construction of drain works going on (80% completed)
2	CN2-CN3 (Chyangh Baari Naalaa)	132 nos piles	138	-	138 nos	Piling works completed

3.3 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. The Contractor has started detail survey work for upgrading the deteriorated pavement surface.

Table No:-4 PROPOSED and PHYSICAL PROGRESS of pavement works till June, 2018

	Doort	Doort	Propose	Actual	Progress (n		T-4-14:11	D
SN	Road Number	Road Name	d Length(m)	Length(m)	Upto previous month	This month	Total till date	Progress %
1	R3A	Madhum ara Marg	600.00	600.00	600.00	-	600.00	(100%)S ub grade,
2	R42	Bhagwati Marg	218.00	218.00	218.00	-	218.00	(100%)S ub grade,
3	R104	VIP Marg	273.00	271.00	273.00	1	273.00	(100%)S ub grade
4	Rani site	Rani	4,023.00	2,315.00	1,702.00	613.00	2,315.00	(42.30%) Sub grade,
5	R37	Banglam ukhi Marg	420.00	477.00	471.00	6.00	477.00	(100%)S ub grade,
6	R5	College Road	970.00	603.00	970.00	-	970.00	(100%)S ub grade,
7	R16	Satya Marg	604.00	580.00	604.00	-	604.00	(95.2%)S ub grade,
8	R21	Pratibha Marg	1,320.00	1,320.00	1,320.00	-	1,320.00	(71.96%) Sub grade,
9	R25	Devi Marg	599.00	580.00	580.00	-	580.00	(96.82%) Sub grade,
10	R24	Prabhat Marg	384.41	365.00	380.00	-	380.00	(98.71%) Sub grade,
11	R28	Pustakal aya Marg	635.00	343.00	635.00	-	635.00	(100%)S ub grade,
12	R27	Peepal Marg	810.00	580.00	810.00	-	810.00	(100%)S ub grade,

			Propose	Actual	Progress (r	Length in n)	Total till	
SN	Road Number	Road Name	d Length(m)	Length(m)	Upto previous month	This month	Total till date	Progress %
13	R26	Pasang Marg	617.00	580.00	654.00	1	654.00	(100%)S ub grade
14	B1	Kanchan Marg	1,172.94	1,110.00	1,173.00	1	1,173.00	(100%)S ub grade,
15	B2	Gauri Shankar Marg	2,777.83	1,233.00	2,152.00	-	2,152.00	(77.5%)S ub grade,
16	ВЗ	Keshaliya Marg	1,574.00	560.00	1,574.00	1	1,574.00	(100%)S ub Grade ,
17	S11	Samrat Marg	660.00	504.60	660.00	-	660.00	(100%)S ub Grade,
18	S13		1,617.00	1,435.00	1,417.00	-	1,417.00	(87.63%) Sub Grade,
19	R114	Dharanid har Marg	320.00	560.00	320.00	-	320.00	(100.00%) Sub Grade,
20	R12	Kanchha Dai Marg	1,192.00	660.00	837.00	-	837.00	(70.21%) Sub Grade
21	R5a		370.00	-	370.00	1	370.00	(100%)S ub Grade
22	R113	Kavi Lekhnath Marg	420.00	736.00	420.00	-	420.00	(100%)S ub Grade
23	R65		282.00	320.00	320.00	-	320.00	(100%)S ub Grade
24	R107		173.00	215.00	215.00	-	215.00	(100%)S ub Grade
25	R107 a		50.00	-	50.00	-	50.00	(100%)S ub Grade
26	R22		373.10	367.65		367.65	367.65	(100%)S ub Grade
27	R7		814.00	242.00		242.00	242.00	(29.73%) Sub Grade

	Bood	Dood	Propose	Actual		Length in n)	Tataltill	Progress
SN	Road Number	Road Name	d Length(m)	Length(m)	Upto previous month	This month	Total till date	%
28	R64		121.00	121.00		121.00	121.00	(100%)S ub Grade
29	R8		-	225.00		225.00	225.00	(100%)S ub Grade
30	N36		-	190.00		190.00	190.00	(100%)S ub Grade
31	R188		-	120.00		120.00	120.00	(100%)S ub Grade
32	R2		-	300.00		300.00	300.00	(100%)S ub Grade
33	T3 Line 6A		-	220.00		220.00	220.00	(100%)S ub Grade
34	T2 Line 24C		-	205.00		205.00	205.00	(100%)S ub Grade
35	T2 Line 24D		-	210.00		210.00	210.00	(100%)S ub Grade
36	R63 (DSP Road)	DSP Road	420.00	420.00		420.00	420.00	(100%)S ub Grade
37	R24	Prabhat Marg	384.41	365.00	380.00	-	380.00	(99.00%) Sub Base
38	R25	Devi Marg	599.00	580.00	580.00	-	580.00	(96.83%) Sub Base
39	R26	Pasang Marg	617.00	580.00	617.00	-	617.00	(100%)S ub Base
40	R27	Peepal Marg	810.00	580.00	810.00	-	810.00	(100%)S ub Base
41	R28	Pustakal aya Marg	635.00	343.00	343.00	-	343.00	(54.00%) Sub Base
42	Rani site	Rani	4,023.00	-	1,702.00	-	1,702.00	(42.3%)S ub Base

			Propose	Actual	Progress (r	Length in n)	Total till	Drawrasa
SN	Road Number	Road Name	d Length(m)	Length(m)	Upto previous month	This month	Total till date	Progress %
43	R37	Banglam ukhi Marg	420.00	477.00	471.00	-	471.00	(100%)S ub Base
44	R65		282.00	320.00	320.00	1	320.00	(100%)S ub Base
45	R42	Bhagwati Marg	218.00	218.00	218.00	1	218.00	(100%)S ub Base
46	R104	VIP Marg	273.00	271.00	273.00	1	273.00	(100%)S ub Base
47	B1	Kanchan Marg	1,172.94	1,110.00	1,173.00	-	1,173.00	(100%) subbase
48	B2	Gauri Shankar Marg	2,777.83	1,233.00	1,448.00	-	1,448.00	(77.47%) Sub Base
49	S11	Samrat Marg	660.00	504.60	660.00	1	660.00	(100%) Sub Base
50	S13		1,616.26	1,435.00	1,417.00	-	1,417.00	(187.63%)Subbase
51	R12	Kanchha Dai Marg	1,192.00	660.00	837.00	-	837.00	(70.22%) Sub Base
52	R5	College Road	970.00	603.00	970.00	-	970.00	(100.00%)Sub Base
53	R16	Satya Marg	604.00	580.00	604.00	-	604.00	(100%)S ub Base
54	R21	Pratibha Marg	1,320.00	1,320.00	950.00	-	950.00	(71.96%) Sub Base
55	ВЗ	Keshaliya Marg	1,574.00	560.00	1,574.00	-	1,574.00	(100%)S ub Base
56	R3A	Madhum ara Marg	600.00	600.00	600.00	-	600.00	(100%)S ub Base
57	R107		173.00	215.00	215.00	-	215.00	(100%)S ub Base



			Propose	Actual	Progress (r	Length in n)		
SN	Road Number	Road Name	d Length(m)	Length(m)	Upto previous month	This month	Total till date	Progress %
58	R107a		50.00	-	50.00	-	50.00	(100%)S ub Base
59	R5a		370.00	-	370.00	-	370.00	(100%)S ub Base
60	R22		373.10	367.85		367.85	367.85	(100%)S ub Base
61	R7		814.00	242.00		242.00	242.00	(29.73%) Sub Base
62	R64		121.00	121.00		121.00	121.00	(100%)S ub Base
63	R8		-	225.00		225.00	225.00	(100%)S ub Base
64	N36		-	190.00		190.00	190.00	(100%)S ub Base
65	R188		-	120.00		120.00	120.00	(100%)S ub Base
66	R2		-	300.00		300.00	300.00	(100%)S ub Base
67	T3 Line 6A		-	220.00		220.00	220.00	(100%)S ub Base
68	T2 Line 24C		-	205.00		205.00	205.00	(100%)S ub Base
69	T2 Line 24D		-	210.00		210.00	210.00	(100%)S ub Base
70	R63 (DSP Road)	DSP Road	420.00	420.00		420.00	420.00	(100%)S ub Base
71	B1	Kanchan Marg	1,172.94	1,110.00	1,173.00	-	1,173.00	(98.04%) Base
72	B2	Gauri Shankar Marg	2,777.83	1,233.00	2,152.00	-	2,152.00	(100%) Base
73	В3	Keshaliya Marg	1,574.00	560.00	1,574.00	-	1,574.00	(100%) Base

	Bood	Dood	Propose	Actual	Progress (n		Total till	Duanna
SN	Road Number	Road Name	d Length(m)	Length(m)	Upto previous month	This month	Total till date	Progress %
74	S11	Samrat Marg	660.00	504.60	660.00	-	660.00	(100%) Base
75	S13		1,617.00	1,435.00	1,417.00	-	1,417.00	(87.63%) Base
76	R114	Dharanid har Marg	320.00	560.00	320.00	1	320.00	(100.00%) Base
77	R12	Kanchha Dai Marg	1,192.00	660.00	837.00	-	837.00	(70.22%) Base
78	R113	Kavi Lekhnath Marg	420.00	736.00	420.00	-	420.00	(100%) Base
79	R5	College Road	970.00	603.00	970.00	-	970.00	(100%) Base
80	R16	Satya Marg	604.00	580.00	604.00	ı	604.00	(100%) Base
81	R21	Pratibha Marg	1,320.00	1,320.00	1,320.00	ı	1,320.00	(100%)B ase
82	R24	Prabhat Marg	384.41	365.00	380.00	ı	380.00	(100%) Base
83	R25	Devi Marg	599.00	580.00	580.00	-	580.00	(96.82%) Base
84	R26	Pasang Marg	617.00	580.00	580.00	-	580.00	(94%) Base
85	R27	Peepal Marg	810.00	580.00	580.00	-	580.00	(71.61%) Base
86	R28	Pustakal aya Marg	635.00	343.00	635.00	-	635.00	(54.44%) Base
87	R37	Banglam ukhi Marg	477.00	477.00	471.00	-	471.00	(100%) Base
88	R3A	Madhum ara Marg	600.00	600.00	600.00	-	600.00	(100%) Base
89	R42	Bhagwati Marg	218.00	218.00	218.00	-	218.00	(100%) Base
90	R104	VIP Marg	273.00	271.00	273.00	-	273.00	(100%) Base
91	Rani	Rani	4,023.00	-	1,702.00	-	1,702.00	(42.30%) Base
92	R22		373.10	367.85		367.85	367.85	(100%)B ase
93	R7		814.00	242.00		242.00	242.00	(29.73%) Base



Table No:-4.1 Road improvement Works (Work Progress till the date)

SN	Description	Unit	Proposed	Total Up to Previous Month	This Month	Total Up to this Month	Progress
1	Subgrade	m	73,860.00	18,862.00	3,102.65	21,964.65	29.74%
2	Sub Base	m	73,860.00	18,576.00	626.85	19,202.85	26.00%
3	Base	m	73,860.00	17,199.00	876.85	18,075.85	24.47%
4	Prime	m	73,860.00	9,128.00	4,691.20	13,819.20	18.71%
5	Asphalt	m	73,860.00	9,128.00	4,691.20	13,819.20	18.71%

3.4 ROAD SIDE DRAIN

Table No:-4a PROPOSED and PHYSICAL PROGRESS of Road side drain works till June, 2018.

24	2 /// /	5 /// //
SN	Road Number	Road Name/ Loca
1	B1	Kanchan Marg
2	R29	Shanti Marg
3	N36	
4	R8	APF
5	R7	Manakamana Ma
6	R63	DSP Road
7	R9	Fanindra Marg
8	S13	
9	N33	
10	R28	Pustakalaya Ma
11	R90	Shakti Marg
12	R114	Dharanidhar Ma
13	R11	Om Shiv Marg
14	R18	
15	R17	
16	R113	Kavi Lekhnath Ma
17	R77	Arniko Marg
18	R76	Mitra Marg
19	N9	
20	N4	
21	R33	Tarun Marg
22	R36	Gaurav Marg

SN	Road Number	Road Name/ Loca
23	R86	Janpath Marg
24	R183	Nava Jyoti Mar
25	R7a	
26	Rani site	Rani
27	Rani site	Rani
28	N3	
29	N5	
30	R21	
31	R2	
32	Xenial Front	
33	Xenial South	
34	R75	
35	R122	
36	N2	
37	R73	
38	R12	
39	R42	
40	R63	
41	R21(a)	
42	R4	
43	R78	
44	R180	
45	R40	
46	R9	
47	Rani Site C	
48	Ranit Site D	
	Remaining	
	Ĭ	

3.5 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.



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.

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.

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

Various works defined under this item are related to provision a maintenance camps for work person and employees, Contractor's site office, stores equipment yards and workshops. The camps must be adequate rain roof, Spacious, airy, and hygienic with proper lighting and material storage facilities. The area shall be kept neat and clean etc.

Provision and maintenance of Toilets.

Provision of toilets for labour 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 of pit type latrines. Sufficient water must be provided and maintained in the toilets.

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 shall be filled to be the crusher to control emission of dust from the plant etc.

Hot mix 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.

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 environmental improvement project and mainly constitutes works on 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,2054 BS, 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 on IEE was submitted and MoUD had approved the IEE on May14, 2013.

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 regularly and a standard site specific environmental monitoring checklist was used to record the present status of the project and verified whether or not the EMP is compiled. A sample of environmental checklist is attached herewith as Annex.

3.6 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 labours 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.

Safeguard/ GESI Component

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.

Grievance Redresses Mechanism:

Total Four minor grievances have been registered in the GRC desk during May, 2018. The GRC committee has been addressed immediately registered Grievances and concerns raised by the concerned Stakeholders including Project beneficiaries.

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 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.

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 dated 30th May, 2018 and 31st May, 2018 following issues were discovered.

- i. The use of Personal Protection Equipment (PPE) were in very few usage thus the issue was considered unsatisfactory.
- ii. Proper Barricade was not done as well as caution signs and signals were not sufficiently



Remark

used in Drainage and Sewer work Locations.

Description of Payment

Grand Total =

Considering above mentioned issues, the Contractor was instructed to use PPE, Barricades and proper signs and signals at working site. The implementation of Social and Environmental Safegurard measures during this month was found partially satisfactory.

3.7 FINANCIAL PLAN

SN

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

Total Bill Amount with VAT

& PS

935,444,691.11

3.7.1 DISBURSEMENT RECORDS IN CONSTRUCTION

Table: -5 DISBURSEMENT RECORDS in CONSTRUCTION							
1	IPC 01	339,105,000.00	Mobilization Advance.				
	IPC 02	265,347,611.64					
	IPC 03	330,992,079.47					

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

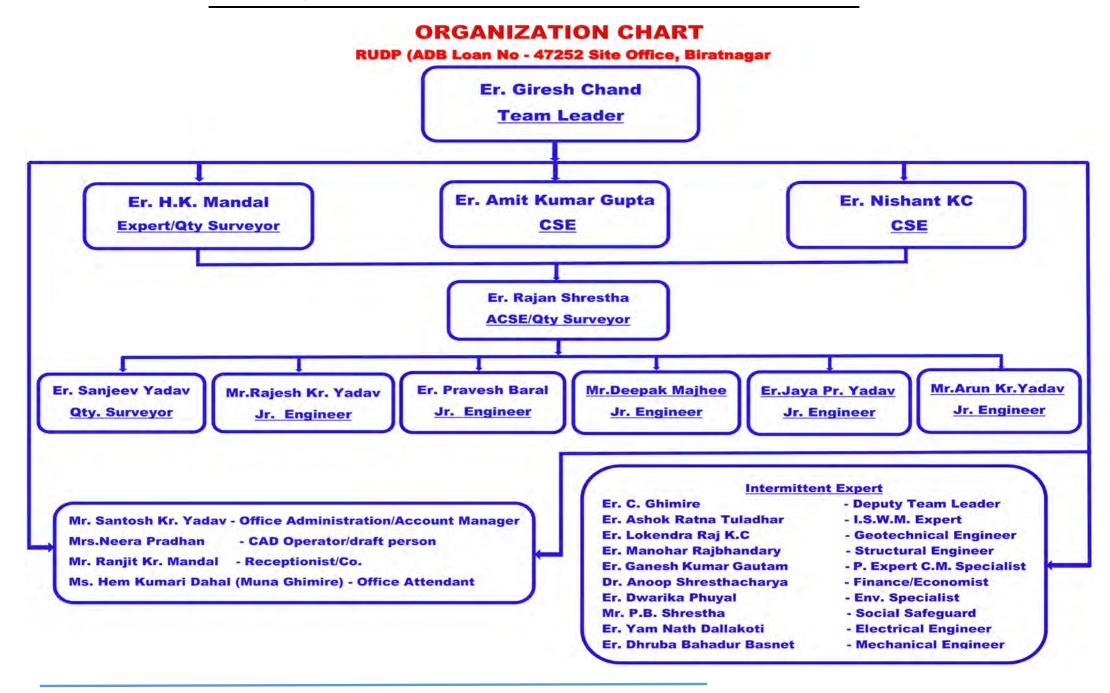
The scope of works for consultant's services is fairly detailed in the TOR attached with contract Agreement. The main points are summarized below:

- 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 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 6: CONSULTANT'S STAFF at Project Site, Biratnagar

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

SN	Name	Designation	Joining date	Remarks
20	Ramji Ghimire	Driver	1st Dec-2017	

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.

As per Clause 1.8.2 Engineer has given early notice to the contractor for identification and sample of all construction material before starting any kind of works. Contractor has identified and submitted their requisition for sampling of materials. Sampling works of all construction materials have completed. Team leader has recommended their letter for required tests for authorized organizations. Some test reports have been submitted by the Contractor which has been tested from outside of authorized organization. Engineer has emphasized production of the pre-cast item like (kerb stone, drain cover slab, manhole etc) for better work progress of the project. The Contractor has established two production yards for pre-cast item (kerb stone, drain cover slab, man whole etc.) and production is going on.

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

5.2 TL discussed during monthly progress meeting and given guidance for making certain modification and review on submitted work program and QAP. Contractor agreed for review/modification and resubmission on work program / QAP.

5.2 Progress Achieved Till date

Mont	Target This Month		Achieve Month	ment This	Le	ading	La	gging	Remar
h	Month ly	Accumulat ed	Month ly	Accumulat ed	Month ly	Accumulat ed	Month ly	Accumulat ed	ks
May-									Laggin
18	5.17%	24.88%	4.57%	22.07%			-0.60%	-2.81%	g
June-									Laggin
18	0.15%	25.03%	2.32%	24.40%	2.18%			-0.63%	g

5.3 Key Events

The consultant has noted the following key dates for the month of June, 2018.

Table 8: KEY DATES of EVENTS / ACTIVITIES

S. No.	Date	Date Activities/Events		
	Weather Reports			
1	Friday, June 08, 2018	Activities Disturbed due to Rainfall		
2	Tuesday, June 12, 2018	Activities Disturbed due to Rainfall		
3	Sunday, June 17, 2018	Activities Disturbed due to Rainfall		
4	Thursday, June 21, 2018	Activities Disturbed due to Rainfall		
	Strike			
8		No Strike registered during the month of June		
	Security Problem at Site			
9	Sunday, June 03, 2018	Contractor's Work at site was hampered inflicting security reasons from Security Administration to other Contractors dated June 2, 2018 stating reputation of Construction Entrepreneurs on Stake.		
	Site visits			



S. No.	Date	Activities/Events	Remarks
10		Officials of Project Implementation Unit(PIU) have conducted frequent visit to the site during the month of May, 2018	

Weather Reports sourced by:

https://www.timeanddate.com/weather/nepal/biratnagar/historic?month=6&year=2018

Station Located at Biratnagar Airport

Among the mentioned Events, Heavy rainfall disturbed the Contractor's activities resulting the Contractor not meeting the targeted Schedule.



6 DETAILS OF PRE CAST ACTIVITIES.

Table 9: PHYSICAL PROGRESS in PRODUCTION OF PRECAST ITEMS till, June, 2018

	Physical Progress till June 2018											
			Pro									
S.N.	Description	Unit	BoQ	Up to Previous month (RM.)	This Month (RM.)	Total to Date (RM.)	Remarks					
1	Precast Slab	No		23,525.00	4,074.00	27,599.00	Under progress					
2	Kerb Stone	Rm	147,729.68	32,897.00	6,100.00	38,997.00	26.40%					

Table 10: PHYSICAL PROGRESS in PRODUCTION OF RCC Hume Pipe at Itahari till, June, 2018

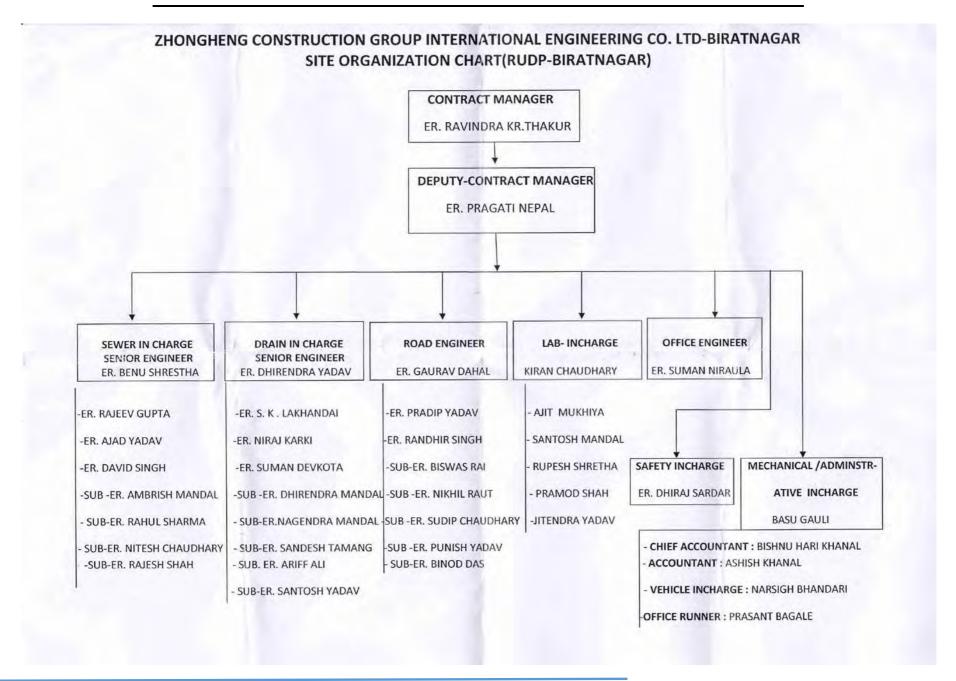
	Physical Progress till June- 2018							
			Progress					
S.N.	Description	Diameter (mm)	BoQ (RM)	Up to Previous month (RM.)	This Month (RM.)	Total to Date (RM.)	Remarks	
1	RCC Pipe	300	336.00	336.00	-	336.00		
2	RCC Pipe	450	681.00	681.00	-	681.00	Completed	
3	RCC Pipe	500	842.00	842.00	-	842.00	Completed	
4	RCC Pipe	600	382.00	382.00	-	382.00		
	Total							

Table 11: PHYSICAL PROGRESS in PRODUCTION OF HDPE Pipe till, June, 2018

	Physical Progress till June- 2018							
			Progress					
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	1,987.20	-	1,987.20		
2	HDPE Pipe	200.00	16,656.00	10,500.00	-	10,500.00	Under process	
3	HDPE Pipe	250.00	115.00	450.00	-	450.00		
	Total							

Table 12: PHYSICAL PROGRESS in PRODUCTION OF UPVC Pipe till, June, 2018

	Physical Progress till June- 2018							
				Progress				
S.N.	Description	Diameter (mm)	BoQ (RM)	Up to Previous month (RM)	This Month (Rm.)	Total to Date (RM.)	Remarks	
1	UPVC Pipe	160.00	5,050.00	4,500.00	-	4,500.00		
2	UPVC Pipe	200.00	5,050.00	2,500.00	1,500.00	4,000.00		





7 CONTRACTOR'S MANPOWER

Table 13: CONTRACTOR'S KEY STAFFS in June, 2018

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	-	18	
9	Accountant	-	2	
10	Lab Technician	-	1	
11	Store Keeper	-	2	
12	Vehicle Incharge	-	2	
13	Skilled Labors		115	
14	Unskilled Labors		329	

As per sub Clause no. 6.7 GCC/ PCC regarding Health and Safety, the Contractor needs to appoint an Accident Prevention Officer. Accident Prevention Officer has left the site beyond dated 19th June, 2018 whom the Consultant has asked for replacement.

8 CONTRACTOR'S EQUIPMENT

Table 12: 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	3	
6	Pneumatic tyre roller 8 to 10 ton	2	1	
7	Smooth wheeled roller 8 to 10 ton	1	1	
8	Grader	1	1	
9	Track Dozer (120 to 180 HP)	1	-	
10	Bitumen distributor (4 to 6 Kilo litre)-	1	1	
11	Water browser (minimum 5000 Litres)	3	8	
12	Chips spreader	1	-	
13	Bitumen decanter minimum 4000 Litres. (preheating container)	2	2	
14	Air compressor	2	2	
15	Tipping Trucks	15	30	
16	Service vehicle	2	5	
17	Survey equipment (Total station with accessories)	1	1	
18	Thedolite	2	-	
19	Levelling	5	12	
20	Mobile Generator 15-20 Kva	3	7	
21	Mixer Machine	6	7	
22	Concrete Batching Plant	1	-	
23	Concrete pump	1	-	

S.No	Equipment Type and Characteristics	Min Number required as per Contract	ZHONGHENG CONSTRUCTION Group	Remarks
24	Drain cleaner/ Nala cleaner	2	-	
25	Broomer	-	2	
26	Motor Bike	-	10	
27	Plate Compactor	-	6	
28	Water Pump	-	6	

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.
- Asphalt Concrete in Road section R37, R7, R27, Rani, R5
- Storm water drainage (CN2-CN3).
- Precast production works at contractor's yard.
- Side drain works.
- Laying of kerb Stone and cover slab.



10 ANNEX-1: PHOTOGRAPHS OF JUNE, 2018



Asphalt concrete works at R114



Asphalt concrete at R114





RCC Drain works at R6



Drain work at R12



Kerbstone works at S11



Site clearance work at B2





Gutter works at R113



Joint sampling of Bitumen at Asphalt plant





Casting cube mould of Kerbstone at DDC Yard



Reinstatement of water supply pipes





Relocation of Electric Poles at R5

11 ANNEX-2: MINUTES OF MEETING JUNE, 2018



B N ConsultancyPvt. Ltd and Plus As neers & archivects (P) Ltd, Kathmandu, Nepal REGIONAL URBAN DEVELOPMENT FROM CA (RUDP), ADB Loan No. 47252

Biratnagar Metropolitan city, Biratnagar

MINUTES OF MEETING-12

Contract: Regional Urban Development Project (RUDP), Biratnagar

Date: 04 June 2018 Time: 04:00 PM

Venue: PIU Office, Biratnagar

Attendance

Emplo	oyer:							
1	Mr. Bhim Parajuli	Mayor, BMC						
2	2 Mr. Kumar Prasad Dahal Chief Administrative Officer (CAO)							
3	Mr. Bharat Kumar Nuepane	Project Manager (PM), PIU						
4	Mr. Prakash Narayan Chaudhary							
5	Mr. Ghanshyam Kafley	Engineer, BMC						
6	Mr. Poonam Kumar Dahal	Social Development Officer, PIU						
Contra	actor:							
1	Mr. Ravindra Thakur	Contract Manager (CM), Zhongheng Construction Group Co. Ltd.						
Consu	ıltant:							
1	Mr. Giresh Chand	Team Leader, DSC						
2	Mr. Hare Krishna Mandal	Quantity Surveyor Expert, DSC						

The meeting was chaired by Mayor, Mr. Bhim prajuli, Biratnagar Metropolitan City. Mr Kumar Prasad Dahal, CAO was introduced to all the Participants of the meeting as this was the first meeting he was participating. Mr. Bharat Kumar Neupane welcomed all the Participant and following matters were discussed and decided upon:

S. NO.	Minutes	Action by
	Mr Bharat Kr Nuepane, PM briefed about the present status of the RUDP.	
1	Mr. Giresh Chand, TL elaborated on Present Status of the Project stating the Progress Graph of the Project. Road completed (Asphalt)- 9.128 Km Sewer Line completed- 7.084 Km Road Side Drain completed- 10.407 Km Storm Water Drain completed- 500 m	The Employer, Consultant & Contractor









Building Design

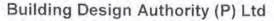
B.N.ConsultancyPvt. Ltd and Plus

fects (P) Ltd. Kathmandu, Nepal REGIONAL URBAN DEVELOPMENT (RUDP), ADB Loan No. 47252

Biratnagar Metropolitan city, Biratnagar

S. NO.	Minutes	Action by				
	Mr. Giresh Chand, TL further emphasized stating that viewing upcoming Monsoon this year, Sub Base work has been under progress wherever Sewer Line was executed.					
2	Mr. Bhim Parajuli, Mayor stated that Qualitative Work facilitating the Public with smooth access within executed Project Area was desired.	The Employer, Consultant & Contractor				
	Mr. Giresh Chand, TL stated that in case Right of Way was cleared as soon as possible, the Contractor would be able to accelerate the execution of Work.					
3	Mr. Giresh Chand, TL further asked the Employer about Integrated Solid Waste Management(ISWM) stating due to Socio Environment Problem the Design work was hindered though Inception Report as well as Stakeholder's Analysis, Communication Strategy and Consultation Plan for Integrated Solid Waste Management (ISWM) has already been submitted. Unless the Socio Environment Problem was sorted out, the Preliminary design could not be submitted as scheduled.	y due was as and Vaste iitted. The Employer Consultant &				
	Mr. Bhim Parajuli, Mayor as well as Mr. Bharat Kumar Neupane, PM informed that the Site would be visited and they would interact with concerned Public. The Conclusion might be delivered after Rainy Season.					
	Mr. Kumar Prasad Dahal, CAO persuaded PIU, Consultant and Contractor to be considerate about Social Aspects while executing the Work.					
4	Mr. Ravindra Thakur, CM stated that all works were under Progress. He further told that he was committed to fulfil all requirements with Qualitative work as well as he further committed to execute the works as early as possible.	The Employer, Consultant & Contractor				
5	The Team Members of the Employer thanked all the participants of the meeting and closed the meeting.					







in Joint Venture with

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

Biratnagar Metropolitan city, Biratnagar

MINUTES OF MEETING NO. - 13

Contract: RUDP/ICB/BRT- 02

Date: June 14, 2018 Time: 2:30 PM

Venue: TL Office, Biratnagar

Attendance

Employer:

Mr. Bharat Kumar Neupane , Project Manager
 Mr. Prakash Chaudhary, Deputy Project Manager
 Mr. Ghanashyam Kafley, Project Engineer

Contractor:

- 1. Mr. Ujjwal Prasai , Project Manager, CTCE/Kalika
- 2. Mr. R.K Thakur, Contract Manager, Zhongheng
- 3. Mr. Mahesh Subedi, Engineer, CTCE/Kalika
- 4. Mr. Dhirendra Yadav, Engineer, Zhongheng

Consultant:

1. Mr. Giresh Chand Team Leader

2. Mr. Amit Kumar Gupta, CSE

3. Mr. H K Mandal, Expert/Quantity Surveyor 12.

Mr. Rajan Shrestha, Engineer/ Quantity Surveyor
 Mr. Rajesh K Yadav, Jr. Engineer

TL welcomed all participants in the meeting. Following matters were discussed and decided:

S.N.	Minutes	Action by
1.	TL, Mr. Chand asked the Project Manager, Mr Ujwal Prasai of CTCE Kalika about the sewer inlets and House connections had not been connected at more than 572 places though it was the contractor's obligation to fulfill as per the outstanding works.	Employer/ Consultant/ Contractor
	Mr Ujjwal Prasai replied that he had already provided the letter indicating the cause of no work.	

Address Bargachlii Pipalchowk-05 Birahrayar Email midphdabri@gmail.co







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Biratnagar Metropolitan city, Biratnagar

	Project Manager, Mr Bharat Neupane informed he was very serious about the matter from the beginning and the operation and maintenance of sewer had been raised time to time in every meeting. So the contractor could not escape from his obligation. Finally, it was agreed to workout at every site with team consisting the members from each party i.e., employer, Consultant and Contractor and sort out and decide at the spot from 15 June 2018 at 9 A.M and carry out physical works from 16 June 2018 and complete by the end of June. In case of any unseen disturbances, the remaining work would be completed on DLP period.	
2.	The contractor of CTCE/Kalika asked the Employer to take over the existing HDPE pipe of R2 Road. The Employer replied to stock all the HDPE pipes at WWTP with safety.	Employer/ Contractor
3.	PM informed that all the materials dumped at the site during construction eg, Kerbstone, aggregate, sand etc laid haphazardly required to be cleared at the locations where asphalt works had been completed. He further added for the proper channelization of rain water through drain. Contractor informed that he had already mobilized his manpower	Consultant Contractor
4.	for the work and would complete before monsoon as consultant has instructed. CM, Mr. Ravindra Thakur informed that he had been facing several disturbances from the start of the work eg, site	Employer/ Consultanti Contractor
	clearance, sewer inlet, shut down from NEA for electric pole shifting etc. hindering our schedule which were not mentioned in the contract document. Therefore, he requested for the extention of time for the completion of work. PM informed that he would sort out all the problems mentioned before this monsoon.	

hillfresh Bargrishlii Pipalchowk 05 Biralnagar Email Tudpbdabrt@ginail.com





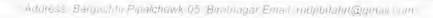
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Biratnagar Metropolitan city, Biratnagar

5.	CM M. B. S. L. T. L.	Consultant/
	CM, Mr. Ravindra Thakur expressed his confusion whether he had to be responsible/or not for the work defected due to fail of other's work	Contractor
	TL clearly informed that both contractors would be responsibility for their own work only.TL further informed that he would not be responsible for the defect encountered due to other's cause.	
6.	DPM informed about the quality of kerbstone laid at site not found satisfactory	Employer/ Consultant/
	Contractor informed that the current kerbstones stacked at some sites were mistakenly taken before sufficient curing. So he would rectify those kerbstone.	Contractor
	TL informed that there might also be the problem in working methodology of kerbstone. The material tested in cube mould found satisfactory as per the specification but not found satisfying in the constructed Kerbstone due to less mositure. He requested the employer for the joint inspection of work at yard.	
	The employer agreed on the same	
7.		
	TL informed to the employer that due to the existing subbase layer was at/above the drain level, the top of kerbstone might not match the existing drain level at site. Previously, CTCE/Kalika during STIEUP Project had laid the subbase at the existing OGL without necessary excavation to protect the existing water supply pipe below the road as instructed by Employer.	
8.	As for as injet/House connections	
	As far as inlet/House connections necessary for the Koshi Highway line were concerned, Mr Ujjwal Prasai admitted to start the work as early as possible. He also informed that all the necessary inventories required for the dedicated feeder line had been brought except cable and transformer. Also extension of control Room Building had been completed.	





RUDP/ICB/BRT/2 Meeting Attendance

Date:14-June-2018

Venue: TL Office

S.N.	Name	Designation	Organization	Signature
1	Giresh Chand	DSE, TL	1812	82
2	H.K. Man Del	DEL EX	BDA	182
3	Prakash N. Clandlary.	DPM.	PIV	ylf.
4	Bharal Kumar Moup	re pm	bin	Brenta.
5	Ex-Gahanashyam Kasley	Project Engineer	970	A Signi
6	Ed. Ravings Thaxas		Zhorgherg	Pa
7	Ex. Dhirendra Yadav	Engineer	11	2 hirandaa
8	Er. Rajan shresh	Engineer	1304	diof.
9	RaJash K. yadav.	Jr. engineer.	>sc	\$-1-k-1-
10	Mahesh subedi	Engineer	Ctce-Kalikalk	W
11	Offical Prasai	9	CTEE/Kaltun	FV Mag
12	Anist kumas bupts	CSE	STEVERP/EVAD	\$2.8E3
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18				
19				
20				

12 ANNEX-3: LABORATORY TEST RESULTS OF JUNE, 2018 Attached

	REGIO	В	iratnag	ar Me	VELOP. tropolitan JDP/ICB/B	City	Γ PROJ	ECT	
			Summary	Sheet of	Field Density	Test			
							Month Year	Jur 201	
			Locat	ion:-T3L	24-C		Type of Material	Sub-G	
							ty(gm/cc)	Compac	
Sn.	Lab.Ref.no	Testing Date	Chanage	ОМС%	Field MC%	Max.Dry density	Field Dry density,	Compaction %	Specifie %
1	RUDP-SG-FD-1, RHS	8-Jun-18	0+100	8.90	7.82	1.860	1.776	95.50	95
2	RUDP-SG-FD-1, LHS	8-Jun-18	0+180	8.90	7.13	1.860	1.802	796.89	95
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Zŀ	HONGHENG CONSTRUCT	tractor () ION GROUP IN UNG CO. LTD	NTERNAT	IONAL	WITH B.N. C	ONSULTA	Consultant THORITY (P) L NCY PVT. LTD (P) LTD, KATH	AND PLUS EN	MGINEER
0	Mr		Por		Dist	34.		8	
	ked By neer		ubmitted B		Verified By Qty Enginner/C	SE		Approved By Team Leader	

	REGI	ONAL U	Biratna	igar M	etropolit	an City	T PRO	JECT	
					RUDP/ICB				
			Summa	ry Sheet	of Field Dens	sity Test			
							Month	Ju	ne
				Locatio	on:-R-113	-	Year		18
					e content %		Type of Material Density(gm/cc)		ise
Sn.	Lab.Ref.no	Testing Date	Chainage			Max.Dry	Field Dry		ction %
			chamage	OMC%	Field MC%	density		Compaction	Specifie
1	RUDP-B-FD-1, R/S	23-Jun-18	0+420	5.75	5.03	2.250	density,	(09.70	%
2	RUDP-B-FD-1, L/S	23-Jun-18	0+460	5.75	5.71			(98.70	98
3	RUDP-B-FD-1, L/S	23-Jun-18	0+490	5.75	5.16	2.250	2.216	98.93	98
4	RUDP-B-FD-1, R/S	23-Jun-18	0+540			2.250	2.211	/99.02	98
5	RUDP-B-FD-1, L/S			5.75	5.35	2.250	2.249	99.94	98
	KUDI-D-FD-1, L/S	23-Jun-18	0+580	5.75	5.14	2.250	2.220	/ 99.68	98
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ZHO	NGHENG CONSTRUCT		TERNATI	ONAL	WITH B.N. CO	ONSULTANO	CY PVT. LTD	LTD IN JOINT AND PLUS EN IMANDU, NEP	GINEERS &
necke		Submitted By			Verified By	 SE		Approved By	

]	Contrac	t No:- R	etropolita RUDP/ICB	/BRT-02			
			Summa	ry Sheet	of Field Dens	ity Test	Month	Ju	
							Year	20	
			Location:-R-104				pe of Material	Ba	
					e content %	Density	1	Compa	
n.	Lab.Ref.no	Testing Date	Chainage	OMC%	Field MC%	Max.Dry density	Field Dry density,	Compaction %	Specified %
1	RUDP-B-FD-1, R/S	19-Jun-18	0+100	5.10	5.09	2.248	2.207	98.70	98
2	RUDP-B-FD-1, L/S	19-Jun-18	0+150	5.10	5.50	2.248	2.212	98.93	98
3	RUDP-B-FD-1, L/S	19-Jun-18	0+200	5.10	5.49	2.248	2.214	• 99.02	98
4	RUDP-B-FD-1, R/S	19-Jun-18	0+250	5.10	5.75	2.248	2.235	99.94	98
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-		ntractor	10	-			Consultan	ıt.	
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nt	r v	WIND INTERNAT			1.2	De l'és	(I) LID, KAI	4	ral

	REGIO	Co	ELOPM Tropolitan C DP/ICB/BRT Tonthly Test Repo	-02	PRO	OJE	CT						
							Month: June						
							Year Type of Material				Type of		2018
Sn.	Lab.Ref no.	Location of Sample	Source of Sample	Date of Testing	MDD	OMC	PI%	CBR%	grade Remark				
1	RUDP-SG-01	T3L24-C	T3L24-C	6 L 10			/	/	Remark				
-			13124-0	6-Jun-18	1.860	8.90	14.09	6.10					
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	(Contractor		NVI DOG		sultant							
HONG	HENG CONSTRU ENGINE	CTION GROUP I ERING CO. LTD	NTERNATIONAL	BUILDING DES. VENTURE WITH PLUS ENGIN	B.N. CO VEERS &	NSULTA	NCY P	VT. LT	DAND				
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6/	lv		Submitted By V	erified By			0						
ecked E	J						pprove						

		S	ummary Sheet of Mo	onthly Test Repo	rt	Mor	th.		une
				Ye			018		
						Type Mate		Sub	grade
Sn.	Lab.Ref no.	Location of Sample	Source of Sample	Date of Testing	MDD	ОМС	PI%	CBR%	Remarks
1	RUDP-SG-01	R-33, (0+100)	R-33, (Existing Road)	16-Jun-18	2.210	6.12	12.31	5.38	
1									
		Contractor			_	onsultai		A 106 37	30.43
ZHON	GHENG CONST	RUCTION GROUNDERING CO. 1	IP INTERNATIONAL	BUILDING DI VENTURE WIT PLUS ENC	TH B.N. C	CONSUL & ARC	TANCY	Y PVT. L TS (P) L	TD AND

		B C	iratnag ontract	ar Mei No:- RI	tropolitan JDP/ICB/B	City RT-02			
			Summary	Sheet of	Field Density	Test			
							Month	Jun	
			Lo	cation:-R	12	7	Year ype of Material	201 Sub-G	
			Lo		e content %		y(gm/cc)	Compac	
Sn.	Lab.Ref.no	Testing Date	Chanage	OMC%	Field MC%	Max.Dry density	Field Dry density,	Compaction %	
1	RUDP-SG-FD-1, RHS	16-Jun-18	0+060	6.12	5.38	2.210	2.134	96.58	95
2	RUDP-SG-FD-1, LHS	16-Jun-18	0+140	6.12	5.25	2.210	2.112	95.57	95
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ZI	HONGHENG CONSTRUCT	tractor ION GROUP II UNG CO. LTD	NTERNAT	IONAL	WITH B.N. C	ONSULTAN	NCY PVT. LTD	TD IN JOINT AND PLUS EI HMANDU, NEI	NGINEER
	R. S. WONNESTING	***	Pu		4:1	24.0	in / MAN, INC.	8	
Check	keď By neer	5	Submitted E	By ager	Verified By			Approved By	

	1	REGIO	NAL UR Bir		DEVELO ar Metropol			OJEC	1		
					No:- RUDP/IC						
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							Descrip	tion of San	nle	Brick	
							Date of			h, N/mm2	1
S.N.	Location	Lab Ref no.	Type of Cement	Brand of Cement	Source of Sand	Date of Casting	7 Days	28 Days	7 Days		Typ of Grac
1	R-111	MR-214	Arghakhachi	OPC	Chisang Khola	4-May-18	11-May-18	1-Jun-18		8.40	7.5
2	Xenial Hotel	MR-215	Arghakhachi	OPC	Chisang Khola	4-May-18	11-May-18	1-Jun-18		8.40	7.5
3	R-33	MR-216	Arghakhachi	OPC	Chisang Khola	5-May-18	12-May-18	2-Jun-18		8.94	7.5
4	R-2	MR-217	Arghakhachi	OPC	Chisang Khola	5-May-18	12-May-18	2-Jun-18		7.74	7.5
5	R-36	MR-218	Arghakhachi	OPC	Chisang Khola	7-May-18	14-May-18	4-Jun-18		7.87	7.5
6	N-3	MR-219	Arghakhachi	OPC	Chisang Khola	8-May-18	15-May-18	5-Jun-18		8.94	7.5
7	R-21	MR-220	Arghakhachi	OPC	Chisang Khola	8-May-18	15-May-18	5-Jun-18		8.27	7.5
8	R-122	MR-221	Arghakhachi	OPC	Chisang Khola	8-May-18	15-May-18	5-Jun-18		9.20	7 5
9	Rani Site	MR-222	Arghakhachi	OPC	Chisang Khola	10-May-18	17-May-18	7-Jun-18		8.94	7.
10	R-111	MR-223	Arghakhachi	OPC	Chisang Khola	10-May-18	17-May-18	7-Jun-18		8.00	7.5
11	R-111	MR-224	Arghakhachi	OPC	Chisang Khola	11-May-18	18-May-18	8-Jun-18		9.07	7
12	Xenial Hotel	MR-225	Arghakhachi	OPC	Chisang Khola	11-May-18	18-May-18	8-Jun-18		9.34	7.
13	R-111	MR-226	Arghakhachi	OPC	Chisang Khola	12-May-18	19-May-18	9-Jun-18		8.54	7.5
14	Xenial Hotel	MR-227	Arghakhachi	OPC	Chisang Khola	12-May-18	19-May-18	9-Jun-18		/ 8.54	7.
15	R-111	MR-228	Arghakhachi	OPC	Chisang Khola	13-May-18	20-May-18	10-Jun-18		8.14	7.5
16	R-33	MR-229	Arghakhachi	OPC	Chisang Khola	13-May-18	20-May-18			7.74	7.
17	R-2	MR-230	Arghakhachi	OPC	Chisang Khola	13-May-18	20-May-18			8.67	7.5
18	R-21	MR-231	Arghakhachi	OPC	Chisang Khola	13-May-18	20-May-18			8.94	7.5
19	R-122	MR-232	Arghakhachi	OPC	Chisang Khola	13-May-18	20-May-18			7.87	7.5
20	R-2	MR-233	Arghakhachi	OPC	Chisang Khola	16-May-18	23-May-18			8.94	7.5
21	R-122	MR-234	Arghakhachi	OPC	Chisang Khola	16-May-18	23-May-18		-	8.67	7
22	R-33	MR-235	Arghakhachi	OPC	Chisang Khola	16-May-18	23-May-18		-	7.87	7.
23	South of Xenial Hotel	MR-236	Arghakhachi	OPC	Chisang Khola	17-May-18	24-May-18	Park to the last		8:40	7.5
24	T3 L21	MR-237	Arghakhachi	OPC	Chisang Khola	17-May-18	24-May-18	14-Jun-18		9.74	7
25	R-2	MR-238	Salimar	OPC	Chisang Khola	17-May-18	24-May-18	14-Jun-18		8.67	7.:
26	R-122	MR-239	Salimar	OPC	Chisang Khola	18-May-18	25-May-18	15-Jun-18		8.27	7.
27	R-21	MR-240	Salimar	OPC	Chisang Khola	18-May-18	25-May-18	15-Jun-18		8.00	7.
29	South of Xenial Hotel	MR-241	Salimar	OPC	Chisang Khola	19-May-18	26-May-18	1000	1	8.40	7.:
30	T3L21	MR-242	Salimar	OPC	Chisang Khola	19-May-18	26-May-18	16-Jun-18	1	8.14	7.:
31	R-33	MR-243	Salimar	OPC	Chisang Khola	19-May-18	26-May-18	16-Jun-18	1	8.94	7.:
32	R-2	MR-244	Salimar	OPC	Chisang Khola	20-May-18	27-May-18	17-Jun-18	1	8.14	7.
33	R-21	MR-245	Salimar	OPC	Chisang Khola				1	8.67	7.
34	R-122	MR-246	Salimar	OPC	Chisang Khola	20-May-18	27-May-18	17-Jun-18		8.40	7.
35	T3 L21	MR-247	Salimar	OPC	Chisang Khola	21-May-18	28-May-18	18-Jun-18	/	8.00	7
36	T3 L39	MR-248	Salimar	OPC	Chisang Khola	21-May-08	28-May-08	18-Jun-08		9.20	7.
		Contracto	or				Consu	ltant			
	CHONGHENG TERNATION				VENTURI	E WITH B	IN AUTHO I.N. CONS IERS & A THMANI	ULTANO RCHITE	CY PVT CTS (F	r. LTD	
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PY	ad han		Rabir)	4:	34	7		<	8	
Che	cked By		Submitted B	y	Verified By				A	pproved	By
Cnn	neer		Contract Man	gger	Oty Engineer	CSF			T	eam Lea	der



Engineer

Team Leader

Qty Engineer/CSE

Submitted By Contract Manager

		REGIO		Biratn: Contrac	N DEVE agar Metro et No;- RUDF Sheet of Mor	politan C /ICB/BRT	ity -02	KOJE	- I		
								Month	-	Ju	ne
								Year		20	
							Donnei	ption of Sam			
	1			T				Testing	1	Brick	100
S.N.	Location	Lab Ref.no.	Type of Cement	Brand of Cement	Source of Sand	Date of Casting	7 Days	28 Days		28 Days	of Grad
37	R-2	MR-249	Salimar	OPC	Chisang Khola	21-May-18	28-May-18	18-Jun-18		8.27	7.5
38	R-122	MR-250	Salimar	OPC	Chisang Khela	21-May-18	28-May-18	18-Jun-18		8.14	7.5
39	R-122	MR-251	Salimar	OPC	Chisang Khola		29-May-18	19-Jun-18		8.27	7.5
40	T3 L21	MR-252	Salimar	OPC	Chisang Khola	-	29-May-18	19-Jun-18		c 8.40	7.5
41	R-122	MR-253	Salimar	OPC	Chisang Khola		29-May-18	19-Jun-18		8.80	7.5
42	T3 L39	MR-254	Salimar	OPC	Chisang Khola		29-May-18	19-Jun-18		(8.40)	7.5
43	R-122	MR-255	Salimar	OPC	Chisang Khola	23-May-18	30-May-18	20-Jun-18		7.87	7.5
44	T3 L21	MR-256	Salimar	OPC	Chisang Khola		31-May-18	21-Jun-18		8.54	7.5
45	R-2	MR-257	Salimar	OPC	Chisang Khola		31-May-18	21-Jun-18		9.20	7.5
46	R-122	MR-258	Salimar	OPC	Chisang Khola	24-May-18	31-May-18	21-Jun-18	- (-
47	Xenial Hotel	MR-259	Salimar	OPC	Chisang Khola	24-May-18		21-Jun-18	-	8.67	7.5
48	R-33	MR-260	Salimar	OPC	Chisang Khola	24-May-18	31-May-18 31-May-18	21-Jun-18	,	7.74	7.5
49	R-111	MR-261	Salimar	OPC	Chisang Khola	25-May-18	1-Jun-18	22-Jun-18	5.74	8.80	7.5
50	R-2	MR-262	Salimar	OPC	Chisang Khola	25-May-18	31-nac-1	22-Jun-18	6.14	8.67	7.5
51	South of Xenial hotel	MR-263	Salimar	OPC	Chisang Khola	26-May-18	2-Jun-18	23-Jun-18	5.87	7.74	7.5
52	R-122	MR-264	Salimar	OPC	Chisang Khola	28-May-18	4-Jun-18	25-Jun-18	5.87	7.74	7.5
53	T3L21	MR-265	Salimar	OPC	Chisang Khola	28-May-18	4-Jun-18	25-Jun-18	6.00	8.14	7.5
54	Rani Site	MR-266	Salimar	OPC	Chisang Khola	29-May-18	5-Jun-18	26-Jun-18	5.47	79.47	7.5
55	R-2	MR-267	Salimar	OPC	Chisang Khola	29-May-18	5-Jun-18	26-Jun-18	6.40	C 8.67	7.5
56	R-111	MR-268	Salimar	OPC	Chisang Khola	30-May-18	6-Jun-18	27-Jun-18	5.74	8.40	7.5
57	R-2	MR-269	Salimar	OPC	Chisang Khola	30-May-18	6-Jun-18	27-Jun-18	5.60	8.54	7,5
58	Rani site	MR-270	Salimar	OPC	Chisang Khola	1-Jun-18	8-Jun-18	29-Jun-18	5.65	(8.94	7.5
59	R-2	MR-271	Salimar	OPC	Chisang Khola	1-Jun-18	8-Jun-18	29-Jun-18	5.74	8.40	7.5
60	T3L21	MR-272	Salimar	OPC	Chisang Khola	2-Jun-18	9-Jun-18	30-Jun-18	5.87	/ 8.74	7.5
61	South of Xenial hotel	MR-273	Salimar	OPC	Chisang Khola	3-Jun-18	10-Jun-18	1-Jul-18	5.87	(0.74	7.5
62	T31.39	MR-274	Salimar	OPC	Chisang Khola	4-Jun-18	11-Jun-18	2-Jul-18	5.60		7.5
63	T3L39	MR-275	Salimar	OPC	Chisang Khola	4-Jun-18	11-Jun-18	2-Jul-18	6.00		7,5
65	R-111	MR-276	Salimar	OPC	Chisang Khola	7-Jun-18	14-Jun-18	5-Jul-18	6.27		7.5
66	DSP Road	MR-277	Salimar	OPC	Chisang Khola	7-Jun-18	14-Jun-18	5-Jul-18	5.33		7.5
67	B2-1	MR-278	Salimar	OPC	Chisang Khola	8-Jun-18	15-Jun-18	6-Jul-18	6.27		7.5
68	DSP Road	MR-279	Salimar	OPC	Chisang Khola	8-Jun-18	15-Jun-18	6-Jul-18	6.14		7.5
69	Rani Site	MR-280	Salimar	OPC	Chisang Khola	8-Jun-18	15-Jun-18	6-Jul-18	6.14		7.5
70	Rani Site	MR-281	Salimar	OPC	Chisang Khola	9-Jun-18	16-Jun-18	7-Jul-18	6.67		7.5
71	N-3	MR-282	Salimar	OPC	Chisang Khola	10-Jun-18	17-Jun-18	8-Jul-18	5.33		7.5
		Contractor			BILLIAN	IC DESIG	Consult	7	LTDY	N IOIN	т
	ONGHENG O	100 M 1 1 L M	17.70	2000	VENTURE	WITH B.	N AUTHO N. CONSU ERS & AR FHMANDU	LTANCY CHITEC	PVT. IS (P)	LTD A	
P	allan	1 1 1	Kalin	1	Nide?	\$ C			<	K	
	ked By		Submitted I ontract Man		Verified By Qty Engineer/	CSE				proved I am Lead	



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

								Month		Ju	
								Year		20	
		-						otion of San	-	Brick	Wall
S.N.	Location	Lab Ref.no.	Type of Cement	Brand of Cement	Source of Sand	Date of Casting	Date of 7 Days	Testing 28 Days		h, N/mm2 28 Days	Type of Grad
71	R-12	MR-283	Salimar	OPC	Chisang Khola	11-Jun-18	18-Jun-18	9-Jul-18	6.27		7.5
72	DSP Road	MR-284	Salimar	OPC	Chisang Khola	12-Jun-18	19-Jun-18	10-Jul-18	5.87		7.5
73	B2-1	MR-285	Salimar	OPC	Chisang Khola	12-Jun-18	19-Jun-18	10-Jul-18	6.14		7.5
74	Rani Site	MR-286	Salimar	OPC	Chisang Khola	12-Jun-18	19-Jun-18	10-Jul-18	5.87		7.5
75	R-111	MR-287	Salimar	OPC	Chisang Khola	13-Jun-18	20-Jun-18	11-Jul-18	6.67		7.5
76	DSP Road	MR-288	Salimar	OPC	Chisang Khola	13-Jun-18	20-Jun-18	11-Jul-18	5.74		7.5
77	B2-1	MR-289	Salimar	OPC	Chisang Khola	13-Jun-18	20-Jun-18	11-Jul-18	6.67		7.5
78	Rani Site	MR-290	Salimar	OPC	Chisang Khola	13-Jun-18	20-Jun-18	11-Jul-18	5.60		7.5
79	T3L39	MR-291	Salimar	OPC	Chisang Khola	15-Jun-18	22-Jun-18	13-Jul-18	5.74		7.5
80	R-2	MR-292	Salimar	OPC	Chisang Khola	15-Jun-18	22-Jun-18	13-Jul-18	5.85		7.5
81	Rani Site	MR-293	Salimar	OPC	Chisang Khola	15-Jun-18	22-Jun-18	13-Jul-18	5.60		7.5
82	Rani Site	MR-294	Salimar	OPC	Chisang Khola	15-Jun-18	22-Jun-18	13-Jul-18	5.74		7.5
83	R-111	MR-295	Salimar		Chisang Khola	16-Jun-18	23-Jun-18	14-Jul-18	5.47		7.5
				OPC		200 - 200 - 6	5.3 5255.52		-		
84	T3L39	MR-296	Salimar	OPC	Chisang Khola	17-Jun-18	24-Jun-18	15-Jul-18	6.40		7.5
85	Rani Site	MR-297	Salimar	OPC	Chisang Khola	17-Jun-18	24-Jun-18	15-Jul-18	5.47		7.5
86	R-2	MR-298	Salimar	OPC	Chisang Khola	18-Jun-18	25-Jun-18	16-Jul-18	6.14		7.5
87	T3L39	MR-299	Salimar	OPC	Chisang Khola	21-Jun-18	28-Jun-18	19-Jul-18	5.87		7.5
88	R-2	MR-300	Salimar	OPC	Chisang Khola	21-Jun-18	28-Jun-18	19-Jul-18	6.14		7.5
89	T3L39	MR-301	Salimar	OPC	Chisang Khola	22-Jun-18	29-Jun-18	20-Jul-18	6.40		7.5
90	R-111	MR-302	Salimar	OPC	Chisang Khola	23-Jun-18	30-Jun-18	21-Jul-18	5.60		7.5
91	T3L39	MR-303	Salimar	OPC	Chisang Khola	23-Jun-18	30-Jun-18	21-Jul-18	6.67		7.5
		Contracto	r				Consu	ltant			
		AL ENGIN	CETTON GROVEERENG CO		VENTURE	WITH B	N AUTHO N. CONS ERS & A THMAND	ULTANO RCHITE	CY PVT	LTD.	
(P)	xdhan	Showout & O	Rab	'n	6/1	NO SEV			(8	/

Checked By Engineer

Kahn Submitted By Contract Manager

Verified By Qty Engineer/CSE

Approved By

Team Leader

	REGIO	ONAL U	Biratna	gar M	EVELO etropolit RUDP/ICB	an City	T PRO	JECT	
		-			of Field Dens				
			Summa	ry Sneet	of Fleid Dens	sity Test	Month		
						-	Year	Jun 201	
			Loc	cation:-			pe of Material	Bas	
				V	e content %	Density	(gm/cc)	Compac	tion %
Sn.	Lab.Ref.no	Testing Date	Chainage	OMC%	Field MC%	Max.Dry	Field Dry	Compaction	Specifie
	DUDD D ED 1 D/S		W. W.C.			density	density,	%	%
1	RUDP-B-FD-1, R/S	16-Jun-18	0+050	5.75	5.12	2.228	2.228	1 98.98	98
2	RUDP-B-FD-1, R/S	16-Jun-18	0+100	5.75	5.36	2.208	2.208	/98.10	98
3	RUDP-B-FD-1, L/S	16-Jun-18	0+210	5.75	5.12	2.247	2.247	/ 99.82	98
4	RUDP-B-FD-1, R/S	16-Jun-18	0+240	5.75	5.95	2.206	2.206	98.01	98
5	RUDP-B-FD-1, L/S	16-Jun-18	0+300	5.75	5.31	2.218	2.218	/ 98.51	98
6	RUDP-B-FD-1, R/S	16-Jun-18	0+350	5.75	5.81	2.239	2.239	199.49	98
7	RUDP-B-FD-1, L/S	16-Jun-18	0+400	6.10	4.68	2.229	2.229	₹ 99.88	98
8	RUDP-B-FD-1, R/S	16-Jun-18	0+450	6.10	5.00	2.251	2.251	/ 99.11	98
9	RUDP-B-FD-1, R/S	16-Jun-18	0+500	6.10	6.21	2.247	2.247	/ 99.08	98
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ZHO	NGHENG CONSTRUCT	ntractor FION GROUP I RING CO. LTD	NTERNAT	IONAL	WITH B.N. C	ONSULTAN	CY PVT. LTE	LTD IN JOINT AND PLUS EN	GINEERS &
hegk	r me		Mubmitted B		Verified By	Lange of		B	

	REGI	I <u>C</u>	Biratnagar Contract No	DEVELOPN Metropolitan :- RUDP/ICB/BI	City RT-02	PROJI	ECT
			Summary Suc	et of Monthly Test R	сроге	Month:	May
						Year	2018
						Type of Material	Com.Material
Sn	Lab Ref no	Location of Sample	Chainage	Date of Testing	MDD	OMC	Remarks
. 1				tion:-T2Line 18			
1	RUDP-CM-01	T2L18	0+080	8-May-18	1.825	10.20	
5 1	RUDP-CM-01	Tay Day		ion:-T2Line 18N	Processor I		
2	RUDP-CM-01	T2L18N	0+030	11-May-18	2.080	10.60	
3	RUDP-CM-01	T2L21	0+120	ration:-T2L21 12-May-18	2 120	10.80	
		1 1000		ration:-T2L27	2 120	10 80	
4	RUDP-CNI-01	121.27	0+050	13-May-18	2.020	10.55	
		1		ation:-T3L11E	- wall	14.22	
5	RUDP-CM-01	T3L11E	0+050	15-May-18	1 840	11.60	
	2 22 22 20 20 20	12,000		ation:-T3L11 I	1.040	11.00	
6	RUDP-CM-01	T3L111	0+110	13-May-18	1.840	10.70	
			Loc	ation:-T3L21	1,070	10.10	
7	RUDP-CM-01	T31.21	0+110	19-May-18	2.090	0.10	
				ation:-T3L23		100	
8	RUDP-CM-01	T3L23	0+110	19-May-18	1 950	8.90	
			Loca	ition:-T3L23A			
9	RUDP-CM-01	T3L23A	0+110	19-May-18	1 960	10.20	
			Loca	ition:-T3L23B			
10	RUDP-CM-01	T3L23B	0+050	21-May-18	1 980	10.25	
			Loc	ation:-T3L39			
11	RUDF-CM-01	T3L39	0+120	23-May-18	2.010	10.90	
			Loca	ition:-T3L39B			
12	RUDP-CM-01	T3L39B	0+030	23-May-18	2.040	11 50	
			Loca	tion:-T3L39A			
13	RUDP-CM-01	T3L39A	0+060	24-May-18	1 970	12.25	
				cation:-T4L1	12.0	10.00	
14	RUDP-CM-01	T4L1	0+100	29-May-18	1 940	12 00	
				47 - 107 - 10	12.19	14.00	
-							
	Contractor				Cor	nsultant	
	HENG CONSTRU NATIONAL ENGLE LADID	CTION GROUP NEERING CO.		WITH B.N. CONSU	LTANCY P	A CONTRACTOR OF THE PROPERTY O	
Yac	Mar Mounty	* ZHONGIA	1,	Verified By Oty Engineer/C			Approved By Team Leader



	REC	GIONAL	LURI	BANI	EVEL	OPME	ENT	PRO	JECT	
			Bira	tnagar	Metropo	litan Ci	tv			
					- RUDP/I					
					eet of Field I					
								lonth	Ma	y
						-		Year	201	8
_							Type	of Material	Common N	laterial .
				Moisture	coment %	Dens	ity(gm	/cc)	Compac	ion %
Sn.	Lab.Ref.no	Testing Date	Chanage	OMC%	Field MC%	Max.Di density gn	ry	Field Dry density,	Compaction %	Specifie
-				Transaction	TAX	10	-	gm/cc		
1	BUIDD CC ED 1 L/C	10.34 10	0.050	_	n:-T2Line					
-	RUDP-SG-FD-1, L/S	10-May-18	0+050	10.20	9.86	1.825	_	1.671	/ 91.54	90
2	RUDP-SG-FD-1, R/S	10-May-18	0+100	10.20	10.47	1.825		1.680	/ 92.05	90
3	RUDP-SG-FD-1, L/S	10-May-18	0+150	10.20	10.38	1.825		1.675	191.79	90
	DUDD CO ED . CT				:-T2Line1					
4	RUDP-SG-FD-1, C/L	13-May-18	0+030	10.60	10.27	2.080		1.904	91.52	90
-	Taylor -	To the same of			on:-T2L2					
5	RUDP-SG-FD-1, R/S	14-May-18	0+040	10.80	9.36	2.120		1,966	92.73	90
6	RUDP-SG-FD-1, R/S	14-May-18	0+080	10.80	10.33	2.120		1,937	/ 91.36	90
7	RUDP-SG-FD-1, L/S	14-May-18	0+150	10.80	9.42	2.120		1.961	/ 92.50	90
8	RUDP-SG-FD-1, R/S	14-May-18	0+200	10.80	10.73	2.120		1.914	1 90.27	90
9	RUDP-SG-FD-1, R/S	14-May-18	0+250	10.80	10.03	2,100		1.950	191.99	90
				Locati	on:-T2L2	1				
0	RUDP-SG-FD-1, L/S	14-May-18	0+020	10.55	9.74	2.020		1.850	/ 91.59	90
1	RUDP-SG-FD-1, R/S	14-May-18	0+060	10.55	10.10	2.020		1.852	/ 91.69	90
				Locatio	n:-T3L11	E				
2	RUDP-SG-FD-1, L/S	16-May-18	0+030	11.60	10.85	1.840		1.694	/ 92.06	90
13	RUDP-SG-FD-1, R/S	16-May-18	0+065	11.60	10.86	1.840		1.678	₹ 91.21	90
				Locatio	n:-T3L11				2 10 000	- 79
4	RUDP-SG-FD-1, L/S	16-May-18	0+080	10.70	9.90	1.830		1.683	/ 91.46	90
15	RUDP-SG-FD-1, R/S	16-May-18	0+120	10.70	9.78	1.830	-	1.683	/ 92,06	90
	200000000000000000000000000000000000000		0.120		on:-T3L21			1,003	1 22.00	90
6	RUDP-SG-FD-1, L/S	21-May-18	0+090	9.10	8.49		-	1 025	/ 02.00	200
7	RUDP-SG-FD-1, R/S	21-May-18	0+120	9.10	8.74	2.090	-	1.925	/ 92.09	90
-	1001-30-1 D-1, N/3	21-Way-10	0+120		on:-T3L23			1.913	/ 91.55	90
8	RUDP-SG-FD-1, L/S	21-May-18	0.020 1				-	t con I	2 00 00	0.4
-	RUDP-SG-FD-1, R/S	21-May-18	0+070	8.90	7.83 7.93	1.950	-	1.828	/ 93.76	90
19	KUDI-30-FD-1, N/3	21-Way-10	0+140	2000		1.950		1.789	7 91.74	90
7	DUDD CC CD L D/C	21.14 10.	0.050		n:-T3L23		-	- 10-9 A I	,	
0	RUDP-SG-FD-1, R/S	21-May-18	0+050	10.20	9.03	1.960	-	1.790	91.31	90
1	RUDP-SG-FD-1, R/S	21-May-18	0+130	10.20	9.94	1.960		1.790	/ 91.09	90
_	E. E. C.				n:-T3L23	3				
22	RUDP-SG-FD-1, L/S	21-May-18	0+040	10.25	9.64	1.980		1.811	91.45	90
23	RUDP-SG-FD-1, R/S	21-May-18	0+080	10.25	9.64	1.980		1.838	1 92.85	90
				-	n:-T3L23	3				
\rightarrow	RUDP-SG-FD-1, L/S	21-May-18	0+040	10.25	9.64	1.980		1.811	91.45	90
5	RUDP-SG-FD-1, R/S	21-May-18	0+080	10.25	9,97	1.980		1.838	92.85	90
		Contractor				po-05-04-	and the		sultant	
но	NGHENG CONSTRUCTA	ON GROUPAN CO. LTD	THATTE	ONAL ENG		VENTUR	EWIT	II B.N. CO	HORITY (P) LTD NSULTANCY PVT TECTS (P) LTD, K	LTD AND
60	Yadhan	CO. LTD	D. DHILLE	h		1):4	ost.	7		0/
hec	ked By	* 0	S	ubmitted By		verified By	entione.		3	pphoved By
	neer		Cor	itract Manag		2ty Enginner/	CSE			ean Leader



	RE	GIONA					ENT PR	OJECT	
			Co	ntract N	o:- RUDP	olitan Ci ICB/BRT-	-02		
			2	ummary 2	sheet of Field	Density Test	Month	Mi	· ·
							Year	201	
-							Type of Material	Common	Material
				Moisture	e content %	Densit	y(gm/cc)	Compac	tion %
in.	Lab.Ref.no	Testing Date	Chanage	OMC%	Field MC%	Max.Dry density gm/		Compaction %	Specified
				Locati	on:-T3L39)	Since		
1	RUDP-SG-FD-1, R/S	24-May-18	0+040	10.90	9.95	2.010	1.867	2 92.88	90
2	RUDP-SG-FD-1, L/S	24-May-18	0+080	10.90	9.89	2.010	1.834	/ 91.23	90
3	RUDP-SG-FD-1, L/S	24-May-18	0+150	10.90	9.34	2.010	1.848	/ 91.94	90
					n:-T3L39	В			
4	RUDP-SG-FD-1, C/L	26-May-18	0+025	11.50	9.73	2.040	1.880	/ 92.16	90
				Locatio	n:-T3L39	A			
4	RUDP-SG-FD-1, R/S		0+040	12.25	11.14	1,970	1,797	91.22	90
4	RUDP-SG-FD-1, L/S	29-May-18	0+080	12.25	11.57	1.970	1.797	191.04	90
		15230			ion:-T4L1				
4	RUDP-SG-FD-1, R/S	30-May-18	0+040	12.00	11.50	1.940	1.799	92.73	90
4	RUDP-SG-FD-1, L/S RUDP-SG-FD-1, L/S	30-May-18 30-May-18	0+080	12,00	11,41	1.940	1.808	/ 93,20 / 91,11	90
				4					
+		3							
-	Contrac	tor					Consultant		
	ZHONGHENG CONSTI	RECTION GRO	DUP LTD	CONS	LDING DESIGNATION P	VT, LTD AND	TY (P) LTD IN	JOINT VENTURE V EERS & ARCHITEC PAL	VITH B.N. IS (P) LTD,
	Cadhar without & at ked By	Submitted By		Verified by Qty Enginne	I/CSE	7		Approved By Team Leader	

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

								Month Year			lune 2018
							Type	of Material		Con	c. Cube
S.N.	Location	Lab Ref.no.	Type of Cement	Brand of Cement	Source of Sand+Agg.	Date of Casting	Date of	Testing		ngth, nm2	Concrete
			7 2.0,20	2000		70.33	7 Days	28 Days	7 Days	28 Days	Grade
1	Koshi yard	RUDP-361	Arghakhachi	OPC	Chisang Khola	4-May-18	11-May-18	1-Jun-18	(21.45	M20
2	DDC-yard	RUDP-362	Arghakhachi	OPC	Chisang Khola	4-May-18	11-May-18	1-Jun-18	1	22.28	M20
3	R-122	RUDP-363	Arghakhachi	OPC	Chisang Khola	4-May-18	11-May-18	1-Jun-18	1	20.85	M20
4	DSP Road	RUDP-364	Arghakhachi	OPC	Chisang Khola	4-May-18	11-May-18	1-Jun-18	1	22.50	M20
5	T3 1.21	RUDP-365	Arghakhachi	OPC	Clusang Khola	4-May-18	11-May-18	1-Jun-18	1	21.75	M20
6	B3-2	RUDP-366	Arghakhachi	OPC	Chisang Khola	4-May-18	11-May-18	1-Jun-18	1	21.00	M20
7	RR-1	RUDP-367	Arghakhachi	OPC	Chisang Khola	4-May-18	11-May-18	1-Jun-18		21.75	M20
8	DDC-yard	RUDP-368	Arghakhachi	OPC	Chisang Khola	4-May-18	11-May-18	1-Jun-18	1	32.53	M30 *
9	Madhumara-Yard	RUDP-369	Arghakhachi	OPC	Chisang Khola	4-May-18	11-May-18	1-Jun-18	-1	33.04	M30
10	R-5 (South of Traffick Chowk)	RODP-370	Arghakhachi	OPC	Chisang Khola	5-May-18	12-May-18	2-Jun-18		21.30	M20
11	CN2CN3	RUDP-371	Arghakhachi	OPC	Chisang Khola	5-May-18	12-May-18	2-Jun-18		21.37	M20
12	CN2CN3	RUDP-372	Arghakhachi	OPC	Chisang Khola	5-May-18	12-May-18	2-Jun-18	-	21.60	M20
13	Rani-Site	RUDP-373	Arghaldiachi	OPC	Chisang Khola	5-May-18	12-May-18	2-Jun-18	18	21.98	M20
14	R-2	RUDP-374	Arghakhachi	OPC	Chisang Khola	5-May-18	12-May-18	2-Jun-18	1	22.88	M20
15	Xenial Hotel	RUDP-375	Arghakhachi	OPC	Clusang Khola	5-May-18	12-May-18	2-Jun-18		22.05	M20
16	Koshi yard	RUDF-376	Arghakhachi	OPC	Chisang Khola	5-May-18	12-May-18	2-Jun-18	1	21.75	M20
17	CN2CN3	RUDP-377	Arghakhachi	OPC	Chisang Khola	5-May-18	12-May-18	2-Jun-18		22.80	M20
18	R-2	RUDP-378	Arghakhachi	OPC	Chisang Khola	6-May-18	13-May-18	3-Jun-18	1	23.63	M20
19	R-21	RUDP-379	Arghakhachi	OPC	Chisang Khola	6-May-18	13-May-18	3-Jun-18		22.43	M20
20	13 1.21	RUDF-380	Arghakhachi	OPC	Chisang Khola	6-May-18	13-May-18	3-Jun-18		23.78	M20
21	R-2	RUDP-381	Arghakhachi	OPC	Chisaog Khola	6-May-18	13-May-18	3-Jun-18		23,41	M20
22	R-36	RUDP-382	Salimar	OPC	Chisang Khola	6-May-18	13-May-18	3-Jun-18		22.88	M20
23	R-111	RUDP-383	Salimar	OPC	Chisang Khola	6-May-18	13-May-18	3-Jun-18		23.33	M20
24	RR-I	RUDP-384	Salimar	OPC	Chisang Khola	6-May-18	13-May-18	3-Jun-18	1	22.95	M20
25	B2-2	RUDP-385	Salimar	OPC	Chisang Khola	6-May-18	13-May-18	3-Jun-18	1	24.53	M20
26	DSP-Raod	RUDP-386	Salimar	OPC	Chisang Khola	7-May-18	14-May-18	4-Jun-18		23.41	M20
27	13 1,39	RUDP-\$87	Salimar	OPC	Chisang Khola	7-May-18	14-May-18	4-Jun-18		23.63	M20
28	R-5 (South of Traffick Chowk)	RUDP-388	Salimar	OPC	Chisang Khola	7-May-18	14-May-18	4-Jun-18		22.20	M20
29	RR-1	RUDP-389	Salimar	OPC	Chisang Khola	7-May-18	14-May-18	4-Jun-18	1	/23.71	M20
30	B2-2	RUDP-390	Salimar	OPC	Chisang Khola	7-May-18	14-May-18	4-Jun-18	1	23.26	M20
31	CN2CN3	RUDP-391	Salimar	OPC	Chisang Khola	9-May-18	16-May-18	6-Jun-18		23.71	M20
32	R-122	RUDP-392	Salimar	OPC	Chisang Khola	9-May-18	16-May-18	6-Jun-18	1	21.67	M20
33	CN2CN3	RUDP-393	Salimar	OPC	Chisang Khola	9-May-18	16-May-18	6-Jun-18	-	22.88	_M20 .

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 Submitted By Contract Manager

Verified By Qty Engineer/CSE

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

								Month	Jui	ne
								Year	201	18
							Тур	of Material	Conc.	Cube
S.N.	Location	Lab Ref.no.	Type of Cement	Brand of	Source of Sand+Agg.	Date of Casting	Date of	Testing	Strength, N/mm2	Conc
			Cemen	Cement	Sanu Agg.	Casting	7 Days	28 Days	7 Days 28 Days	Grad
34	Madhumara- Yard	RUDP-394	Salimar	OPC	Chisang Khola	9-May-18	16-May-18	6-Jun-18	31.93	M30
35	DDC-yard	RUDP-395	Salimar	OPC	Chisang Khola	10-May-18	17-May-18	7-Jun-18	22.05	M20
36	DDC-yard	RUDP-396	Salimar	OPC	Chisang Khola	10-May-18	17-May-18	7-Jun-18	21.60	M20
37	T3 L39	RUDP-397	Salimar	OPC	Chisang Khola	10-May-18	17-May-18	7-Jun-18	24.16	M20
38	CN2CN3	RUDP-398	Salimar	OPC	Chisang Khola	11-May-18	18-May-18	8-Jun-18	21.75	M20
39	T3 L21	RUDP-399	Salimar	OPC	Chisang Khola	11-May-18	18-May-18	8-Jun-18	24.08	M20
40	R-33	RUDP-400	Salimar	OPC	Chisang Khola	12-May-18	19-May-18	9-Jun-18	25.14	M20
41	R-21	RUDP-401	Salimar	OPC	Chisang Khola	12-May-18	19-May-18	9-Jun-18	22.35	M20
42	R-111	RUDP-402	Salimar	OPC	Chisang Khola	12-May-18	19-May-18	9-Jun-18	23.18	M20
43	South of Xenial Hotel	RUDP-403	Salimar	OPC	Chisang Khola	12-May-18	19-May-18	9-Jun-18	23.78	M20
44	RR-1	RUDP-404	Salimar	OPC	Chisang Khola	12-May-18	19-May-18	9-Jun-18	24.01	M20
45	B2-2	RUDP-405	Salimar	OPC	Chisang Khola	12-May-18	19-May-18	9-Jun-18	23.33	M20
46	R-5(South of Traffic	RUDP-406	Salimar	OPC	Chisang Khola	12-May-18	19-May-18	9-Jun-18	22.28	M20
47	DSP Road	RUDP-407	Salimar	OPC	Chisang Khola	16-May-18	23-May-18	13-Jun-18	21.00	M20
48	R-33	RUDP-408	Salimar	OPC	Chisang Khola	16-May-18	23-May-18	13-Jun-18	23.26	M20
49	R-21	RUDP-409	Salimar	OPC	Chisang Khola	16-May-18	23-May-18	13-Jun-18	21.83	M20
50	R-2	RUDP-410	Salimar	OPC	Chisang Khola	16-May-18	23-May-18	13-Jun-18	22.50	M20
51	B2-2	RUDP-411	Salimar	OPC	Chisang Khola	16-May-18	23-May-18	13-Jun-18	24.76	M20
52	RR-1	RUDP-412	Salimar	OPC	Chisang Khola	16-May-18	23-May-18	13-Jun-18	23.71	M20
53	DDC-Yard	RUDP-413	Salimar	OPC	Chisang Khola	17-May-18	24-May-18	14-Jun-18	22.35	M20
54	DDC-Yard	RUDP-414	Salimar	OPC	Chisang Khola	17-May-18	24-May-18	14-Jun-18	23.56	M20
55	Madumara- Yard	RUDP-415	Salimar	OPC	Chisang Khola	17-May-18	24-May-18	14-Jun-18	32.23	M30
56	T3 L39	RUDP-416	Salimar	OPC	Chisang Khola	17-May-18	24-May-18	14-Jun-18	23.78	M20
58	CN2CN3-	RUDP-417	Salimar	OPC	Chisang Khola	17-May-18		14-Jun-18	21.67	M20
59	RR-2	RUDP-418	Salimar	OPC	Chisang Khola	17-May-18		14-Jun-18	22.28	M20

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

Submitted By

Verified By Contract Manager Qty Engineer/CSE

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

								Month		Ju	ne
								Year		20	18
							Typ	e of Materia	1	Conc.	Cube
S.N.	Location	Lab Ref.no.	Type of	Brand of	Source of	Date of	Date of	Testing		ngth, nm2	Conci
			Cement	Cement	Sand+Agg.	Casting	7 Days	28 Days	7 Days	28 Days	Grade
60	R-5(South of Traffic Chowk)	RUDP-419	Salimar	OPC	Chisang Khola	17-May-18	24-May-18	14-Jun-18		23.78	M20
61	R-2	RUDP-420	Salimar	OPC	Chisang Khola	17-May-18	24-May-18	14-Jun-18		22.35	M20
62	R-111	RUDP-421	Salimar	OPC	Chisang Khola	18-Apr-18	25-Apr-18	16-May-18		21.00	M20
63	DSP Road	RUDP-422	Salimar	OPC	Chisang Khola	18-Apr-18	25-Apr-18	16-May-18		21.67	M20
64	R-6	RUDP-423	Salimar	OPC	Chisang Khola	18-Apr-18	25-Apr-18	16-May-18		22.13	M20
65	CN2CN3	RUDP-424	Salimar	OPC	Chisang Khola	19-May-18	26-May-18	16-Jun-18		22.05	M20
66	R-2	RUDP-425	Salimar	OPC	Chisang Khola	19-May-18	26-May-18	16-Jun-18		22.43	M20
67	RR-2	RUDP-426	Salimar	OPC	Chisang Khola	19-May-18	26-May-18	16-Jun-18		22.43	M20
68	CN2CN3	RUDP-427	Salimar	OPC	Chisang Khola	19-May-18	26-May-18	16-Jun-18		21.60	M20
69	CN2CN3	RUDP-428	Salimar	OPC	Chisang Khola	19-May-18	26-May-18	16-Jun-18		21.75	M20
70	T3 L39	RUDP-429	Salimar	OPC	Chisang Khola	19-May-18	26-May-18	16-Jun-18		21.30	M20
71	R-6	RUDP-430	Salimar	OPC	Chisang Khola	20-May-18	27-May-18	17-Jun-18		21.83	M20
72	R-2	RUDP-431	Salimar	OPC	Chisang Khola	20-May-18	27-May-18	17-Jun-18		24.01	M20
73	DSP-Road	RUDP-432	Salimar	OPC	Chisang Khola	21-May-18	28-May-18	18-Jun-18		21.98	M20
74	CN2CN3	RUDP-433	Salimar	OPC	Chisang Khola	21-May-18	28-May-18	18-Jun-18		23.33	M20
75	CN2CN3	RUDP-434	Salimar	OPC	Chisang Khola	21-May-18	28-May-18	18-Jun-18		22.20	M20
76	CN2CN3	RUDP-435	Salimar	OPC	Chisang Khola	21-May-18	28-May-18	18-Jun-18		24.84	M20
77	R-6	RUDP-436	Salimar	OPC	Chisang Khola	21-May-18	28-May-18	18-Jun-18		23.71	M20
78	CN2CN3	RUDP-437	Salimar	OPC	Chisang Khola	22-May-18	29-May-18	19-Jun-18		22.43	M20
79	R-2	RUDP-438	Salimar	OPC	Chisang Khola	22-May-18	29-May-18	19-Jun-18		23.63	M20
80	DDC-yard	RUDP-439	Salimar	OPC	Chisang Khola	23-May-18	30-May-18	20-Jun-18		23.03	M20
81	CN2CN3	RUDP-440	Salimar	OPC	Chisang Khola	24-May-18	31-May-18	21-Jun-18		21.83	M20
82	DDC-yard	RUDP-441	Salimar	OPC	Chisang Khola	24-May-18	31-May-18	21-Jun-18		22.43	M20
84	CN2CN3	RUDP-442	Salimar	OPC	Chisang Khola	24-May-18	31-May-18	21-Jun-18		23.48	M20
85	RR-1	RUDP-443	Salimar	OPC	Chisang Khola	25-May-18	1-Jun-18	22-Jun-18	15.44	21.22	M20
86	CN2CN3	RUDP-444	Salimar	OPC	Chisang Khola	25-May-18	1-Jun-18	22-Jun-18	11.11	15.58	M15
87	RR-2	RUDP-445	Salimar	OPC	Chisang Khola	25-May-18	1-Jun-18	22-Jun-18	15.66	21.37	M20
88	R-5 (Traffic Chowk)	RUDP-446	Salimar	OPC	Chisang Khola	25-May-18	1-Jun-18	22-Jun-18	14.84	21.30	M20
89	R3-A	RUDP-447-	Salimar	OPC	Chisang Khola	25-May-18	1-Jun-18	22-Jun-18	14.55	20.62	M20

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Checked By Engineer

Submitted By

Verified By Contract Manager Qty Engineer/CSE

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

								Month		Ju	ne
								Year		20	18
							Тур	e of Materia	_	Conc.	Cube
S.N.	Location	Lab Ref.no.	Type of	Brand of	Source of	Date of	Date o	f Testing		ength, mm2	Concr
		11/11/1	Cement	Cement	Sand+Agg.	Casting	7 Days	28 Days	7 Days	28 Days	
90	B2-1	RUDP-448	Salimar	OPC	Chisang Khola	25-May-18	1-Jun-18	22-Jun-18	15.29	21.67	M20
91	DSP Rod	RUDP-449	Salimar	OPC	Chisang Khola	26-May-18	2-Jun-18	23-Jun-18	15.55	22.13	M20
92	RR-1	RUDP-450	Salimar	OPC	Chisang Khola	26-May-18	2-Jun-18	23-Jun-18	14.55	21.75	M20
93	RR-2	RUDP-451	Salimar	OPC	Chisang Khola	26-May-18	2-Jun-18	23-Jun-18	15.14	21.67	M20
94	R5 (Traffic Chowle	RUDP-452	Salimar	OPC	Chisang Khola	26-May-18	2-Jun-18	23-Jun-18	14.4	21.00	M20
95	N-3	RUDP-453	Salimar	OPC	Chisang Khola	27-May-18	3-Jun-18	24-Jun-18	14.92	21.07	M20
96	RR-1	RUDP-454	Salimar	OPC	Chisang Khola	27-May-18	3-Jun-18	24-Jun-18	14.17	21.37	M20
97	R-21(East of Sombare Hatya)	RUDP-455	Salimar	OPC	Chisang Khola	27-May-18	3-Jun-18	24-Jun-18	15.14	21.83	M20
98	R3-A	RUDP-456	Salimar	OPC	Chisang Khola	27-May-18	3-Jun-18	24-Jun-18	14.17	21.60	M20
99	B2-1	RUDP-457	Salimar	OPC	Chisang Khola	28-May-18	4-Jun-18	25-Jun-18	14.99	21.45	M20
100	CN2CN3	RUDP-458	Salimar	OPC	Chisang Khola	28-May-18	4-Jun-18	25-Jun-18	14.96	21.75	M20
101	DSP Rod	RUDP-459	Salimar	OPC	Chisang Khola	28-May-18	4-Jun-18	25-Jun-18	15.22	22.35	M20
102	RR-1	RUDP-460	Salimar	OPC	Chisang Khola	28-May-18	4-Jun-18	25-Jun-18	14.55	21.67	M20
103	R-2	RUDP-461	Salimar	OPC	Chisang Khola	29-May-18	5-Jun-18	26-Jun-18	15.22	21.83	M20
104	R-12	RUDP-462	Salimar	OPC	Chisang Khola	29-May-18	5-Jun-18	26-Jun-18	13.87	22.35	M20
105	R-6	RUDP-463	Salimar	OPC	Chisang Khola	29-May-18	5-Jun-18	26-Jun-18	15.55	21.45	M20
106	RR-1	RUDP-464	Salimar	OPC	Chisang Khola	29-May-18	5-Jun-18	26-Jun-18	14.99	22.28	M20
107	R3-A	RUDP-465	Salimar	OPC	Chisang Khola	30-May-18	6-Jun-18	27-Jun-18	15.89	21.83	M20
108	Rani Site	RUDP-466	Salimar	OPC	Chisang Khola	30-May-18	6-Jun-18	27-Jun-18	14.10	22.58	M20
109	R-2	RUDP-467	Salimar	OPC	Chisang Khola	30-May-18	6-Jun-18	27-Jun-18	14.69	22.35	M20
110	DDC-yard	RUDP-468	Salimar	OPC	Chisang Khola	30-May-18	6-Jun-18	27-Jun-18	14.32	23.56	M20
Ш	CN2CN3	RUDP-469	Salimar	OPC	Chisang Khola	1-Jun-18	8-Jun-18	29-Jun-18	14.92	23.71	M20
112	DDC-yard	RUDP-470	Salimar	OPC	Chisang Khola	1-Jun-18	8-Jun-18	29-Jun-18	14.69	21.75	M20
113	Madhumara Yard	RUDP-471	Salimar	OPC	Chisang Khola	1-Jun-18	8-Jun-18	29-Jun-18	22.35	32.31	M30
114	R-2	RUDP-472	Salimar	OPC	Chisang Khola	1-Jun-18	8-Jun-18	29-Jun-18	14.99	21.07	M20
115	R-6	RUDP-473	Salimar	OPC	Chisang Khola	1-Jun-18	8-Jun-18	29-Jun-18	14.84	21.00	M20
117	RR-2	RUDP-474	Salimar	OPC	Chisang Khola	2-Jun-18	9-Jun-18	30-Jun-18	15.81	21.15	M20
118	S13-B	RUDP-475	Salimar	OPC	Chisang Khola	2-Jun-18	9-Jun-18	30-Jun-18	15.14	22.58	M20

ZHONGHENG CONSTRUCTION GROUP INTERNATIONAL ENGINEERING CO. LTD

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Checked By Engineer

Submitted By Verified By

Contract Manage Qty Engineer/CSE

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

							Month			Ju	ne
								Year		20	18
_							Тур	e of Material		Conc.	Cube
S.N.	Location	Lab Ref.no.	Type of	Brand of	Source of	Date of	Date of	Strength, N/mm2		Conc	
			Cement	Cement	Sand+Agg.	Casting	7 Days	28 Days	7 Days	28 Day	1
119	R-113	RUDP-476	Salimar	OPC	Chisang Khola	2-Jun-18	9-Jun-18	30-Jun-18	15.1	21.22	M20
120	R-12	RUDP-477	Salimar	OPC	Chisang Khola	2-Jun-18	9-Jun-18	30-Jun-18	15.1	22.8	M20
121	R-111	RUDP-478	Salimar	OPC	Chisang Khola	3-Jun-18	10-Jun-18	1-Jul-18	15.5		M20
122	South of Xenial hotel	RUDP-479	Salimar	OPC	Chisang Khola	3-Jun-18	10-Jun-18	1-Jul-18	15.1		M20
123	N-3	RUDP-480	Salimar	OPC	Chisang Khola	3-Jun-18	10-Jun-18	1-Jul-18	15.9		M20
124	B2-1	RUDP-481	Salimar	OPC	Chisang Khola	3-Jun-18	10-Jun-18	1-Jul-18	15.1		M20
125	CN2CN3	RUDP-482	Salimar	OPC	Chisang Khola	4-Jun-18	11-Jun-18	2-Jul-18	14.6		M20
126	Madhumara	RUDP-483	Salimar	OPC	Chisang Khola	4-Jun-18	11-Jun-18	2-Jul-18	23.3		M30
127	DDC-yard	RUDP-484	Salimar	OPC	Chisang Khola	4-Jun-18	11-Jun-18	2-Jul-18	15.9		M20
128	CN2CN3	RUDP-485	Salimar	OPC	Chisang Khola	5-Jun-18	12-Jun-18	3-Jul-18	14.1		M20
129	R-6	RUDP-486	Salimar	OPC	Chisang Khola	5-Jun-18	12-Jun-18	3-Jul-18	15		M20
130	R-2	RUDP-487	Salimar	OPC	Chisang Khola	5-Jun-18	12-Jun-18	3-Jul-18	15.2		M20
131	Rani Site	RUDP-488	Salimar	OPC	Chisang Khola	6-Jun-18	13-Jun-18	4-Jul-18	14.6		M20
132	Madhumara	RUDP-489	Salimar	OPC	Chisang Khola	6-Jun-18	13-Jun-18	4-Jul-18	21.9	-	M30
133	S13-B	RUDP-490	Salimar	OPC	Chisang Khola	6-Jun-18	13-Jun-18	4-Jul-18	15.1		M20
134	S11-A	RUDP-491	Salimar	OPC	Chisang Khola	6-Jun-18	13-Jun-18	4-Jul-18	15.4		M20
135	R3-A	RUDP-492	Salimar	OPC	Chisang Khola	6-Jun-18	13-Jun-18	4-Jul-18	15.6		M20
136	Rani Site	RUDP-493	Salimar	OPC	Chisang Khola	7-Jun-18	14-Jun-18	5-Jul-18	14.6		M20
137	R-113	RUDP-494	Salimar	OPC	Chisang Khola	7-Jun-18	14-Jun-18	5-Jul-18	15.14		M20
138	R-6	RUDP-495	Salimar	OPC	Chisang Khola	7-Jun-18	14-Jun-18	5-Jul-18	15.1		M20
139	SII-A	RUDP-496	Salimar	OPC.	Chisang Khola	8-Jun-18	15-Jun-18	6-Jul-18	14.3		M20
140	S13-B	RUDP-497	Salimar	OPC	Chisang Khola	8-Jun-18	15-Jun-18	6-Jul-18	14.8		M20
141	R-114	RUDP-498	Salimar	OPC	Chisang Khola	9-Jun-18	16-Jun-18	7-Jul-18	15.3		M20
142	R-111	RUDP-499	Salimar	OPC	Chisang Khola	9-Jun-18	16-Jun-18	7-Jul-18	14.8		M20
143	R-6	RUDP-500	Salimar	OPC	Chisang Khola	9-Jun-18	16-Jun-18	7-Jul-18	15.3		M20
144	R-2	RUDP-501	Salimar	OPC	Chisang Khola	9-Jun-18	16-Jun-18	7-Jul-18	15.7		M20
146	R-12	RUDP-502	Salimar	OPC	Chisang Khola	11-Jun-18	18-Jun-18	9-Jul-18	14.7		M20
147	R-2	RUDP-503	Salimar	OPC	Chisang Khola	11-Jun-18	18-Jun-18	9-Jul-18	14.6		M20

ZHONGHENG CONSTRUCTION GROUP

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

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Checked By Engineer

Submitted By Contract Manager Qty Engineer/CSE

Verified By



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

								Month		Ju	ne
								Year		20	18
							Туре	of Material		Conc.	Cube
S.N.	Location	Lab Ref.no.	Type of	Brand of	Source of	Date of	Date of	Testing	Strer N/m	-	Concr
S.IN.	Location	Lao Rei.iio.	Cement	Cement	Sand+Agg.	Casting	7 Days	28 Days	7 Days	28 Days	
148	R-111	RUDP-504	Salimar	OPC	Chisang Khola	11-Jun-18	18-Jun-18	9-Jul-18	15.52		M20
149	R-12	RUDP-505	Salimar	OPC	Chisang Khola	11-Jun-18	18-Jun-18	9-Jul-18	17.73		M20
150	Rani site	RUDP-506	Salimar	OPC	Chisang Khola	12-Jun-18	19-Jun-18	10-Jul-18	14.99		M20
151	R-114	RUDP-507	Salimar	OPC	Chisang Khola	12-Jun-18	19-Jun-18	10-Jul-18	15.14		M20
152	CN2CN3	RUDP-508	Salimar	OPC	Chisang Khola	13-Jun-18	20-Jun-18	11-Jul-18	14.92		M20
153	Madhumara	RUDP-509	Salimar	OPC	Chisang Khola	13-Jun-18	20-Jun-18	11-Jul-18	23.41		M30
154	R-6	RUDP-510	Salimar	OPC	Chisang Khola	13-Jun-18	20-Jun-18	11-Jul-18	15.37		M20
155	R-2	RUDP-511	Salimar	OPC	Chisang Khola	14-Jun-18	21-Jun-18	12-Jul-18	14.55		M20
156	Rani site	RUDP-512	Salimar	OPC	Chisang Khola	14-Jun-18	21-Jun-18	12-Jul-18	14.99	0.2	M20
157	CN2CN3	RUDP-513	Salimar	OPC	Chisang Khola	14-Jun-18	21-Jun-18	12-Jul-18	11.3	/	M15
158	R-6	RUDP-514	Salimar	OPC	Chisang Khola	15-Jun-18	22-Jun-18	13-Jul-18	11.23	1	M15
159	R-2	RUDP-515	Salimar	OPC	Chisang Khola	15-Jun-18	22-Jun-18	13-Jul-18	15.44		M20
160	Rani site	RUDP-516	Salimar	OPC	Chisang Khola	15-Jun-18	22-Jun-18	13-Jul-18	14.77		M20
161	DDC-yard	RUDP-517	Salimar	OPC	Chisang Khola	16-Jun-18	23-Jun-18	14-Jul-18	15.52		M20
162	T3L39	RUDP-518	Salimar	OPC	Chisang Khola	16-Jun-18	23-Jun-18	14-Jul-18	15.92		M20
163	CN2CN3	RUDP-519	Salimar	OPC	Chisang Khola	16-Jun-18	23-Jun-18	14-Jul-18	14.77		M20
164	R-114	RUDP-520	Salimar	OPC	Chisang Khola	16-Jun-18	23-Jun-18	14-Jul-18	14.92		M20
165	R-104	RUDP-521	Salimar	OPC	Chisang Khola	17-Jun-18	24-Jun-18	15-Jul-18	14.77		M20
166	Madhumara	RUDP-522	Salimar	OPC	Chisang Khola	17-Jun-18	24-Jun-18	15-Jul-18	22.28		M30
167	R-104	RUDP-523	Salimar	OPC	Chisang Khola	18-Jun-18	25-Jun-18	16-Jul-18	15.07		M20
168	R-42	RUDP-524	Salimar	OPC	Chisang Khola	18-Jun-18	25-Jun-18	16-Jul-18	14.69		M20
169	R-111	RUDP-525	Salimar	OPC*	Chisang Khola	19-Jun-18	26-Jun-18	17-Jul-18	15.22		M20
170	DDC-yard	RUDP-526	Salimar	OPC	Chisang Khola	19-Jun-18	26-Jun-18	17-Jul-18	15.07		M20
171	CN2CN3	RUDP-527	Salimar	OPC	Chisang Khola	19-Jun-18	26-Jun-18	17-Jul-18	15.81		M20
172	CN2CN3	RUDP-528	Salimar	OPC	Chisang Khola	19-Jun-18	26-Jun-18	17-Jul-18	15.74		M20
173	T3L39	RUDP-529	Salimar	OPC	Chisang Khola	19-Jun-18	26-Jun-18	17-Jul-18	15.71	1	M20
175	T3L21	RUDP-530	Salimar	OPC	Chisang Khola	19-Jun-18	26-Jun-18	17-Jul-18	16.26		M20
176	Rani site	RUDP-531	Salimar	OPC	Chisang Khola	19-Jun-18	26-Jun-18	17-Jul-18	15.22	1	M20

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Checked By Engineer

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

										ne	
							Type	Year of Material			18
T							Туре	oi Materiai	I Com		Cube
S.N.	Location	Lab Ref.no.	Type of Cement	Brand of	Source of Sand+Agg.	Date of Casting	1111111111	Testing	N/s	ength, mm2	Conc ete
	14.16		9.310/5110	Cement	, , , , , , , , , , , , , , , , , , ,	Cubing	7 Days	28 Days	7 Days	28 Day	Grade
177	Madhumara Yard	RUDP-532	Salimar	OPC	Chisang Khola	19-Jun-18	26-Jun-18	17-Jul-18	24.1		M30
178	R-111	RUDP-533	Salimar	OPC	Chisang Khola	20-Jun-18	27-Jun-18	18-Jul-18	15.1		M20
179	Cn2Cn3	RUDP-534	Salimar	OPC	Chisang Khola	20-Jun-18	27-Jun-18	18-Jul-18	15.4		M20
180	DDC Yard	RUDP-535	Salimar	OPC	Chisang Khola	20-Jun-18	27-Jun-18	18-Jul-18	16.3		M20
181	T3L39	RUDP-536	Salimar	OPC	Chisang Khola	20-Jun-18	27-Jun-18	18-Jul-18	14.4		M20
182	Cn2Cn3	RUDP-537	Salimar	OPC	Chisang Khola	21-Jun-18	28-Jun-18	19-Jul-18	14.6		M20
183	T3L21	RUDP-538	Salimar	OPC	Chisang Khola	21-Jun-18	28-Jun-18	19-Jul-18	15.3		M20
184	DDC Yard	RUDP-539	Salimar	OPC	Chisang Khola	21-Jun-18	28-Jun-18	19-Jul-18	15.1	/	M20
185	DDC Yard	RUDP-540	Salimar	OPC	Chisang Khola	22-Jun-18	29-Jun-18	20-Jul-18	21.2	X	M30
186	Cn2Cn3	RUDP-541	Salimar	OPC	Chisang Khola	22-Jun-18	29-Jun-18	20-Jul-18	15.1		M20
187	T3L39	RUDP-542	Salimar	OPC	Chisang Khola	22-Jun-18	29-Jun-18	20-Jul-18	15.1		M20
188	Cn2Cn3	RUDP-543	Salimar	OPC	Chisang Khola	23-Jun-18	30-Jun-18	21-Jul-18	15.3		M20
189	DDC Yard	RUDP-544	Salimar	OPC	Chisang Khola	23-Jun-18	30-Jun-18	21-Jul-18	15.2		M20
190	R-111	RUDP-545	Salimar	OPC	Chisang Khola	23-Jun-18	30-Jun-18	21-Jul-18	15.7		M20
											1.150
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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,

Wadhar Checked By Engineer

Submitted By

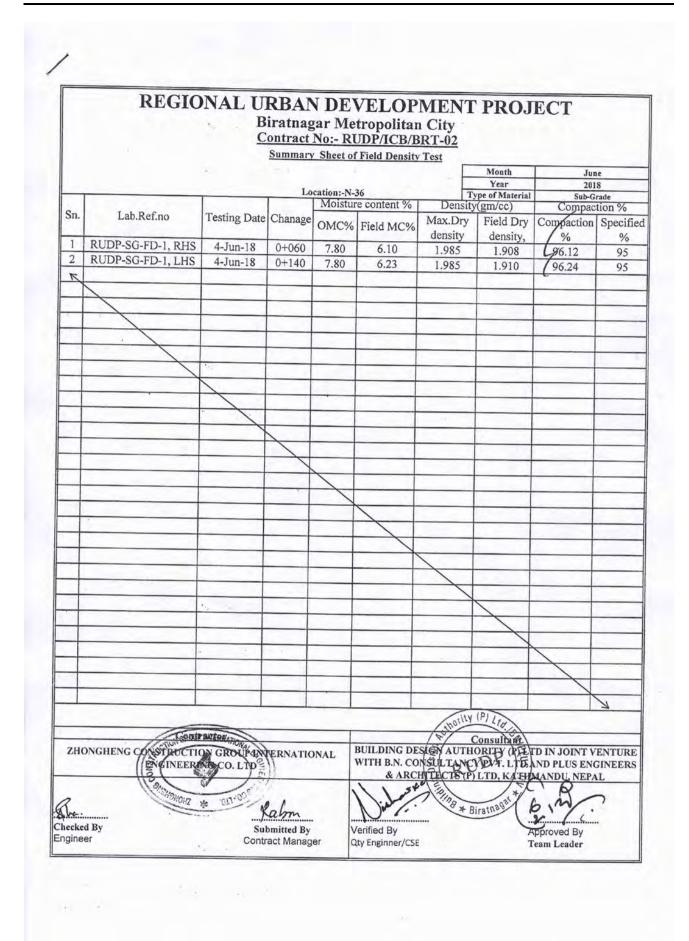
Verified By Contract Manager Qty Engineer/CSE

				Contract No:-	Metropolitan (RUDP/ICB/BR Of Monthly Test Re	Γ-02		
							Month	June
							Year	2018
				YSHE CS A		(4.)	Type of Material	Brick
		Testing Date	Location of Sample	Source of Sample	Name Of Sample	Water Absorption of Brick	Strength of Brick	Remark
1	1	3-Jun-18	B2-1	Dadarbairya	ACC	12.65	12.17	-
2	2	8-Jun-18	N-3	Kathari	Aakash	/ 13.2	12.98	
3	3	10-Jun-18	R-2	Dadarbairya	ACC	/ 14.32	/ 13.89 /	
4	4	10-Jun-18	rani Site	Kathari	Aakash	Z 14.08	/ 14.22 /	
5	5	14-Jun-18	R-12	Kathari	Aakash	/ 13.62	14.9	
6	6	17-Jun-18	T3L39	Kathari	Aakash	/ 14.18	/ 14.9	
7	7	17-Jun-18	T3L21	Dadarbairya	ACC	/ 14.77	15.01	
8	8	17-Jun-18	South of Xenial Hote	Kathari	Aakash	/ 11.38	/14.83	
9	9	22-Jun-18	R-111	Kathari	Aakash	- 12.46	17.34	
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	6.00							
.011111	ents:-							
		(Contractor			Consultant		
HON	GHENG COM	NSTRUCTION	GROUP INTERNATION	AL ENGINEERING	BUILDING DES CONSULTANCY	IGN AUTHORITY (P) LTD IN J PVT. LTD AND PLUS ENGINE KATHMANDU, NEP	ERS & ARCHITECTS	H B.N. (P) LTD,
hecke			Lal	9 <i>0</i>)	Verified By	**	Approved I	 By

	REGIONAL URBAN DEVELOPMENT PROJECT Biratnagar Metropolitan City Contract No:- RUDP/ICB/BRT-02 Summary Sheet of Field Density Test													
							Month Year		ine 18					
-				Location	n:-R-29 re content %		Type of Material	7-5 51846						
Sn.	Lab.Ref.no	Testing Date	Chanage		Field MC%	Max.Dry density		Compaction	Specif					
1	RUDP-SG-FD-1, L/S	4-Jun-18	0.050	0.10	T (0	gm/cc	gm/cc	%	/					
2	RUDP-SG-FD-1, R/S	4-Jun-18	0+050	8.10	7.69	1.960	1.908	97.33	95					
3	RUDP-SG-FD-1, L/S	4-Jun-18	0+100 0+150	8.10	7.80	1.960	1.870	95.39 🗸	95					
.4	RUDP-SG-FD-1, L/S	4-Jun-18	0+180	8.10 8.10	6.99	1.960	1.870	96.27	95					
5	RUDP-SG-FD-1, R/S	4-Jun-18	0+250	8.10	6.29	1.960	1.913	97.61	95					
			0.250	0.10	0.29	1.960	1.870	95.40	95					
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	Tion	WA MITTER		-		RULL	rity (P) Lia							
ZHC	ONGHENG CONSTRUCTI	ON GROUP IN	PERNATI	ONAL	BUILDING DESIGN AUTHORITY (P) EAD IN JOINT VENTU WITH B.N. CONSTITANCY EVIL LIDEAND PLUS ENGINEE & ARCHITECTS P) LTD, KATHMANDU, NEPAL									
Ala	an and a second		abin		Note:	* Taling	* Biratnage	2,4	7					
Checke	ed By	Sul	omitted By	1	erified By		A	pproved By						

		REGIO	NAL	Biratn	AN DI	Ietropo	litan C	ity	ROJE	CT	
					d density						
					(Sand Repla						
Testi	Ref. No. :- I ng date :- 4 der no. :- 1				Congr. St. P.			Location :- Chanage	0+000 to 0+		
Side:	der nort-			LHS	RHS	LHS	LHS	RHS	r :- Sub Grad	le Final Layer	/
S.No	Test Stations			0+050	0+100	0+150	0+180	0+250			
1	Wt. of Sand be	fore pouring (gm)		25000.00	25000.00	25000.00	25000.00	25000.00			
2		ter pouring (gm)		17170.00	1007 (1111)	1782					
3	Wt. of Sand in Cone (gm)				17280.00	17360.00	18422.00	18192.00			
	Wt. of Sand in Cone (gm) Wt. of Sand in Hole (gm)			2858.00	2858.00	2858.00	2858.00	2858.00			
4	And the second second		4972.00	4862.00	4782.00	3720.00	3950.00				
5	Bulk density of	1.450	1.450	1.450	1.450	1,450					
6	Volume of Hol		3428.97	3353.10	3297.93	2565.52	2724.14				
7	Depth of Hole		13.00	14.00	12.00	12.00	12.00		,		
8	Wt. of Wet Soi	l (gm)		7044	6758	6658	5210	5414			
9	Bulk density (g	m/cc)		2.054	2.015	2.019	2,031	1.987			
10	Dry Density (g	m/cc)		1.908	1.870	1.887	1.913	1.870			
Moist	ire Content								1		
11	Wt. of wet Soil	(gm)		140.21	153.40	150.00	133.00	126.80			
12	Wt.of Dry Soil	(gm)		130.20	142.30	140.20	125.30	119.30			
13	Wt. of Water (g	gm)		10.01	11.10	9.80	7.70	7.50			
	Moisture conte	nt (%)		7.69	7.80	6.99	6.15	6.29			
Court	Summary.	Moisture Content:(%)			Dennis	ne (m/m)				
Tests	Stations	OMC (%)	Field N	1C (%)	Density (g/cc) Max. Dry density (gm/cc) Field Dry de			ensity (gm/cc) Compaction		Spec.Limits %	Remark
1	0+050	8.10	7.	69	1.9	Water District		908	97.33	95.0%	
2	0+100	8.10	. 7.	80	1.9	1.960		1.870		95.0%	-
3	0+150	8.10	6.5	99	1.9			887	95.39 96.27	95.0%	
4	0+180	8.10	6.	15	1.9	60	100	913	97.61	95.0%	
5	0+250	8.10	6.:	29	1.9	60		870	95.40	95.0%	
	-										
		Approved	for	gurhe	t wo	EX D	ci				
		Contra	retor					Con	sultant		
	ZHONG	HENG COM	RUCTIE	GROL	J P					(P) LTD IN	
	INTERNA	FIONAL	1	G CO. 1	TD	PL		INEERS & KATHMA		ECTS (P) L PAL	TD,
ДCC	lluf	***************************************	-UN-OB	J.		San fin	K		1	بسلمنا	1
ab'	Technician			Submitted Engineer	47	Checked	Ву			Verifled By	

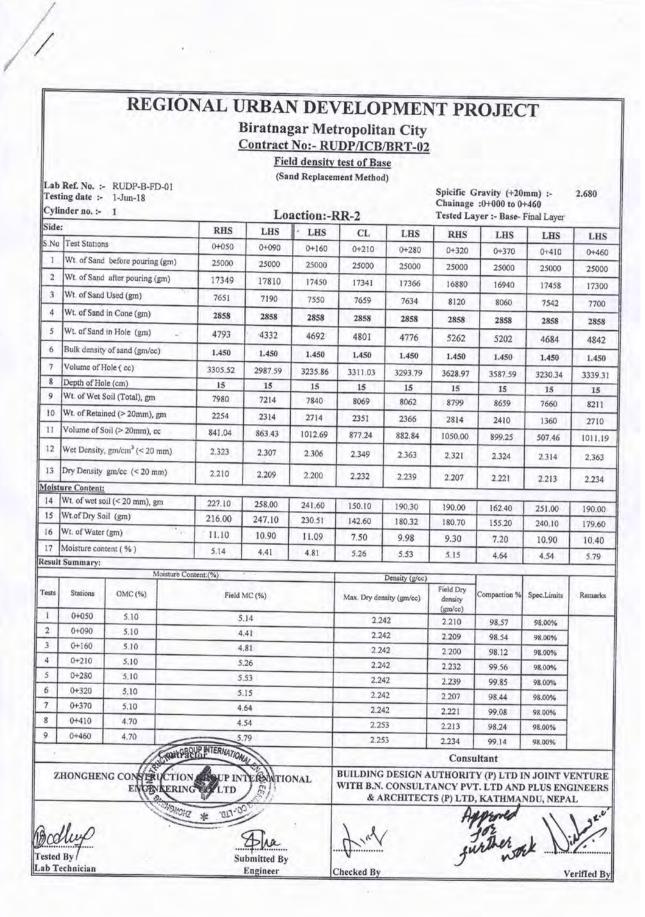




		REGIO	NAL URB	AN D	EVEL	OPN	MENT I	PROJE	ECT	
			Biratr	agar N	Ietropo	litan	City			
					RUDP/I					
					test of Su					
Lab	Def No .	RUDP-SG-FD-1		(Sand Rep	lacement Me	ethod)	The second second			
	ing date :-						Location : Chanage	20.70	100	
	nder no. :-	1							de Final Layer	
Side			RHS	LHS						
S.No	207 5 1010 200		0+060	0+140						
1	Wt. of Sand b	perfore pouring (gm)	25000.00	25000.00						
2	Wt. of Sand a	after pouring (gm)	17522.00	17623.00						
3	Wt. of Sand i	n Cone (gm)	2858.00	2858.00			-			
4	Wt. of Sand i	n Hole (gm)	4620.00	4519.00						
5	Bulk density	of sand (gm/cc)	1.450	1.450						
6	Volume of Ho	ole (cc)	3186.21	3116.55						
7	Depth of Hole	(cm)	13.00	12.00						-
8	Wt. of Wet So	pil (gm)	6450.00	6325.00						
9	Bulk density (-	2.024							
-				2.029						
10	Dry Density	gm/cc)	1.908	1.910					14-	
	ture Content									
11	Wt. of wet So		134.00	167.10						
_	Wt.of Dry Soi		126.30	157.30						
13	Wt. of Water		7.70	9.80						
14 Tesul	Moisture cont	ent (%)	6.10	6.23						
		Moisture Content:(%	S)		Donate	Section				
Tests	Stations	OMC (%)	Field MC (%)	Max. Dry de	Density (g/cc) ax. Dry density (gm/cc) Field Dry d		y density (gm/cc)	Compaction %	Spec.Limits %	Remark
1	0+060	7,80	6.10		985		1.908	96.12	95.0%	
2	0+140	7.80	6.23	-	985		200	96.12	95.0%	
						_	1.910	90.24	93,0%	
										-
		Dune med	for furthe	, ,	1.		-			-
		Mande	goe zwimi	s mo	W. 11		7			
×		Jac venil	PANTED		17	7	VIII	(P)		
_		Ontra	ENTERNATION		La constant			Lientraci		
	ZHONO	1126	CTION GROU		BUILD	ING D	ESION AUT	THORNE	(P) LTD IN	JOINT
	INTERNA	TION	MEEDING GROU	P	VENTU	RE WI	THE B.N. CO	HS PLTYE	CY PVT, L	TD AN
	ANT EMINA	THOUSE NO.	WEERING CO. L	ID	PL	US EN	GENEERS	ARCHIT	ECTS (P) L	TD,
		- Int	(11)			-	WEST HMA	NDU. NE	AL	
						1 15	THMA * Bi	atnagal,	1.	2.0'
0	. 11 .				1.0	XI	311		11.1	1
10)	cony		She		di.	X			10%	
est	ed By/ Technician		Submitted Engineer	By					Park and war	



	REG	IONAL	Contra	nagar I act No:-	Metropoli RUDP/IC	itan Cit B/BRT-(V	OJECT	
			Sumn	nary Shee	et of Field De	nsity Test			
						-	Month Year	Jun	
			Lo	cation:	-RR-2		Type of Materia	2018 Base	
S.N.	I I D C			Moistur	e content %		ty(gm/cc)	Compact	
	Lab.Ref.no	Testing Date	Chainage	OMC%	Field MC%	Max.Dry density	Field Dry density,	Compaction %	Specifie
1	RUDP-B-FD-1, R/S	1-Jun-18	0+050	5.10	5.14	2.242	2.210	98.57	98
2	RUDP-B-FD-1, L/S	1-Jun-18	0+090	5.10	4.41	2.242	2.209	98.54	98
3	RUDP-B-FD-1, L/S	1-Jun-18	0+160	5.10	4.81	2.242	2.200	(98.12	-
4	RUDP-B-FD-1, C/L	1-Jun-18	0+210	5.10	5.26	2.242	2.232	99.56	98
5	RUDP-B-FD-1, L/S	1-Jun-18	0+280	5.10	5.53	2.242	2.239	1	98
6	RUDP-B-FD-1, R/S	1-Jun-18	0+320	5.10	5.15	2.242	1 11111	(99.85	98
7	RUDP-B-FD-1, L/S	1-Jun-18	0+370	5.10	4.64	2.242	2.207	(98.44	98
8	RUDP-B-FD-1, L/S	1-Jun-18	0+410	4.70	4.54		2.221	99.08	98
9	RUDP-B-FD-1, L/S	1-Jun-18	0+460	4.70	5.79	2.253	2.213	y 98.24	98
10	RUDP-SB-FD-1, R/S	1-Jun-18	0+500	4.70	5.42	2.253	2.234	99.14	98
11.	RUDP-B-FD-1, L/S	1-Jun-18	0+530	4.70	5.71	2.253	2.211	(, 98.11	98
-	,	T Dull 10	0.550	4.70	3./1	2.253	2.247	/ 99.74	98
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	CON	CROUP INTERNATION	May			/,hi	Consultar		
ZHO	NCHENG CONSTRUCTO	ON COOP IN	TERVALLI	ONAL	BUILDING WITH B.N. C AR	DESIGNA CONSTITA CHIECTS	UTHODITY	ATD IN JOINT VI DAND PLUS ENGI	ENTURE NEERS &
be- ecker gines	 i By	Sub	alm omitted By act Manage		erified By	25 200	* Biratnagat	pproved By	



		REG	IONAL U	Biratnag	gar M	etropoli	OPMEN itan City B/BRT-02		OJEC	СТ	
						ty test of E					
						ement Meth	_				
Lab	Ref. No. :-	RUDP-B-FD-0	1	18. 4		- meat mett	.04)	Spicific (Gravity (+20	mm)	2.680
	ting date :- inder no. :-				CVA IN			Chainage	:0+500 to 0	+540	2.000
Side		1	DWG		action:	-RR-2		Tested La	yer :- Base I	inal Layer	
S.No		s	RHS	LHS							
1		before pouring (gr	0+500	0+530							
2		after pouring (gm)		25000							
3	757 757 7		1000	17350							
_	Wt. of Sand		7490	7650							
4		in Cone (gm)	2858	2858		0					
5	-	in Hole (gm)	4632	4792							
6	Bulk density	of sand (gm/cc)	1.450	1.450						-	
7	Volume of H	lole (cc)	3194.48	3304.83					1		-
8	Depth of Ho		15	15							
9	Wt. of Wet S	Soil (Total), gm	7790	8125							
10	Wt. of Retain	ned (> 20mm), gm	2651	2415							
11	Volume of S	oil (> 20mm), cc	989.18.	901.12							
12	Wet Density,	gm/cm3 (< 20 mm) 2.330	2.375							
13	Dry Density	gm/cc (< 20 mm)	2,211	2047							
_	ture Content:		2.211	2.247							
		il (< 20 mm), gm	110.90	138.00							
15	Wt.of Dry So	il (gm)	105.20	130.54							
16	Wt. of Water	(gm)	5.70	7.46							
17	Moisture con	tent (%)	5.42	5.71							
esul	t Summary:	W									
	F	Moisi	ture Content:(%)				Density (g/cc)	ELIAD.			
ests 0	Stations 0+500	OMC (%)		42 (%)	*		density (gm/cc)	Field Dry density (gm/cc)	Compaction %		Remark
1	0+530	4.70		71			2.253	2.211	98.11	98.00%	
	0		-		_	-	253	2.247	99.74	98.00%	
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		ON CHICH GROW	A CHARACTER OF THE PARTY OF THE					Consu			
Z	HONGHEN	GENSTRUC SENGINE	TON GROUP IN	ERNATIO	NAL	WITH B.	G DESIGN A	ANCY PV	C. LTD AND	PLUS ENG	GINEER
	,		E			80	ARCHITEC	IS (P) LTD	KATHMA	DU, NEPA	L
_	11	ZHONORZ	# 011.00°			18 1		1	prove	11	1 2×
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ted	By		A	mitted By			•••		jurine	10	1.
ed	By / echnician		Sui	omitted By		Carlotte .			1 ml	1	

	REGIO	ONAL U	Biratna Contrac	agar M t No:- F	etropolit RUDP/ICB	an Cit	y	T PRO	JECT	
			Summa	ry Sheet	of Field Dens	ity Test				
								Month	June	
			T	cation:	D-24		Twee	Year pe of Material	2018 Base	
					e content %	Dens		gm/cc)	Compact	
Sn.	Lab.Ref.no	Testing Date	Chainage		Field MC%	Max.Dr density	ту	Field Dry density,	Compaction %	Specifie
1	RUDP-B-FD-1, R/S	3-Jun-18	0+050	4.75	4.79	2.254	$\overline{}$	2.227	(98.79	98
2	RUDP-B-FD-1, L/S	3-Jun-18	0+125	4.75	4.50	2.254		2.242	699.49	98
3	RUDP-B-FD-1, R/S	3-Jun-18	0+200	4.75	4.94	2.254		2.212	(98.13	98
4	RUDP-B-FD-1, R/S	3-Jun-18	0+275	4.75	5.09	2.254		2.251	99.88	98
5	RUDP-B-FD-1, L/S	3-Jun-18	0+350	4.75	5.24	2.254		2.253	99.94	98
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	////	GROUP INTERNATION			1	1:	-/	0 11	(0)	
	ZHONGHEND BOST	TRUCTION GREINEERING CO	OUP D. LTD		BUILDING WITH B.N.	G DESIGN	TAN	Consulta JTHORITY (I NCXPVT. LT (R) LTD, KA	DAND PLUS EI	r ventui ngineer pal
4	ked By		Ralam Submitted		Verified By Qty Enginner	2	500 60	wipling * Bil	Approved By Team Leader	<u> </u>



	REGIO	C	RBAN DEN iratnagar Met ontract No:- RU summary Sheet of M	tropolitan C JDP/ICB/BRT	ity -02	PRO	OJE	CT	
			-1	тин, тем жеро		Mon			lune
		4.5				Typ Mate	e of	_	grade
Sn.	Lab.Ref no.	Location of Sample	Source of Sample	Date of Testing	MDD	ОМС	PI%	CBR%	Remark
1	RUDP-S-01	R-8,(0+090)	R-8	3-Jun-18	1.930	7.50	9.56	5.60	-
K				_	-				
-									
-		2.							
				4					
		-							7
_		Contractor				nsultant			
ZHONG	HENG CONSTR	EER COLE	VNTERNATIONAL P	BUILDING DES VENTURE WITH PLUS ENGL	B.N. CO	INSULT.	ANCY ITECT:	PVT. LT	DAND
(Va.	dhar		Submitted By	Verified By	,		4		
ngineer			the state of the s	Verified By Qty Enginner/CSE			Approve Ceam L		

					etropolita UDP/ICB/				
		7			f Field Densit				
							Month	Jui	
				Locatio	D 0	1	Year	201	
					e content %	Dens	Type of Material ity(gm/cc)	Sub-G Compac	rade tion 0/
				1110101411	C content /0	Max.Dr		Compac	lion /
Sn.	Lab.Ref.no	Testing Date	Chanage	OMC%	Field MC%	density	density,	Compaction	Spec
						gm/cc	gm/cc	%	
1	RUDP-SG-FD-1, L/S	4-Jun-18	0+100	7.50	7.16	1.930	1.852	195.97	9.
2	RUDP-SG-FD-1, R/S	4-Jun-18	0+125	7.50	6.96	1.930	1.875	≥ 97.17	9:
3	RUDP-SG-FD-1, L/S	4-Jun-18	0+200	7.50	7.06	1.930	1.870	/96.90	9
Z									
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		ntractor			DITT DING I	PECICAL A	Consultant UTHORITY (P)	I TO IN IOIN	
ZH	ONGHENG CONSTRUCT			TIONAL			ANCY PVT. LT		
		RING CO. LTD					S (P) LTD, KAT		
	adher wounter		Λ		11,	94.6		/	
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V	***********		000	-		0			
	ked By		ubmitted B		Verified By			Approved By	
engin	eer	Cor	ntract Mana	ger	Qty Enginner/	CSE		Team Leader	

REGIONAL URBAN DEVELOPMENT PROJECT

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

Summary Sheet of Field Density Test

		1, 2					Month	Jun	
			-		D 00		Year	201	
			L	cation:			Type of Material	Bas	
			10.5 8		e content %		ity(gm/cc)	Compac	
Sn.	Lab.Ref.no	Testing Date	Chainage	OMC%	Field MC%	Max.Dr density		Compaction %	Specifie %
1	RUDP-B-FD-1, L/S	4-Jun-18	0+090	5.00	4.93	2.250	2.220	98.65	98
2	RUDP-B-FD-1, R/S	4-Jun-18	0+180	5.00	5.60	2.250	2.207	98.08	98
3	RUDP-B-FD-1, R/S	4-Jun-18	0+280	5.00	5.87	2.250	2.239	99.51	98
4	RUDP-B-FD-1, R/S	4-Jun-18	0+365	4.60	5.75	2.253	2.222	98.62	98
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Contractor ZHONGHENG CONSTRUCTION GROUP

INTERNATIONAL ENGINEERING CO. LTD

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

Verified By Qty Enginner/CSE Approved By Team Leader

Checked By

Engineer

6 Vadhar

Submitted By Contract Manager

REGIONAL URBAN DEVELOPMENT PROJECT

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

			Summat	, Sheet 0	f Field Densi	1 1031	Month	Jui	10
			-				Year	201	
			Lo	cation:	R-3A		Type of Material	Ba	
				Moistur	e content %	Dens	sity(gm/cc)	Compac	tion %
Sn.	Lab.Ref.no	Testing Date	Chainage	ОМС%	Field MC%	Max.Dr density		Compaction %	Specified %
1	RUDP-B-FD-1, L/S	5-Jun-18	0+080	4.90	5.12	2.252	2.240	99.46 /	98
2	RUDP-B-FD-1, C/L	5-Jun-18	0+160	4.90	5.30	2.252	2.212	98.23	98
3	RUDP-B-FD-1, R/S	5-Jun-18	0+220	4.90	4.86	2.252	2.246	99.74	98
4	RUDP-B-FD-1, L/S	5-Jun-18	0+280	4.90	5.60	2.252	2.210	98.14	98
5	RUDP-B-FD-1, C/L	5-Jun-18	0+320	4.90	5.28	2.252	2.224	98.74	98
6	RUDP-B-FD-1, R/S	5-Jun-18	0+390	5.00	4.34	2.250	2.212	98.33	98
7	RUDP-B-FD-1, L/S	5-Jun-18	0+450	5.00	6.83	2.250	2.238	99.47	98
8	RUDP-B-FD-1, C/L	5-Jun-18	0+550	5.40	5.95	2.247	2.207	98.22	98
9	RUDP-B-FD-1, R/S	`5-Jun-18	0+575	5.40	5.73	2.247	2.247	98.66	98
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	G-AMP III								
	ZHONONENG CONST	TIONS		BUILDI	NG DESIGN	AUTHORI	Consultant TY (P) LTD IN J	OINT VENTU	RE WITH
1	INTERNATIONAL EAG	NEERING CO.	LTD		N. CONSULT	ANCY PV	T. LTD AND PLUTD, KATHMAN	US ENGINEER	
	The state of the s	00001		11	124.00	1-7-		2/	
		Kali		1/	10			0	
Check Engin	ted By neer C	Submitted By ontract Manag	er	Verified E Qty Enginn				Approved By Team Leader	



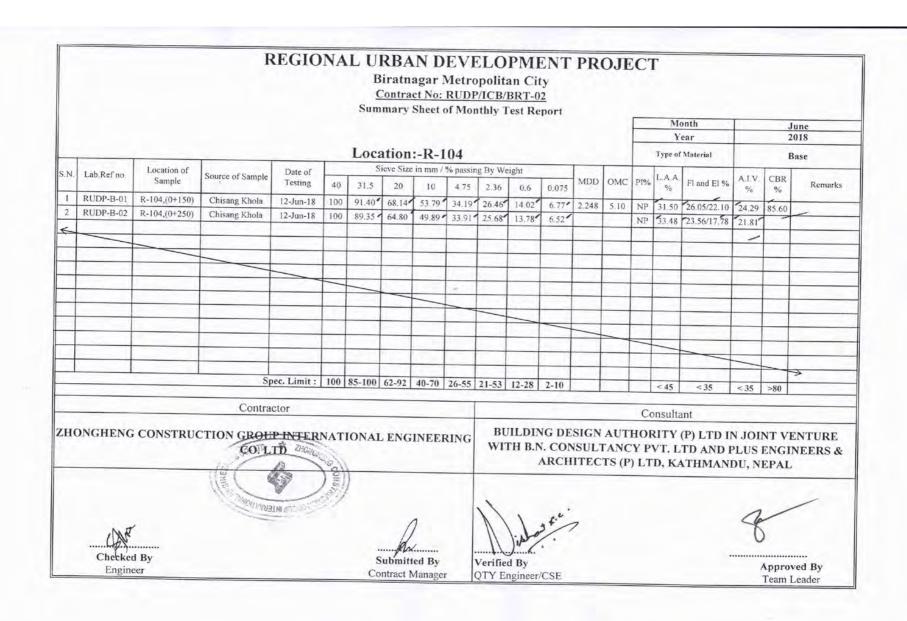
	REGION	Bir: Con	atnagai tract No	· Metro	ELOPN opolitan (OP/ICB/BR old Density T	City T-02	PROJE	CT	
			tion:-S11-A		eid Density 1		Month Year ype of Material	20	ne 18
Sn.	Lab.Ref.no	Testing Date		Moistur	Field MC%	Density Max.Dry	(gm/cc) Field Dry	Compac	Specif
1	RUDP-SB-FD-1, R/S	7-Jun-18	0+100	6.10	5.05	density	density,	tion	ed
2	RUDP-SB-FD-1, L/S	7-Jun-18	0+100	6.10	5.95	2.158	2.109	99.23	95
3				6.10	5.26	2.158	2.080	96.01	95
4	RUDP-SB-FD-1, C/L	7-Jun-18	0+200	6.10	5.57	2.158	2.084	96.60	95
-	RUDP-SB-FD-1, L/S	7-Jun-18	0+250	6.10	5.54	2.158	2.063	98.75	95
5	RUDP-SB-FD-1, R/S	7-Jun-18	0+300	6.10	5.50	2.158	2.053	99.10	95
6	RUDP-SB-FD-1, L/S	7-Jun-18	0+340	6.10	5.08	2.158	2.097	98.19	95
7	RUDP-SB-FD-1, R/S	7-Jun-18	0+400	6.10	5.40	2.158	2.080	99.26	95
	Company of the Compan								
	Contracto	on				Consulta	int		
	ZHONG HENG CONSTRI NTERNATIONAL ENGIN	EERING CO. 1	TD V	VITH B.N.	DINT VEN S ENGINE NEPAL	TURE ERS &			



		Cor	tract N	o:- RUI	opolitan DP/ICB/BI	RT-02			
		S	ummary S	Sheet of F	ield Density	rest	Month		une
							Year		018
_			L	ocation:	-R-113	Ty	pe of Material		b-Base
Sn.	Lab.Ref.no	Tastina Data			e content %		(gm/cc)		Specifie
SII.	Lab.Rel.no	Testing Date	Chainage	OMC%	Field MC%	Max.Dry density	Field Dry density,	tion	Specifie %
1	RUDP-SB-FD-1, L/S	18-Jun-18	0+100	4.20	4.91	2.230	2.134	95.70	95
2	RUDP-SB-FD-1, L/S	18-Jun-18	0+150	4.20	4.70	2.230	2.144	4 96.13	95
3	RUDP-SB-FD-1, R/S	18-Jun-18	0+200	4.20	5.57	2.230	2.160	196.85	95
4	RUDP-SB-FD-1, L/S	18-Jun-18	0+250	4.20	4.35	2.230	2.126	195.35	C 95
5	RUDP-SB-FD-1, R/S	18-Jun-18	0+300	4.20	5.50	2.230	2.124	195.25	95
6	RUDP-SB-FD-1, L/S	18-Jun-18	0+340	4.20	5.08	2.230	2.177	97.60	95
			4						
					5				
(Contrac ZHONGHENG CONSTI INTERNATIONAL ENGI	RUCTION GRO NEERING CO.			ING DESIGN .N. CONSULT ARCHITEC	ANCY PVT.	Y (P) LTD IN	US ENGI	NEERS &

	REGI	Co	RBAN DE ratnagar Me ontract No:- RI ummary Sheet of M	tropolitan C UDP/ICB/BRT	ity -02	PR	OJE	ECT	
			Jacob of I	rontiny rest Kepo	rt.	Mo	nth:	1	lune
						Ye	ear	1 / 2	2018
-							e of erial	/ Sub	grade
Sn.	Lab.Ref no.	Location of Sample	Source of Sample	Date of Testing	MDD	OMC	PI%	CBR%	
1	RUDP-SG-01	T3L24,(0+150)	T3L24	10-Jun-18	1.920	9.40	10.68	7.00	
2	RUDP-SBG-02	T3L24,(0+300)	T3L24	5-Jun-18	1.895	10.20	12.32	5.95	
		Contractor			Cor	sultant			
HONG	ENGIN	UCTION GROUP I	NTERNATIONAL		IGN AUT	NSULT.	Y (P) L ANCY I ITECTS	PVT. LT	DAND
hecked	Br.		Submitted By	Verified By			8		

	REGIO	NAL UI B	iratnag	ar Me	VELOP tropolitan JDP/ICB/B	City	PROJ	ECT	
			Summary	Sheet of	Field Density	Test			
							Month	Jun	
							Year	201	
			Loc	Moistur	e content %		ype of Material (gm/cc)	Sub-G Compac	rade
Sn.	Lab.Ref.no	Testing Date	Chanage	F-73.4-1-1	Field MC%	Max.Dry density	Field Dry density,	Compaction %	
1	RUDP-SG-FD-1, RHS	11-Jun-18	0+060	9.40	7.02	1.920	1.846	196.12 V	95
2	RUDP-SG-FD-1, LHS	11-Jun-18	0+160	9.40	7.11	1.920	1.837	95.66	95
3	RUDP-SG-FD-1, RHS	11-Jun-18	0+300	10.20	7.89	1.895	1.818	95.94	95
K	1,001,0010,1,1010	11 000 10	0,500	10.20	7.02	1,075	1.010	95,94	73
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	Ohm	fractor Zeo	3%				Consultant		
ZH	IONGHENG CONSTRUCT	A STATE OF THE PARTY OF THE PAR	TERNATI	ONAL	WITH B.N. C	ESIGN AUTI ONSULTANO	HORITY (P) L CY PVT. LTD	TD IN JOINT AND PLUS EN IMANDU, NEP	GINEER
	-D-Z	Manual II	R		Nils	3 1		R	
	eeli By		ubnatted Br tract Mana		Verified By	SE		Approved By	





				Contract								
			Su	mmary Sheet of	Monthly	Test Re	port of	20mm .				
									Mor	17.0	Ju	
									Ye	ar	20	18
									Type of N	Material	20 mn	n Agg
S.n.	Lab.Ref no.	Date of	Location of	Source of Sample	Sieve S	Size in mm	/ % Pass	ing by	L.A.A.%	FI and EI %	A.I.V.%	Remarks
o.n.	Lab.Rei no.	Testing	Sample	Source of Sample	40	20	10	4.75	L.A.A.70	F1 and E1 76	A.1. V.70	Remarks
1	RUDP-CA-83	1-Jun-18	RR-1	Chisang Khola	100.00	96.20	38.81	5.33	26.22	(19.48/17.26	/21.28	
2	RUDP-CA-84	2-Jun-18	RR-2	Chisang Khola	100.00	95.65	44.54	5.99	25.10	/ 19.39/16.80	20.47	
3	RUDP-CA-85	3-Jun-18	R-5(Traffic Chowk)	Chisang Khola	100.00	96.36	44.52	4.36	27.02	20.26/19.07	18.60	
4	RUDP-CA-86	3-Jun-18	R-21	Chisang Khola	100.00	97.25	33.85	5.27	27.00	22.59/20.41	19.84	
5	RUDP-CA-87	4-Jun-18	B2-1	Chisang Khola	100.00	96.05	29.22	4.15	23.10	721.27/19.96	18.67	
6	RUDP-CA-88	5-Jun-18	R3-A	Chisang Khola	100.00	96.69	34.81	4.05	28.02	/20.41/19.55	18,80	
7	RUDP-CA-89	9-Jun-18	Koshi-Yard	Chisang Khola	100.00	97.32	30.49	4.46	28.28	18.52/17.43	18.50	
8	RUDP-CA-90	9-Jun-18	R-42	Chisang Khola	100,00	96.34	36.01	3.29	25.00	21.47/19.10	18.36	
9	RUDP-CA-91	10-Jun-18	DSP Road	Chisang Khola	100.00	95.95	35.87	4.05	25.04	21.66/20.04	19.45	
10	RUDP-CA-92	11-Jun-18	N-3	Chisang Khola	100.00	96.39	31.27	4.33	27.04	/ 17.21/15.83	18.37	
11	RUDP-CA-93	11-Jun-18	R-12	Chisang Khola	100.00	96.77	34.08	5.50	22.90	17.46/16.91	17.73	
12	RUDP-CA-94	11-Jun-18	S13-B	Chisang Khola	100.00	97.73	38.98	2.65	22.90	19.86/18.60	17.71	
13	RUDP-CA-95	13-Jun-18	CN2CN3	Chisang Khola	100.00	96.78	37.37	2.84	22.88	/ 19.63/18.36	18.45	
14	RUDP-CA-96	13-Jun-18	R-2	Chisang Khola	100.00	97.17	34.59	3.88	26.04	19.66/16.55	17.62	
15	RUDP-CA-97	14-Jun-18	R-114	Chisang Khola	100.00	96.45	41.35	2.09	28.36	/ 19.42/18.41	18.15	
16	RUDP-CA-98	15-Jun-18	South of Xenial	Chisang Khola	100.00	97.22	35.54	4.48	30.28	/18.33/17.73	/18,75	
17	RUDP-CA-99	18-Jun-18	R-113	Chisang Khola	100.00	96.25	31.93	2.23	29.16	18.87/17.70	20.84	
18	RUDP-CA-100	20-Jun-18	Madhumara-Yard	Chisang Khola	100.00	95.88	27.87	4.51	27.50	19.83/18:80	19.24	
10	KUDI -CA-TUU	20-3011-10	Wadiiuiliara- Laid	Chisang Khota	100.00	22.00	27.01	3.21	27,20	7	12.24	
				Spec. Limit:	100	95~100	25~55	0~10	<35	< 25	< 25	
			Contractor						-	Consultant		
_			Contractor				u2.3u 25.	2203.01				
	ZHONGHEN	The second of the second	UCTION GROUP NEERING CO. LTI		L		3.N. CO	NSULT	ANCY PV	TY (P) LTD I F. LTD AND TD, KATHM	PLUS ENGIN	NEERS &
Che	ocked By		3) 5)	Submitted By		Verified Oty Engi		Side			Appro Team	ved By

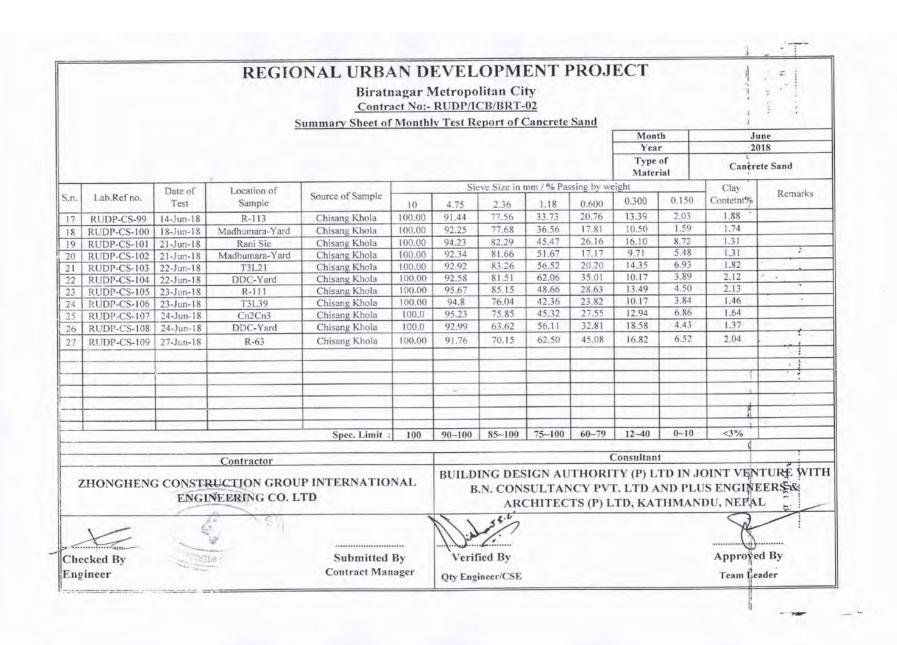


		1	REGIONAL	L URBAN I Biratnagar Contract No	Metro	politan	City	I PR	COJEC	1			
			Summ	ary Sheet of Mon	nthly Te	st Repor	t of 20n	nm Agg	Mor Ye			June 2018	
									Type of I	Material		20 mm	
S.n.	Lab.Ref no.	Date of Testing	Location of Sample	Source of Sample	Sieve 40	Size in mm	1/% Pass	ing by	L.A.A.%	Fl and F	EI %	A.I.V.%	Remark
19	RUDP-CA-101	21-Jun-18	Rani Site	Chisang Khola	100,00	97.49	30.23	3.97	26.84	18.65/1	7.61	18.07	
20	RUDP-CA-102	21-Jun-18	Madhumara-Yard	Chisang Khola	100.00	97.83	28.74	5.48	28.65	19.45/1		19.50	
21	RUDP-CA-103	22-Jun-18	T3L21	Chisang Khola	100.00	96.32	33.74	5.21	27.58	18.46/1		17.87	
22	RUDP-CA-104	22-Jun-18	DDC-Yard	Chisang Khola	100.00	96.79	40.11	2.68	25.04	22.65/2		19.07	
23	RUDP-CA-105	25-Jun-18	R-111	Chisang Khola	100.00	97.03	39.10	2.24	26.30	21.68/1		19.50	
24	RUDP-CA-106	26-Jun-18	T3L39	Chisang Khola	100.00	95.81	44.81	3.00	26.04	16.24/1:		18.64	
25	RUDP-CA-107	26-Jun-18	Cn2Cn3	Chisang Khola	100.00	97.08	49.55	2.01	23.10	18.42/1		20.00	
26	RUDP-CA-108	26-Jun-18	DDC-Yard	Chisang Khola	100.00	96.95	39.06	3.00	24.70	18.09/1		19.31	
27	RUDP-CA-109	27-Jun-18	R-63	Chisang Khola	100.00	98.01	33.29	2.63	23.10	19.10/10		20.57	
				Spec. Limit :	100	95~100	25.55	0~10	<35	< 25		< 25	
				Speci Siant 1	100	75-100	25-55	0~10	100	- 23		< 25	
2	ZHONGHENG		Contractor ICTION GROUP BERING CO. LT	P INTERNATION	NAL	VEN	TURE Y	WITH I	Consu GN AUTH B.N. CONS	ORITY (CYI	VT. LTI	AND
		Engla	EXING CO. LI	D .			FLUSI		EERS & A			(P) LTI	2
Checked By Engineer Submitted By Contract Manager						Verified Qty Engi		7:4	at to			Approved Team Lea	

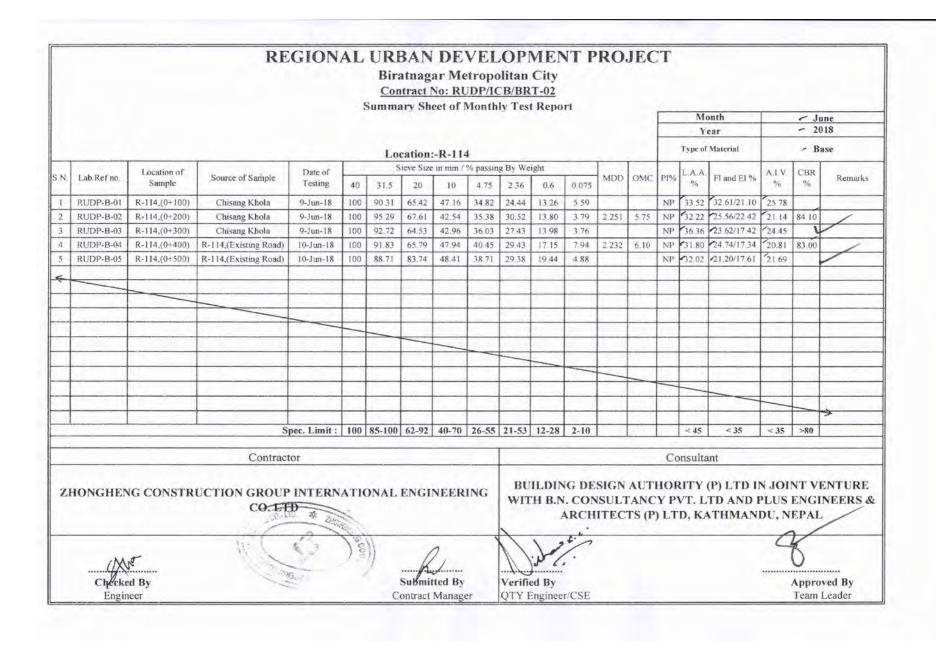


				Contra	agar N et No:-	letropol RUDP/IC	itan Cit	y)2					
			<u>S</u> 1	ummary Sheet of	Monthl	v Test Re	port of C	ancrete :	Sand	Mon	th	Ji	ine
										Yea)18
										Type Mater	130.00	Cancre	ete Sand _
		Date of	Location of	The second		Sie	ve Size in n	nm / % Pas	sing by we	ight		Clay	D I
S.n.	Lab.Ref no.	Test	Sample	Source of Sample	10	4.75	2.36	1.18	0.600	0.300	0.150	Contetnt%	Remarks
1	RUDP-CS-83	1-Jun-18	RR-1	Chisang Khola	100.00	92.71	75.01	36.12	17.55	11.49	6.05	1.29 -	
2	RUDP-CS-84	2-Jun-18	RR-2	Chisang Khola	100.00	92.48	80.55	45.12	21.98	14.61	6.51	1.37	/
3	RUDP-CS-85	3-Jun-18	R-5	Chisang Khola	100.00	93.28	83.10	57.62	24.01	17.73	4,87	1.69	
4	RUDP-CS-86	3-Jun-18	R-21	Chisang Khola	100.00	92.51	68.78	46.70	18.82	12.40	5.58	1.28	
5	RUDP-CS-87	4-Jun-18	B2-1	Chisang Khola	100.00	92.39	83.91	39,95	16.76	10.33	5.45	1.54	
6	RUDP-CS-88	5-Jun-18	R3-A	Chisang Khola	100.00	92.19	79,55	41.66	22.56	13.04	5.76	1.58	
7	RUDP-CS-89	9-Jun-18	R-63	Chisang Khola	100.00	92.57	77.27	54.04	23.66	16.15	6.08	1.98	
8	RUDP-CS-90	9-Jun-18	R-42	Chisang Khola	100.00	94.56	65.99	35,34	22.38	14.85	4,99	1.79	
9	RUDP-CS-91	9-Jun-18	DSP-Road	Chisang Khola	100.0	93.2	61.72	34.2	20.83	14.08	7.40	1.23	
10	RUDP-CS-92	9-Jun-18	N-3	Chisang Khola	100.0	93.34	63.16	35.11	20.62	12.63	5.61	1.23	
11	RUDP-CS-93	10-Jun-18	R-12	Chisang Khola	100.00	94.51	65.69	41.69	26.02	15.90	6.02	1.70	
12	RUDP-CS-94	11-Jun-18	S13-B	Chisang Khola	100.00	92.34	62.09	42.07	27.29	16.99	7.16	2.49 /	
13	RUDP-CS-95	11-Jun-18	R-2	Chisang Khola	100.00	92.57	80.06	63.84	36.85	17.59	6.07	1.92	
14	RUDP-CS-96	11-Jun-18	Cn2Cn3	Chisang Khola	100.00	92.38	76.22	60.49	35.49	15.67	5.43	1.78	
15	RUDP-CS-97	14-Jun-18	R-114	Chisang Khola	100.0	95.18	76.95	53.11	30.06	11.83	4.99	1.50	
16	RUDP-CS-98	14-Jun-18	South of Xenial Hotei	Chisang Khola	100,00	93.34	77.42	47.43	22.33	11.79	3.2	2.03	
				Spec. Limit :	100	90~100	85~100	75~100	60~79	12~40	0~10	<3%	
			Contractor						(Consultan	t		
3	ZHONGHEN		RUCTION GROUINEERING CO. L.		NAL		N. CON	SULTAN	THORI	TY (P) L F. LTD A	TD IN J	OINT VEN US ENGINI IDU, NEPA	EERS &
Che	cked By	- POLISM	RETINI RIV.	Raba- Submitted By		Verified	By By	7				Approve	ed By
	ineer			iger	Oty Engir	nor/CSE					Team Le	ader	

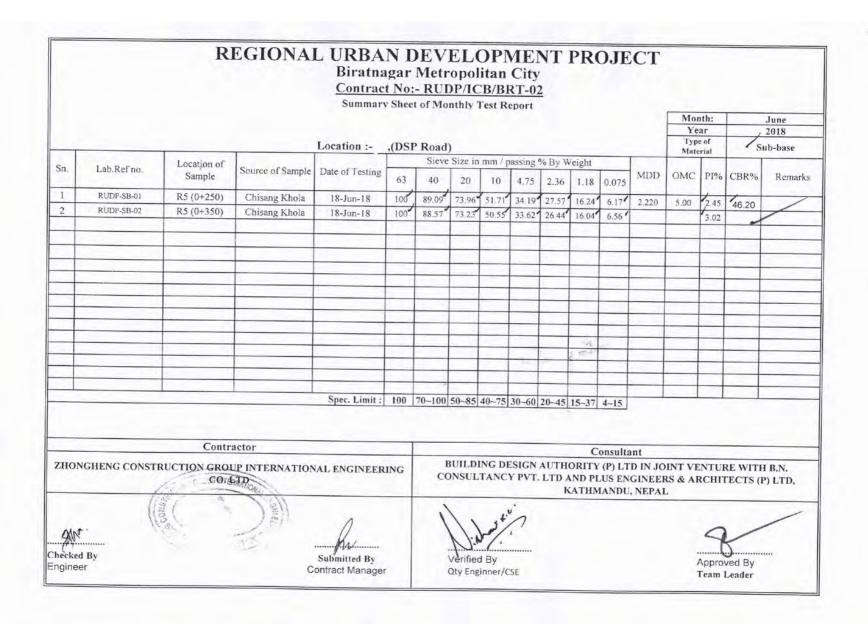














級			Project:R								RUDP					-0/4/100
	の事の思		SUMMARY C							RING (COURS	SE WAY				
-	-60		Toot De				H OF					900				
	V	il a series	Test Re							O T 245	-78)					
Mile.	251			Contra	ct Pack			-	/02				A STATE OF			P.g 1of 2
No.	LAB REF. NO.	Date of Laying	Location of Work ch:		4		Agg Gra ng Sieve		n		Bitumen Content From	Mix Density	Air Voids	17161.00	Stability	
	637			20	16	9.5	4.75	2.36	0.6	0.075	Extraction Test %	gm/ec	%	VMA %	N	Flow mm
ı	24	3/6/2018	S11-B& R-R-2Ch; 0+000t to 0+128.5 & 0+000 to 0+320	100	100	78.04	54.7	35.82	17.15	6.55	5.73	2.374	3.17	16.44	14105	2.37
	25	5/6/2018	R24 CH: 0+000 to 0+380	100	100	77.72	54.8	35.70	17.24	6.42	5.75	2.373	3.16	16.47	12958	2,40
	26	6/6/2018	R-22 CH: 0+000 to 0+380	100	100	77.15	54.81	35.51	17.16	6.55	5.73	2.368	3.41	16.55	12478	2.50
	27	8/6/2018	R-3A CH: 0+000 to 0+550	100	100	77.72	54.69	35.59	17,13	6.30	5.76	2.373	3.15	16.49	13663	2.42
,	28	18/6/2018	S-13-B CH: 0+000 to 0+440	100	100	77.30	54.38	35.07	16.83	6.22	5.74	2.369	3.34	16.61	13795	2.47
	29	19/6/2018	S-11-A CH: 0+000 to 0+380	100	100	76.88	54.39	35.30	17.26	6.44	5.73	2.372	3.23	16.49	14338	2.48
	30	20/6/2018	R-9,R-114 & R-30 CH: 0+000 to 0+117,0+000to 0+320 & 0+000 to 0+120	100	100	77.08	54.81	35.71	17.46	6.43	5.74	2.372	3.21	16.50	14725	2.57
			Specifacations	100	100-100	76-82	54-59	33-37	16-21	6 to 9	5.703	Min2,358	3-6%	≥15	≥ 8500	2-3
15	1	Job Mix Tole	rances from RUDP Specifacation Table2-4-10	±5%	Nitt	±5%	±3%	±2%	±1%	NiII	±0.3%	Service Consumer	25-51)mm			
RE	MAR	RKS:				Messel III.		1 12 70					LO-OT/IIIII	THICKIES	S WIC CO	urse
0	st C	*Sr,Lab Te	Contractor F Report Prepared by: Fechnician Schnician Chollyf Construction	6	100	anager a	577	/			B.N. Cor	Verified AUTHORI	by/ Check	ed by: DIN Joins	S Engine	
	В		Sitee Lab JUDI	Internatio	nal Engin	eering Co	Ltd				AND Ar	chitects(P) LTD Kath	mandu N	IEPAL	

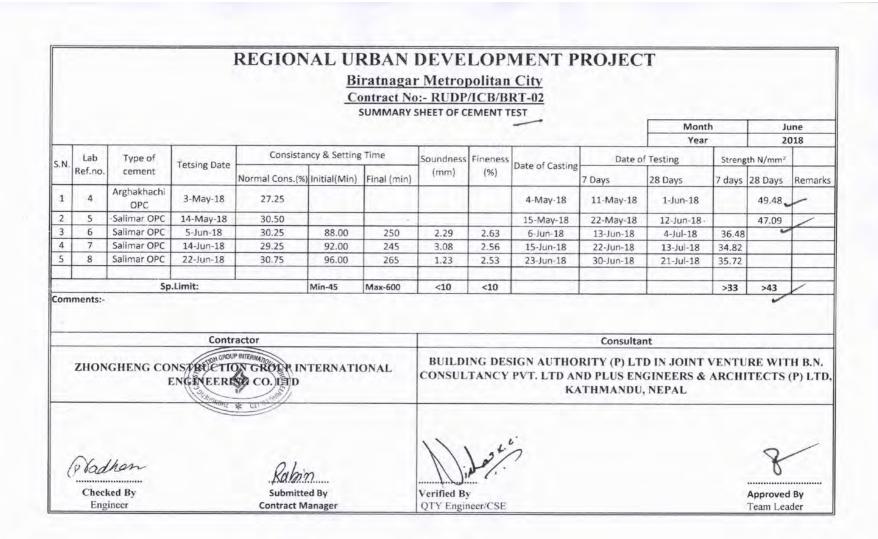


100	026	Transport Control	SUMMARY OF H	The second second						IG CO	URSE	10.75				
	-	-	Total Description			ONTH									1	
8			Test Result	THE REAL PROPERTY.	OTHER DESIGNATION OF THE PERSON NAMED IN COLUMN 1	THE PROPERTY AND PARTY AND	DESCRIPTION OF THE PARTY.			245-78	3)					
9	500		Cor	ntract I	Packag	e:RUD								rules :		P.g 2of
. No		Date of	Location of Work ch:			Mix / % Passii	Agg Gra		n		Bitumen Content From	Mix	Air Voids		Stabilita.	
	NO.	Laying	Docation of Work Cit.	20	16	9,5	4.75	2.36	0.6	0.075	Extraction Test %	Density gm/cc	%	VMA %	Stability N	Flow mr
8	31	23/6/2018	R-42,R-114& R-104 Ch: 0+000 to 0+123,0+ to 0+560 & 0+000 to 0+270	100	100	77.19	55.01	35.70	17.67	6.42	5.75	2.368	3.39	16.67	14570	2.47
9	32	24/6/2018	R-113 CH: 0+000 to 0+416	100	100	77.09	55.03	35.51	17.69	6.66	5.73	2.366	3.48	16.71	12710	2.47
0	33	28/6/2018	R-29 & R-113 CH:0+000 to 0+340 & 0+000 to 0+324	100	100	76.87	55.02	35.50	17.46	6.43	5.74	2.364	3.56	16.8	13253	2.50
			Specifacations	100	100-100	76-82	54-59	33-37	16-21	6 to 9	5.703	Min2.358	3-6%	≥ 15	≥ 8500	2-3
		Job Mix	Tolerances from RUDP Specifacation Table2-4-10	±5%	Nill	±5%	±3%	±2%	±1%	Nill	±0.3%	24000	5-51)mm		- DXT-	14.0
R	EMAR	RKS:					23276			3,00	20.070	10112	o o i jiiiiii	Tillckiles	S W/G G	iurse
6	est C	Sr,Lab		Sul Cont ongheng	/	1				BUILDING	B.N. Con	Verified	PVT .LTF	ed by: D IN Joi	S Engine	

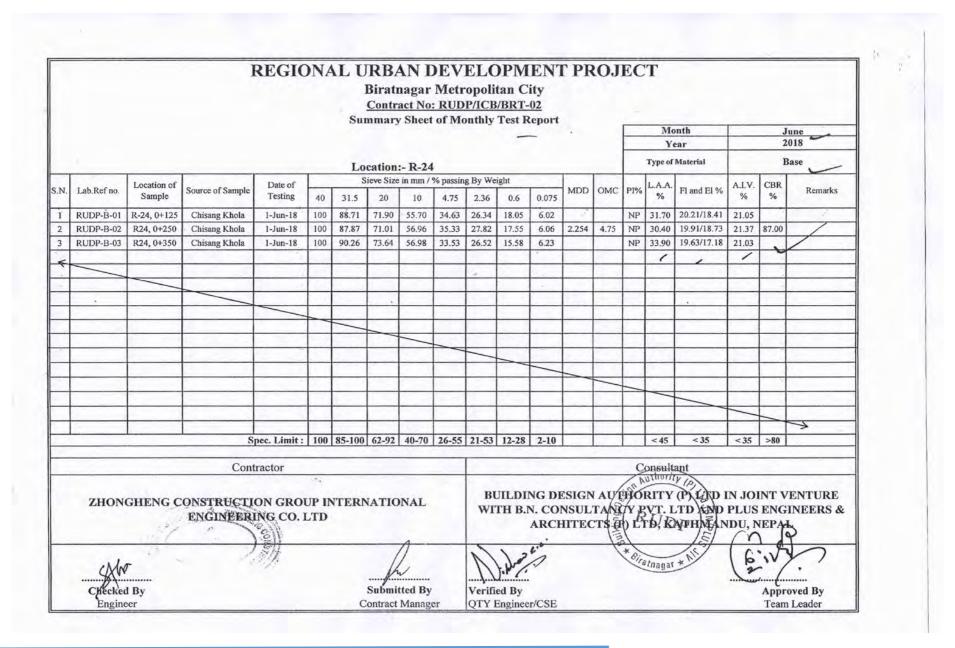




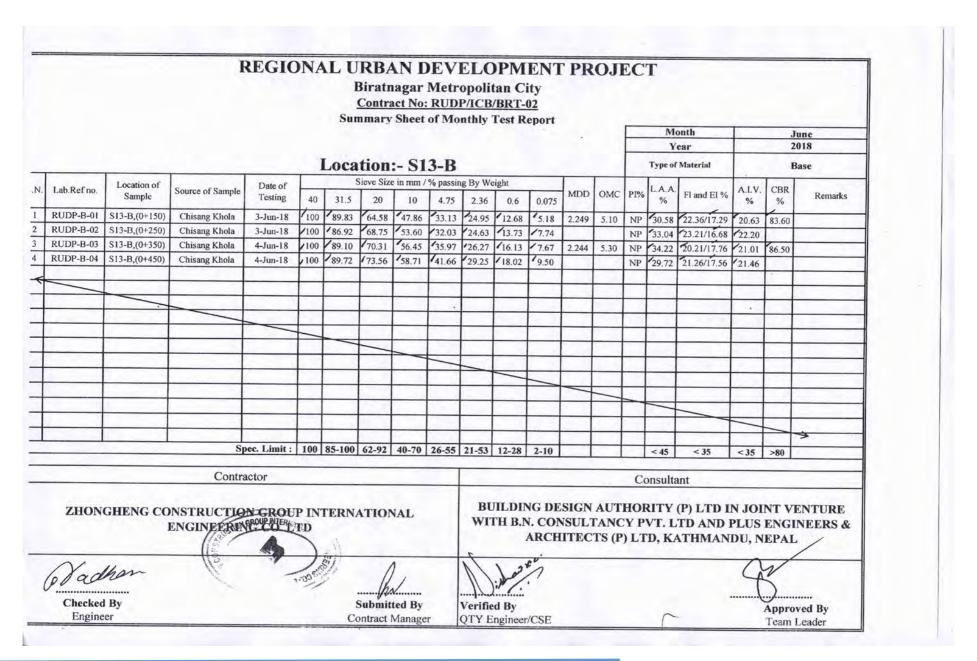




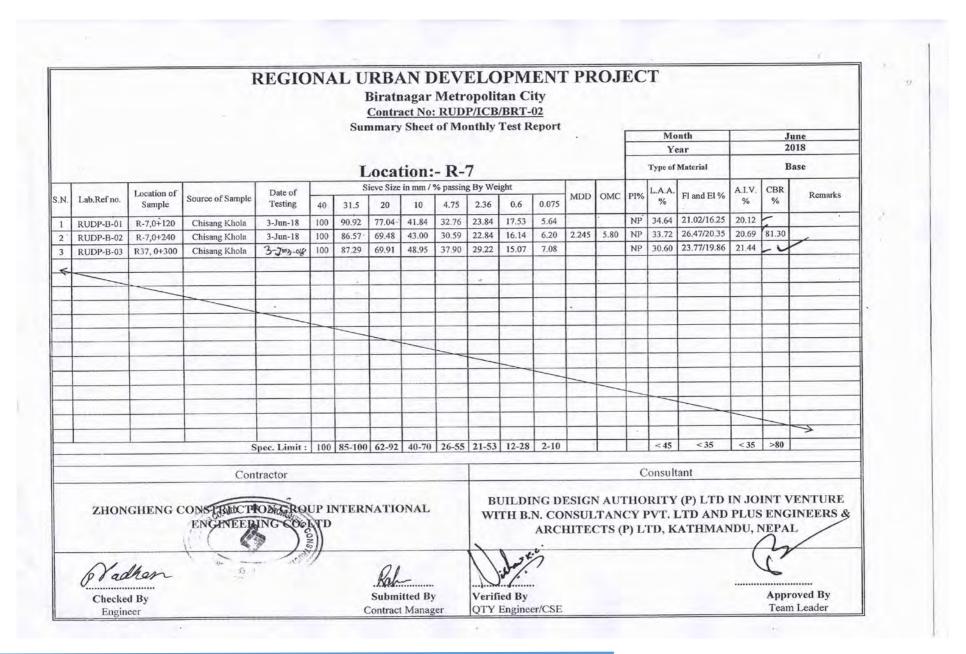




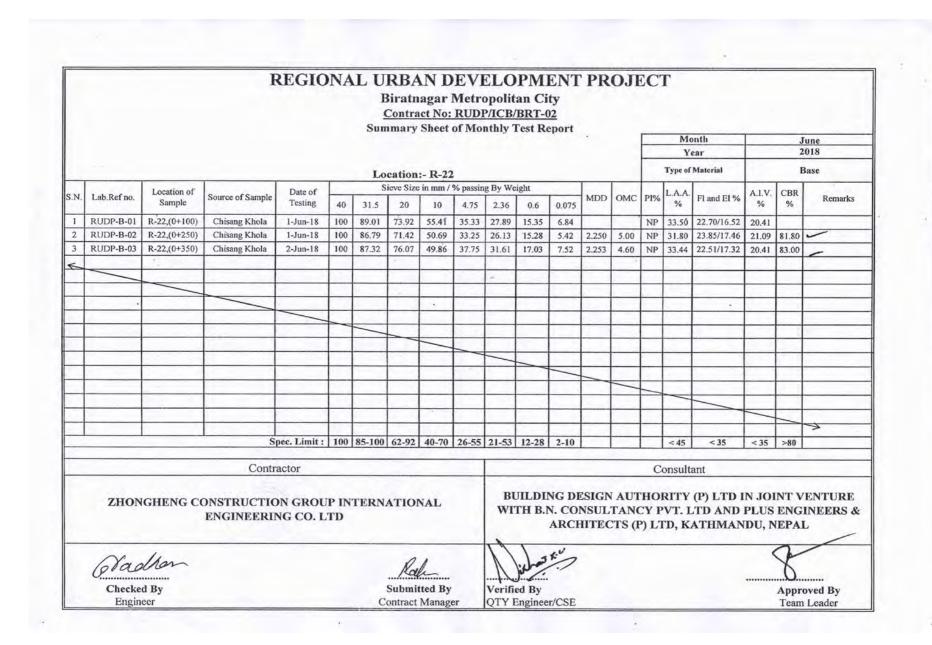




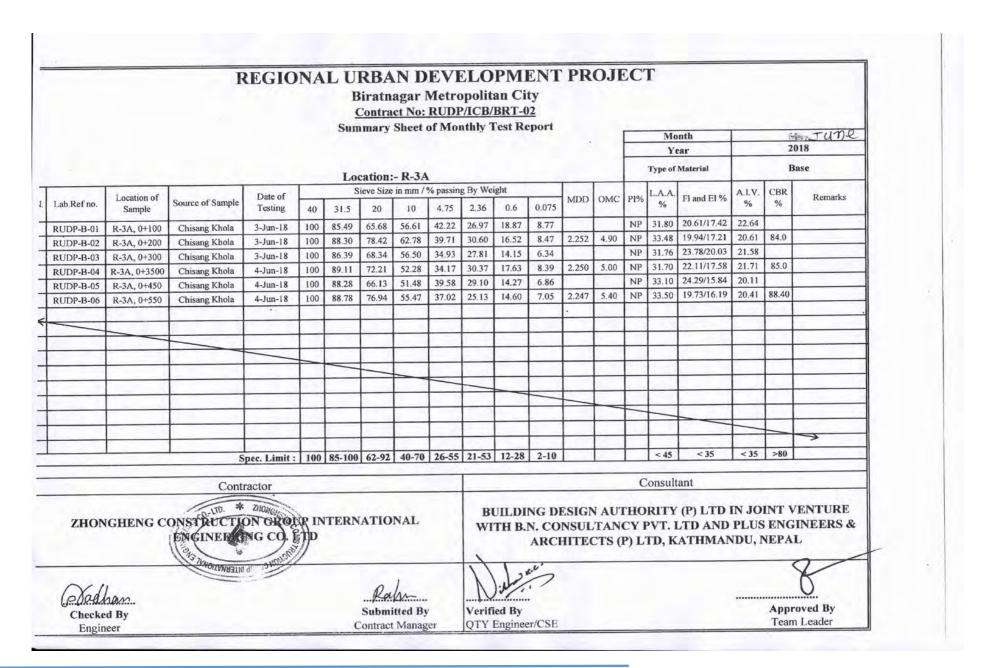




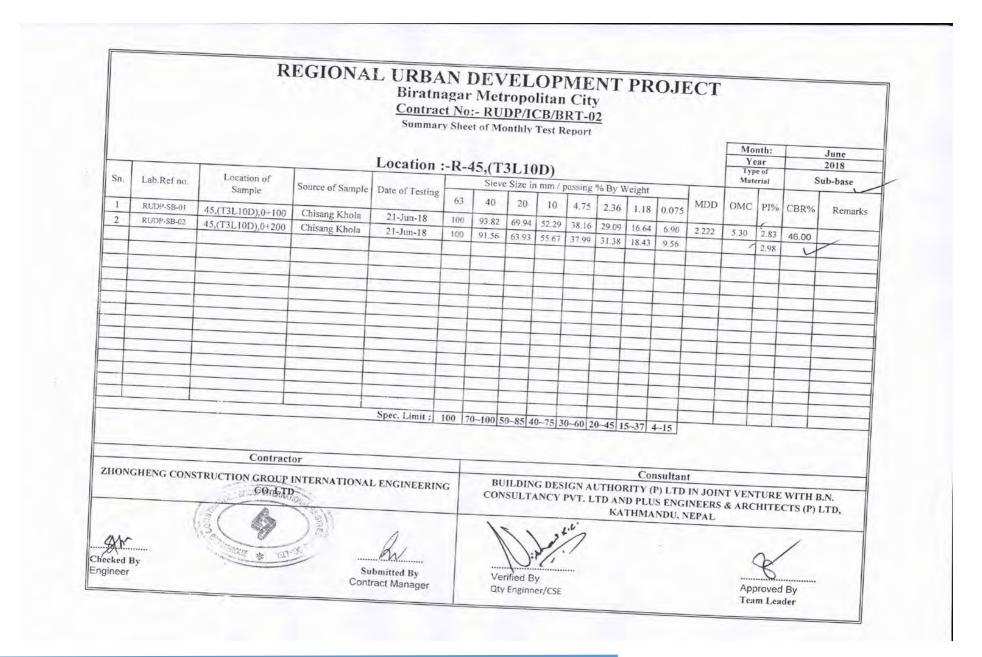




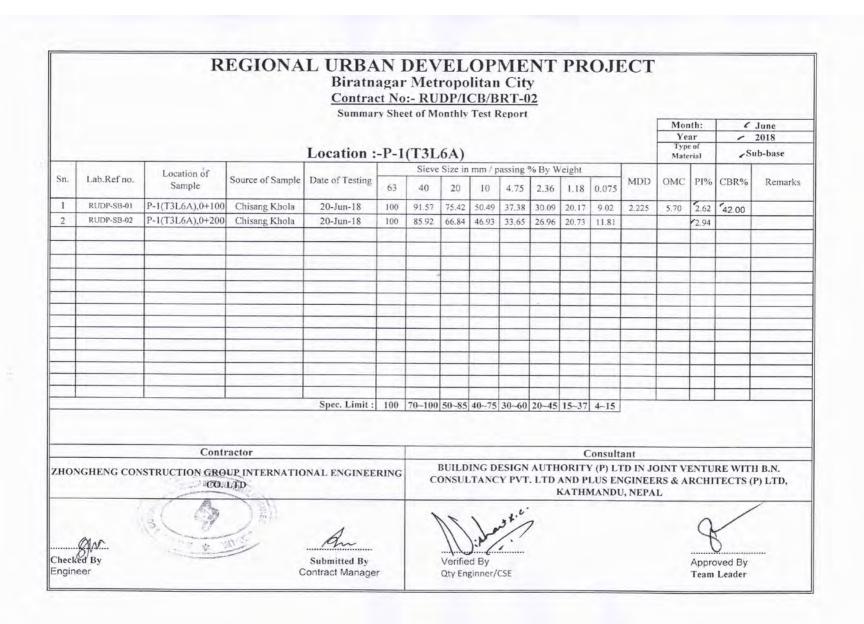








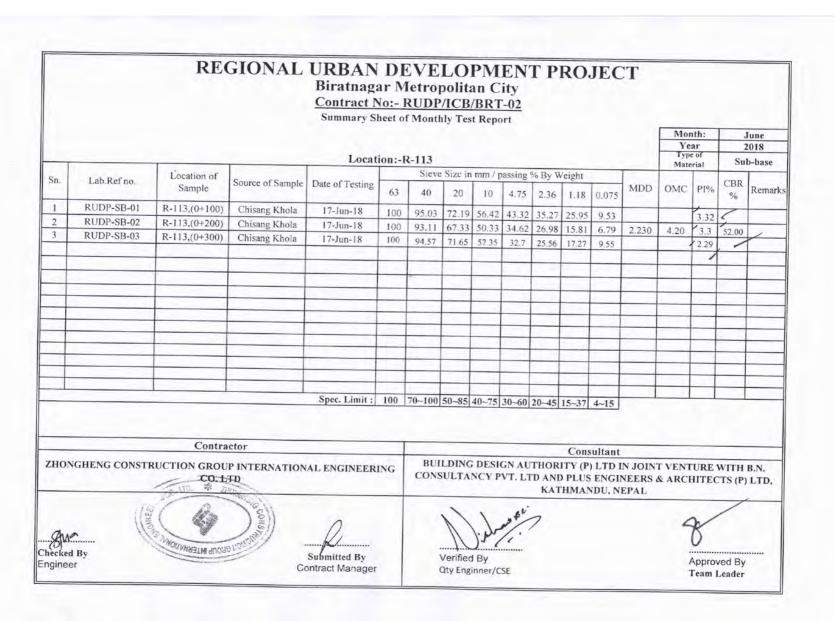






				Summary	VShee	of of Mo	nthly	Foot D	onort								
				, a	, one			rest iv	cport					Mor	nth:		June
														Ye			2018
				Location :-	S11-	A								Type		S	ub-base
Sn.	Lab.Ref no.	Location of				Sieve	Size in	mm/p	assing '	% By W	eight						
511.	Lab, Kei no.	Sample	Source of Sample	Date of Testing	63	40	20	10	4.75	2.36	1.18	0.075	MDD	OMC	PI%	CBR%	Remark
1	RUDP-SB-01	S11-A(0+150)	Chisang Khola	4-Jun-18	100	83,73	59.53	48.51	39.95	30.23	15.93	6.92			2.63	/	
2	RUDP-SB-02	S11-A(0+250)	Chisang Khola	4-Jun-18	100	87.48	65.39	54.15	41.28	31.20	18.14	7.58	2.158	6.10	3.15	46.90	
3	RUDP-SB-03	S11-A(0+340)	Chisang Khola	5-Jun-18	100	87.29	65,41	53.48	37.39	28.23	16.48	6.55		71.8.5	2.75	40.50	
4	RUDP-SB-04	S11-A(0+400)	Chisang Khola	5-Jun-18	100	88.68	66.07	53.90	36.94	27.11	15.79	8.19			3.21	-	
				Spec. Limit :	100	70~100	50~85	40~75	30~60	20~45	15~37	4~15					
7	l By	Contra RUCTION GROU CO. I	PINTERNATION TR	Submitted By	ING	Co	BUILD	TANC	ESIGN Y PVT.	LTDA	ORITY	LUS EN	D IN JO	RS & AI L	PCHI	RE WITH TECTS (I	H B.N. P) LTD,







						Biratnaga	DEVELOPA r Metropolita o: RUDP/ICB	n City	OJECT		
					the state of the state of		ate Check f		a work		
		en:80/100 age:MC 70					HE MONTH				
SN NO	Location	Date of Priming		tation to	Side of Priming	Area of Priming	Intersection Area m2	Total Area M2	Bitumen Consumption (ltr)	Application Rate By Dip Lit/m2	Application Rate Bt Tray Test Lit/m2
17	R-113	23-Jun-18	0+150	0+416	Both Side	1436.4	0	1436.4	1550	1.08	1.03
18	R-113	24-Jun-18	0+000	0+150	Both Side	810	0	810	850	1.05	1.04
19	R-29	27-Jun-18	0+000	0+340	Both Side	1564	0	1564	1700	1.09	1.08
20	R-113	27-Jun-18	0+000	0+324	Both Side	1817.64	0	1817.64	1950	1.07	1.06
							То	tal	29900		
		Require	d speci	fication fo	r Prime coa	at 1.0 Lit/	M2 ± 5%	Specific C	Gravity of Bite	umen 1.019	
				ractor					2.53.75	ultant	
	ZHONG	HENG CON	NGINEER	NE CO. LT	INTERNATIO	NAL	CONSULTA	G DESIGN NCY PVT.	LTD AND PLUS	LTD IN JOINT ENGINEERS DU, NEPAL	VENTURE WITH B. & ARCHITECTS (P) I
Q.			омонг	* one	Rahin		Middle .	4:0			8
ngineer	Ву				Submitted By Contract Manage	er	Verified By QTY Engineer/	CSE			Approved By Feam Leader



					REGIONA	L URBAN	DEVELOP	MENT PR	ROJECT			
						Biratnaga	r Metropolit	an City				
					<u>C</u>	ontract N	o: RUDP/ICE	3/BRT-02				
					Daily App	lication F	Rate Check	for Primi	ng work			
ype	of Bitume	en:80/100	P.G		SUMMAR	RY FOR T	HE MONTH	OF JUNE	2018			
	Percenta	ge:MC 70:N										
SN NO	Location	Date of Priming	From	Station	Side of	Area of	Intersection	Total	Bitumen	Application Rate	Application Rate	
1	RR-2	02-Jun-18	0+000	0+320	Priming Both Side	Priming 2320	Area m2 38.45	Area M2 2358.45	Consumption (ltr) 2400	By Dip Lit/m2 1.02	Bt Tray Test Lit/m2 1.05	
2	S11-B	02-Jun-18	0+000	0+128.5	Both Side	876.37	0	876.37	900	1.03	1.06	
3	R-24	04-Jun-18	0+000	0+380	Both Side	1672	0	1672	1800	1.08	1.05	
4	R-22	05-Jun-18	0+000	0+380	Both Side	1425	0	1425	1500	1.05	1.03	
5	R3-A	06-Jun-18	0+000	0+290	Both Side	1745.8	0	1745.8	1800	1.03	1.05	
6	R3-A	07-Jun-18	0+290	0+560	Both Side	1552.5	180.25	1732.75	1850	1.07	1.04	
7	S13-B	14-Jun-18	0+000	0+440	Both Side	2534.4	0	2534.4	2600	1.03	1.02	
8	S11-A	14-Jun-18	0+000	0+220	Both Side	1500.4	14.48	1514.88	1600	1.06	1.05	
_		Require	d spec	ification f	or Prime co	at 1 0 Lit	/M2 + 5%	Specific	Gravity of Bit	tumen 1 019		
-	-	rtoquiio			0	/ut 110 E11	71112 2 0 70	opoomo		ultant		
	2012/2011		1/C1/04 m	our INTERNATIONS		21072	BUILDIN	G DESIGN			VENTURE WITH	BN
	ZHONGH	ENG CON	GINEER	TON GROUP	INTERNATIO	ONAL			LTD AND PLUS		& ARCHITECTS (
			TORRE	* (11)			11.	,.V			- /	
/A .	0.				01.		111	34			2	
\$XV					Fahim		1 1:00	(-				
hecke ngine					Submitted By Contract Mana	nor-	Verified By QTY Engineer	CSE			Approved By Team Leader	



							r Metropolita					
					200		ate Check f		g work			
уре с	of Bitume	n:80/100 F	P.G		SUMMA	RY FOR T	HE MONTH	OF JUNE	2018			
utter	Percenta	age:MC 70:	:MC30									
SN NO	Location	Date of Priming	From	tation to	Side of Priming	Area of Priming	Intersection Area m2	Total Area M2	Bitumen Consumption (ltr)	Application Rate By Dip Lit/m2	Application Rate Bt Tray Test Lit/m2	
9	S11-A	15-Jun-18	0+220	0+380	Both Side	1164	69.29	1233.29	1350	1.09	1.08	
10	R-30	15-Jun-18	0+000	0+120	Both Side	540	0	540	550	1.02	1.06	
11	R-9	15-Jun-18	0+000	0+117	Both Side	538.2	0	538.2	575	1.07	1.06	
13	R-114	18-Jun-18	0+000	0+320	Both Side	2259.2	0	2259.2	2400	1,06	1.04	
14	R-104	22-Jun-18	0+000	0+270	Both Side	1190,7	0	1190.7	1300	1.09	1.06	
15	R-42	22-Jun-18	0+000	0+123	Both Side	624.84	0	624.84	675	1.08	1.06	
16	R-114	22-Jun-18	0+320	0+560	Both Side	2355.2	0	2355.2	2550	1.08	1.06	
		Require	d speci	fication fo	or Prime co	at 1.0 Lit/	M2 ± 5%	Specific C	Gravity of Bitu	ımen 1.019		
			Con	ractor					Cons	ultant		_
	ZHONG	HENG CON	STRUCT	ON GROUP ING CO. LT	INTERNATIO D	NAL	1 1 1 1 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2		LTD AND PLUS		VENTURE WITH & ARCHITECTS	
. W	(o			4 0.1	Relsim		Mid.	34.6	***************************************		8	
hecked gineer					Submitted By Contract Manage	ar.	Verified By QTY Engineer/	cer			Approved By Team Leader	



Гуре	of Bitume	en:80/100	P.G			pplication	No: RUDP/ Rate Che	ck for TA	CK COAT			
21.						illicit i Cit	TILL MONT	II OI JONE	2010			
S.N.	Location	Date of Tack coat	From	tation to	Side of Tack coat	Area of Tack coat	Intersection Area m2	Total Area M2	Bitumen Consumption	Application Rate By Dip Lit/m2	Application Rate Bt Tray Test Lit/m	
1	S11-B	3-Jun-18	0+000	0+128.5	BHS	876.37	0	876.37	600	0.68	0.65	2
2	RR-2	3-May-18	0+000	0+320	BHS	2320	97 68	2417 68	1500	0.62	0.59	
3	R-24	5-Jun-18	0+000	0+380	BHS	1687.2	0	1687.20	1000	0.59	0.54	
										0.00	0.04	1
3	R-22	6-Jun-18	0+000	0+380	BHS	1425	0	1425 00	850	0.60	0.59	
4	R3-A	8-Jun-18	0+000	0+550	BHS	2120	185.5	2305.50	1450	0 63	0.60	
5	S13-B	18-Jun-18	0+000	0+440	BHS	3000 8	0	3000.80	1750	0.58	0.56	
-	Cont	01	N 400	2001	1.0				22 5 3			
	Sub-	Clause	No.130	12,Standa			oad And f Bitumen		2073-Tabl	e No. 0.5	to 0.6	
				Contracto	•					Consu	Itant	
ZHON	GHENG	CONSTRU	CTION GI	ROUPINTER	RNATIONAL E	ENGINEERI	NG CO. LTD	BUILDING CONSULT	ANCY PVT. L	TD AND PLU	S ENGINEERS	/ENTURE WITH I
		Í			4				er'	TD, KATHMA	NDU, NEPAL	/
p/cx	Man		- 1	100		Rabin		Middle .	!			8
hecke nginee						Submitted By Contract Mana		Verified By QTY Engineer	COF			Approved By Team Leader



Type	of Bitum	en:80/100	P.G			pplication						
SN	Location	Date of			6/4				T ==	T		4
3/14	Location	Tack coat	From	to	Side of Tack coat	Area of Tack coat	Intersection Area m2	Total Area M2	Bitumen Consumption	Application Rate By Dip Lit/m2	Application Rate Bt Tray Test Lit/m2	
6	S11-A	19-Jun-18	0+000	0+380	BHS	2713	106.62	2819.62	1600	0.57	0.52	
7	R-9	20-Jun-18	0+000	0+117	BHS	540.00		F 40.00	205	0.01	200	
,	119	20-300-16	0+000	0+117	вна	546.39	0	546.39	335	0.61 /	0.58	-
8	R-30	20-Jun-18	0+000	0+120	BHS	540	0	540.00	315	0.58	0.57	
9	R-114	20-Jun-18	0+000	0+320	BHS	2259 2	0	2259 20	1500	0.66	0.65	
10	R-104	23-Jun-18	0+000	0+270	BHS	1190 7	0	1190 70	750	0.63	0.60 /	-
11	R-42	23-Jun-18	0+000	0+123	BHS	624.84	0	624 84	400	0.64	0.59	
					w. O.L. I. I.							-
	Sub	-Clause	No.130	2,Standa	ard Specf	ication R	Road And	Bridge :	2073-Tab	le No. 0.5	to 0.6	
					Specific	Gravity of	f Bitumen	1.019				
_		_		Contractor	r'			DIW DIVIO	DEGLOS	Consu	The state of the s	
ZHON	IGHENG	CONSTRU	CTION GI	ROUP INTER	RNATIONAL	ENGINEERII	NG CO. LTD				LTD IN JOINT V S ENGINEERS	
		10	1	1			2.77.55			TD, KATHMA		
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av	-11.		7			0.1		1/1	31/			2/
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Check	ed By					Submitted By	,	Verified By				Approved By



ype o	of Bitum	en:80/100	P.G				Rate Che					
S.N.	Location	Date of		ation	Side of	Area of	Intersection	Total	Bitumen	Application Rate	Application Rate	1
12	R-114	Tack coat 23-Jun-18	0+320	to 0+560	Tack coat BHS	Tack coat 1766.4	Area m2	Area M2 1766.40	Consumption 1100	By Dip Lit/m2 0.62	Bt Tray Test Lit/m2 0.58	-
)	2.,0	11,90.7	-	11,00.10	1100	0.02	0.50	
13	R-113	26-Jun-18	0+000	0+416	BHS	2246.4	0	2246.40	1550	0.69	0.67	
14	R-29	28-Jun-18	0+000	0+340	BHS	1564	Ö	1564.00	1000	0.64	0.61	
15	R-113	28-Jun-18	0+000	0+324	BHS	1817.64	0	1817.64	1200	0.66	0.63	
							To	otal	16900			
	Sub	-Clause	No.130	2.Stand	ard Specf	ication R	load And	Bridge :	2073-Tab	le No. 0.5	to 0.6	
				,			f Bitumen		2010 145	10 110. 0.0	10 0.0	
				Contracto								
			U.e.	Contracto				BUILDING	DESIGN ALL	Const		ENTURE WITH B.N.
ZHON	IGHENG	CONSTRU	CTION G	ROUP INTE	RNATIONAL	ENGINEERI	NG CO. LTD		ANCY PVT.		S ENGINEERS	& ARCHITECTS (P)
			1					11.				- /
00	Mlan		-			Rabin		Vist.	رجو			R
1-	ed By					Submitted By		Verified By				Approved By



13 ANNEX-4: SOCIAL SAFEGUARD MONITORING /ENVIRONMENTAL MONITORING FORMATS Attached

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

Name of Sub Project: RUDP/ Biratnagar Contract Package: RUDP/ICB/BRT/02

Sub-project Component: Road Lanes Improvement/ Sewerage Drainage

Month: June 2018

-	Chec	klist	
SN	Activity	Description/Present Status (Compliance/Partially Compliance/Non Compliance	Remarks/ Corrective actions for Non- Compliance
1.1	Training Health, Safety and EMP trainings and awareness	Ses	
1.2	Others awareness and skill trainings		
2	Occupational health and safety		
2.1	Insurance for workers	Ses	
2.2	Personal Protective Equipment (PPE) provided to labors and is using (helmet, facemasks, muffles, gloves, boots, jacket, goggles etc.)	Darly 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	Doo'ly used. DDC, Kamehanbari	
3	Campsite management	22011	
3.1	Location	Shanti Chouk, Rani	
3.2	First aid facilities available at camp and worksites	Ses	
3.3	Drinking water supply and sanitation facilities/ pit latrines	Tap water/hand	
3.4	Waste Disposal and Management facilities	Ses	
3.5	Type of fuel used for cooking	1.P.G.	
4	Spoil and Construction material Management		
4.1	Cut and fill balance maintained or not, Reuse of spoil materials	cut & fill babace maintained Not applicable	
4.2	Use of safe spoil disposal locations	Not applicable	



4.3	Disturbance to Pedestrian and traffic movement	No any disturbance to Pedestrain & traffic movement
4.4	Use of private land and agreement with	traffic movement
5	land owners Air, Noise and Water Pollution	Ves
5.1	Dust emission and Noise pollution sites	Water sprinkled
5.2	Water quality monitoring result and locations	by danker on such sites.
5.3	Block age of natural drainages ,water logging, drain water discharge into farmland/risky areas	N.A
6	Quarrying of construction materials and Plants Installment	
6.1	Quarry/borrow operation sites	N.A
6.2	Crusher plant and Asphalt plant operation restoration	Asphalt plant
7	Impact/Disruption of Private properties	N. A
7.1	Building structures	N.A
7.2		N.A
8	Other utilities Impact/disruption of public	(177)
	infrastructures	
8.1	Irrigation canal	N.A
8.2	Water supply pipe	N.A
8.3	Access road	
8.4	Electric/Telephone pole	N.A
8.5	Others	N.A
9	Sites for cultural and religious values	
9.1	Cultural and religious sensitive spots (if any)	N-A
10	Forest and vegetation	
10.1	Number of trees removal	N.A
10.2	No of tree plantation(Roadside)	N·A
11	Accident cases and records	No any records
12 12.1	Employment to local people Men and women	Both Men Swomen
12.2	Child labor (if any)	No
13	Establishment of Safeguard desk and meeting	Yes Yes
14	Grievances from local people and addressed	Yes



						evelop guar							
			30			y of Soc			ing				
1.General in Subproject: -				-	iiveiitoi	Month/			8				
GroupIntern	ational E	ngineerin	g Co pv	Beijin	g								
Chaina.							(ontract	Packag	e: RUDF	P/ICB/BI	RT/2	
2.Total numl	bers of co	ontractor	workers	involv	ed in ro	ad const	ruction	(write d	own th	e numb	er)		
Type of Workers			Camp-1	Camp-2	Camp-3	Camp-4	Camp 5	Camp-6	Camp 7	Camp-8	Camp-9	Camp-10	Remarks
Local Male Female													
		Female							1				
Non-Local Ma		Male	7	20	38	26	36	21	17	14	28	23	
		Female						,					
Child Labour Male		Male											
		Female											
3. Source an													
Sources		camp-1	Camp-2		Camp-4	Camp-5	Camp-6	Camp-7	Camp-8	Camp-9	Camp-10	Remarks	
a. Piped water		2	2	2			2	2	2	2			
b.Well/Spring		2	2	2	2	2				*	2		
c.Tanker													
d													
Code:													
Insufficient-1		Sufficient	t-2	Plenty-	3								
4. Type and	number	of toilets i	n the la	bour ca	mp (wr	ite dowr	the nu	mber)					
Туре	Camp-1	Camp-2	Camp-3	Camp-4	Camp-5	Camp-6	Camp-7	Camp-8	Camp-9	Camp-10		Remark	s
a.Pit Latrine					1				1				
b.Pan	4	2	2	1		1	1	1		1			
c.Open													
d													
5. Energy use	ed in lab	our camp	(tick ma	ark)									
Sources of E Camp-1 Ca		Camp-2	Camp-3	Camp-4	Camp-5	Camp-6	Camp-7	Camp-8	Camp 9	Camp-10		Remark	s
a. Firewood													
b.Kerosene								T E					
c. L.P Gas	~	V	V	V	v	~	V	V	V	~			



verified by:-

Monitored by:-



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

Subproject Road : -RUDP/ICB/BRT/2

Month/Year: June/2018

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

Contract Package: RUDP/ICB/BRT/2

		Cor	mpliance Sta	itus	The second second	Note of Remarks	Deadline
5.N	Key Social Issuse	Full	Partial	None	Implementing Agency		
1	Availability of drinking water services	V					
2	Availability of toilet facility in campsite	~					
3	Legal source of fuel wood use			V			
4	Legal document of fuel wood source			V			
5	Use of safety accessories	V					
6	Availability of first aid facility						
7	Basic wage rate to construction workers	~					
8	Equal wage rate to male and female workers						
9	Compensation of temporarily occupied land	V					
10	Compensation of temporarily occupied buildings	V					
11	Legal document of temporarily occupied assets					un alt	1111
12	Non use of child labour in construction activities	V					

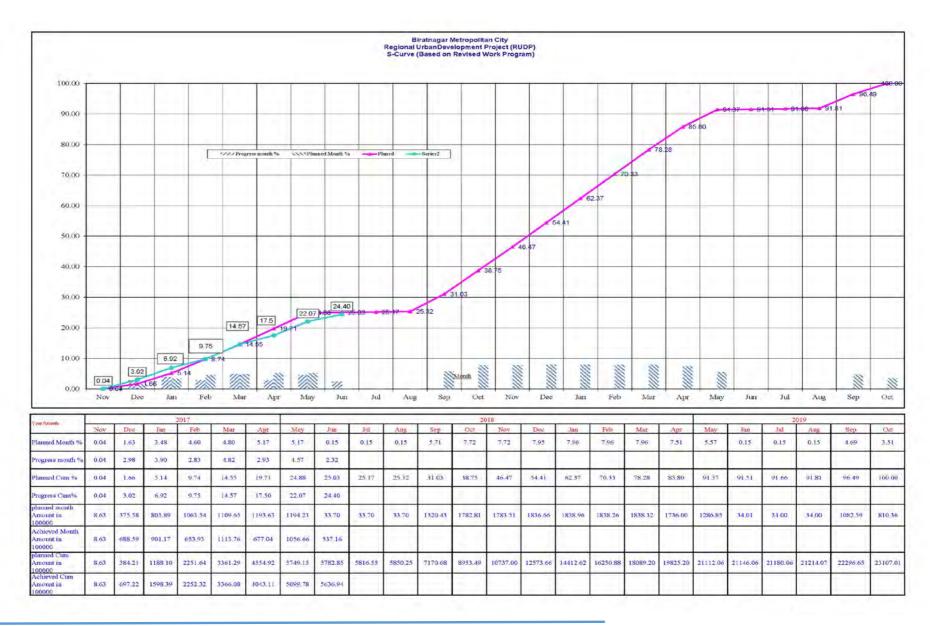


Verified by:

Monitored by:



14 ANNEX-5: S-CURVE Attached





15 MASTER PLAN OF RUDP PROJECT

