Building Design Authority (P) Ltd



in joint Venture with B.N. Consultancy Pvt. Ltd and PLUSH Engineering & architects (P) Ltd Kathmandu.

Monthly Progress Report

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



July 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.



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	1 st November 2019								
Contract Amount including PS and VAT	NRs. 2,611,092,249.63								
Progress									
Road Rehabilitation (Asphalt)	19.12%								
Sewer Line	40.79%								
Storm Drain	87.3 %								
Road Side Drain	65.11%								
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, the consultant is not able to process for design of Integrated Solid Waste Management (ISWM) as per discussion.								
Physical Progress up to date	Planned : 25.17% , Actual : 25.18%; Lead(+) or Lag(-) by +0.01% S curve attached								
Financial Progress up to date	In Percentage: 22.84%, In Figure: NRs. 596,339,691.11(including VAT,PS and Price Adjustment) In Words: NRs. Five Hundred Ninety Six Million Three Hundred Thirty Nine Thousand Six Hundred Ninety One and Paisa Eleven Only.								



3. SUMMARY OF PROGRESS STATUS OF ALL MAJOR COMPONENTS

S.No	Description	Unit	BoQ Quantity	Progress up to date	Remaining	Progress Status expressed in %	Remarks
1	Sewer Line						
а	HDPE/RCC	т	20,082.00	8,191.00	11,891.00	40.79%	
b	Manhole	No.	656.00	276.00	380.00	42.07%	
2	Storm Water Drain						
а	RCC Drain	т	652.89	570.00	62.89	87.30%	
b	Piles	No.	132.00	138.00	(6.00)	100.00%	Exceeded
3	Road						
а	Subgrade	т	73,860.00	23,804.65	49,281.35	32.23%	
b	Subbase	т	73,860.00	21,042.85	52,043.15	28.49%	
с	Base	т	73,860.00	18,075.85	55,010.15	24.47%	
d	Prime	т	73,860.00	14,119.20	58,966.80	19.12%	
е	e Asphalt		73,860.00	14,119.20	58,966.80	19.12%	
4	Road Side Drain	т	26,050.00	16,960.25	9,089.75	65.11%	

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.

S. NO.	Description	Unit	Original Quantity
1	Sewerage Pipe Supply and Installation	m	20,082.00

Table 1: PROPOSED SEWER LINES



S. NO.	Description	Unit	Original Quantity
	Reinforced Concrete Pipe laying and jointing		2241.00
	Line T2 (Secondary)	m	206.00
	Line T3 (Trunk)	m	1905.00
	Line T4 (Trunk)	m	130.00
	HDPE laying and jointing	m	17,841.00
	Line T1 (Secondary)	m	1,825.00
	Line T2 (Secondary)	m	3,927.00
	Line T3 (Secondary)	m	9,997.00
	Line T4 (Secondary)	m	2,902.00
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 July, 2018

	Locations	Bog	2	Up to Pre	e Month	This	month	Total t	o date	-
SN		Length (m)	Manhole	Longth(m)	Manhole	Length	Manhole	Length	Manhole	Progress %
		Lengin (m)	(<i>no</i>)	Length(m)	(no)	<i>(m)</i>	(no)	<i>(m)</i>	(<i>no</i>)	70
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	1,037.00	30.00			1,037.00	30.00	
2	HDPE(T2)	3,927.00	147.00	2,828.00	107.00	168.00	6.00	2,996.00	113.00	



		Bog	2	Up to Pre	Month	This	month	Total to	o date	
SN	Locations	Langth (m)	Manhole	Langth(m)	Manhole	Length	Manhole	Length	Manhole	Progress %
		Length (m)	(<i>no</i>)	Length(m)	(<i>no</i>)	<i>(m)</i>	(no)	(<i>m</i>)	(<i>no</i>)	7.5
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	7,405.00	253.00	168.00	6.00	7,573.00	259.00	
	Total	20,082.00	656.00	8,023.00	270.00	168.00	6.00	8,191.00	276.00	40.79%
	Sewer Inlet	BoQ(no)		Up to Pre Month		This month		Total to date		Progress %
1	Sewer inlet	1,010.00					3.00	28.00		2.77
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 July, 2018.

		Proposed	Progre	ess			
SN	Location	Length in (m)	Up to previous month in (m)	This month in (m)	Total till date (m)	Progress %	
1	CN2-CN3 (Chyangh Baari Naalaa)	652.89	530	40	570	Construction of drain works going on	
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 July, 2018

	Road		Propose	Actual	Progress in (I	_	Tadal	Progress %				
SN	Num ber	Road Name	d Length(m)	Length(m)	Upto previous month	This month	Total till date					
	Subgrade											
1	R3A	Madhumara Marg	600.00	600.00	600.00	-	600.00	(100%)Sub grade,				
2	R42	Bhagwati Marg	218.00	218.00	218.00	-	218.00	(100%)Sub grade,				
3	R104	VIP Marg	273.00	271.00	273.00	-	273.00	(100%)Sub grade				
4	Rani site	Rani	4,023.00	2,315.00	2,315.00		2,315.0 0	(57.54%)Su b grade,				
5	R37	Banglamukh i Marg	420.00	477.00	477.00	-	477.00	(100%)Sub grade,				
6	R5	College Road	970.00	970.00	970.00	-	970.00	(100%)Sub grade,				
7	R16	Satya Marg	604.00	604.00	604.00	-	604.00	(100%)Sub grade,				
8	R21	Pratibha Marg	1,320.00	1,320.00	1,320.00	-	1,320.0 0	(100%)Sub grade,				
9	R25	Devi Marg	599.00	580.00	580.00	-	580.00	(100%)Sub grade,				
10	R24	Prabhat Marg	384.41	380.00	380.00	-	380.00	(100%)Sub grade,				
11	R28	Pustakalaya Marg	635.00	635.00	635.00	-	635.00	(100%)Sub grade,				



12	R27	Peepal Marg	810.00	810.00	810.00	-	810.00	(100%)Sub grade,
13	R26	Pasang Marg	617.00	654.00	654.00	-	654.00	(100%)Sub grade
14	B1	Kanchan Marg	1,172.94	1,173.00	1,173.00	-	1,173.0 0	(100%)Sub grade,
15	B2	Gauri Shankar Marg	2,777.83	2777.83.0 0	2,152.00	-	2,152.0 0	(77.5%)Sub grade,
16	В3	Keshaliya Marg	1,574.00	1574.00	1,574.00	-	1,574.0 0	(100%)Sub Grade ,
17	S11	Samrat Marg	660.00	660.60	660.00	-	660.00	(100%)Sub Grade,
18	S13		1,617.00	1,435.00	1,417.00	-	1,417.0 0	(87.63%)Su b Grade,
19	R114	Dharanidhar Marg	320.00	320.00	320.00	-	320.00	(100.00%) Sub Grade,
20	R12	Kanchha Dai Marg	1,192.00	1190.00	837.00	-	837.00	(70.21%)Su b Grade
21	R5a		370.00	-	370.00	-	370.00	(100%)Sub Grade
22	R113	Kavi Lekhnath Marg	420.00	736.00	736.00	-	736.00	(100%)Sub Grade
23	R65	Satghumti Marg	282.00	320.00	320.00	-	320.00	(100%)Sub Grade
24	R107		173.00	215.00	215.00	-	215.00	(100%)Sub Grade
25	R107 a		50.00	-	50.00	-	50.00	(100%)Sub Grade
26	R22	Amar Marga	373.10	367.65	367.65		367.65	(100%)Sub Grade
27	R7	Manakaman a Marg	814.00	242.00	242.00		242.00	(29.73%)Su b Grade
28	R64	Satya Narayan Marg	121.00	121.00	121.00		121.00	(100%)Sub Grade



29	R8		-	225.00	225.00		225.00	(100%)Sub Grade
30	N36		190	190.00	190.00		190.00	(100%)Sub Grade
31	R188	Shakti Marg	120	120.00	120.00		120.00	(100%)Sub Grade
32	R2	Main Road	-	300.00	300.00		300.00	(100%)Sub Grade
33	T3 Line 6A	Pandit Mrghnath Marg	220	220.00	220.00		220.00	(100%)Sub Grade
34	T2 Line 24C	Nava Jyoti Marg	205	205.00	205.00		205.00	(100%)Sub Grade
35	T2 Line 24D	Nava Jyoti Marg	210	210.00	210.00		210.00	(100%)Sub Grade
36	R63 (DSP Road)	DSP Road	420.00	420.00	420.00		420.00	(100%)Sub Grade
37	R90	Shakti Marg	450.00	380.00		380.00	380.00	(84%)Sub Grade
38	R77	Arniko Marg	80.00	80.00		80.00	80.00	(100%)Sub Grade
39	R76	Mitra Marg	270.00	270.00		270.00	270.00	(100%)Sub Grade
40	R183	Nava Jyoti Marg	240.00	240.00		240.00	240.00	(100%)Sub Grade
41	T1line 16B	Xenial Front	210.00	210.00		210.00	210.00	(100%)Sub Grade
42	T1line 16A	Xenial South	140.00	140.00		140.00	140.00	(100%)Sub Grade
43	Rani site B		600.00	520.00		520.00	520.00	(87%)Sub Grade
				Subbase)			
44	R24	Prabhat Marg	384.41	365.00	380.00	-	380.00	(99.00%)Su b Base



Regional Urban Development Project (RUDP)

45	R25	Devi Marg	599.00	580.00	580.00	-	580.00	(96.83%)Su b Base
46	R26	Pasang Marg	617.00	580.00	654.00	-	654.00	(100%)Sub Base
47	R27	Peepal Marg	810.00	580.00	810.00	-	810.00	(100%)Sub Base
48	R28	Pustakalaya Marg	635.00	343.00	343.00	-	343.00	(54.00%)Su b Base
49	Rani site	Rani	4,023.00	-	1,702.00	-	1,702.0 0	(42.3%)Sub Base
50	R37	Banglamukh i Marg	420.00	477.00	471.00	-	471.00	(100%)Sub Base
51	R65		282.00	320.00	320.00	-	320.00	(100%)Sub Base
52	R42	Bhagwati Marg	218.00	218.00	218.00	-	218.00	(100%)Sub Base
53	R104	VIP Marg	273.00	271.00	273.00	-	273.00	(100%)Sub Base
54	B1	Kanchan Marg	1,172.94	1,110.00	1,173.00	-	1,173.0 0	(100%) subbase
55	B2	Gauri Shankar Marg	2,777.83	1,233.00	2,152.00	-	2,152.0 0	(77.47%) Sub Base
56	S11	Samrat Marg	660.00	504.60	660.00	-	660.00	(100%) Sub Base
57	S13		1,616.26	1,435.00	1,417.00	-	1,417.0 0	(187.63%)Subbase
58	R12	Kanchha Dai Marg	1,192.00	660.00	837.00	-	837.00	(70.22%)Su b Base
59	R5	College Road	970.00	603.00	970.00	-	970.00	(100.00%)S ub Base
60	R16	Satya Marg	604.00	580.00	604.00	-	604.00	(100%)Sub Base



61	R21	Pratibha Marg	1,320.00	1,320.00	950.00	-	950.00	(71.96%)Su b Base
62	В3	Keshaliya Marg	1,574.00	560.00	1,574.00	-	1,574.0 0	(100%)Sub Base
63	R3A	Madhumara Marg	600.00	600.00	600.00	-	600.00	(100%)Sub Base
64	R107		173.00	215.00	215.00	-	215.00	(100%)Sub Base
65	R107 a		50.00	-	50.00	-	50.00	(100%)Sub Base
66	R5a		370.00	-	370.00	-	370.00	(100%)Sub Base
67	R22	Amar Marga	373.10	367.85	367.85		367.85	(100%)Sub Base
68	R7	Manakaman a Marg	814.00	242.00	242.00		242.00	(29.73%)Su b Base
69	R64	Satya Narayan Marg	121.00	121.00	121.00		121.00	(100%)Sub Base
70	R8		-	225.00	225.00		225.00	(100%)Sub Base
71	N36		-	190.00	190.00		190.00	(100%)Sub Base
72	R188	Shakti Marg	-	120.00	120.00		120.00	(100%)Sub Base
73	R2	Main Road	-	300.00	300.00		300.00	(100%)Sub Base
74	T3 Line 6A	Pandit Mrghnath Marg	-	220.00	220.00		220.00	(100%)Sub Base
75	T2 Line 24C	Nava Jyoti Marg	-	205.00	205.00		205.00	(100%)Sub Base
76	T2 Line 24D	Nava Jyoti Marg	-	210.00	210.00		210.00	(100%)Sub Base
77	R63 (DSP Road)	DSP Road	420.00	420.00	420.00		420.00	(100%)Sub Base



78	R90	Shakti Marg	450.00	380.00		380.00	380.00	(100%)Sub Base
79	R77	Arniko Marg	80.00	80.00		80.00	80.00	(100%)Sub Base
80	R76	Mitra Marg	270.00	270.00		270.00	270.00	(100%)Sub Base
81	R183	Nava Jyoti Marg	240.00	240.00		240.00	240.00	(100%)Sub Base
82	T1line 16B	Xenial Front	210.00	210.00		210.00	210.00	(100%)Sub Base
83	T1line 16A	Xenial South	140.00	140.00		140.00	140.00	(100%)Sub Base
84	R114	Dharanidhar Marg	560.00	560.00		560.00	560.00	(100%)Sub Base
85	R113	Kavi Lekhnath Marg	740.00	740.00		740.00	740.00	(100%)Sub Base
86	Rani site B		600.00	520.00		520.00	520.00	(86%)Sub Base
				Base				
87	B1	Kanchan Marg	1,172.94	1,110.00	1,106.00	-	1,106.0 0	(98.04%) Base
88	B2	Gauri Shankar Marg	2,777.83	1,233.00	2,152.00	-	2,152.0 0	(100%) Base
89	В3	Keshaliya Marg	1,574.00	560.00	1,627.75	-	1,627.7 5	(100%) Base
90	S11	Samrat Marg	660.00	504.60	504.60	-	504.60	(100%) Base
91	S13		1,617.00	1,435.00	1,417.00	-	1,417.0 0	(87.63%) Base
92	R114	Dharanidhar Marg	320.00	560.00	320.00	-	320.00	(100.00%) Base
93	R12	Kanchha Dai Marg	1,192.00	660.00	837.00	-	837.00	(70.22%) Base
94	R113	Kavi Lekhnath Marg	420.00	736.00	736.00	-	736.00	(100%) Base



95	R5	College Road	970.00	603.00	970.00	-	970.00	(100%) Base
96	R16	Satya Marg	604.00	580.00	604.00	-	604.00	(100%) Base
97	R21	Pratibha Marg	1,320.00	1,320.00	1,320.00	-	1,320.0 0	(100%)Base
98	R24	Prabhat Marg	384.41	365.00	365.00	-	365.00	(100%) Base
99	R25	Devi Marg	599.00	580.00	562.00	-	562.00	(96.82%) Base
100	R26	Pasang Marg	617.00	580.00	580.00	-	580.00	(94%) Base
101	R27	Peepal Marg	810.00	580.00	580.00	-	580.00	(71.61%) Base
102	R28	Pustakalaya Marg	635.00	343.00	635.00	-	635.00	(54.44%) Base
103	R37	Banglamukh i Marg	477.00	477.00	471.00	-	471.00	(100%) Base
104	R3A	Madhumara Marg	600.00	600.00	600.00	-	600.00	(100%) Base
105	R42	Bhagwati Marg	218.00	218.00	218.00	-	218.00	(100%) Base
106	R104	VIP Marg	273.00	271.00	273.00	-	273.00	(100%) Base
107	Rani	Rani	4,023.00	-	1,702.00	-	1,702.0 0	(42.30%) Base
108	R22		373.10	367.85	367.85	367.85	735.70	(100%)Base
109	R7		814.00	242.00	242.00	242.00	484.00	(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	т	73,860.00	21,964.65	1,840.00	23,804.65	32.23%
2	Sub Base	т	73,860.00	19,202.85	1,840.00	21,042.85	28.49%
3	Base	т	73,860.00	18,075.85		18,075.85	24.47%
4	Prime	т	73,860.00	13,819.20	300.00	14,119.20	19.12%
5	Asphalt	т	73,860.00	13,819.20	300.00	14,119.20	19.12%



3.4 ROAD SIDE DRAIN

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

SN	Road Number	Road Name/	Proposed	Progress ((m	-	Total to	Progress
314	Road Number	Location	Length(m)	Previous month	This month	date	%
1	B1	Kanchan Marg	-	90.00	-	90.00	100%
2	R29	Shanti Marg	620.00	513.40		513.40	83%
3	N36		-	371.75		371.75	100%
4	R8	APF	540.00	460.00		460.00	85%
5	R7	Pasang Marg and Pipal Marg	480.00	180.00		180.00	38%
6	R63	DSP Road		397.00		397.00	100%
7	R9	Baglamukhi path	240.00	208.00		208.00	87%
8	S13		110.00	110.00		110.00	100%
9	N33	Parichaya Marga	-	70.00		70.00	100%
10	R28	Pustakalaya Marg	640.00	278.00		278.00	43%
11	R90	Shakti Marg	620.00	678.50		678.50	100%
12	R114	Dharanidhar Marg	530.00	624.65		624.65	100%
13	R11	Om Shiv Marg		246.90	130.00	376.90	100%
14	R18		762.00	762.00		762.00	100%
15	R17		680.00	721.70		721.70	100%
16	R113	Kavi Lekhnath Marg	-	312.45		312.45	100%
17	R77	Arniko Marg	160.00	160.00		160.00	100%
18	R76	Mitra Marg	540.00	548.10		548.10	100%
19	N9	Devi Marga	445.00	445.00		445.00	100%
20	N4		250.00	292.75		292.75	100%
21	R33	Tarun Marg	354.00	332.60		332.60	94%
22	R36	Gaurav Marg	450.00	432.90		432.90	96%



		Road Name/	Proposed	Progress (m	•	Total to	Progress
SN	Road Number	Location	Length(m)	Previous month	., This month	date	%
23	R86	Janpath Marg	400.00	367.40		367.40	92%
24	R183	Nava Jyoti Marg	440.00	390.00	32.10	422.10	96%
25	R7a		132.00	130.00		130.00	98%
26	Rani site	Rani B	340.00	552.95	146.65	699.60	100%
27	Rani site	Rani A	200.00	270.00		270.00	100%
28	N3		450.00	190.00		190.00	42%
29	N5		76.00	130.00		130.00	100%
30	R21	Binayak Marga	207.00	260.00	100.00	360.00	100%
31	R2	Main Road		858.03	276.97	1,135.00	100%
32	Xenial Front (T1L16B)		440.00	411.35		411.35	93%
33	Xenial South(T1L16A)			152.05	166.55	318.60	100%
34	R75	Tintoliya Marga	135.00	255.00		255.00	100%
35	R122	Amar Marga	268.00	500.95		500.95	100%
36	N5			50.00	80.00	130.00	100%
37	R7b	Siddhartha Marga		70.00	40.00	110.00	100%
38	R12	Sukra Path		50.00	60.00	110.00	100%
39	R42	Jahada Marga		90.00	60.00	150.00	100%
40	R6	Shanti Marg		376.15	303.85	680.00	100%
41	R21(a)	DharamBadh Junction		160.00		160.00	100%
42	R78	Binayak Marga		70.00		70.00	100%
43	R188	Shakti Marg		115.60		115.60	100%
44	R40	Brahma Kumari Marga		440.00	160.00	600.00	100%
46	Rani Site C			97.50		97.50	100%
47	Ranit Site D			111.45	20.00	131.45	100%
49	T3L21	Moti Marga			570.00	570.00	
50	T3L39	Gaheli Marga			390.00	390.00	



SN	Road Number	Road Name/	Proposed Length(m)	Progress ((n	-	Total to date	Progress
	Road Number	Location		Previous month	This month		%
51	T2L27	Bhumi Prashasan Junction			90.00	90.00	
			26,050.00	14,334.13	2,626.12	16,960.25	65.11%

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 used in Drainage and Sewer work Locations.

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

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

3.7.1 DISBURSEMENT RECORDS IN CONSTRUCTION

SN	Description of Payment	Total Bill Amount with VAT & PS	Remark							
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								
	Grand Total =	935,445,691.11								

4 OBJECTIVES AND SCOPE OF WORKS

4.1 OBJECTIVES



The following are the expected physical infrastructure improvement outputs of the project in Biratnagar:

- Drainage and sewerage systems improvement.
- Urban roads and lanes improvement.

Reference to the deliverables identified in the Project, indicates that there are a number of deliverables related specifically to the design aspects of the above infrastructure improvements with construction works.

4.2 SCOPE OF WORKS

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

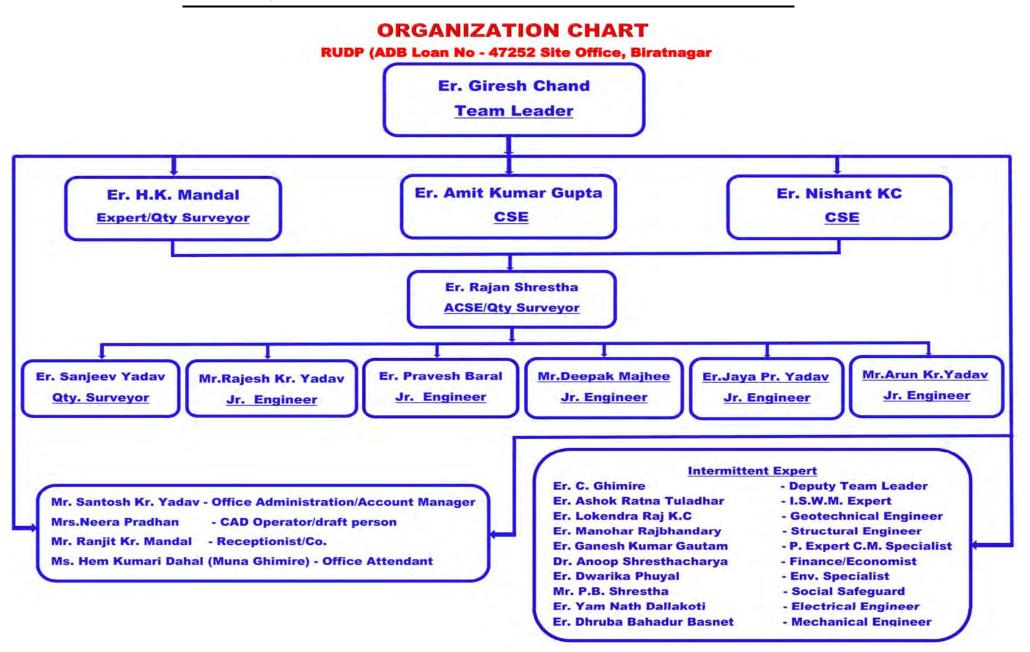
- Detailed Design and Procurement Assistance Phase for integrated solid waste management design (ISWM)
- Monthly progress report and quarterly progress report.
- Semi- annual Environmental monitoring report.
- Semi-annual Safeguard monitoring report.
- Annual progress report including annual Environmental / Social safeguard monitoring report, assets.
- Detailed draft final report for our puts, including to assist the PIU (Employer), status of all supervision and construction works issues, all deliverables under the contacts.
- Sub project completion report, and summary of all other reports, progress and issues under the project.



4.3 ORGANIZATION AND STAFFING

Attached





4.4 CONSULTANT'S ACTIVITIES IN CONSTRUCTION PHASE

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

Table 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	1 st Nov 2017	
6	J.P Yadav	Construction Supervision Engineer	1 st March 2018	Discontinued the service since 25 th April, 2018.
7	A.K Gupta	Construction Supervision Engineer	1 st 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	1 st March 2018	
17	Deepak Majhi	Junior Engineer-4	1 st March 2018	
18	Arun Kumar Yadav	Junior Engineer-5	16 th March 2018	
19	Neera Pradhan	CAD operator/Draft Person	10 th Dec 2017	
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.

	Target This Month		Achievement This Month		Leading		Lagging		
Month	Monthly	Accumulated	Monthly	Accumulated	Monthly	Accumulated	Monthly	Accumulated	Remarks
May-									
18	5.17%	24.88%	4.57%	22.07%			-0.60%	-2.81%	Lagging
June-									
18	0.15%	25.03%	2.32%	24.40%	2.18%			-0.63%	Lagging
July-									
18	0.15%	25.17%	1.63%	26.03%	1.48%	0.86%			Leading

5.2 Progress Achieved Till date

5.3 Key Events

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

Table 8: KEY DATES of EVENTS / ACTIVITIES

S. No.	Date	Activities/Events	Remarks
	Weather Reports		
1	Tuesday, July 24, 2018	Activities Disturbed due to Rainfall	
2	Wednesday, July 25, 2018	Activities Disturbed due to Rainfall	
3	Sunday, July 29, 2018	Activities Disturbed due to Rainfall	
4	Monday, July 30, 2018	Activities Disturbed due to Rainfall	
5	Tuesday, July 31, 2018	Activities Disturbed due to Rainfall	
	Strike		
6		No Strike registered during the month of July	
	Site visits		
7		Officials of Project Implementation Unit(PIU) have conducted frequent visit to the site during the month of July, 2018	



S. No.	Date	Activities/Events	Remarks
		Due to Socio Environment Problem, the	
		consultant is not able to process for design	
8		of Integrated Solid Waste Management	
		(ISWM) as per discussion. Employer took	
		initiation to solve the problem of ISWM.	

Weather Reports sourced by:

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

Station Located at Biratnagar Airport



6 DETAILS OF PRE CAST ACTIVITIES.

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

Physical Progress till July 2018							
			Progress				
S.N.	Descriptio n	Unit	BoQ	Up to Previous month	This Month	Total to Date	Remarks
1	Precast Slab	No		27,599.00	2007.00	29606.00	Under progress
2	Kerb Stone	Rm	147,729.68	38,997.00	14188.00	53185.00	36%

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

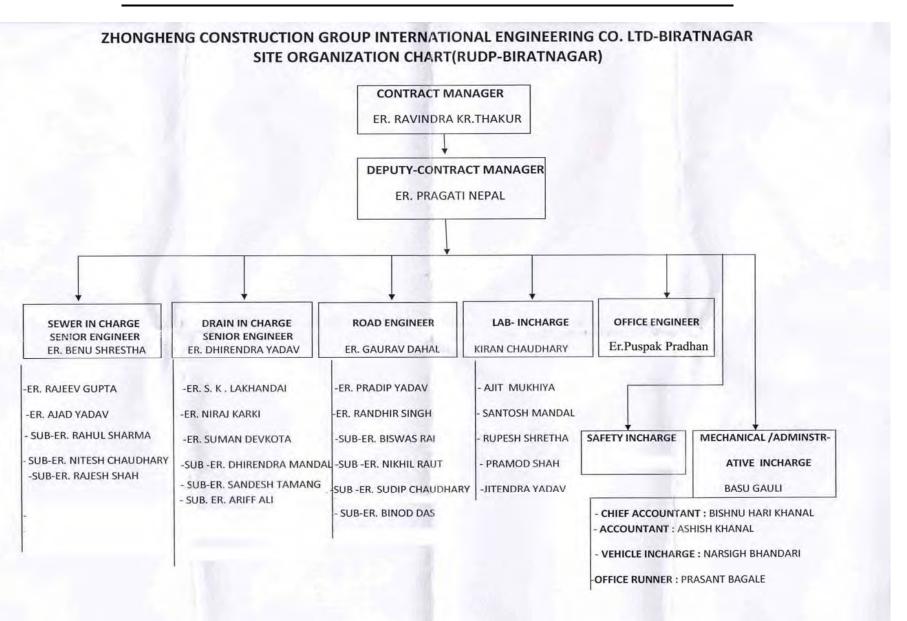
	Physical Progress till July- 2018							
				Progress				
S.N.	Description	Diameter (mm)	BoQ (RM)	Up to Previous month (RM.)	This Month (RM.)	Total to Date (RM.)	Remarks	
1	RCC Pipe	300	336.00	336.00	-	336.00		
2	RCC Pipe	450	681.00	681.00	-	681.00		
3	RCC Pipe	500	842.00	842.00	-	842.00		
4	RCC Pipe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



	Physical Progress till July- 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							

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







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7 CONTRACTOR'S MANPOWER

Table 13: CONTRACTOR'S KEY STAFFS in July, 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		39	
14	Unskilled Labors		159	

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 July, 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	4	Among 4nos., 2ton rollers-2nos.
6	Pneumatic tyre roller 8 to 10 ton	2	1	
7	Smooth wheeled roller 8 to 10 ton	1	1	
8	Grader	1	2	
9	Track Dozer (120 to 180 HP)	1	-	
10	Bitumen distributor (4 to 6 Kilo 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	10	
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	-	



S.No	Equipment Type and Characteristics	Min Number required as per Contract	ZHONGHENG CONSTRUCTION Group	Remarks
23	Concrete pump	1	-	
24	Drain cleaner/ Nala cleaner	2	-	
25	Broomer	-	2	
26	Motor Bike	-	10	
27	Plate Compactor	-	6	
28	Water Pump	-	6	

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 R90/Rani/B2/R3
- Precast production works at contractor's yard.
- Side drain works.
- Laying of kerb Stone and cover slab.
- Sewer inlet and House Connection works.



ANNEX-1: Photographs of July, 2018





Subbase work at R2



Sub base work at T1L16B (Xenial Front)





RCC Drain works at R6



Drain work at T2L27





Concreting of Top Slab at Chyangbari Nala



Concreting work at Chyangbari Nala





Sewer inlet works at R63 (DSP Road)



Existing Drain clearance work





Joint crushing of cube mould at Lab



Joint surveying work



ANNEX-2: Minutes of Meeting July, 2018





Contract: Regional Urban Development Project (RUDP), Biratnagar

Date: 05 July 2018 Time: 04:00 PM Venue: RUDP Consultant Office, Bargachhi, Biratnagar

Attendance

Em	ployer:	
1	Mr. Bharat Kumar Nuepane	Project Manager (PM), PIU
2	Mr Prakash Narayan Chaudhary	Depurty Project Manager (DPM), PIU
Cor	nsultant:	1.0
1	Mr Giresh Chand	Team Leader, DSC
2	Mr. Hare Krishna Mandal	Quantity Surveyor Expert, DSC
3	Mr. Nishant K.C.	Construction Supervision Engineer, DSC

Viewing the Rainfall of Monsoon, the following discussion/decision has been taken regarding Road maintance:

S. NO.	Minutes	Action by
	Mr. Giresh Chand, TL welcomed all the Participants and elaborated on Present Status of the Project stating the Progress Graph of the Project. Road completed (Asphalt)-13.819 Km Sewer Line completed- 12.059 Km Road Side Drain completed- 11.487 Km Storm Water Drain completed- 530 m. As a whole 24.40 %.	The Employer, Consultant & Contractor
	Mr. Giresh Chand, TL further emphasized stating that viewing the Monsoon Period this year, the Contractor was instructed to make every possible attempt to make the Road movable throughout this Monsoon Period.	
1	Mr. Bharat Kumar Neupane, PM, stated that he was also considerate regarding movability of Traffic in order to facilitate the Public of Biratnagar. He also showed his concern regarding Road Maintenance at such locations wherever movability was affected. It was also stated that the Side Drain as well as storm water Drain should be cleared so that any type of stagnant water damaging the Pavement surface would be avoided.	The Employer, Consultant & Contractor
	Mr. Giresh Chand,TL stated that in such case he had instructed the Contractor to fill the Road surface with Ordinary filling as there was no provision of Road Maintenance stated in Bill of Quantities. Regarding stagnant water on the Road surface he stated that the Contractor was instructed through many correspondences to clear the Road side Drain as well as Storm water Drain in order to avoid any type of stagnant water on the Road Surface Damaging the Pavement Structures which the Contractor was carrying out but in very slow pace.	The Employer, Consultant & Contractor



1

S. NO.	Minutes	Action by
	Mr. Bharat Kumar Neupane, PM, stated that Ordinary Filling was not a remedial Measures as continuous Maintenance would be required with continuous Monsoon Rainfall. Further it was stated that the Graveled Material would be remedial Measures.	Action by
	Mr. Giresh Chand, TL, replied that Road Maintenance with Graveled Materials would be instructed to the Contractor but the problem was provisions of payment as there was no provision of payment in Contract for such types of Maintenance.	
	Mr Bharat Kumar Neupane. PM stated that the arrangement of payment would be made from any source either it would be from the Provisions made in BoQ or others. He further added that Mayor Mr. Bhim Parajuli was also considerate about Road Maintenance due to which Mayor had instructed PIU for prolonged bearable Maintenance and Gravel was only a solution to Maintenance whereas regarding payment he would any how provision for.	
	Mr. Giresh Chand, TL. thanked all the participants and closed the meeting.	
	(and RUDD and RUDD AND AND AND AND AND AND AND AND AND A	
	RUDP * 0	



ANNEX-3: Laboratory Test Results of July, 2018 Attached



			REGIO	ONAL URB	AN D	EVEI	LOPM	ENT	PROJ	ECT			
							olitan C CB/BRT						
1				Summary Sheet o	f Month	ly Test R	eport of	Cancrete	Sand	+			
									1	Mon	th	Ju	ily
										Yea	r	20	18
										Type Mater		Cancre	te Sand
		Date of	Location of]	Sie	ve Size in 1	nm / % P:	ussing by w	eight		Clay	1
S.n. 	Lab.Ref no.	Test	Sample	Source of Sample	10	4.75	Z.36	1.18	0.600	0.300	0.150	Conterni	Remarks
1	REDP-CS-110	2-568-181	8-2	Chisang Khola	10000	92.54	67.20	1 52.47	19.75	- 831- I	3.54	1 8.42	
2	RidP-CS-111	3361	8.6	Chisang Khola	109.00	95.32	67.38	54.71	0.0647	10.72	5.34	1. 8395.1	
3	RUDP-CS-112	5.5533	T31.39	Chisang Khola	109.00	91.63	77.83	42.11	29.48	16.56	4.95	1.52	
+	RUDP-CS-115	- 5-3-341	R-90	🕴 Chisang Khola	100.00	93.00	1 35.ST	- 52.JJ	27,91	37.63	- 5.64	1 5.70	
5	RUDP-CS-114	8-3-6-28	8-2	Chisang Khola	100.00	95.99	65.22	1 54-88	31.45	5.00	1.35	1 145	
	RUDP-CS-115	8-5-13	En Callad	hisang Khola	100.00	94.43	66.90	1 51.11	32.26	24.55	5.38	0.50	
- 7-	I REAL OF THE PARTY OF THE PART	9-14-25	R-16-	Chisang Khola	100.00	92.63	62.80	51.30	29.75	36.85	3.54	9.58	
	RUDP-CS-417	10-111-18	Madianata Tard	Chisang Khola	100.00	.94.07	73.91	53.94	\$1.74	- 1686 ·	3.68	8.35	
9		11-36-34	CAMES	Chisang Khola	00.001	92.98	1 預15	9.75	- 26 M	14:05	6.54	0.39	
1.10	1	11-起-湖	3.0	Chisang Khulu	100.96	94.54	57,48	35.66	2806	15.68	8.02	1 20	
1.1	RUDP-CS-120	11-Jul-18	R-6	Clise g Khols	100.00	92.99	20190	61.45	30.99	-00.94	4.93	1 2.47	
12		12-Jul-18	DDC-Fast	Chisang Khola	1703.98	94.36	67.14	36.52	53.67	14.09	1.51	1.32	
13		13-Jui-18	限-11	Clising Khola	100.00	91.50	58.69	40.57	.26.06	12.46	1.87	1.51	
14	RUDP-CS-123	16-Jul-18	131.38	Chang Mark	390.00	98.15	01.83	59.47	32.60	10:43	4.51	1.82	
151	RUDP-CS-124 RUDP-CS-125	17-Jul-18 19-Jul-18	R-18	Crissing Khola	180,00	95.22	3.89	42.17-	25.98	11.33	7.13	1.53	
17	RUDP-CS-126		R-11	Criscilg About	100.00	.95.79 36.77	5.89	58.30	30.85	17.35		1013304	
1.5	KULM-CJ-120	245-310-10-	10600	realig Kouta	1903.0		2 13.02	000	32.30	12.73		1 1	
				Spec. Limit :	109	90~100	60~95	30-70	15-34	5-20	0-10	<3%	
			Contractor						0	onsultant	t		
" 2	CHONGHENG		RUCTION GROU		NAL		N.CON	SULTAP	KCY PVI	. LTD A	ND PLU	S ENGINE	ERS &
#×	ladhan	E CALLER CALLER	Service And	ontractor TION GROUP INTERNATIONAL RENG CO. LTD BUILDING DESIGN AUTHORITY (P) LTD IN JOINT VENT BN. CONSULTANCY PVT. LTD AND PLUS ENGINES ARCHITECTS (P) LTD, KATHMANDU, NEPAL ARCHITECTS (P) LTD, KATHMANDU, NEPAL	H.								
Che	cked By			Submitted	By	Verif	ied By					Approved	By
	incer			Contract Man									



			REGI	ONAL URB.	AN D	EVEL	OPM	ENT	PROJ	ECT			
						Metropo - RUDP/I							
				Summary Sheet of					Sand				
		5				1				Mon	th	Ju	lv M
									-	Yea	r	20	
										Type Mater		Cancre	e Sand
		Date of	Location of		1	Sie	ve Size in n	nm/%Pa	ssing by w	eight		Clay	/
	Lab.Ref no.	365	Sample	Source of Sample	190	* 35	2.36	1.18	0,600	0.300	0.150	Canternet	Remark
-	RUDP-CS-107		2.6	Chisang Kiloia	100.00	92.76	68.90	39.36	31.46	14.28	6.97	6.382	
19	RUDP-CS-123	1	R-21	Chisang Khola	100.05	93.25	65.32	35.28	26.27	16.81	6.82	1.76	
20	RUDP-CS-129		R-11	Chisang Khola	100.05	94.35	22.21	52.45	26.30	15.75	5.94	0.50	
28	RUDP-CS-130		DDC-Yard	Chisang Khola	100.00	91.60	67.17	53.34	24.09	14.32	528	1 6.29	
22	RUDP-CS-131 RUDP-CS-132		T3L39 Ca2Ca3	Chisang Khola Chisang Khola	100.00	93.05	70.62	56.11	31.49	16.97	1.58	1.40	
				Spec. Limit :	100	≫ -100 -	69-95	34-70	15-34	5~20	-10	<3%	
			20110201021			1						/	
Z	HONGHENG		Contractor	UP INTERNATIO LTD	NAL		N. CONS	SULTAN	THORFI CY PVT	LTD A	TD IN JO ND PLU	DINT VENT IS ENGINEI DU, NEPAL	
	adkan	A REAL PROPERTY OF THE OF	Contraction Carl	h		Ú.	1 the		()			8	
	eked By ineer			Submitted I Contract Man		'Verifi	led By					Approved	Ву
	IDOOP			Contract Vian	MORT		neer/CSE					Team Lead	



					REGIONAL	L URBAN	DEVELOPM	IENT PR	OJECT			
					1	Biratnagar	· Metropolita	n City				
					Co	ntract No	: RUDP/ICB	BRT-02				
					Daily Appli	cation Ra	ate Check f	or Primin	g work			
voelo	of Bitume	n:80/100	P.G				HE MONTH					1
		age:MC 70										
SN	Location	Date of		ation	Side of	Area of	intersection	Total	Bitamen /	Application Rate	Application Rate	
NO		Prining	From	0 - 0	Priming 2	Printing	Area m2	Area M2	Consumption (Itr)	By Dip Litim2	Bt Tray Test Litim2	
10	R-27	14-34-18	0+000	0+310	Both Side	1240	1 · · · · · · · · · · · · · · · · · · ·	1240	1360	1.05		
-												
-												
-								1				
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-												
-			-									
1												
		Require	d specif	ication fo	r Prime coa	at 1.0 Lit/	M2±5%	Specific (Gravity of Bit	umen 1.019	/	
			Cont	tractor					Cons	ultant		
	ZHONGH			ON GROUF	INTERNATIO	NAL			LTD AND PLUS		VENTURE WITH I & ARCHITECTS (P	
Wa	dhan		THOMONY #	t un 10 - 00		1	Didas	17			8	
hecke	d By				Submitted By	pu	Verified By				Approved By	
ngineer	r				Contract Manage	er	QTY Engineer	CSE			Team Leader	



						Biratnas Contract 1	N DEVELO gar Metropo No: RUDP/I Rate Cheo	olitan City CB/BRT-()2			
ype c	of Bîtume	:n:80/100	P.G				THE MONTI					
S.N.	Location 	Date of Tack coat	From	ation to	Side of Tack cost	Area of Tack coat	Intersection Area m2	Total Area M2	Eitumen Consumption	Application Rate By Dip Lit/m2	Application Rate Bi Tray Test Lit/m2	
1.	8-27	15-Jul-18	0+000	0+310	BHS	1240	0	1240	855	0.69	0.66	
					1							
											-	
-												
											4	
	Sub-	Clause	No.130	2,Standa	ard Spect	ication R	oad And	Bridge	2073-Tabl	ie No. 0.5	to 9.6	1
					Specific	Gravity of	Bitumen	1.019			1	r
				Contracto	r Call			-		Consu	ultant	
HON	GHENG	CONSTRU	CTION GR	ROUPINTE	RNATIONAL	ENGINEERIM	IG CO. LTD		ANCY PVT.	LTD AND PLU		ENTURE WITH B.N. & ARCHITECTS (P)
Na	Man						0,	Dida	a the			8
hecke						Submitted By Contract Mana		Verified By QTY Enginee	CSE			Approved By Team Leaster



		Project:F SUMMARY								RUDP)				-	
SA COS		and the second sec	F	OR THE	MON	TH OF	JULY 2	2018		and an and a state of the	1	der marte de			
		Test R	esult 8Y			and the second s			O T 245	-78] -	/				
	T		Contra	ct Pack				02						-	P.g 1of 1
LAB	Date of	1				Agg Gra	dation Sizes mu	π		Bitumen Content	Mix				
	Leing	Location of Work ch:	20	16	9.5	4.75	2.36	0.6	0.075	From Extraction Test %	Bensity gm/cc	Air Voids %	VMA %	N N	Flow mm
34	15/7/2018	8.37.Line (8.4 400 to 8-310	1 100	100	76.65	54.80	35.28	17.45	6.31	5.75	2.362	3.61	16.86	13408	2.45
		Specifacations	160	100-160	76-42	54.59	31-37	16-21	ŝto 9	5.703	Min2.358	, 367,	215	2 8500	/ 23
-	ob Mix Tolera	nces from RUDP Specification Table2-4-10	1 15%	NEI	±5%	±3%	\$2%	±1%	Nill	20.3%	For (25-51)mm	Thicknes	s WC Cc	urse
6	onducted /R /Sr,Lab Tr Lab Teo Kalika Co	Contractor leport Prepared by: echnician struction istee Lab JUDI	c	Submittee ontract Ma ng Constr onal Engin	anager ruction Gr		2		BUILDING	h 8.N. Co	Verified	PVT LTF	AND PLU	IS Engine	



				un or or		ratnagai			MENT PI	NOOL C.				
						ntract No			and the second se					
						SUMMARY S								
					-				/		Mont	h	IL	uly
								-			Year	-	20	018
10	Lab	Type of		Consista	incy & Setting	Time	l Sounoness) Energess		Date of	Testing	Streng	th N/mm?	
S.N.	Ref.no.	cement	Tetsing Date	Normal Cons.(16	i Initiai(Min)	i [Final (min]	(mm)	(%)	Date of Casting	7 Days	28 Days	17 days	28 Days	i Remark
1	6	Selimer OPC	5-Jun-18						6-Jun-18	13-Jun-18	4-Jul-18		46.10	-
2	7.1	Salimar OPC	14-Jun-18	ł		1			15-Jun-18	22-Jun-18	13-14-18	+	45.89	-
3	8	Salimar OPC	22-Jun-18			1			23-Jun-18	30-Jun-18	21-54-18	1	48.97	1
4	9	Salimar OPC	3-Jol-18	38.75	96	265	1.54	2.76	3-Jul-18	10-Jui-18	31-jul-18	35.22	46.40	
5	10	Salimar OPC	7-Jul-18	28.50	97	263	1.75	2.18	8-Jul-18	15-14-18	5-Aug-18	35.93	-	
6	11	Salimar OPC	7-Jul-18	29.50	95	261	2.02	2.66	8-Jul-18	15-14-18	5-Aug-18	38.04		
7	12	Salimar OPC	12-Jul-18	29.00	92	259	2.02	2.66	12-Jul-18	19-341-18	9-Aug-18	36.23		
	-	Sp	Limit:		Min-45	Max-600	<10	<10	1			>33	>43	-
			Cont	ractor			1			Consultar	t	-	-	_
	ZHON			DN GROUP IN NG CO, LTD	TERNATI	ONAL			SIGN AUTHOR PVT. LTD AN KA		GINEERS &			



		R	EGIONA	L URBA Biratna <u>Contrac</u>	Igar	Metr	opol	itan	City	,	PR	OJE	СТ	1			
1				Summary	Shee	t of Mo	nthly 1	Cast D	anort	4							
					- one		inting ,	Lest R	choit					Mo	ath-	1	July
														Ye			2018
				L	ocat	ion :-	R-90)							e of		ub-base
		Location of	1	1.0	1		Size in		assing.	% Re W	laidet	-		Mate	mai		uo-uase
Sn.	Lab.Ref no. 1	Sample	Source of Sample	Date of Testing	65	40	1.1	E	2 3	1		1.1	MOD	OMC	P2%) CBR%	Remarks
1	RIIDP-SB-01	D 05 (5) 1075	1.05	Ì	1		20	10	4.75	1	1	0.075	Í	ł		[Namadas
2	RUDP-SB-00	R-90.(0+100) R-90.(0+100)	Chisang Khola Chisang Khola	16-Jal-18	101	5				35.32					2.43	r 1	
3	RUDP-SB-02	R-90.(0+100)	Chisang Khola Chisang Khola	16-Jui-18	101	\$ 36.36				32.42			2.196	5.10	2.57	42.80	1
		8-20.1071001	Cilisang Knoga	17-Jul-18	100	38.89	72.06	52.94	35.07	28,60	18.85	6.19			2.89	1- N	/
1						-		_	-								and a second
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				1	1.1.1				-		-	-	-	-			
			10.00		$1 \rightarrow 1$			1.1							-		
			1		0	-											
			1	-									64.1.2				
			1				_			1.00							5.51.51.51
								1	-		-				-		2
	1										-	-	-				_
-				Spec. Limit :	100	70~100	50~85	40~75	30-60	20-45	15-37	4-15	-			l.	
ZHO	NGHENG CON	Contr STRUCTION CRO	actor	AL FNCINFFR	INC		SUILDI	NG DE	SIGN	AUTH	ORETY	onsult: (P) LT	D IN RO	INT VE	NTIO	RE WITH	IBX I
		CO.	ETA CILL			CC	ONSUL	FANCI	Y PVT.	LTDA	ND PL	JUS EN	GINEEI , NEPAI	RS & AF	кснп	TECTS (F	P) LTD,
Do		SHORENESS \$	ano one	Submitted By		1	Verified	By	*						9	R	
ngine	er		С	ontract Manager			Qty Engi		er							ved By Leader	



0		R	EGIONA	Biratna <u>Contrac</u>	igar t No	Metr	opol OP/IC	itan B/Bl	City RT-02		PRO	OJE	СТ				
				Summary					cport					Ye	nth: ar		July 2018
1			1		ocat	ion :-							_	Mate	erial	S	ub-base
Sn.	Lab.Ref 10.	Location of Sample	Source of Sample	Date of Testing	-		0 I		assing '				MDD	i I GMC	PIS	CBR%	Remarks
	RUDP-SB-01				1 53	40	20	10	4.75			0.075					
2	RUDP-SB-02	R-76(0+150) R-76(0+250)	Chisang Khola Chisang Khola	13-Jul-18 13-Jul-18	100	90.31	75.95		41.74	6	1	7.68	1.199	5.30	1.66	40.50	
		10100 2301	I Chising Risen	124242460	100	92.91	1 /9/10	60.61	41.04	51.85	21.83	5.85	-		2.81	1 1	
		12	1	1		Î	1	1	1		Î		-	1	1	1 1	
-]		1	l					1								
-			1							1			1.		2.4.2		
	_	State In Colored			l l								-				-
-1				a constant	[-			1
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					-	1		-									
			1						-	-	-		-				
	1		1											-			
				Spec. Limit :	100	70~100	50~85	40~75	30-60	20~45	15~37	4~15					
		Cast	ractor														
		and the second second		And the second second	-	 ,	DITT	NCD	POLON			onsult					
THO	NGHENG CON	CO.	LTD	AL ENGINEER	ING	C	DNSUL	TANC	Y PVT.	LTD	ND PI	LUS EN	GINEE , NEPA	RS&A	RCHI	RE WITH TECTS (1	1 B.N. P) LTD,
l hecke		Station of the state of the sta		Submitted By		1	Verifie	d By	+."				i.		4 	B	
l Thecke Engine				Submitted By			Verifie Qty Eng		.						Appro	ved By	



		R	EGIONAL	URBAN Biratnag <u>Contract</u> Summary S	ar N No:-	Aetro RUDI	polit P/ICE	an C B/BR	Сіty Г-02	T P	RO	JEO	T				
				Location :-H						-feb				Mon Ye Typ	ar		July 2018 ub-base
		Location of	1	1					essing (Veight		-	[man	araat		
9	Lab.Ref 20.	Sample	Source of Sample	Date of Testing	63	40	20	10	5	2.36	100.	0.075	MDD	OMC	PB6	CBR%	Renarks
13	RUDP-SB-M	Rani-Size (0+100)	Chisang Khola	20-Jul-18	100	95.80	75.32	55.25	-	1	35.45	1.1.1.1	2,159	5.70	135	45.90	
2]	RUDZ-SE-02	Rami-Site (0+100)	Chisang Khola	31-348-18	109	92.28		-	45.96					i	2.4	40.90	
		and the second second	-		1				1							1	8
					1	-	_	-	-								
		and the second second	1		-		-	-								-	
-	1	In the state of the second													1		
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	-			1						l.				-			
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					-		-										
_													10.1				
							-										
				Spec. Limit :	100	70~109	50-85	40~75	30~60	20~45	15~37	4~15	1				
	_	Contr	actor									Consult:		_			
2H	ONGHENG CO	NSTRUCTION GROUP		ENGINEERING	. CO.	ά	BUILD INSUL	ING DI TANC	ESIGN X PVD	UID.	AND PI	LUS EN	D IN JC GINEE , NEPA	RS & A	ENTU. RCHI	RE WITI TECTS (H B.N. P) L TD,
	a <u>dhan</u> thed By neer	Annual Annua	a constant	Submitted By	r		Verifier Qty Eng		A LE CSE							Ved By Leader	



				Biratnaga	r Met	ropolita	n City						
				Contract N						1			
		-	Com	and a second sec					/				
			-2011	umary Sheet of M	onthly 1	est kep	OFT OF ZI	Jmm Ag					
									Mo			and the second se	ıly
									Ye				018
									Type of 1	Material		20 mr	n Agg
Sa.	Lab.Ref no.	Date of	Location of	1 I Source of Sample	Sieve S	Size in mm	/ % Pass	ing by	T. C. L. DC	-	are -		
3.8L	and the second	Testing	Sample	1 Source of Sample	· 40	1 20	10	4.75	LAA%	Fl and El	26	A.I.V.%	Remar
4	RUDP-CA-110	1-Jul-18	E-98	Chisang Khola	100.00	97.12	35.52	1.44	23.12	18.6014.	80	12.27	1
2	RUDP-CA-111	1-Jul-18	R-40	Chisang Khola	100.00	97.00	40.24	4.66	26.90	17.8716.	.13	21.73	1
3	RUDP-CA-112	2-348-18	R-40	Chisang Khola	109.00	97.16	39.19	2.84	25.12	17.8%15.		22.21	
4	RUDP-CA-113	2-34-18	T3L39	Chisang Khola	106.00	97.09	35:47	3.14	26.24	19.59 18.		36.77	
5	RUDP-CA-114	3-3-18	8-1	Chisang Khola	100.00	96.67	40.36	2.13	25.94	18.8411.		21.65	
6	RUDP-CA-115	4.54-12	T3L21	Chisang Khola	100.00	96.49	51.64	6.07	22.88	19.15/14.		22.14	
74	RUDP-CA-116	5-Jul-18	R-2(Branch Read)	Chisang Khola	100.00	98.27	44.80	6.34	24.02	19.54/18.		22.17	
8	RUDP-CA-117	9-Jul-18	R-21	Chisang Khola	100.09	98.51	38.66	4.08	26.24	19.55/16.		19.78	
10	RUDP-CA-118 RUDP-CA-119	10-Jul-18	R-11	Chisang Khola	100.09	96.30	37.97	3.53	24.32	19.03/17,		21.83	-
10	RUDP-CA-120	13-Jul-48 14-Jul-18	R-6 RaniSite	Chisang Khola Chisang Khola	100.00	96.69	33.45	4.18	26.84	19.4808.		21.16	
12	RUDP-CA-121	15-Jul-18	Ramsne R-7	Chisang Khola	100.99	90.97	32.25 33.44	5.98	26.30 29.06	18.43/13.		30.10	
13	RUDP-CA-122	15-Jul-18	Madhumara-Yard	Chisang Khola	100.00	96.14	45.43	4.94	23.00	19.9910.	_	21.95	
14	RUDP-CA-123	16-341-18	DDC-Yard	Chisang Khola	100.00	96.62	43.51	3.38	23.12	20.14/16:	_	19.28	
15	RUDP-CA-124	17-3-18	200-100	Chisang Khola	100.00	96.55	45.57	3.41	28.04	20.02/18.	_	20.72	
16	RUDP-CA-125	19-36-18	8.7	Chisang Khoia	109.00	97.28	40.01	4.06	28.68	19.6838		22.01	
17	RUDP-CA-126	20-34-18	Ca2Ca3			1		200 0				-	
18	RUDP-CA-127	22-14-08	Madhumara-Yardi	Chisang Khola Chisang Khola	166.00	97.42 97.50	33.05 40.13	2.56	25.04	19.15/15/		21.39 17.91	
100	Rela-Caraci	12-242-040		Canoding Aliked	1997.00	97.30	40.1.5	2.12	20.30	21.91/160	84	10.94	
		p		Spec. Limit :	169	95~100	25~55	0~10	<35	<3	-	<25	1
			Contractor				_		Co	nsultant	-		
	ZHONGHEN		UCTION GROUP	L.		B.N. C(ONSULT	AUTHOR FANCY PY TS (P) LT	T. LTD A	ND	PLUS EN	GINEERS	
61 Chec	Yadhan eked By			Submitted By		Verified	BY	1			i i	Appro	B ved By



		F	REGIONA	L URBAN E	DEVE	LOP	MEN	T PR	OJEC	T		
				Biratnagar	Metro	nolitan	City					
				Contract No								
			e	uary Sheet of Mor								
			Suin	uary sheet of stor	nny re	si nepor	01201	ini Agg	Mo	ath	July	
									Ye		2018	
									Type of I		20 mm	
	1	Date of	Location of	1	Sime	ize in mro	1.94 Par	ting he			1	I
S.n.	Lab.Ref no.	Testing	Sample	¹ Source of Sample	40	1 20	1 10	4.75	LAA.%	Fland EL 3	8 [A.I.V.%	Remark
19	RUDP-CA-128	23-Jul-18	R-6	F Chisang Khola	109.00	97.81	37.74	3.78	23.10	18.51-17.58	19.94	1
20	RUDP-CA-129	23-Jul-18	R-18	E Chisang Khola	109.00	97.40	3636	1.3.81	24.70	18.91/15.49		-
21	T	14-hd-18	8-11	Chisang Khola	109.00	95.20	30.58	4.26	22.88	18.7416.33		
22	RUDP-CA-131	25-308-18	T31.21	🕴 Chisang Khôla 🕕	109.00	96.01	43.68	2.23	21.72	1 20.39/19.13		
23	RUDP-CA-132	25-Jul-78	8-0	Chisang Khola	100.00	97.40	39.02	2.70	24.64	39,9956.91	18.61	1
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				Spee. Limit :	100	95~100	25-55	0~10	<35	<25	<25	
			C			1			0	(
			Contractor			-		DEOL	Consu			0 F1
							ORITY (P)					
	ZHONGHENG	VAL					RELTANCY		,			
		ENGINE	ERENG CO. L	ED		1. 1	PLUSI			RCHITEC		D, /
			400	250	KA	THMAN	DU, NEPAL		1			
1	V II.	108	N. V.	1 Ell		1	Y.				V	
10.	Jadhan		Salar in march	then		N	1'				0	
Che	cked By			Submitted		Verifie		-			Approve	đ Bş
	ineer			Contract Mana		Qty Engi					Team Le	



Page 52 of 83

			ALL OTOTA	Biratnag Contract	ar Metropolita No:- RUDP/ICB/	BRT-02	CT	
						-	Month	July
							Year	2018
5.N.	Lab Ref.No.	Testing Date	Location of Sample	Source of Brick	Name Of Brick	Nator Abcorntion of Balaking	Type of Material	Brick
1	10	02-Jul-18	R-11	Katahari	Aakash	Water Absorption of Brick(% 12.46	15.43	Remarks
2	11	02-Jul-18	R-2	Katahari	Aakash	11.45	15.08	
3	12	03-Jul-18	T3L39	Dadarbaiya	ACC	10.68	15.48	-
4	13	03-Jul-18	R-40	Dadarbaiya	ACC	10.44	11.97	-
5	14	*03-Jul-18	R-90	Katahari	Aakash	10.44		-
6	15	03-Jul-18	R-11	Katahari	Aakash	12.46	11.86	
7	16	04-Jul-18	T3L39	Dadarbaiya	ACC	11.50	11.86	-
8	17	04-Jul-18	R-40	Dadarbaiya	ACC	11.50	12.04	
9	18	04-Jul-18	R-2	Dadarbaiya	ACC		12.29	
10	19	05-Jul-18	R-11	Katahari	Acc	12.26	12.54	1
11	20	05-Jul-18	R-90	Katahari		12.26	11.87	
12	21	05-Jul-18	R-2	Katahari	Aakash	12.16	12.36	
13	22	05-Jul-18	R-11		Aakash	11.72	11.94	
14	23	07-Jul-18	R-2	Katahari	Aakash	13.19	11.94	
14	24	07-Jul-18	R-2	Katahari	Aakash	12.19	12.26	-
15	25	07-Jul-18	T3L39	Katahari	Aakash	12.72	13.17	
	26	07-Jul-18	T3L39	Katahari	Aakash	13.16	13.8	
17	27	07-Jul-18		Katahari	Aakash	13.95	13.85	
18	28		R-90	Katahari	Aakash	13.61	13.76	
19	29	09-Jul-18	R-90	Katahari	Aakash	14.5	12.71	
20	30	10-Jul-18	R-90	Katahari	Aakash	13.45	12.67	
21	31	10-Jul-18	R-2	Katahari	Aakash	10.91	13.00	
22	32	13-Jul-18	R-90	Katahari	Aakash	12.56	12.96	
23		13-Jul-18	R-40	Dadarbaiya	ACC	11.09	13.64	
24	33	16-Jul-18	R-2	Dadarbaiya	ACC	12.11	12.17	
25	34	16-Jul-18	T3L39	Dadarbaiya	ACC	12.38	12.54	
	-Clause N ents:-	o.2502, Sta	andard Specificat	tion Road and	Bridge 2073	<20%	>8 to 10 N/mm2	
	ema	Con	ntractor			Consultant		
	ZHONGHEN	ENGINE	TION GROUP INTERN	ATIONAL	BUILDING DI CONSULTANC	ESIGN AUTHORITY (P) LTD IN Y PVT. LTD AND PLUS ENGIN KATHMANDU, NE	IEERS & ARCHITECTS (P) L	N. TD,
Ya		Manononz a	Submicted		Verified By	7	B Approved By	
mee			Contract Ma	nager (C	TY Engineer/CSE		Team Leader	



				Contract N	ar Metropolita No:- RUDP/ICB/ reet Of Monthly Te	BRT-02					
							Month Year	July 2018			
.N.	Lab Ref.No.	Testing Date	Location of Sample	Source of Brick	Name Of Brick		Type of Material	Brick			
26	35	17-Jul-18	T3L39	Dadarbaiya	ACC	Water Absorption of Brick(% 13.06	12.00	Remarks			
27	36	19-Jul-18	R-2	Katahari	Aakash	11.33	12.65	-			
28	37	19-Jul-18	R-90	Katahari	Aakash	11.39	12.91	-			
29	38	21-Jul-18	T3L21	Katahari	Aakash	12.18	12.82				
10	39	21-Jul-18	T3L21	Katahari	Aakash	11.93		-			
1	40	23-Jul-18	T3L21	Katahari	Aakash	13.16	12.81 ~	-			
							15.55	-			
+											
-		-									
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1											
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ub	-Clause N	0.2502. Sta	indard Specificat	ion Road and	Bridge 2072	-2011					
	ents:-		and openined		bridge 2075	<20%	7 8 to 10 N/mm²				
			tractor			Consultant	_				
P.	ZHONGHEN		ION GROUP INTERNA	TIONAL	BUILDING DESIGN AUTHORITY (P) LTD IN JOINT VENTURE WITH B.N. CONSULTANCY PVT. LTD AND PLUS ENGINEERS & ARCHITECTS (P) LTD, KATHMANDU, NEPAL						
ckee	adhar By		Submitted	S	Verified By	k.e.	Approved By				
nee	r		Contract Mar	ager Q	TY Engineer/CSE		Team Leader				

						I		Month		Ju	*
						[Year		20	
_				n 1				of Material	Stre	Conc.	Cube
S.N.	Location	Lab Ref.no.	Type of Cement	Brand of	Source of Sand+Agg.	Date of Casting	Date of		N/r	nm2	Concre e Grad
				Cemen			7 Days	28 Days 1-Jul-18	7 Days	28 Days	• M20
1	R-111	RUDP-478	Salimar	OPC	Chisang Khola	3-Jun-18	10-Jun-18	12.000.000			
2	South of Xenial hotel	RUDP-479	Salimar	OPC	Chisang Khola	3-Jun-18	10-Jun-18	1-Jul-18		22.50	M20
3	N-3	RUDP-480	Salimar	OPC	Chisang Khola	3-Jun-18	10-Jun-18	1-Jul-18		23.56	M20
4	B2-1	RUDP-481	Salimar	OPC	Chisang Khola	3-Jun-18	10-Jun-18	1-Jul-18		21.9	M20
5	CN2GN3	RUDP-482	Salimar	OPC	Chisang Khola	4-Jun-18	11-Jun-18	2-Jul-18		22.43	M20
6	Madhumara Yard	RUDP-483	Salimar	OPC	Chisang Khola	4-Jun-18	11-Jun-18	2-Jul-18		32.74	M30
7	DDC-yard	RUDP-484	Salimar	OPC	Chisang Khola	4-Jun-18	11-Jun-18	2-Jul-18		22.88	M20
8	CN2CN3	RUDP-485	Salimar	OPC	Chisang Khola	5-Jun-18	12-Jun-18	3-Jul-18		22.28	M20
9	R-6	RUDP-486	Salimar	OPC	Chisang Khola	5-Jun-18	12-Jun-18	3-Jul-18		22.80	M20
10	R-2	RUDP-487	Salimar	OPC	Chisang Khola	5-Jun-18	12-Jun-18	3-Jul-18		21.37	M20
11	Rani Site	RUDP-488	Salimar	OPC	Chisang Khola	6-Jun-18	13-Jun-18	4-Jul-18	-	23.56	M20
12	Madhumara Yard	RUDP-489	Salimar	OPC	Chisang Khola	6-Jun-18	13-Jun-18	4-Jul-18		32.59	M30
13	S13-B	RUDP-490	Salimar	OPC	Chisang Khola	6-Jun-18	13-Jun-18	4-Jul-18	-	21.67	M20
14	\$11-A	RUDP-491	Salimar	OPC	Chisang Khola	6-Jun-18	13-Jun-18	4-Jul-18	-	21.00	M20
15	R3-A	RUDP-492	Salimar	OPC	Chisang Khola	6-Jun-18	13-Jun-18	4-Jul-18	-	21.22	M20
16	Rani Site	RUDP-493	Salimar	OPC	Chisang Khola	7-Jun-18	14-Jun-18	5-Jul-18	-	21.45	M20
17	R-113	RUDP-494	Salimar		Chisang Khola	7-Jun-18	14-Jun-18	5-Jul-18 5-Jul-18		21.37	M20
18	R-6	RUDP-495	Salimar		Chisang Khola		14-Jun-18 15-Jun-18	6-Jul-18	-	21.45	M2
19	S11-A	RUDP-496	Salimar	-	Chisang Khola		15-Jun-18	6-Jul-18	-	21.75	M2
20	S13-B	RUDP-497	Salimar		Chisang Khola		16-Jun-18	7-Jul-18	-	23.48	M2
21	R-114	RUDP-498	-	-	Chisang Khola		16-Jun-18	7-Jul-18	1	21.45	M2
22	R-111	RUDP-499		_	Chisang Khola Chisang Khola		16-Jun-18	7-Jul-18	-	23.41	M2
23	R-6	RUDP-500	Salimar Salimar		Chisang Khola		16-Jun-18	7-Jul-18	-	21.90	M2
24	R-2	RUDP-501 RUDP-502		-	Chisang Khola			9-Jul-18	1	23.41	M2
26	R-12 R-2	RUDP-503			Chisang Khola		-	9-Jul-18		22.88	M2
21	K-2	KODI-505	Journa	10.0	emoung man	1.00.000			-		
Z	HONGHENG	Contractor CONSERL ENGINE	ERING (ROUP	BUILDING WITH B.N. & & AF	CONSULT	UTHORI	T. LTD A	ND PL	US ENG	INEE
·	Yadhan ecked By	CROUP WTERIUTION	Subm	A itted By	Verified By	24			*	Approve Team L	
En	gineer .		Contrac	t Manage	er Qty Engineer	<u>CSE</u>				Team	



	,	REGI		Birat Contr	AN DEVE nagar Metro act No:- RUDI heet of Concre	politan Ci P/ICB/BRT-	ity -02	ROJEC	Т		
							-	Month		Ju	ly
								Year			18
		-		1			Тур	e of Material		Conc.	Cube
S.N.	Location	Lab Ref.no.	Type of Cement	Brand of Cement		Date of	Date of	Testing		ngth, nm2	Con
			Cemen	Cement	Sand+Agg.	Casting	7 Days	28 Days	7 Days	28 Days	Grad
28	R-111	RUDP-504	Salimar	OPC	Chisang Khola	11-Jun-18	18-Jun-18	9-Jul-18		21.9	M2
29	R-12	RUDP-505	Salimar	OPC	Chisang Khola	11-Jun-18	18-Jun-18	9-Jul-18	1.7	22.2	M2
30	Rani site	RUDP-506	Salimar	OPC	Chisang Khola	12-Jun-18	19-Jun-18	10-Jul-18		24.08	M2
31	R-114	RUDP-507	Salimar	OPC	Chisang Khola	12-Jun-18	19-Jun-18	10-Jul-18	1	21.83	/M2
32	CN2CN3	RUDP-508	Salimar	OPC	Chisang Khola	13-Jun-18	20-Jun-18	11-Jul-18	1	23.41	, M20
33	Madhumara Yard	RUDP-509	Salimar	OPC	Chisang Khola	13-Jun-18	20-Jun-18	11-Jul-18	1	33.49	, M30
34	R-6	RUDP-510	Salimar	OPC	Chisang Khola	13-Jun-18	20-Jun-18	11-Jul-18	1.	21.90	/M20
35	R-2	RUDP-511	Salimar	OPC	Chisang Khola	14-Jun-18	21-Jun-18	12-Jul-18	1	, 21.45	M2
36	Rani site	RUDP-512	Salimar	OPC	Chisang Khola	14-Jun-18	21-Jun-18	12-Jul-18	1	22.28	M20
37	CN2CN3	RUDP-513	Salimar	OPC	Chisang Khola	14-Jun-18	21-Jun-18	12-Jul-18		16.26	, M1
38	R-6	RUDP-514	Salimar	OPC	Chisang Khola	15-Jun-18	22-Jun-18	13-Jul-18		16.14	M1
39	R-2	RUDP-515	Salimar	OPC	Chisang Khola	15-Jun-18	22-Jun-18	13-Jul-18		21.45	M20
40	Rani site	RUDP-516	Salimar	OPC	Chisang Khola	15-Jun-18	22-Jun-18	13-Jul-18	-	21.45	M20
41	DDC-yard	RUDP-517	Salimar	OPC	Chisang Khola	16-Jun-18	23-Jun-18	14-Jul-18		23.03	M20
42	T3L39	RUDP-518	Salimar	OPC	Chisang Khola	16-Jun-18	23-Jun-18	14-Jul-18		21.45	M20
43	CN2CN3	RUDP-519	Salimar	OPC	Chisang Khola	16-Jun-18	23-Jun-18	14-Jul-18	-	22.20	M20
44	R-114	RUDP-520	Salimar	OPC	Chisang Khola	16-Jun-18	23-Jun-18	14-Jul-18		21.00	M20
45	R-104 Madhumara	RUDP-521 RUDP-522	Salimar	OPC OPC	Chisang Khola Chisang Khola	17-Jun-18 17-Jun-18	24-Jun-18 24-Jun-18	15-Jul-18 15-Jul-18		22.20	M20
	Yard		- Distances						-	33.04	M30
47	R-104	RUDP-523	Salimar	OPC +	Chisang Khola	18-Jun-18	25-Jun-18	16-Jul-18		22.73	M20
48 49	R-42	RUDP-524	Salimar	OPC	Chisang Khola	18-Jun-18	25-Jun-18	16-Jul-18		21.98	M20
-	R-111	RUDP-525	Salimar	OPC	Chisang Khola	19-Jun-18	26-Jun-18	17-Jul-18		23.48	M20
50	DDC-yard	RUDP-526	Salimar	OPC	Chisang Khola	19-Jun-18	26-Jun-18	17-Jul-18		23.48	M20
51	CN2CN3	RUDP-527	Salimar	OPC	Chisang Khola	19-Jun-18	26-Jun-18	17-Jul-18	_	22.88	M20
52	CN2CN3	RUDP-528	Salimar	OPC	Chisang Khola	19-Jun-18	26-Jun-18	17-Jul-18		21.98	M20
53	T3L39	RUDP-529	Salimar	OPC	Chisang Khola	19-Jun-18	26-Jun-18	17-Jul-18		21.15	M20
54	T3L21	RUDP-530	Salimar	OPC	Chisang Khola	19-Jun-18	26-Jun-18	17-Jul-18		21.83	M20
55	Rani site	RUDP-531	Salimar	OPC	Chisang Khola	19-Jun-18	26-Jun-18	17-Jul-18		22.28	M20
		Contractor					Consulta	int			-
	ONGHENG		VEERING		BUILDING D WITH B.N. C & ARC	ONSULTA	THORITY NCY PVT. 5 (P) LTD, K	LTD AND	PLUS E	INGINI	EERS
A	ther-	None examented	Submit	ted By	Verified By				9	proved	Rv
Engin					Qty Engineer/C	2D				im Lead	



				Bira Cont	AN DEVI tnagar Metro ract No:- RUD Sheet of Concre	opolitan C P/ICB/BRT	city -02				
								Month		Ju	lv
								Year		201	
-		-		-			Тур	e of Materia	-	Conc.	Cube
.N.	Location	Lab Ref.no.	Type of Cement	Brand of Cement	Source of Sand+Agg.	Date of Casting	Date of	Testing	N/I	ngth, nm2	Concr
			C thirt in	content	counter (BB)	custing	7 Days	28 Days	7 Days	28 Days	Grade
56	Madhumara Yard	RUDP-532	Salimar	OPC	Chisang Khola	19-Jun-18	26-Jun-18	17-Jul-18		33.11	M30
57	R-111	RUDP-533	Salimar	OPC	Chisang Khola	20-Jun-18	27-Jun-18	18-Jul-18		23.41	M20
58	Cn2Cn3	RUDP-534	Salimar	OPC	Chisang Khola	20-Jun-18	27-Jun-18	18-Jul-18	1	22.13	M20
59	DDC Yard	RUDP-535	Salimar	OPC	Chisang Khola	20-Jun-18	27-Jun-18	18-Jul-18		23.41	M20
60	T3L39	RUDP-536	Salimar	OPC	Chisang Khola	20-Jun-18	27-Jun-18	18-Jul-18		21.22	M20
61	Cn2Cn3	RUDP-537	Salimar	OPC	Chisang Khola	21-Jun-18	28-Jun-18	19-Jul-18	1	23.41	M20
62	T3L21	RUDP-538	Salimar	OPC	Chisang Khola	21-Jun-18	28-Jun-18	19-Jul-18	1	21.60	M20
63	DDC Yard	RUDP-539	Salimar	OPC	Chisang Khola	21-Jun-18	28-Jun-18	19-Jul-18		21.75	M20
64	DDC Yard	RUDP-540	Salimar	OPC	Chisang Khola	22-Jun-18	29-Jun-18	20-Jul-18	1	32.39	M30
65	Cn2Cn3	RUDP-541	Salimar	OPC	Chisang Khola	22-Jun-18	29-Jun-18	20-Jul-18		21.07	M20
66	T3L39	RUDP-542	Salimar	OPC	Chisang Khola	22-Jun-18	29-Jun-18	20-Jul-18	1	21.90	M20
67	Cn2Cn3	RUDP-543	Salimar	OPC	Chisang Khola	23-Jun-18	30-Jun-18	21-Jul-18	1.1	21.83	M20
68	DDC Yard	RUDP-544	Salimar	OPC	Chisang Khola	23-Jun-18	30-Jun-18	21-Jul-18		21.98	M20
69	R-111	RUDP-545	Salimar	OPC	Chisang Khola	23-Jun-18	30-Jun-18	21-Jul-18	1	22.13	M20
70	R-2	RUDP-546	Salimar	OPC	Chisang Khola	24-Jun-18	1-Jul-18	22-Jul-18	14.17	21.98	M20
71	R-183	RUDP-547	Salimar	OPC	Chisang Khola	24-Jun-18	1-Jul-18	22-Jul-18	14.84	21.75	M20
72	R-90	RUDP-548	Salimar	OPC	Chisang Khola	25-Jun-18	2-Jul-18	23-Jul-18	15.22	23.71	M20
73	R-7	RUDP-549	Salimar	OPC	Chisang Khola	25-Jun-18	2-Jul-18	23-Jul-18	15.89	23.18	M20
74	R-40	RUDP-550	Salimar	OPC	Chisang Khola	26-Jun-18	3-Jul-18	24-Jul-18	15.44	21.22	M20
75	R-7	RUDP-551	Salimar	OPC	Chisang Khola	26-Jun-18	3-Jul-18	24-Jul-18	15.14	21.37	M20
76 77	R-111 DDC Vard	RUDP-552	Salimar	OPC	Chisang Khola	27-Jun-18	4-Jul-18	25-Jul-18	15.14	21.37	M20
78	DDC Yard Cn2Cn3	RUDP-553	Salimar	OPC	Chisang Khola	27-Jun-18	4-Jul-18	25-Jul-18	14.32	22.20	M20
78	Madhumara	RUDP-554	Salimar	OPC	Chisang Khola	27-Jun-18	4-Jul-18	25-Jul-18	14.62	21.37	M20
-	Yard	RUDP-555	Salimar	OPC	Chisang Khola	27-Jun-18	4-Jul-18	25-Jul-18	20.85	32.59	M30
80	R-2	RUDP-556	Salimar	OPC	Chisang Khola	27-Jun-18	4-Jul-18	25-Jul-18	14.69	22.35	M20
81 82	T3L39	RUDP-557	Salimar Salimar	OPC	Chisang Khola	28-Jun-18	5-Jul-18	26-Jul-18	15.22	21.22	M20
33	Cn2Cn3 DDC Yard	RUDP-558 RUDP-559	Salimar	OPC OPC	Chisang Khola Chisang Khola	29-Jun-18	6-Jul-18	27-Jul-18	15.07	21.00	M20
84	R-6	RUDP-559 RUDP-560	Salimar	OPC	Chisang Khola	29-Jun-18 29-Jun-18	6-Jul-18	27-Jul-18	15.07	21.00	M20
85	Rani-Site	RUDP-561	Salimar	OPC	Chisang Khola	29-Jun-18 29-Jun-18	6-Jul-18	27-Jul-18 27-Jul-18	12.05	16.04	M15
86	DDC Yard	RUDP-562	Salimar	OPC	Chisang Khola		6-Jul-18		15.59	21.15	M20
87	DDC Yard	RUDP-562 RUDP-563	Salimar	OPC		30-Jun-18	7-Jul-18	28-Jul-18	16.41	21.45	M20
88	R-2	RUDP-563 RUDP-564	Salimar	OPC	Chisang Khola	1-Jul-18 2-Jul-18	8-Jul-18	29-Jul-18	16.11	21.83	M20
90	IX*2	Contractor		ore	Chisang Khola	2-Jul-18	9-Jul-18 Consult	30-Jul-18	15.59	21.37	M20
	IONGHENG	CONSTRE	CTION		BUILDING D WITH B.N. C & ARC		THORITY NCY PVT.	(P) LTD	PLUS	ENGIN	
	Vadhan Becked By gineer Contract Manager			Verified By Qty Engineer/C				Approved By Team Leader			



		KEGIC		Birati	AN DEVEI nagar Metrop act No:- RUDP/ neet of Concrete	olitan Cit ICB/BRT-0	y)2	OJECI			
						[Month		Ju	
								Year		20	
-		- 1		1		-	Typ	e of Material		Conc.	
5.N.	Location	Lab Ref.no.	Type of Cement	Brand of	Source of Sand+Agg.	Date of Casting	Date of	Testing	Strength	, N/mm2	Concre te
				Cement		-	7 Days	28 Days	7 Days	28 Days	Grade
90	R-6	RUDP-565	Salimar	OPC	Chisang Khola	2-Jul-18	9-Jul-18	30-Jul-18	10.93	16.86	M15
91	Cn2Cn3	RUDP-566	Salimar	OPC	Chisang Khola	2-Jul-18	9-Jul-18	30-Jul-18	15.52	21.75	M20
92	DDC Yard	RUDP-567	Salimar	OPC	Chisang Khola	3-Jul-18	10-Jul-18	31-Jul-18	16.34	22.28	M20
93	T3L39	RUDP-568	Salimar	OPC	Chisang Khola	4-Jul-18	11-Jul-18	1-Aug-18	14.62	-	M20
94	Madhumara Yard	RUDP-569	Salímar	OPC	Chisang Khola	4-Jul-18	11-Jul-18	1-Aug-18	20.62		M30
95	T3L21	RUDP-570	Salimar	OPC	Chisang Khola	4-Jul-18	11-Jul-18	1-Aug-18	15.44		M20
96	R-6	RUDP-571	Salimar	OPC	Chisang Khola	5-Jul-18	12-Jul-18	2-Aug-18	12.12		M15
97	Cn2Cn3	RUDP-572	Salimar	OPC	Chisang Khola	5-Jul-18	12-Jul-18	2-Aug-18	14.92	-	M20
98	DDC Yard	RUDP-573	Salimar	OPC	Chisang Khola	5-Jul-18	12-Jul-18	2-Aug-18	14.92		M30
99	Rani-Site	RUDP-574	Salimar	OPC	Chisang Khola	5-Jul-18	12-Jul-18	2-Aug-18	15.66		M20
100	R-2	RUDP-575	Salimar	OPC	Chisang Khola	5-Jul-18	12-Jul-18	2-Aug-18	15.89		M20
101	T3L21	RUDP-576	Salimar	OPC	Chisang Khola	5-Jul-18	12-Jul-18	2-Aug-18	15.52		M20
102	R-2	RUDP-577	Salimar	OPC	Chisang Khola	6-Jul-18	13-Jul-18	3-Aug-18	15.66		M20
103	R-40	RUDP-578	Salimar	OPC	Chisang Khola	6-Jul-18	13-Jul-18	3-Aug-18	14.77		M20
04	R-7	RUDP-579	Salimar	OPC	Chisang Khola	6-Jul-18	13-Jul-18	3-Aug-18	15.44	-	M20
105	R-2	RUDP-580	Salimar	OPC	Chisang Khola	8-Jul-18	15-Jul-18	5-Aug-18	15.07	1. 1.	M20
106	R-2	RUDP-581	Salimar	OPC	Chisang Khola	9-Jul-18	16-Jul-18	6-Aug-18	15.37	-	M20
107	R-6	RUDP-582	Salimar	OPC	Chisang Khola	9-Jul-18	16-Jul-18	6-Aug-18	15.44	-	M20
108	DDC Yard	RUDP-583	Salimar	OPC	Chisang Khola	9-Jul-18	16-Jul-18	6-Aug-18	21.67	-	M30
09	Madhumara Yard	RUDP-584	Salimar	OPC	Chisang Khola	9-Jul-18	16-Jul-18	6-Aug-18	21.00		M30
110	Madhumara Yard	RUDP-585	Salimar	OPC	Chisang Khola	9-Jul-18	16-Jul-18	6-Aug-18	20.92		M30
111	Rani-Site	RUDP-586	Salimar	OPC	Chisang Khola	10-Jul-18	17-Jul-18	7-Aug-18	15.37		M20
112	R-2 (Branch Roaad)	RUDP-587	Salimar	OPC	Chisang Khola	10-Jul-18	17-Jul-18	7-Aug-18	17.77		M20
113	Madhumara Yard	RUDP-588	Salimar	OPC	Chisang Khola	10-Jul-18	17-Jul-18	7-Aug-18	21.15		M30
114	R-2	RUDP-589	Salimar	OPC	Chisang Khola	11-Jul-18	18-Jul-18	8-Aug-18	14.25		M20
115	R-6	RUDP-590	Salimar	OPC	Chisang Khola	11-Jul-18	18-Jul-18	8-Aug-18	15.62		M20
116	R-6	RUDP-591	Salimar	OPC	Chisang Khola	12-Jul-18	19-Jul-18	9-Aug-18	15.96		M20
117	R-21	RUDP-592	Salimar	OPC	Chisang Khola	12-Jul-18	19-Jul-18	9-Aug-18	15.66	-	M20
118	Madhumara Yard	RUDP-593	Salimar	OPC	Chisang Khola	12-Jul-18	19-Jul-18	9-Aug-18	21.67		M30
119	R-6	RUDP-594	Salimar	OPC	Chisang Khola	12-Jul-18	19-Jul-18	9-Aug-18	15.74		M20
120	Rani-Site	RUDP-595	Salimar	OPC	Chisang Khola	12-Jul-18	19-Jul-18	9-Aug-18	14.62		M20
121	R-2	RUDP-596	Salimar	OPC	Chisang Khola	14-Jul-18	21-Jul-18	11-Aug-18	15.66		M20
122	DDC Yard	RUDP-597	Salimar	OPC	Chisang Khola		21-Jul-18				M30
-				13.5							
_		Contractor					Consu	itant			
	HONGHENG				BUILDING I WITH B.N. C & AF		ANCY PV7	LTD AN	D PLUS	S ENGI	NEERS
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		a contraction	Type of	Brand of	Source of	Data of	1	fTesting		n, N/mm2	
S.N.	Location	Lab Ref.no.	Cement	Cement	Sand+Agg.	Date of Casting	7 Days	28 Days	7 Days	1	Conc e Gra
123	DDC Yard	RUDP-598	Salimar	OPC	Chisang Khola	15-Jul-18	22-Jul-18	12-Aug-18	15.74		M2
124	Rani-Site	RUDP-599	Salimar	OPC	Chisang Khola	15-Jul-18	22-Jul-18	12-Aug-18	15.07		M2
125	Cn2Cn3	RUDP-600	Salimar	OPC	Chisang Khola	16-Jul-18	23-Jul-18	13-Aug-18	15.44		M2
126	DDC Yard Madhumara	RUDP-601 RUDP-602	Salimar Salimar	OPC OPC	Chisang Khola Chisang Khola	16-Jul-18 16-Jul-18	23-Jul-18 23-Jul-18	13-Aug-18 13-Aug-18	20.09		M3 M3
128	Yard R-6	RUDP-603	Salimar	OPC	121.11						
129	DDC Yard	RUDP-604	Salimar	OPC	Chisang Khola Chisang Khola	17-Jul-18 17-Jul-18	24-Jul-18 24-Jul-18	14-Aug-18 14-Aug-18	15.96		M2 M2
130	R-11	RUDP-605	Salimar	OPC	Chisang Khola	17-Jul-18	24-Jul-18	14-Aug-18	15.59		M2
131	R-21	RUDP-606	Salimar	OPC	Chisang Khola	17-Jul-18	24-Jul-18	14-Aug-18	14.77		M2
132	R-2 (Branch	RUDP-607	Salimar	OPC	Chisang Khola	17-Jul-18	24-Jul-18	14-Aug-18	15.59		M2
133	Madhumara	RUDP-608	Salimar	OPC	Chisang Khola	18-Jul-18	25-Jul-18	15-Aug-18	21.37		M3
134	DDC Yard	RUDP-609	Salimar	OPC	Chisang Khola	18-Jul-18	25-Jul-18	15-Aug-18	21.22		M3
135	R-21	RUDP-610	Salimar	OPC	Chisang Khola	19-Jul-18	26-Jul-18	16-Aug-18	16.11		M2
136	R-2 (Branch	RUDP-611	Salimar	OPC	Chisang Khola	19-Jul-18	26-Jul-18	16-Aug-18	15.52		M20
137	R-11 Cn2Cn3	RUDP-612 RUDP-613	Salimar Salimar	OPC OPC	Chisang Khola	20-Jul-18	27-Jul-18	17-Aug-18	15.22		M2
138	DDC Yard	RUDP-613 RUDP-614	Salimar	OPC	Chisang Khola Chisang Khola	21-Jul-18	28-Jul-18	18-Aug-18	15.07		M20
140	N-2	RUDP-614 RUDP-615	Salimar	OPC	Chisang Khola Chisang Khola	22-Jul-18 23-Jul-18	29-Jul-18 30-Jul-18	19-Aug-18 20-Aug-18	16.36	-	M20
141	R-6	RUDP-616	Salimar	OPC	Chisang Khola	23-Jul-18 23-Jul-18	30-Jul-18	20-Aug-18 20-Aug-18	15.07		M20
142	R-11	RUDP-617	Salimar	OPC	Chisang Khola	23-Jul-18	30-Jul-18	20-Aug-18	15.66		M20
143	R-6	RUDP-618	Salimar	OPC	Chisang Khola	24-Jul-18	31-Jul-18	21-Aug-18	16.56		M20
144	DDC Yard R-11	RUDP-619 RUDP-620	Salimar Salimar	OPC OPC	Chisang Khola	24-Jul-18	31-Jul-18	21-Aug-18	17.16		M20
		Contractor					Consu	Itant			
		Contractor	-							-	-
ZH	ONGHENG	CONSTRUCT L ENGINEI	TION GI	ROUP O. LTD	BUILDING I WITH B.N. CO ARC	ONSULTA	NCY PVT.		PLUS E	NGINEI	
V	idhan ked By eer		Submit Contract 1	ted By Manager	Verified By Qty Engineer/C	SE				proved I	



		REGI		Biratr Contra	AN DEVI nagar Metro act No:- RUD y Sheet of Mo	politan P/ICB/BR	City T-02	PROJE	СТ		
								Month		L	
								Year			ly 18
_							Descr	iption of San	anle	Brick	
			Tunner	Brand				fTesting	1	th, N/mm2	1
S.N.		Lab Ref.no.	Type of Cement	of Cemen	Source of San	d Date of Casting	7 Days	28 Days		28 Days	Ty o Gra
1	South of Xenial hotel	MR-273	Salimar	OPC	Chisang Khola	a 3-Jun-18	10-Jun-18	1-Jul-18		8.00	7.
2	T3L39	MR-274	Salimar	OPC	Chisang Khola	4-Jun-18	11-Jun-18	2-Jul-18		8.14	7.
3	T3L39 R-111	MR-275	Salimar	OPC	Chisang Khola		11-Jun-18	2-Jul-18		8.14	7.
5		MR-276	Salimar	OPC	Chisang Khola		14-Jun-18	5-Jul-18		8.27	7.
5	DSP Road B2-1	MR-277	Salimar	OPC	Chisang Khola		14-Jun-18	5-Jul-18		8.00	7.
7		MR-278	Salimar	OPC	Chisang Khola		15-Jun-18	6-Jul-18		8.54	7.
8	DSP Road Rani Site	MR-279	Salimar	OPC	Chisang Khola		15-Jun-18	6-Jul-18		8.94	7.5
9	Rani Site	MR-280	Salimar	OPC	Chisang Khola		15-Jun-18	6-Jul-18	1	8.94	7.5
10	N-3	MR-281	Salimar	OPC	Chisang Khola		16-Jun-18	7-Jul-18		8.54	7.5
-		MR-282	Salimar	OPC	Chisang Khola	10-Jun-18	17-Jun-18	8-Jul-18		8.67	7.5
11	R-12 DSP Road	MR-283	Salimar	OPC	Chisang Khola	11-Jun-18	18-Jun-18	9-Jul-18		8.67	7.5
-	and the second of the	MR-284	Salimar	OPC	Chisang Khola	12-Jun-18	19-Jun-18	10-Jul-18		9.07	7.5
13	B2-1	MR-285	Salimar	OPC	Chisang Khola	12-Jun-18	19-Jun-18	10-Jul-18		8.80	7.5
14	Rani Site	MR-286	Salimar	OPC	Chisang Khola	12-Jun-18	19-Jun-18	10-Jul-18		8.40	7.5
15	R-111	MR-287	Salimar	OPC	Chisang Khola	13-Jun-18	20-Jun-18	11-Jul-18		8.67	7.5
16	DSP Road	MR-288	Salimar	OPC	Chisang Khola	13-Jun-18	20-Jun-18	11-Jul-18		7.87	7.5
17	B2-1	MR-289	Salimar	OPC	Chisang Khola	13-Jun-18	20-Jun-18	11-Jul-18		8.40	7.5
18 19	Rani Site	MR-290	Salimar	OPC	Chisang Khola	13-Jun-18	20-Jun-18	11-Jul-18		8.94	7.5
20	T3L39	MR-291	Salimar	OPC	Chisang Khola	15-Jun-18	22-Jun-18	13-Jul-18		8.27	7.5
20	R-2	MR-292	Salimar	OPC	Chisang Khola	15-Jun-18	22-Jun-18	13-Jul-18		8.00	7.5
22	Rani Site Rani Site	MR-293	Salimar	OPC	Chisang Khola	15-Jun-18	22-Jun-18	13-Jul-18		8.54	7.5
23	R-111	MR-294	Salimar	OPC	Chisang Khola	15-Jun-18	22-Jun-18	13-Jul-18		8.67	7.5
24	T3L39	MR-295	Salimar	OPC	Chisang Khola	16-Jun-18	23-Jun-18	14-Jul-18		8.67	7.5
25	Rani Site	MR-296	Salimar	OPC	Chisang Khola	17-Jun-18	24-Jun-18	15-Jul-18		8.27	7.5
26	R-2	MR-297	Salimar	OPC	Chisang Khola	17-Jun-18	24-Jun-18	15-Jul-18		8.40	7.5
27	T3L39	MR-298	Salimar	OPC	Chisang Khola	18-Jun-18	25-Jun-18	16-Jul-18		8.27	7.5
28	R-2	MR-299	Salimar		Chisang Khola	21-Jun-18	28-Jun-18	19-Jul-18		8.54	7.5
29	T3L39	MR-300 MR-301	Salimar	OPC	Chisang Khola	21-Jun-18	28-Jun-18	19-Jul-18		8.80	7.5
30	R-111	MR-301 MR-302	Salimar Salimar		Chisang Khola	22-Jun-18	29-Jun-18	20-Jul-18		8.27	7.5
31	T3L39	MR-302 MR-303	Salimar		Chisang Khola	23-Jun-18	30-Jun-18	21-Jul-18		8.40	7.5
32		MR-304	Salimar		Chisang Khola	23-Jun-18	30-Jun-18	21-Jul-18		8.67	7.5
3	R-183	MR-305	Salimar			24-Jun-18	1-Jul-18	22-Jul-18	6.27	8.67	7.5
4	N-2	MR-306	Salimar			24-Jun-18	1-Jul-18	22-Jul-18	6.00	8.54	7.5
-	0.0		Sartrila	UPC	Chisang Khola	24-Jun-18	1-Jul-18	22-Jul-18	6.40	8.66	7.5
-	(Contractor					Consult	2 7 L 2			
ZHO INT	INGHENG C	ONSTRUC	TION GR	CO.	VENTURE	WITH B. ENGINE	N AUTHO N. CONSU ERS & AR THMANDU	LTANCY CHITECT	PVT. I	TD AN	D
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				Contrac	agar Metroj et No:- RUDP <u>Sheet of Mor</u>	ICB/BRT	-02				
								Month		Ju	ly
							(Y)-	Year		20	-
							Descri	ption of Sam	ple	Brick	
			Trues	Brand				Testing		h, N/mm2	Тур
S.N.	Location	Lab Ref.no.	Type of Cement	of Cement	Source of Sand	Date of Casting	7 Days	28 Days	7 Days	28 Days	of Grac
35	R-11	MR-307	Salimar	OPC	Chisang Khola	24-Jun-18	I-Jul-18	22-Jul-18	5.60	8.14	7.5
36	R-40	MR-308	Salimar	OPC	Chisang Khola	24-Jun-18	1-Jul-18	22-Jul-18	5.33	8.54	7.5
37	R-7	MR-309	Salimar	OPC	Chisang Khola	25-Jun-18	2-Jul-18	23-Jul-18	6.14	8.40	7.5
38	R-90 •	MR-310	Salimar	OPC	Chisang Khola	25-Jun-18	2-Jul-18	23-Jul-18	6.00	8.27	7.5
39	R-83	MR-311	Salimar	OPC	Chisang Khola	25-Jun-18	2-Jul-18	23-Jul-18	5.60	8.67	7.5
40	N-2	MR-312	Salimar	OPC	Chisang Khola	25-Jun-18	2-Jul-18	23-Jul-18	5,74	8.27	7.5
41	R-11	MR-313	Salimar	OPC	Chisang Khola	25-Jun-18	2-Jul-18	23-Jul-18	5.60	8.80	7.5
42	R-40	MR-314	Salimar	OPC	Chisang Khola	25-Jun-18	2-Jul-18	23-Jul-18	5.33	8.40	7.5
43	R-7	MR-315	Salimar	OPC	Chisang Khola	26-Jun-18	3-Jul-18	24-Jul-18	6.00	8.27	7.5
44	R-90	MR-316	Salimar	OPC	Chisang Khola	27-Jun-18	4-Jul-18	25-Jul-18	6.40	8.00	7.5
45	R-83	MR-317	Salimar	OPC	Chisang Khola	28-Jun-18	5-Jul-18	26-Jul-18	5.47	8.00	7.5
46	N-2	MR-318	Salimar	OPC	Chisang Khola	28-Jun-18	5-Jul-18	26-Jul-18	6.00	8.00	7.5
47	R-7	MR-319	Salimar	OPC	Chisang Khola	28-Jun-18	5-Jul-18	26-Jul-18	6.00	8.27	7.5
48	R-40	MR-320	Salimar	OPC	Chisang Khola	28-Jun-18	5-Jul-18	26-Jul-18	6.40	8.40	7.5
49	R-2	MR-321	Salimar	OPC	Chisang Khola	29-Jun-18	6-Jul-18	27-Jul-18	6.27	8.40	7.5
50	R-40	MR-322	Salimar	OPC	Chisang Khola	29-Jun-18	6-Jul-18	27-Jul-18	6.40	8.40	7.5
51	N-2	MR-323	Salimar	OPC	Chisang Khola	29-Jun-18	6-Jul-18	27-Jul-18	5.33	8.67	7.5
52	R-11	MR-324	Salimar	OPC	Chisang Khola	30-Jun-18	7-Jul-18	28-Jul-18	6.40	8.00	7.5
53	R-40	MR-325	Salimar	OPC	Chisang Khola	30-Jun-18	7-Jul-18	28-Jul-18	5.33	8.27	7.5
54	N-2	MR-326	Salimar	OPC	Chisang Khola	1-Jul-18	8-Jul-18	29-Jul-18	6.14	8.40	7.5
55	T3L39	MR-327	Salimar	OPC	Chisang Khola	1-Jul-18	8-Jul-18	29-Jul-18	6.40	8.67	7.5
56	R-2	MR-328	Salimar	OPC	Chisang Khola	1-Jul-18	8-Jul-18	29-Jul-18	6.54	8.00	7.5
57	R-83	MR-329	Salimar	OPC	Chisang Khola	1-Jul-18	8-Jul-18	29-Jul-18	5.74	8.54	7.5
58	R-90	MR-330	Salimar	OPC	Chisang Khola	2-Jul-18	9-Jul-18	30-Jul-18	6.14	8.67	7.5
59	Rani Site	MR-331	Salimar	OPC	Chisang Khola	2-Jul-18	9-Jul-18	30-Jul-18	6.14	8.27	7.5
60	R-11	MR-332	Salimar	OPC	Chisang Khola	3-Jul-18	10-Jul-18	31-Jul-18	6.14	8.94	7.5
27	R-2	MR-333	Salimar	OPC	Chisang Khola	3-Jul-18	10-Jul-18	31-Jul-18	6.00	8.14	7.5
62	T3L39	MR-334	Salimar	OPC	Chisang Khola	3-Jul-18	10-Jul-18	31-Jul-18	5.60	8.00	7.5
63	R-11	MR-335	Salimar	OPC	Chisang Khola	3-Jul-18	10-Jul-18	31-Jul-18	6.14	8.14	7.5
64	R-7	MR-336	Salimar	OPC	Chisang Khola	5-Jul-18	12-Jul-18	2-Aug-18	8.33		7.5
65	T3L39	MR-337	Salimar	OPC	Chisang Khola	5-Jul-18	12-Jul-18	2-Aug-18	6.40		7.5
66	R-2	MR-338	Salimar	OPC	Chisang Khola	5-Jul-18	12-Jul-18	2-Aug-18	6.27		7.5
67	T3L21	MR-339	Salimar	OPC	Chisang Khola	5-Jul-18	12-Jul-18	2-Aug-18	6.54		7.5
68	R-90	MR-340	Salimar	OPC	Chisang Khola	6-Jul-18	13-Jul-18	3-Aug-18	5.74		7.5
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	TERNATIC	Contractor CONSTRU DNAL ENGI LTD	NEERING		VENTURE	ENGINE	N. CONSI	ORITY (P) ULTANCY RCHITEC	PVT. TS (P)	LTD A	
V	adhan ked By	s	Submitted		Verified By Qty Engineer/	¥		-, 1127 81	Ap	proved I am Lead	



		REGIO		Biratna Contrac	N DEVE agar Metrop et No:- RUDP Sheet of Mor	olitan C /ICB/BRT	ity -02	KOJE			
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								Year		201	
-		-		1	1	_		ption of Sam	-	Brick	Wall
S.N.	Location	Lab Ref.no.	Type of Cement	Brand of Cement	Source of Sand	Date of Casting	7 Date of	Testing 28 Days		h, N/mm2 28 Days	Type of Grade
69	R-2	MR-341	Salimar	OPC	Chisang Khola	6-Jul-18	13-Jul-18	3-Aug-18	6.14		7.5
70	R-40	MR-342	Salimar	OPC	Chisang Khola	6-Jul-18	13-Jul-18	3-Aug-18	6.40		7.5
71	R-7	MR-343	Salimar	OPC	Chisang Khola	6-Jul-18	13-Jul-18	3-Aug-18	6.00		7.5
72	T3L24	MR-344	Salimar	OPC	Chisang Khola	7-Jul-18	14-Jul-18	4-Aug-18	6.40		7.5
73	N-2	MR-345	Salimar	OPC	Chisang Khola	7-Jul-18	14-Jul-18	4-Aug-18	5.87		7.5
74	R-2	MR-346	Salimar	OPC	Chisang Khola	8-Jul-18	15-Jul-18	5-Aug-18	6.27		7.5
75	T3L39	MR-347	Salimar	OPC	Chisang Khola	9-Jul-18	16-Jul-18	6-Aug-18	5.33		7.5
76	R-2	MR-348	Salimar	OPC	Chisang Khola	9-Jul-18	16-Jul-18	6-Aug-18	6.00		7.5
77	T3L21	MR-349	Salimar	OPC	Chisang Khola	9-Jul-18	16-Jul-18	6-Aug-18	6.14		7.5
78	T3L39	MR-350	Salimar	OPC	Chisang Khola	9-Jul-18	16-Jul-18	6-Aug-18	6.14		7.5
79	R-2	MR-351	Salimar	OPC	Chisang Khola	10-Jul-18	17-Jul-18	7-Aug-18	6.00		7.5
80	Rani Site	MR-352	Salimar	OPC	Chisang Khola	10-Jul-18	17-Jul-18	7-Aug-18	5.47		7.5
81	Rani Site	MR-353	Salimar	OPC	Chisang Khola	11-Jul-18	18-Jul-18	8-Aug-18	6.40		7.5
82	T3L39	MR-354	Salimar	OPC	Chisang Khola	11-Jul-18	18-Jul-18	8-Aug-18	6.40		7.5
83	R-2(Branch Roa	MR-355	Salimar	OPC	Chisang Khola	11-Jul-18	18-Jul-18	8-Aug-18	5.87		7.5
84	R-2(Branch Roa	MR-356	Salimar	OPC	Chisang Khola	11-Jul-18	18-Jul-18	8-Aug-18	6.14		7.5
85	T3L39	MR-357	Salimar	OPC	Chisang Khola	11-Jul-18	18-Jul-18	8-Aug-18	6.00		7.5
86	Rani Site	MR-358	Salimar	OPC -	Chisang Khola	12-Jul-18	19-Jul-18	9-Aug-18	6.14		7.5
87	R-2	MR-359	Salimar	OPC	Chisang Khola	12-Jul-18	19-Jul-18	9-Aug-18	6.27		7.5
88	Rani Site	MR-360	Salimar	OPC	Chisang Khola	13-Jul-38	20-Jul-38	10-Aug-38	6.00	-	7.5
89	R-2(Branch Roa	MR-361	Salimar	OPC	Chisang Khola	14-Jul-18	21-Jul-18	11-Aug-18	5.60	-	7.5
90	Rani Site	MR-362	Salimar	OPC	Chisang Khola	14-Jul-18	21-Jul-18	11-Aug-18	6.27	-	7.5
91	R-2(Branch Roa	MR-363	Salimar	OPC	Chisang Khola	14-Jul-18	21-Jul-18	11-Aug-18	5.60		7.5
92	Rani Site	MR-364	Salimar	OPC	Chisang Khola	15-Jul-18	22-Jul-18	12-Aug-18	6.14		7.5
93	T3L39	MR-365	Salimar	OPC	Chisang Khola	15-Jul-18	22-Jul-18	12-Aug-18	6.00	-	7.5
94	Rani Site	MR-366	Salimar	OPC	Chisang Khola	15-Jul-18	22-Jul-18	12-Aug-18	6.27		7.5
96	R-2(Branch Roa	MR-367	Salimar	OPC	Chisang Khola	15-Jul-18	22-Jul-18	12-Aug-18	6.14		7.5
97	R-21	MR-368	Salimar	OPC	Chisang Khola	16-Jul-18	23-Jul-18	13-Aug-18			_
98	Rani Site	MR-369	Salimar	OPC	Chisang Khola	16-Jul-18	23-Jul-18 23-Jul-18	13-Aug-18	6.00		7.5
99	R-11	MR-370	Salimar	OPC	Chisang Khola	16-Jul-18	23-Jul-18 23-Jul-18	13-Aug-18	6.40	-	7.5
100	R-11 R-21	MR-370 MR-371	Salimar	OPC	Chisang Khola	17-Jul-18	23-Jul-18 24-Jul-18	13-Aug-18 14-Aug-18	6.00		7.5
100	R-21 R-11	MR-371 MR-372	Salimar	OPC	Chisang Khola	17-Jul-18 18-Jul-18	24-Jul-18 25-Jul-18	14-Aug-18 15-Aug-18	6.27		7.5
102	Rani Site	MR-373	Salimar	OPC	Chisang Khola	19-Jul-18	25-Jul-18 26-Jul-18		5.60		7.5
102	R-21	MR-373 MR-374	Salimar	OPC	Chisang Khola	19-Jul-18 19-Jul-18		16-Aug-18 16-Aug-18	6.14	-	7.5
103	10-21	MIX-3/4	Sannar	OPC	Chisang Khofa	19-Jul-18	26-Jul-18	10-Aug-18	5.87		7.5
-		Contractor		-			Consult	tant			-
ZH	ONGHENG TERNATIO	CONSTRU	CTION G	ROUP GCO.	VENTURE	WITH B	N AUTHO	ORITY (P) ULTANCY RCHITEC	(PVT. TS (P)	LTD A	
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	eked By		Submitted		Verified By	0.0.0				proved 1	
inm	neer	C	ontract Mar	ager	Qty Engineer/	SE			Te	am Lead	0.0



Type of Cement	Brand				Month Year ption of Sam	ple	Ju 201 Brick	18
Cement	1.000				ption of Sam	ple		
Cement	1.000		12.0					
	0	Source of Sand	Date of Casting	7 Days	Testing 28 Days		n, N/mm2 28 Days	Typ of
Salimar	Cement					/ Days	20 Days	Grad
Salimar	OPC	Chisang Khola	20-Jul-18	27-Jul-18	17-Aug-18	6.14		7.5
	OPC	Chisang Khola	20-Jul-18	27-Jul-18	17-Aug-18	5.60		7.5
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20-Aug-18 6,27 Salimar OPC Chisang Khola 23-Jul-18 30-Jul-18 20-Aug-18 5,60 Salimar OPC Chisang Khola 23-Jul-18 30-Jul-18 20-Aug-18 5,60 Salimar OPC Chisang Khola 23-Jul-18 31-Jul-18 21-Aug-18 5,60 Salimar OPC Chisang Khola 24-Jul-18 31-Jul-18 21-Aug-18 5,60 Salimar OPC Chisang Khola 24-Jul-18 31-Jul-18 21-Aug-18 5,60 Salimar OPC Chisang Khola 24-Jul-18 31-Jul-18 21-Aug-18 5,60 Salimar OPC Chisang Khola 24-Jul-18<</td>	Salimar OPC Chisang Khola 20-Jul-18 27-Jul-18 17-Aug-18 6,40 Salimar OPC Chisang Khola 22-Jul-18 17-Aug-18 6,40 Salimar OPC Chisang Khola 22-Jul-18 19-Aug-18 6,27 Salimar OPC Chisang Khola 23-Jul-18 30-Jul-18 20-Aug-18 6,27 Salimar OPC Chisang Khola 23-Jul-18 30-Jul-18 20-Aug-18 5,60 Salimar OPC Chisang Khola 23-Jul-18 30-Jul-18 20-Aug-18 5,60 Salimar OPC Chisang Khola 23-Jul-18 31-Jul-18 21-Aug-18 5,60 Salimar OPC Chisang Khola 24-Jul-18 31-Jul-18 21-Aug-18 5,60 Salimar OPC Chisang Khola 24-Jul-18 31-Jul-18 21-Aug-18 5,60 Salimar OPC Chisang Khola 24-Jul-18 31-Jul-18 21-Aug-18 5,60 Salimar OPC Chisang Khola 24-Jul-18<	



		3	ummary Sheet of N	ionthly Test Repo	rt	Mor Ye	ar		July 2018
-						Type Mate		(Sub	grade
Sn.	Lab.Ref no.	Location of Sample	Source of Sample	Date of Testing	MDD	OMC	PI%	CBR%	Remark
1	RUDP-SG-01	East of Xenial Hotel	Existing Road	23-Jul-18	1.860	8.50	13.33	5.71	/
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Ingine	er		Contract Manager	Qty Enginner/CSE			Team 1	eader	



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			Summary	Sheet of	Field Density	<u>Test</u>	Month	Jul	
						ļ.	Year	201	
-			cation:-	East of X Moistur	enial Hotel		Type of Material ity(gm/cc)	Sub-G Compac	
Sn.	Lab.Ref.no	Testing Date	Chanage		Field MC%	Max.Dry density	Field Dry	Compaction %	
1	RUDP-SG-FD-1, RHS	24-Jul-18	0+050	8.50	8.63	1.860	1.803	96.92	95
2	RUDP-SG-FD-1, LHS	24-Jul-18	0+120	8,50	8.08	1.860	1.795	95.51	95
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2.11	ENGINEER	NG CO. LTD	I ERNATIO	ONAL	WITH B.N. C.	DNSULTAN	CY PVT. LTD	AND PLUS EX	GINEERS
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	ed By	Su	bmitted By		Verified By		;	Approved By	
ingine	eer	Cont	ract Manag	ger	Qty Enginner/CS	E		Feam Leader	

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Summary Sheet of Monthly Test Report Month: Year Type of Material Source of Sample Date of Testing MDD OMC PI9 1 RUDP-SG-01 Rani-Site,Mahendra Chowk(0+450) Existing Road 22-Jul-18 1.910 9.00 8.11 2	6 CBR% Remar
Sn. Lab.Ref no. Location of Sample Date of Testing MDD OMC PIP	Sub grade
Sn. Lab.Ref no. Sample Source of Sample Date of Testing MDD OMC P19	
1 RUDP-SG-01 Rani-Site,Mahendra Chowk(0+450) Existing Road 22-Jul-18 1.910 9.00 8.13 1	3 5.30
Image: Image:	
Image: sector	
Contractor Consultant ZHONGHENG CONSTRUCTION GROUP INTERNATIONAL BUILDING DESIGN AUTHORITY VENTURE WITH B.N. CONSULTANCY VENTURE WITH B.N. CONSULTANCY ENGINEERING CO. LTD ENGINEERS & ARCHITECTS (P) L' NEPAL NEPAL	PVT. LTD AND PL
hecked By Submitted By Verified By Appro	oved By Leader



				Joneero	f Field Densi	[Month	Ju	y
		La comp					Year	201	8
-		Location:-R	ani-Site (Mahendi	e content %		Type of Material	Sub-G	
				Moistur	e content %		ity(gm/cc)	' Compac	tion %
Sn.	Lab.Ref.no	Testing Date	Chanage	OMC%	Field MC%	Max.Dr density gm/cc		Compaction %	Specifie %
1	RUDP-SG-FD-1, L/S	23-Jul-18	0+250	7.20	7.21	1.980	1.882	95.05	95
2	RUDP-SG-FD-1, R/S		0+280	7.20	7.04	1.980	1.902	96.05	95
3	RUDP-SG-FD-1, R/L		0+340	7.20	7.18	1.980	1.885	95.21	95
4	RUDP-\$G-FD-1, L/S		0+400	7.20	7.12	1.980	1.924	97.18	95
5	RUDP-SG-FD-1, R/S	23-Jul-18	0+450	9.00	8.23	1.910	1.847	96.69	95
6	RUDP-SG-FD-1, R/S	23-Jul-18	0+500	9.00	8.46	1.910	1.830	95.79	95
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67	Yadhan Ked By	Submitted By Contract Manager	-	Verified B Qty Enginn	(P)		THMANDU, NE		



			ontract No:- RI ummary Sheet of N			Mor Ye			July 018
		1			_	Typ Mate	e of		grade
Sn.	Lab.Ref no.	Location of Sample	Source of Sample	Date of Testing	MDD	OMC	PI%	CBR%	Remark
1	RUDP-SB-01	R-90,(0+200)	Existing Road	10-Jul-18	2.040	7.20	9.86	6.22)
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	ENGR	EERING CO.LT	P	VENTURE WITH PLUS ENG	INEERS	& ARCH	ANCY ITECI	PVT. LT S (P) LT	TD AND D,
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hecked			Submitted By	Verified By		14	Approv	od By	
Inginee	er	~	Contract Manager	Qty Enginner/CSE			Team L		



		3	ummary Sheet of M	onthiy Test Repo	n	Mon Ye:	ar		July 018
			Location	:-R-77		Type Mate		Sub	grade
Sn.	Lab.Ref no.	Location of Sample	Source of Sample	Date of Testing	MDD	OMC	P1%	CBR%	Remark
1	RUDP-SG-01	R-77,(0+050)	Existing Road	9-Jul-18	1.890	10.70	9.74	6.00	
21		D 75 (0.100)	Location			,			
2	RUDP-SG-01	R-76,(0+120)	Existing Road	10-Jul-18	1.975	9.20	9.59	5.82	-
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		Contractor	\$			onsultan			
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pra	ENGIS Ahen	NEERING CO. H	INTERNATIONAL	VENTURE WIT PLUS ENG	SIGN AU H B.N. C INEERS	UTHORI ONSULT & ARCH ANDU, N	TY (P) I ANCY IITECT EPAL	PVT. L'	FD AND
	ENGI Men d By	NEERING CO. H	• INTERNATIONAL	VENTURE WIT PLUS ENG	SIGN AU H B.N. C INEERS	UTHORI ONSULT & ARCH ANDU, N	Approv	PVT. L'	FD ANI



	REGIO	DNAL U	Siratna Contrac	igar Mo t No:- R	etropolita UDP/ICB/	an City BRT-02	T PRO	JECT	
			Summa	ry Sheet o	of Field Densi	ty Test	Month	1	
							Year	Ju 201	V
-			Loca	tion:-H	e content %	T	ype of Material	Sub-G	
			1		e content %		(gm/cc)	Compac	tion %
Sn.	Lab.Ref.no	Testing Date	Chanage	ОМС%	Field MC%	Max.Dry density gm/cc	Field Dry density, gm/cc	Compaction %	Specifie %
1	RUDP-SG-FD-1, L/S	12-Jul-18	0+040	10.70	9.26	1.890	1.801	95.32 ~	95
2	RUDP-SG-FD-1, R/S	12-Jul-18	0+070	10.70	9.08	1.890	1.824	96.53 -	95
-			Lo	cation:	-R-76				_
1	RUDP-SG-FD-1, R/S	12-Jul-18	0+050	9.20	9.82	1.975	1.878	95.08 -	95
2	RUDP-SG-FD-1, L/S	12-Jul-18	0+100	9.20	9.19	1.975	1.904	96.40 /	95
3	RUDP-SG-FD-1, R/S	12-Jul-18	0+150	9.20	9.56	1.975	1.895	95.94 /	/ 95
4	RUDP-SG-FD-1, L/S	12-Jul-18	0+225	9.20	9.30	1.975	1.902	96.28 -	95
IN Page Thecke nginee	d By S	CTION GROU		I. I. A	ULTANCY PV (P)	THORITY T. LTD AND	DPLUS ENGL MANDU, NEP A	DINT VENTUR NEERS & ARC AL pproved By cam Leader	E WITH HITECTS



1		Con	atnagar Metr <u>tract No:- RUI</u> nmary Sheet of Mo	P/ICB/BRT-0	2	Mo	onth:		une-	
				in a second		Y	ear	2018 -		
		Location of	Location:-Rani-	Site(Mahendra C	Chowk)		pe of terial	Sub	grade	
Sn.	Lab.Ref no.	Sample	Source of Sample	Date of Testing	MDD	OMC	P1%	CBR%	Remark	
1 2	RUDP-SG-01 RUDP-SG-02	Rani-Site,Mahendra Chowk Rani-Site,Mahendra Chowk	Existing Road Existing Road	19-Jul-18	2.005-	7.00 -	10.58	5.40		
-		Fran She, Statendra Chowk	Existing Road	20-Jul-18	1.980 *	7.20 *	10.12	5.70		
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ZI	IONGHENG CO	INSTRUCTION GROUP INTI	ERNATIONAL	VENTURE WITH ENGINEERS	B.N. CC	NSULTA	NCY PV	T. LTD AT	ND PLUS	
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•	~		Contract Manager	Qty Enginner/CSE		1	feam Lead	ler		



					UDP/ICB/					
				1 SALLE	Trend Densi		Month	Ju	ly	
				E	Year	2018				
-	1	Location:-R	ani-Site (Mahendi	e content %		pe of Material			
			-		e content %		(gm/cc)	Compac	tion %	
Sn.	Lab.Ref.no	Testing Date	Chanage	OMC%	Field MC%	Max.Dry density gm/cc	Field Dry density, gm/cc	Compaction %	Specifie %	
1	RUDP-SG-FD-1, L/S	21-Jul-18	0+050	7.00	6.47	2.005	1.921	95.83	95	
2	RUDP-SG-FD-1, R/S	21-Jul-18	0+100	7.00	7.87	2.005	1.943	96.89	95	
3	RUDP-SG-FD-1, C/L	21-Jul-18	0+150	7.00	7.03	2.005	1.953	97.42	95	
4	RUDP-SG-FD-1, L/S	21-Jul-18	0+200	7.20	6.94	1.980	1.894	95.67*	95	
5	RUDP-SG-FD-1, R/S	21-Jul-18	0+230	7.20	7.03	1.980	1.907	96.30	95	
			×							
		2								
		40. 1								
1	Contract ZHONGHENG CONSTR NTERNATIONAL ENGIN	UCTION GROU EERING CO. 1	JP .TD	BUILDI B.N. CONS	SULTANCY P	UTHORITY VT. LTD AN	sultant (P) LTD IN J D PLUS ENG MANDU, NE	OINT VENTUR INEERS & ARC PAL	RE WITH THITECTS	





Phone: 015260696 Ref.No.: 29 87 Dete: 2075.03.32 Government of Nepal Ministry of Physical Infrastructure and Transport DEPARMENT OF ROADS CENTRAL BOAD LABORATARY CHARWPAT LAURPUR CHARWPAT LAURPUR Chakupat, Laurpur

Subject: Bitumen Test Result.

Beilding Design Authority (P) Ltd

in, pint venture with

To

B.N. Consultancy Pvt. Ltd. and Plus Engineers & Architects (P) Ltd, Kathmandu Regional Urban Development Project (RUDP), ADB Loan No. 47252 Biratnagar Metropolitan City, Biratnagar Contractor : ZHONGHENG Construction Group Intremational Co. Ltd.

With reference to your letter dated 05 July 2018, Ref.No: rudpbdabrt/tl 2018 -143, we are enclosing with Bitumen test results of provided 2 samples of Bitumen.

	None of tests	Linté	Result	Result	Remarks	
S.N.	Name of tests	Unit	Sample 1	Sample 2	Remarks	
1	Penetration at 25°c	1/10mm	80	80		
2	Specific gravity		1.027	1.028		
3	Softening Point	°c	44.8 /	44.7		
4	Water Content	%	Nil	Nil		
5	Ductility at 25 °C	cm	100.0	100.0	Unbreakable up to 100 cm.	
6	Solubility in Trichloroethylene	%	99.7	99.6		
7	Loss on heating for 5 hours at 163 °C	%	0.093 /	0.146		
-	a. Flash Point	°c	290.0 /	305.0		
*	b. Fire Point	°c	340.0 (355.0		
. 9	Penetration of Residue after loss on heating	1/10mm	65 /	66		

Note: \$anples are not taken by us. This test report only represents the tested samples.

n Shiva Raj Parit (Laboratory Officer) scoratary Gide



TRIBHUVAN UNIVERSITY INSTITUTE OF ENGINEERING DEPARTMENT OF CIVIL ENGINEERING CENTRAL MATERIAL TESTING LABORATORY

TENSILE STRENGTH

Date :32/03/2075 Machine: U.T.M.

Project : Sewerage, Drainage, Footpath & Road Furniture Works Const. Project of a castion : Biratnagar Metropolitan City Under (RUDP) Project Location : Biratnagar Metropolitan City Under (RUDP) Project Contractor : ZHONGHENG Const. Group Int'l Eng. Co. Ltd. jv

Type of Sample : Steel Rebars (Kathmandu & Jagdamba Steel)

Remarks	Veight Elongation		Yeild Strength kg/cm2	Ultimate Tensile Strength Kgicm ²	Ultimate Load, Kg	Area, Cm ²	Dia. of Bar, mm	No.	S.N.
	19.944	8.890	5412.52	6531.13	7406.55	1.13	12.09	1	14
Kathmandu Steel	16.672	0.885	6149.09	6746.03	7602.75	1.13	12.00	2	2
	16.609	0.891	5448.73	6392.65	7259.40	1.14	12.00	3	3
	25.874	0.621	5508.52	6202.77	4905.00	0.79	10.00	1	4
	19.777	0.629	5685.78	6430.21	5150.25	0.80	16.00	2	5
Jagdamba Steel	21.363	0.623	5742.70	6370.88	5052.15	0.79	10.00	3	6
Jaguanna Steel	17.444	9.396	6672.84	7098,37	3580.65	0.50	00.3	1	7
	22.377	0.198	5665.72	6194.99	3139.20	0.51	8.00	2	8
	24.938	9.396	5685.82	6216.97	3139.20	0.50	8.00	3	5



Note : Steel rebar were supplied by BDA in JV with B.N.Consultancy & Plus Eng. & Architects

72 (Rajendra R. Parit)

Dy. Chief Dy. Chief



Regional Urban Development Project (RUDP) 47252

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: July 2018

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





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





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

Subproject Road : -RUDP/ICB/BRT/2

Month/Year: July/2018

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

Contract Package: RUDP/ICB/BRT/2

	· · · · · · · · · · · · · · · · · · ·	Co	ompliance Sta	atus	too too too		
S.N	Key Social Issuse	Full	Partial	None	Implementing Agency	Note of Remarks	Deadline
1	Availability of drinking water services	V					
2	Availability of toilet facility in campsite	V					
3	Legal source of fuel wood use			V			
4	Legal document of fuel wood source			V			
5	Use of safety accessories	V					1
6	Availability of first aid facility	V					
7	Basic wage rate to construction workers	V					
8	Equal wage rate to male and female workers	1	V				
9	Compensation of temporarily occupied land	×۷					
10	Compensation of temporarily occupied buildings	v					
11	Legal document of temporarily occupied assets	٧					
12 1	Non use of child labour in construction activities	V					





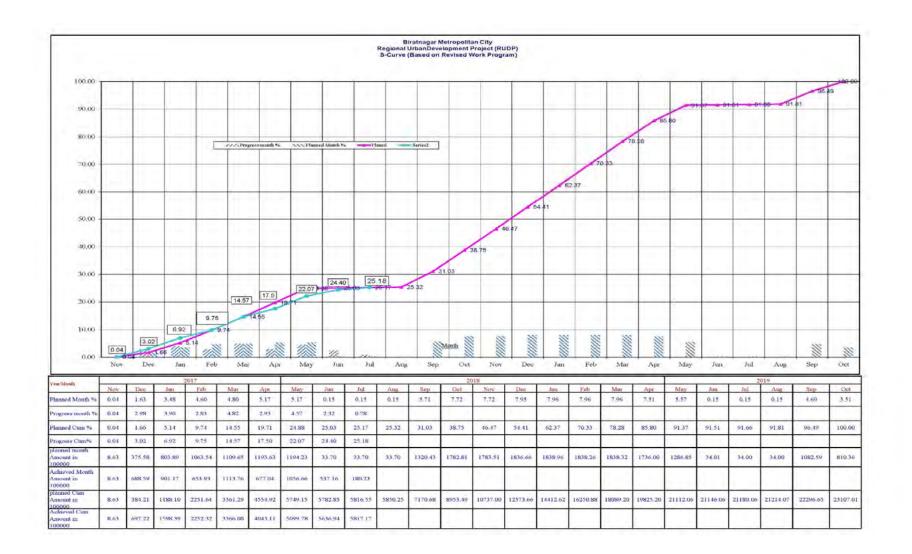
1.General inf	ormation		Sc			guarc y of Soci			ring				
Subproject: -	RUDP/ICE	B/BRT/2				Month	/Year: .	luly/20	18				
Name of Con GroupInterna								Contrac	t Packa	ge: RUDI	P/ICB/B	RT/2	
			- VC										
2.Total numb		ntractor w	orkers i	nvolved	in road	constru	uction(v	write do	own the	number)		
Type of Work	ers	-	Camp-1		Camp-3	Camp-4	Camp-5	Camp-6	5 Camp-7	Camp-8	Camp-9	Camp-10	Remark
Loca	al	Male	08	33	52	42	35	68	32	20	13		
		Female	0	03	0	0	0	0	0	0	D		
Non-Local		Male	0	0	32	17	15	0	D	08	13		
		Female	0	0	0	0	0	0	0	0	0		
Child La	bour	Male	-			-		-	-				_
		Female				-	-	-					
3. Source and	adequacy	y of drinki	ng wate	r facility	in the	labour	amp(u	se code)				
Source	Sources		Camp-2	Camp-3	Camp-4	Camp-5	Camp-6	Camp-7	Camp-8	Camp-9	Camp-10	Rei	marks
a. Piped water	a. Piped water		01	01	02	02	02	01	01	01	somp as		indi Ka
b.Well/Spring		01	-	02	01	02	-	01	01	01			
c.Tanker		*	01	01	+	-	-	-	-	-			-
d					100								
Code: Insufficient-1		0.10.1											
4. Type and nu	umber of	Sufficient		Plenty-		d			1				
				ur camp	write	down tr	ne num	ber)	1		-		-
Туре	Camp-1	Camp-2	Camp-3	Camp-4	Camp-5	Camp-б	Camp-7	Camp-8	Camp-9	Camp-10		Remarks	
a.Pit Latrine					01				01				
b.Pan	04	02	02	02	01	02	02	01		0			
c.Open													
d											-		
5. Energy used	in labour	camp (tic	k mark)										
Sources of Ene	Camp-1	Camp-2	Camp-3	Camp-4	Camp-5	Camp-6	Camp-7	Camp-8	Camp-9	Camp-10	_	Remarks	-
a. Firewood					-							Hernorita	
b.Kerosene					-								
- 100-	V	V	V	V	V	V	V	v	V	V	-		
Prepared by:-	ALION ENDUP INT	EMADORE											



ANNEX-5: S-Curve Attached



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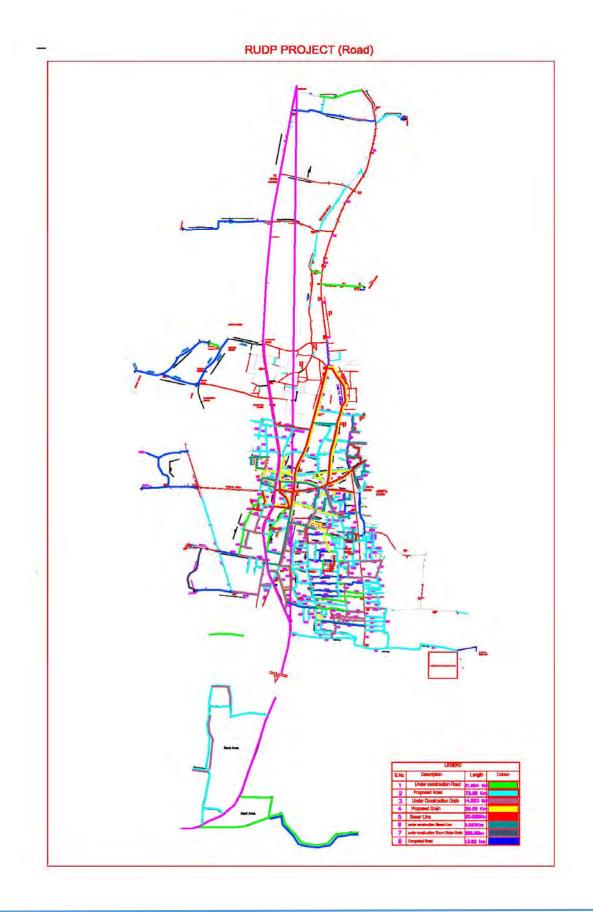


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Master Plan of RUDP Project





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