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Building Design Authority (P) Ltd

in joint Venture with

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

Monthly Progress Report

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



December 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 in the following Chapters the mentioned below.

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

1 PROJECT DESCRIPTION

1.1 INTRODUCTION/BACKGROUND

GoN has negotiated loan with Asian Development Bank for the Regional Urban Development Project (RUDP) in Nepal. The RUDP, in the linewith 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 BiratnagarMunicipality.BuildingDesign Authority (P) Ltd (Nepal) ,B.N. Consultancy Pvt.ltd and PLUS Engineers & Architects (P) Ltd Kathmandu and have entered for a ofConsulting Services with Regional Urban **DevelopmentProject** ProjectImplementation Unit(PIU), BiratnagarMetropolitanCity on 28thOctober 2017.

Regional Urban DevelopmentProject (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)	24.68%								
Sewer Line	52.80%								
Storm Drain	97.44%								
Road Side Drain	70.86%								
Integrated Solid Waste Management (ISWM) Design	Inception Report as well as Stakeholder's Analysis, Communication Strategy and Consultation Plan for Integrated Solid Waste Management (ISWM) has already been submitted. Due to Socio Environment Problem, Progress of Integrated Solid Waste Management (ISWM) design has been hindered.								
Physical Progress up to date	Planned: 54.41%, Actual: 39.47%; Lead(+) or Lag(-) by (-) 14.95%								
Einomoial Duograss van ta data	In Percentage: 29.84%, In Figure: NRs. 779,263,691.40 (including VAT and PS)								
Financial Progress up to date	In Words: NRs. Seven Hundred seventy nine Millions Two Hundred Sixtythree Thousands Six Hundred Nintyone and Fourty 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	8,396.00	11,686.00	41.81%	
b	Manhole	No.	656.00	282.00	374.00	42.99%	
С	Sewer Inlet	No.	1,010.00	250.00	760.00	24.75%	
d	House Connection	No.	3,784.00	375.00	3,409.00	9.91%	
2	Storm Water Drain						
а	RCC Drain	т	652.89/585	570.00	15.00	97.44%	Revised Length =585m
b	Piles	No.	132.00	138.00	(6.00)	100.00%	Exceeded
3	Road						
а	Subgrade	m	28,454.25	45,405.75	38.52%	28,454.25	
b	Subbase	т	27,770.65	46,089.35	37.60%	27,770.65	
С	Base	т	23,298.10	50,561.90	31.54%	23,298.10	
d	Prime	т	15,167.45	58,692.55	20.54%	15,167.45	
е	Asphalt	т	14,167.45	59,692.55	19.18%	14,167.45	
4	Road Side Drain	т	14,971.48	11,078.53	57.47%	14,971.48	

3.1 SUB PROJECT COMPONENTS

3.1.1 SEWER LINES

Trunk Line T1 & T2 was already completed in STIUEIP (Secondary Town Integrated Urban Environmental Improvement Project). Remaining part of sewer lines of T3 and T4 have been identified and necessary survey is going on. In this month, sewer has been started on line T1Line8, T1Line13A, T1Line14B, T1Line 14C, T2Line24F, T2Line25, T3Line6, T3Line7A, T3Line8, T3Line9, T3Line11H, T3Line12, T3Line13G, T3Line13I, T3Line13K, T3Line21A and T3Line22B of which T3Line11H is half complete. Likewise, House connection on R33, R10, R7 and R9 has been started of which around half quantity has been completed. For the month of January, we are planning to do sewer line works at T3Line10, T3Line7, T3Line5 and T4.

Table 1: PROPOSED SEWER LINES

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



Table: - 2 PHYSICAL PROGRESS IN SEWER LINES till December 2018

		Воб	Q	Up to Pro	Month	This	month	Total to	date	Pro
SN	Locations	Length (m)	Manhole (no)	Length(m)	Manhole	Length	Manhole	Length (m)	Manhole (no)	gre ss
			(110)		(no)	(m)	(no)		(110)	%
1	Hume pipe(T2)	206.00	6.00	205.00	6.00			205.00	6.00	
2	Hume pipe(T3)	1,905.00	58.00	292.00	6.00			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	-	-	823.00	23.00	
1	HDPE(T1)	1,825.00	57.00	1,037.00	30.00	491.50	16.00	1,528.50	46.00	
2	HDPE(T2)	3,927.00	147.00	2,996.00	113.00			2,996.00	113.00	=
3	HDPE(T3)	9,997.00	316.00	2,771.00	97.00	1,715.10	59.00	4,486.10	156.00	=
4	HDPE(T4)	2,092.00	68.00	769.00	19.00			769.00	19.00	
	Subtotal in (m)	17,841.00	588.00	7,573.00	259.00	2,206.60	75.00	9,779.60	334.00	
	Total	20,082.00	656.00	8,191.00	276.00	2,206.60	75.00	10,602.60	357.00	52. 80 %
	Sewer Inlet	BoQ(no)		Up to Pro	e Month	This	month	Total to	o date	Pro gre ss %
1	Sewer inlet	1,010.00			250.00		4.00		254.00	25. 15
2	House connection	3,784	.00		375		159.00		534.00	14. 11

3.1.2STORM WATER DRAIN

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



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

			L	ength in n	1			W	ork C	omplete	ed	Length	
S	Name of	Origin	Revise	Progress		Cum	Type of	Brick		RCC		of Covere	Rema
N	Drain	al	d	Previo us	This Month	ulativ e	Drain	m	M^3	m	M^3	d Drain in m	rks
1	CN2- CN3(Chya nghBaariN ala)	652.89	585	570	0	570	RCC, closed			570		570	
2	CN2- CN3(Chya nghBaariN ala)	132 nos piles	138	138	0	138 nos.							Piling works compl eted

3.1.3 ROADS AND LANES

Most of the roads/lanes in Biratnagar are in a poor state due to lack of periodic maintenance, and need improvement where as some of the roads are graveled and would benefit from upgrading. In the areas where drainage and sewerage works are proposed there will be significant impact on the existing roads. The Project has considered on design based on reinstatement, rehabilitation and upgrading of existing roads length 73.86 km. This month, the contractor has started work of R3, DSP Road and Rani. Some of the roads of the project has been completed and some of them are in the process of being upgraded and the summary is presented below.

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

				Le	ngth in m				Work Com	pleted			ks
SN	Road Number	Name of Road			Prog	ress	al	Sub-base	Base	Asphalt	RCC	Paint	Remarks
			Original	Revised	Previou s	This Month	Total	m	m	m	m	m	Re
1	R42	Bhagwati Marg	218	218	218		218	218	218	123			
2	R5	College Road	970	970	650	560	1210	650	650	560			
3	B2	Gauri Shankar Marg	2777.83	2777.83	2152		2152	2152	2152	1999.8	210		
4	R65	Satghumti Marg	282	320	320		320	320					
5	R107		173	215	215		215	215					
6	R107 a		50	50	50		50	50					
7	R104	VIP Marg	273	273	273		273	273	273	273			
8	R3A	Madhumar a Marg	600	600	600		600	600	600	582			
9	B1	Kanchan Marg	1173	1173	1173		1173	1173	1106	1106		500	
10	R21	Pratibha Marg	1320	1320	950		950	950	950	689.6			



ĺ		Keshaliya			l	ĺ	l	l]		- I
11	В3	Marg	1574	1574	1574		1574	1574	1627.75	1627.75		
12	S13		1617	1617	1417		1417	1417	1417	1433.3		
13	R12	Kanchha Dai Marg	1192	1192	837		837	837	837			
14	Rani site	Rani	4023	4023	3195		3195	2735	2122	1096		
15	R16	Satya Marg	604	604	604		604	604	604	542.1		
16	R26	Pasang Marg	617	654	654		654	654	654	215		
17	R28	Pustakalay a Marg	635	635	635		635	635	635	339.2		
18	R27	Peepal Marg	810	810	580		580	580	580	300		
19	R25	Devi Marg	599	580	580		580	580	580	561.7		
20	R24	Prabhat Marg	384.41	380	380		380	380	380	364.95		
21	R37	Banglamuk hi Marg	420	477	477		477	477	477	200.7		
22	R7	Manakama na Marg	814	814	492		492	492	492			
23	R30	Shanti Marg	212	212	123.1		123.1		123.1	123.1		
24	R9	Fadindra Marg	123	123	119		119		119	119		
25	S11	Samrat Marg	660	660	660		660	660	504.6	504.6		
26	R22	Amar Marga	373.1	367.65	367.65		367.65	367.65	367.65	367.65		
27	R29	Shanti Marg	620	620	556		556	556	299	299		
28	R36	Gaurav Marg	218	218	220		220					
29	R33	Tarun Marg	285	285	171.5		171.5					
30	R64	Satya Narayan Marg	121	121	121		121	121				
31	R8			225	225		225	225	225			
32	N36			190	190		190	190				
33	R188	Shakti Marg	-	120	120		120	120				
34	R2	Main Road	3113.00		680	90	770	770	770	770		
35	T3 Line 6A	PanditMrg hnath Marg	-	220	220		220	220				
36	T2 Line 24C	Nava Jyoti Marg	-	205	205		205	205				
37	T2 Line 24D	Nava Jyoti Marg	-	210	210		210	210				
38	R63 (DSP Road)	DSP Road	420	420	420	420	420	420	420			
39	R90	Shakti Marg	450	380	380	380	380	380	380			
40	R77	Arniko Marg	80	80	80		80	80				
41	R76	Mitra Marg	270	270	270		270	270				
42	R183	Nava Jyoti Marg	240	240	240		240	240				



	Total				28377	3767	31341	29877	24413	18227	210	500	
58	R21	Vinayak Road	500	500		500	500	500	500	500			
57	R90		320	320		320	320	320	320				
56	N3		120	120		120	120	120					
55	N2		75.84	75.84		75.84	75.84	75.84					
54	R18		465.78	465.78		370	370	370					
53	R17		610.06	610.06		365	365	365					
52	N9		220.42	220.42		220.42	220.42	220.42					
51	R122		265.55	265.55		265.55	265.55	265.55					
50	T2 Line 27		80	80		80	80	80	80				
49	R3	Dharamba n Marg	1211.26	3441.26	2233		2230	2230	2230	2230			
48	Rani site B		600	520	520		520	520	420				
47	R5a		370	370	370		370	560					
46	R113	Kavi Lekh Marg	740	740	740		740	740	740	740			
45	R114	Dharanidh ar Marg	560	560	560		560	560	560	560			
44	T1 L16A	Xenial South	140	140	140		140	140					
43	T1 L16B	Xenial Front	210	210	210		210	210					

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

				Cate	egory			Length in	m		Foo	tpath	
SN	Road Number	Name of Road	Type*					Progr	ress				Rem arks
	rumber	11044		<3m	>3m	Original	Revised	Previous	This Month	Cumulative	m	M2	
1	B2	Gauri Shankar Marg	Precast block			2778	2777.8	1820	957.83	2777.83	2777.8	3888.96	
2	S11	Bhatta Chowk to Sankhar Chowk	Precast block			900	900	300	0	300	300	270	
3	B3(3)	Keshaliya Road	Precast block					500	500	1000	1000	1200	
4	R16	Jatuwa	Precast block					400	0	400	400	440	



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

SN	Description	Unit	Proposed	Total Up to Previous Month	This Month	Total Up to this Month	Progress
1	Subgrade	m	73,860.00	28,454.25	2,886.81	31,341.06	42.43%
2	Sub Base	m	73,860.00	27,770.65	2,106.81	29,877.46	40.45%
3	Base	m	73,860.00	23,298.10	1,115.00	24,413.10	33.05%
4	Prime	m	73,860.00	15,167.45	3,060.00	18,227.45	24.68%
5	Asphalt	m	73,860.00	14,167.45	4,060.00	18,227.45	24.68%
6	Paint	m	73,860.00	500.00	-	500.00	0.68%

3.1.4 ROAD SIDE DRAIN

Most of the roads under this project for upgrading is without drain or existing drain in poor condition. The project has provisioned drain at both sides or one side as per the RoW of the road. The contractor has already started drain works at many locations. The progress for the drain works is listed below:

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

					Length in r	n		Work Co	mpleted	
SN	Road	Name of Road			Pro	gress	al	Brick	RCC	Re mar
	Number		Original	Revised	Previous	This Month	Total	m	m	ks
1	B1	Kanchan Marg	0	0	90	0	90	90		
2	R29	Shanti Marg	270	256.52	256.52	0	256.52	256.52		
3	N36		0	190	186	0	186	186		
4	R8		370	370	230	0	230	230		
5	R7	Devi Marg and Pipal Marg	155	155	89.575	0	89.575	89.575		
6	R63	DSP Road	418.79	418.79	298.8	120	418.8	418.8		
7	R9	Baglamukhi path	120	103.2	103.2	0	103.2	103.2		
8	S13	Udaya Marga	0	158.1	158.1	0	158.1	158.1		
9	N33		0	70	70	0	70	70		
10	R28	Pustakalaya Marg	340	278	278	0	278	278		
11	R90	Shakti Marg	320	475	475	0	475	475		
12	R114	Dharanidhar Marg	0	312.33	312.33	0	312.33	312.33		



13	R11	Om Shiv Marg	0	200	200	0	200	200		Ī
14	R11	Olli Siliv Marg	0	382.5	382.5	0	382.5	382.5		
15	R17		0	360.85	360.85	0	360.85	360.85		1
13		Kavi Lekhnath						300.83		
16	R113	Marg	0	312.45	312.45	0	312.45	312.45		
17	R77	Arniko Marg	97	80.5	80.5	0	80.5	80.5		
18	R76	Mitra Marg	272	275	274	0	274	274		
19	N9	Devi Marga	0	222.7	222.7	0	222.7	222.7		
20	N4		0	170	147	0	147	147		
21	R33	Tarun Marg	0	265	264.48	0	264.48	264.48		
22	R36	Gaurav Marg	218	216.4	216.4	0	216.4	216.4		
23	R86	Janpath Marg	215	215	187	0	187	187		
24	R183	Nava Jyoti Marg	242	211	211	0	211	211		
25	R7a		77.81	68.55	68.55	0	68.55	68.55		
26	Rani site	Rani B	0	650	530	0	530	530		
27	Rani site	Rani A	0	300	270	0	270	270		
28	N3		0	120	110	0	110	110		
29	N5		0	40	40	0	40	40		
30	R21	Binayak Marga	0	390	390	0	390	390		
31	R2	Main Road	2060	2060	592.5	157.5	750	750		
32	T1L16B	Xenial Front	0	210	205.68	0	205.68	205.68		
33	T1L16A	Xenial South	0	160	160	0	160	160		
34	R75	Tintoliya Marga	135	135	255	0	255	255		
35	R122	Amar Marga	0	251	251	0	251	251		
36	R18 Branch		0	30	30	0	30	30		
37	R7(b)(Ne uro to sidhartha chowk)	Siddhartha Marga	317	317	148.5	151.5	300	300		
38	R12	Sukra Path	0	953	350	150	500	500		
39	R42	Jahada Marga	0	150	171	0	171	171		
40	R6	Shahi Marg	460	430	430	330	760		760	
41	R21(a)	DharamBadh Junction	0	160	160	0	160	160		
42	R78	Binayak Marga	92	70	70	0	70	70		
43	R188	Shakti Marg		120	120	0	120	120		
44	R40	Brahma Kumari Marga	0	350	300	0	300	300		
45	Rani Site C		0	100	97.5	0	97.5	97.5		
46	Ranit Site D		0	131.45	131.45	0	131.45	131.45		
47	T3L21	Moti Marga	380	380	361	0	361	361		
48	T3L39	Gaheli Marga	0	278	270	0	270	270		
49	T3 Line 39A		0	90	90	0	90	90		
50	T3 L39B		0	50	50	0	50	50		



51	T2L27	Bhumi Prashasan Junction	92	80	80	12	92	92	
52	T4 Line 1	Sailesh Marg	0	197	100	0	100	100	
53	N2			100	95	0	95	95	
54	T2 Line 26E	College Road	80	80	80	0	80	80	
55	T2 Line 18C	Maisthan Marga	0	105	102	0	102	102	
56	T2Line 18A	Makalu Marga	90	90	60	0	60	60	
57	R6 (T3L11i)		0	275	138	0	138	138	
58	R9(T3L1 1k)	Tathasthu Marga	0	200	200	0	200	200	
59	R45 (T3 Line 10D)	Dadhiram Marga	302	302	250	52	302	302	
60	R9, T2 L19	Fanindra Marga	256	256	185.2	70.8	256	256	
61	R7c (Neuro to Shanti Chowk	Siddhartha Marga	240	605	490	115	605	605	
62	R84	School Marga	673	391	463	150	613	613	
63	R85	Lekhanath Marga	162	162	145		145	145	
64	R87	Byas Marga	160	160	170	0	170	170	
65	Rani B (Bus park)		0	120	68		68	68	
66	R8(a)	Madhumara Marg	218	218	141	77	218	218	
67	T3L23A		263.47	263.47		100	100	100	
68	Rani E		85	85	85		85	85	
69	R102	Hamro Marg			132.5		132.5	132.5	
70	R10	Ram Marga	1092.41	180	632.41	400	1032.41	1032.41	
71	N10	APF	154.48	154.48	154.48	0	154.48	154.48	
72	R23	Bani Marg	226.12	226.12	160	66.12	226.12	226.12	
73	R103	Vibuti Marga	173	173	50	123	173	173	
74	P1, T3 L 6A	Pandit Meghnath Marga	280	280	50	110	160	160	
75	T2 L 24 C& D	Hanuman Das Marga	176.93	176.93	110	20	130	130	
76	R99	APF	187	187	0	187	187	187	
77	T2 L25		409	409	0	150	150	150	
78	R20		190	190	0	60	60	60	
79	T2L24F		120	120	0	60	60	60	
80	R105		168.19	168.19	0	168.19	168.19	168.19	
81	R34	Prabhu Marg	151	151	0	130	130	130	
82	R35	Garima Marg	138	138	0	70	70	70	
83	R107		180	180	0	80	80	80	
84	T3L13D		80	80	0	40	40	40	
85	T3L13E		70	70	0	35	35	35	



86	T3L11E	160	160	0	75	75	75	1	
	Total			15200.18	3260.11	18460.29	17700.29	760.00	

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.

Since the contractor has made agreement for the supply of required materials from the crusher, no approval for quarry and borrow sites are required till date. The agreement done with the contractor on this regard has been attached hereby in annex.

Disposal of Spoil and Construction Waste.

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

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

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

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

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



Provision and maintenance of Toilets.

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

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

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

Crushing plants.

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

Asphalt plants and Batching plants.

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

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

Occupational Health and Safety Measures

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

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

Installation of functioning sewers and functioning drainage system including roads/lanes improvement in BMC does not possess any adverse environmental impacts to its surrounding. In fact, these will greatly enhance the living conditions/hygiene of the in habitants and facilitate



transportation. Nevertheless, it is imperative to look into positive as well as negative impacts of such infrastructure development works in the urban area.

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

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

3.6 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 labors have been deployed in civil construction works (i.e. in Road side drain / Sub grading works). The Engineer has issued the format of Social Safeguard Monitoring plan which is attached here with.

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, ChyangbariNaala 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:

Although many grievances were received verbally, only 9 grievances have been registered formally which have immediately been addressed and resolved. This month, no grievances were found to be registered in written from but many grievances were received verbally and were addressed immediately.

Gender Equity and Social Inclusion (GESI):

Activities related to GESI has been monitored and supervised in all Construction sites. During site visit female workers were found in significant minority (7 numbers)at Construction sites, thus Contractor was instructed as follow:

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

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



Status of Social and Environmental Safeguard Measures

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

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

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

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

Status of Relocation of Services

Electric poles were relocated at R90, R21 and DSP Road. Similarly, relocation of water supply pipe lines were done in R101, T3Line 21, etc

Status of Labor at Site

	LA	BOUR	COMP	OSITION		SITION			
LABOUR	LABOUR								BRAHMIN/
CLASS	SKILLED	UNSKILLED	MALE	FEMALE	JANJATI	DALIT	MUSLIM	MADHESI	CHHETRI
LOCAL	44	105	149	4	30	28	5	90	
NON LOCAL	97	281	378	3	111	84	24	160	
INDIAN	6	15	21	0	6	10	0	5	
TOTAL	147	401	548	7	147	122	29	255	

3.7 FINANCIAL PLAN

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



3.7.1DISBURSEMENT RECORDS IN CONSTRUCTION

Table:-5 DISBURSEMENT RECORDS in CONSTRUCTION

S.No	Description	Submission date	Submitted Amount(NRs)	Remarks
1	IPC 01	15 th October 2017	339,105,000.00	Mobilization Advance
2	IPC02	2 nd April 2018	261,501,492.21	
3	IPC 03	1st July 2018	316,582,708.58	
4	IPC 04	1st October 2018	105,227,887.17	
5	IPC 05	2 nd Dec, 2018	95,951,603.44	

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

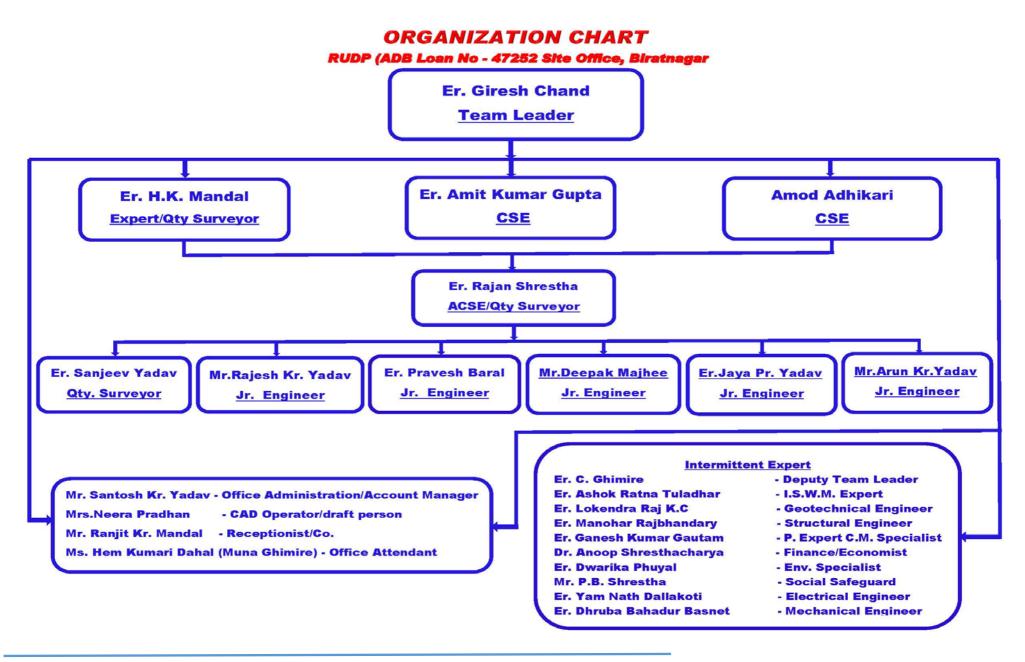
The scope of works for consultant's services is fairly detailed in the TOR attached with contract Agreement. The main points are summarized below:

- 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	Chudamani Ghimire	DTL/Road Engineer	18 th Dec 2018	
3	Ashok Ratna Tuladhar	ISWM (Designer)	6 th Sep 2017	Intermittent
4	Dwarika Phuyal	Environmental Safeguard Expert	1 Nov 2017	Intermittent
5	Prakash Bhakata Shrestha	Social Safeguard Monitoring Expert	26 th dec-2017	Intermittent
6	Hare Krishna Mandal	Expert/Quantity surveyor	1st Nov 2017	
7	J.P Yadav	Construction Supervision Engineer	1st March 2018	Discontinued the service since 25 th April, 2018.
8	A.K Gupta	Construction Supervision Engineer	1st March 2018	
9	Nishant K.C.	Construction Supervision Engineer	2 nd April 2018	Discontinued the service since 1stOctober, 2018.
10	Amod Adhikari	Construction Supervision Engineer	7 th Oct 2018	
11	Rajan Shrestha	ACSE/Quantity Surveyor	7 th Nov 2017	
12	Rajesh Kumar Yadav	Junior Engineer-1	6 th Sep 2017	
13	Sanjeev Yadav	Qty Surveyor	5 th Nov 2017	
14	Santosh Kumar Yadav	OfficeAdministration/Account Manager	6 th Sep 2017	
15	Hem Kumari Dahal (Muna Ghimire)	Office Attendant	6 th Sep 2017	
16	Ranjit Kumar Mandal	Receptionist	10 th Dec 2017	
17	Pravesh Baral	Junior Engineer-2	10 th Dec 2017	
18	J.P Yadav	Junior Engineer-3	1st March 2018	
19	Deepak Majhi	Junior Engineer-4	1st March 2018	
20	Arun Kumar Yadav	Junior Engineer-5	16 th March 2018	
21	Neera Pradhan	CAD operator/Draft Person	10 th Dec 2017	
22	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.

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

The Contractor has informed to borrow RCC NP-3 pipes from 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 Progress Achieved till date

	Target This Month		Achievement This Month		Leading		L	agging	
Month	Monthl y	Accumulate d	Monthl y	Accumulate d	Monthl y	Accumulate d	Monthl y	Accumulate d	Remark s
July-18	0.15%	25.17%	0.78%	25.18%	0.63%	0.01%			Leading
August-18	0.15%	25.32%	2.32%	27.50%	2.17%	2.18%			Leading
September -18	5.71%	31.03%	1.22%	28.72%				-2.31%	Lagging
October- 18	7.72%	38.75%	2.30%	31.03%				-7.72%	Lagging
November -18	7.72%	46.47%	5.20%	36.22%		-10.25%		-10.25%	Lagging
December -18	7.95%	54.41%	5.40%	41.62%		-12.79%		-12.79%	Lagging



5.3 Key Events

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

Table 8: KEY DATES of EVENTS / ACTIVITIES

S. No.	Date	Activities/Events	Remarks
1	2 nd & 3 rd Dec, 2018	ADB (Asian Development Bank) mission visited site and meeting was held with ADB.	
2	17 th to 19 th December 2018.	Deputy Project Director, Mrs. Pragya Manandhar visited the site.	



6 DETAILS OF PRE CAST ACTIVITIES.

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

	Physical Progress till December 2018										
			Pro								
S.N.	Description	Unit	BoQ	Up to Previous month (RM.)	This Month (RM.)	Total to Date (RM.)	Remarks				
1	Precast Slab	No		37,756.00	4,507.00	42,263.00	Under progress				
2	Kerb Stone	Rm	147,729.68	68,785.00	6,040.30	74,825.30	50.65%				

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

December, 2018

	Physical Progress till December- 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	1	336.00					
2	RCC Pipe	450	681.00	681.00	1	681.00					
3	RCC Pipe	500	842.00	842.00	1	842.00					
4	RCC Pipe	600	382.00	382.00	-	382.00					
	Total										

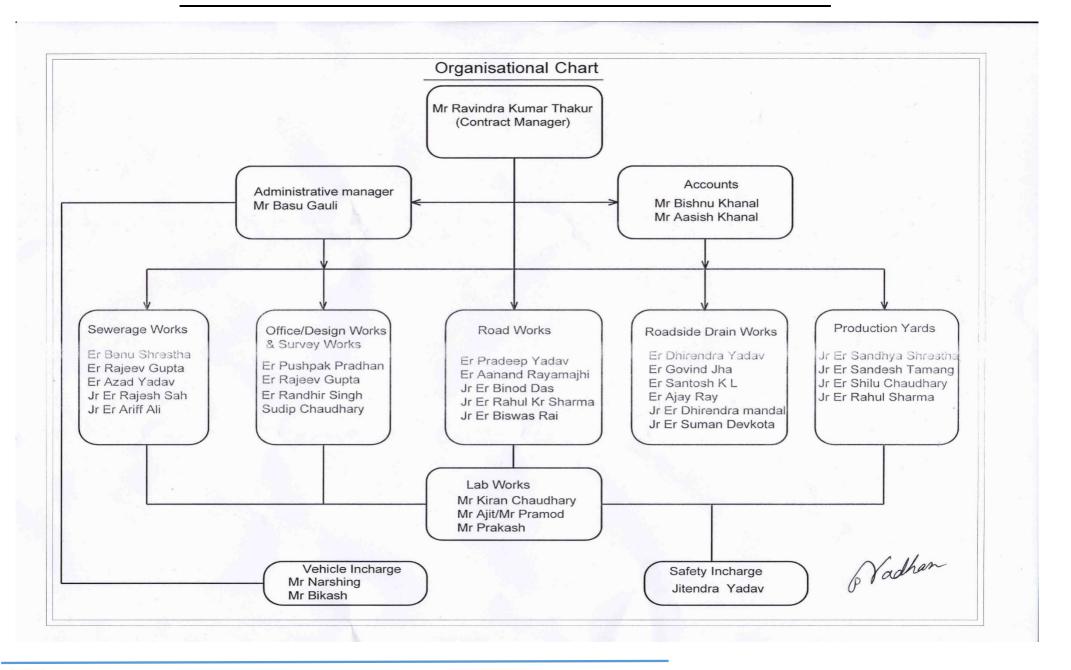
Physical Progress till December- 2018

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

				Progr	ess		
S.N.	Description	Diameter (mm)	BoQ (RM)	Up to Previous month (RM.)	This Month (RM.)	Total to Date (RM.)	Remarks
1	HDPE Pipe	110.00	1,987.20	1,987.20	500	2,487.20	
2	HDPE Pipe	200.00	16,656.00	10,500.00	6000	16,500.00	Under process
3	HDPE Pipe	250.00	115.00	450.00	-	450.00	
	Total						

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

	Physical Progress till December- 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	300	4,800.00						
2	UPVC Pipe	110.00	5,050.00	4000.00	-	4,000.00						





7 CONTRACTOR'S MANPOWER

Table 13: CONTRACTOR'S KEY STAFFS in December, 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	-	14	
8	Sub- Engineer	-	12	
9	Accountant	-	2	
10	Lab Technician	-	1	
11	Store Keeper	-	2	
12	Vehicle Incharge		2	
13	Skilled Labors		108	
14	Unskilled Labors		212	

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	2	
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	13	
12	Chips spreader	1	-	
13	Bitumen decanter minimum 4000 Liters. (preheating container) Air compressor	2	2 2	
14	Excavator (200 above)	5	2	Backhoe loader-9 nos.
15	Tipping Trucks	15	25	
16	Service vehicle	2	5	
17	Survey equipment (Total station with accessories)	1	1	
18	Thedolite	2	-	
19	Levelling	5	18	
20	Mobile Generator 15-20 Kva	3	11	
21	Mixer Machine	6	10	
22	Concrete Batching Plant	1	-	
23	Concrete pump	1	-	



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

WORK PLAN FOR THE NEXT MONTH

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

- Detail Surveying works at various Road sections.
- Road works
- Precast production works at contractor's yard.
- Side drain works.
- Laying of kerb Stone, cover slab and interlocking tiles.
- Sewer inlet and House Connection works.



ANNEX-1: PHOTOGRAPHS OF DECEMBER, 2018



Asphalt Concrete Works at R3 (Dharamban Road)



Asphalt Concrete Works at R3 (Dharamban Road)





Field Density test at R3 (Dharamban Road)



Road Side Drain Works at R10





Road Side Drain Works at R23



Kerbstone works at B2





House connection works



HDEP Pipe lying works for Sewer Works at R107





Site Safety Works at R7



Lab test works





Kerb Stone Laying Works R84



Precast Sewer Ring at Madhumara Yard





ADB Meeting in Municipality Office



Joint site visit of ADB representatives, Employer, Consultants and Contractors





TL, Road Expert (DTL), and Sewage Treatment specialist visiting site jointly

ANNEX-2: MINUTES OF MEETING DECEMBER, 2018

Building Design Authority (P) Ltd



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

Biratnagar Metropolitan city, Biratnagar

MINUTES OF MEETING NO. - 21

Contract: RUDP/ICB/BRT- 02

Date: December 28,2018

Time: 10:30 AM

Venue: PIU Office, Biratnagar

Attendance

Employer:

1. Mr. Bharat Neupane, Project Manager, PIU

2. Mr. Prakash Chaudhary, Deputy Project Manager, PIU

3. Mr. Ghanshyam Kafley Project Engineer, PIU

Consultant:

1. Mr. Giresh Chand , Team Leader

2. Mr. H K Mandal, Expert/Quantity Surveyor

3. Mr. Rajan Shrestha, Engineer/ Quantity Surveyor

4. Mr. Rajesh K Yadav, Jr. Engineer

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

	Minutes	Action by
1.	TL, Mr. Chand briefed about the present status of the project as follows:	•
	Road – 17.6 Km (Asphalt completed)	
	2) Road Side Drain- 18.0 Km completed	DSC/Contracto
	3) Sewer Line- 10.2 Km Storm Water Drain- 570 m	r
	The progress upto 27 December 2018 is 38.00 %	
2.	As raised in ADB mission regarding level difference between	
	Kerbstone top and footpath, TL informed that Road Specialist	Employer/DSC/
	Mr. Chudamani Ghimire visited the site from 19 December 2018 to	Contractor
	26 December 2018.As per his (Road Specialist) observation in	*
	field, he suggested three remedial measures under three different	
	cases:	
	i) For narrow footpath, comprising basically drain cover	.** 4
	slabs and kerbstones, slabs to be removed, the level of	
	drain to be raised (by mortar, concrete or brick as	
	appropriate depending upon the height to be raised),	and the second

Address Bargachhi Pipalchowk-05, Biratnagar Email: rudpbdabrt@gmail.com







Building Design Authority (P) Ltd

in Joint Venture with

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

Biratnagar Metropolitan city, Biratnagar

debris from the drain need to be cleaned and the slabs to be placed in position.

- ii) For wide footpath, drain cover slab is constructed of in situ concrete, gap between road edge and concrete footpath is huge, the electricity poles are erected in the middle of these gaps and tree plantation is planned in near future the gap need to be developed as green belt by filling the depressions and maintaining a gentle slope from road edge to footpath with the provision of grass turf or interlock block
- iii) For level difference of Kerbstone and footpath is minimal say less than 5cm, correction to be made by raising or lowering the kerbstones.

PM agreed and instructed to go ahead as per the Road Specialist recommendation.

fit

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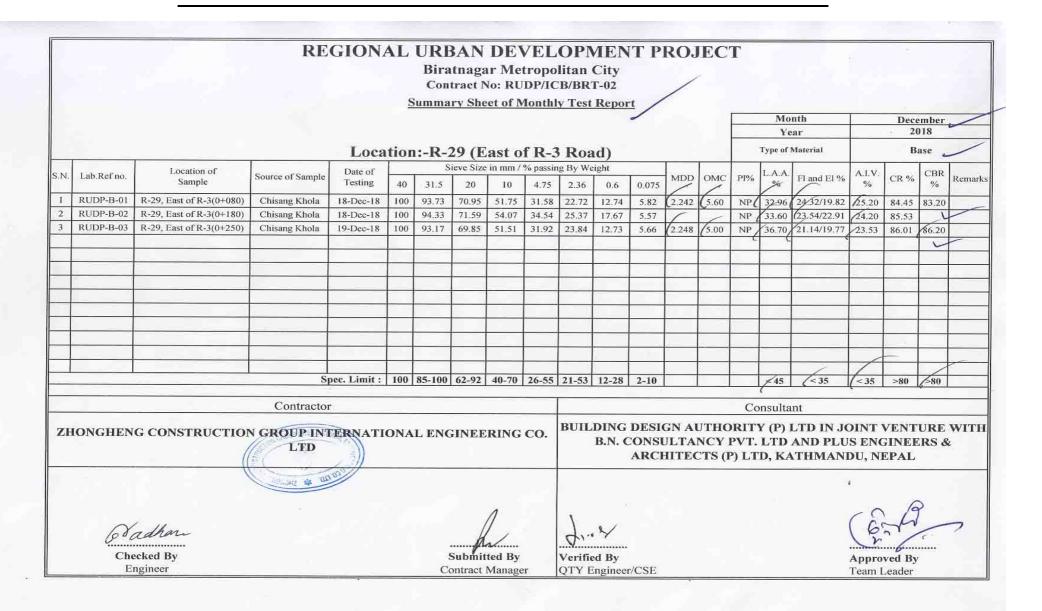
Address Bargachhi Pipalchowk-05, Biratnagar Email: rudpbdabrt@gmail.com



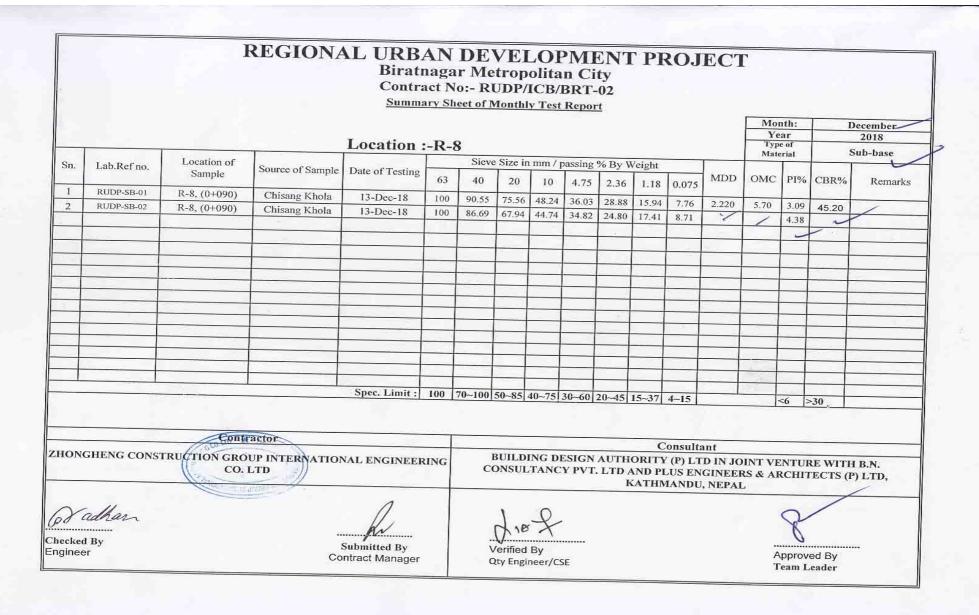
ANNEX-3: LABORATORY TEST RESULTS OF DECEMBER, 2018
Attached













REGIONAL URBAN DEVELOPMENT PROJECT Biratnagar Metropolitan City Contract No:- RUDP/ICB/BRT-02 Summary Sheet of Monthly Test Report Month: December Year 2018 Type of Location:-N-9 Sub-base Material Sieve Size in mm / passing % By Weight Location of OMC PI% CBR% Remarks MDD Source of Sample Date of Testing Sn. Lab.Ref no. 63 4.75 2.36 1.18 0.075 Sample 40 20 10 8.50 1.12 RUDP-SB-01 Chisang Khola 20-Dec-18 100 88.29 67.97 49.24 37.31 34.59 30.37 6.71 2.228 45.40 N-9,(0+100) 1.22 100 95.77 79.04 51.20 39,56 32.75 25.73 5.09 RUDP-SB-02 N-9,(0+200) Chisang Khola 20-Dec-18 Spec. Limit: 100 70~100 50~85 40~75 30~60 20~45 15~37 4~15 <6 >30 Consultant Contractor BUILDING DESIGN AUTHORITY (P) LTD IN JOINT VENTURE WITH B.N. ZHONGHENG CONSTRUCTION GROUP INTERNATIONAL ENGINEERING CONSULTANCY PVT. LTD AND PLUS ENGINEERS & ARCHITECTS (P) LTD, CO. LTD KATHMANDU, NEPAL Approved By Verified By Checked By Team Leader Qty Engineer/CSE Contract Manager Engineer



			R	EGIO	NA	В	RBA iratna iontrac mary S	igar N et No: 1	Aetro RUDP	polita /ICB/F	n Cit BRT-02	y 2	PRO	OJE	CT						
						Dum	IIIIII Y K	SHEET O	1111011	tilly 1	est rec	DOIL				Mo	nth			ember	
																Ye	ear		2	018	
						Loc	ation	:-R-	63							Type of	Material		В	lase	
S.N.	Lab.Ref no.	Location of	Source of Sample	Date of		S	lieve Size	in mm /	% passin	g By We	ight		MDD	OMG	DIO	L.A.A.	F1 1 F1 0/	A.I.V.	CR %	CBR	D 1
3.14.	Lab.Rel III.	Sample	Source of Sample	Testing	40	31.5	20	10	4.75	2.36	0.6	0.075	MDD	OMC	PI%	0/0	Fl and El %	%	CR %	%	Remarks
1	RUDP-B-01	R-63,(0+110)	Chisang Khola	3-Dec-18	100	86.89	72.93	54.65	40.91	32.73	16.87	7.51	2.240	6.00	NP	1/		(22.14	(83.74	84,00	
2	RUDP-B-02	R-63,(0+180)	Chisang Khola	3-Dec-18	100	88.86	73.54	56.98	45.05	33.14	19.97	8.40			NP	(36.20	(23.58/18.88)	25.31	82.72		
-	-												-	-					-		
-							-							-							
			-								-		-								
			S	pec. Limit :	100	85-100	62-92	40-70	26-55	21-53	12-28	2-10				< 45	< 35	< 35	>80	>80	
			Contra	ctor										_	Co	nsulta	nt				
ZH	ONGHENO	G CONSTRUC	CTION GROU	P INTERN	NAT	IONAI	ENG	INEER	RING		B.N. C	CONS	ULTA	NCY	PVT.	Y (P)	LTD IN JO AND PLU ATHMAN	S EN	GINE	ERS &	
			an ob															ŧ			
	(Vas	lhan ed By					A	ted By		Verifie	ed By								oved By		
	Engir	ieer				C	ontract	Manage	er	QTY E	nginee	r/CSE						Team			



REGIONAL URBAN DEVELOPMENT PROJECT Biratnagar Metropolitan City Contract No:- RUDP/ICB/BRT-02 Summary Sheet of Monthly Test Report Month: December Year 2018 Type of Location:-R-17 Sub-base Material Sieve Size in mm / passing % By Weight Location of CBR Sn. Lab.Ref no. Source of Sample Date of Testing MDD OMC PI% Remarks Sample 63 40 0.075 10 4.75 2.36 1.18 RUDP-SB-01 R-17,(0+100) Chisang Khola 19-Dec-18 100 92.04 66.68 53.04 40.42 29.93 20.86 7.46 2.238 5.25 1.52 45.00 2 RUDP-SB-02 R-17,(0+200) Chisang Khola 19-Dec-18 100 90.08 59.95 46.81 37.17 23.29 18.13 10.81 2.233 6.60 1.08 48.00 3 RUDP-SB-03 R-17,(0+310) Chisang Khola 20-Dec-18 100 91.04 62.14 48.53 37.04 22.85 17.03 7.35 1.83 Spec. Limit: 100 70~100 50~85 40~75 30~60 20~45 15~37 4~15 <6 Contractor Consultant BUILDING DESIGN AUTHORITY (P) LTD IN JOINT VENTURE WITH B.N. ZHONGHENG CONSTRUCTION GROUP INTERNATIONAL ENGINEERING CONSULTANCY PVT. LTD AND PLUS ENGINEERS & ARCHITECTS (P) LTD, CO. LTD KATHMANDU, NEPAL Wadhan Checked By Submitted By Verified By Approved By Engineer Contract Manager Qty Engineer/CSE Team Leader

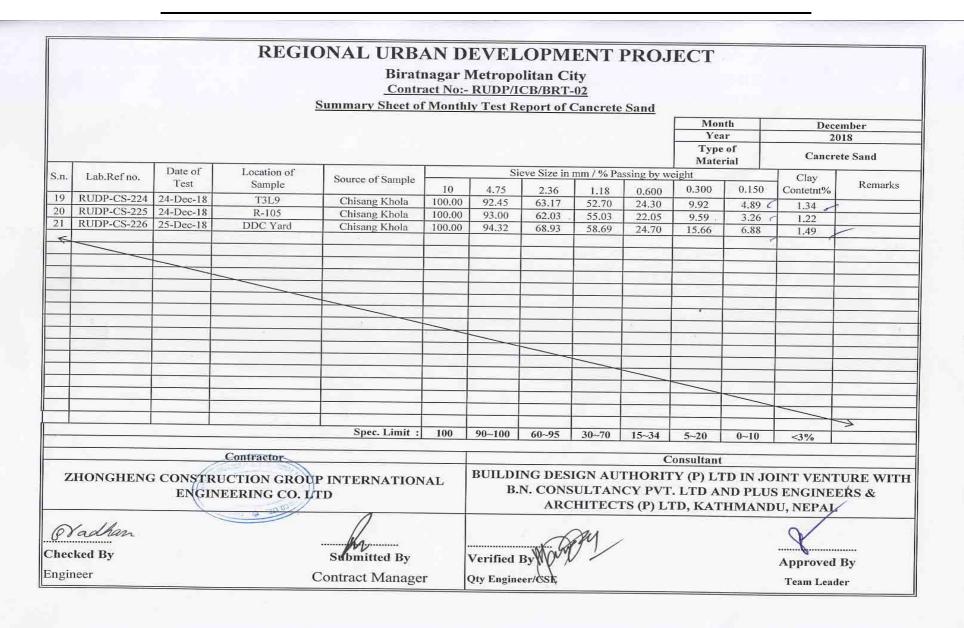


REGIONAL URBAN DEVELOPMENT PROJECT Biratnagar Metropolitan City Contract No:- RUDP/ICB/BRT-02 Summary Sheet of Monthly Test Report Month: December Year 2018 Type of Location :- N-36 Sub-base Material Sieve Size in mm / passing % By Weight Location of Sn. Lab.Ref no. Source of Sample Date of Testing Sample MDD OMC PI% CBR% Remarks 63 40 20 4.75 2.36 1.18 0.075 RUDP-SB-01 N-36,(0+090) Chisang Khola 19-Dec-18 100 87.45 68.87 33.09 44.12 26.93 18.16 5.22 2.229 6.50 1.35 46.00 Spec. Limit: 100 70~100 50~85 40~75 30~60 20~45 15~37 4~15 Contractor Consultant ZHONGHENG CONSTRUCTION GROUP INTERNATIONAL BUILDING DESIGN AUTHORITY (P) LTD IN JOINT VENTURE WITH B.N. CONSULTANCY ENGINEERING CO. LTD PVT. LTD AND PLUS ENGINEERS & ARCHITECTS (P) LTD, KATHMANDU, NEPAL Checked By Submitted By Verified By Approved By Engineer Contract Manager Qty Engineer/CSE Team Leader



		4	REG	ONAL UR	BAN	DEVE	LOPI	MENT	PRO	JECT			
				Bir: Cor	atnaga itract N	r Metro o:- RUDF	politan P/ICB/BF	City RT-02					
				Summary Sheet	of Mor	thly Test	Report o	of Cancre	ete Sand				
										Mor	nth	Da	cember
										Ye	5,4 P R II		2018
										Type Mate	e of		rete Sand
S.n.	Lab.Ref no.	Date of	Location of	Source of Sample		Si	eve Size in	mm / % Pa	ssing by w	eight		Clay	,-
	and it to !	Test	Sample	Source of Sample	10	4.75	2,36	1.18	0.600	0.300	0.150	Contetnt%	Remarks
1	RUDP-CS-206	2-Dec-18	R-23	Chisang Khola	100.00		69.18	62.33	21.49	15.33			
2	RUDP-CS-207	3-Dec-18	R-84	Chisang Khola	100.00	92.90	65.71	53.35	19.78	12.60	5.58	1,73	
3	RUDP-CS-208	3-Dec-18	DDC Yard	Chisang Khola	100.00	192.32	67.89	58.81	27.40	16.75	- AA-3C96	1.65	
4	RUDP-CS-209	6-Dec-18	R-10	Chisang Khola	100.00	91.69	71.03	60.64	31.57	16.75	7.68	1.35	
5	RUDP-CS-210	8-Dec-18	T3L24C	Chisang Khola	100.00	92.35	67.44	51.78	25.20	15.29	8.74	1.50 2.37	
6	RUDP-CS-211	8-Dec-18	T3L25	Chisang Khola	100.00	92.12	70.50	52.66	31.04	15.68	7.95	2.37	
7	RUDP-CS-212	9-Dec-18	koshi-yard	Chisang Khola	100.00	94.99	67.46	53.78	30.54	12.22	5.01	2.05	
8	RUDP-CS-213	10-Dec-18	T2L24C	Chisang Khola	100.00	92.18	66.24	57.65	27.04	14.54	6.80	2.05	
9	RUDP-CS-214	15-Dec-18	R-23	Chisang Khola	100.00	97.23	69.48	55.39	24.44	13.23	4.70	1.11	
0	RUDP-CS-215	15-Dec-18	Madhumara-yard	Chisang Khola	100.00	92.23	62.59	51.90	24.68	14.97	6.32	1.78	
11	RUDP-CS-216	15-Dec-18	N-10	Chisang Khola	100.00	92.56	62.30	51.88	24.11	15.38	6.45	1.78	
12	RUDP-CS-217	16-Dec-18	R-7	Chisang Khola	100.00	92.75	65.05	55,50	28.07	14.13	5.50	1.21	
13	RUDP-CS-218	17-Dec-18	T3L7A	Chisang Khola	100.00	92.37	63.78	54.25	31.43	10.34	5.72	1.80	
4		18-Dec-18	R-6	Chisang Khola	100.00	94.19	72.55	63.15	30.98	10.19	5.64	1.31	
15		21-Dec-18	N-10	Chisang Khola	100.00	93.10	70.51	60.89	32.31	10.81	3.90	1.93	
6	the property of the party of th	22-Dec-18	R-103	Chisang Khola	100.00	93.76	73.12	65.24	30.58	9.74	4.18	1.46	
7	RUDP-CS-222	23-Dec-18	R-10	Chisang Khola	100.00	94.23	74.87	65.35	26.77	9.38	2.82	1.90	/
8	RUDP-CS-223	24-Dec-18	Madhumara-yard	Chisang Khola	100.00	94.82	70.42	62.54	25.38	9.98	4.13	1.75	
												1.1.0	
				Spec. Limit :	100	90~100	60~95	30~70	15~34	5~20	0~10	<3%	
			Contractor							Consulta	nt		
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6	Yadhan			ha		\$	A STATE	y/				E	
hec	ked By			Submitted By		Verified 1	Ry/					Approve	 l Bv
ngir	neer		C	ontract Manage	r	Qty Engine	er/CSE					Team Lea	







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						RUDP/IC							
				Summary Sheet o	Month	ly Test R	eport (of 20mn	1 Agg.				
									Moi			De	cember
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	745 S 575 W		Face Comme		li man				Type of N	Material		20 1	mm Agg
S.n.	Lab.Ref no.	Date of Testing	Location of Sample	Source of Sample		Size in mm			L.A.A.%	Fl and EI	% A.I.	7.07	
1	RUDP-CA-206	2-Dec-18	N-10	Chisang Khola	100.00	20	10	4.75					Remarks
2	RUDP-CA-207	3-Dec-18	T2L24C	Chisang Khola	100.00	96.89	34.03	1.55	29.98	18,61/15.9		10	
3	RUDP-CA-208	4-Dec-18	R-23	Chisang Khola	100.00	97.90	30.63	1.60	30.10	19.04/15.	120	74	
4	RUDP-CA-209	5-Dec-18	R-23		100.00	96.54	28.23	1.89	26.98	20.37/18.4			//
5	RUDP-CA-210	6-Dec-18	T3L6A	Chisang Khola	100.00	97.39	36.38	2.46	25.98	20.19/18.2			
6	RUDP-CA-211	7-Dec-18	R-84	Chisang Khola	100.00	97.39	33.98	3.08	26.10	18.06/17.1		07	//
7	RUDP-CA-212	8-Dec-18	R-84 R-9	Chisang Khola	100.00	96.73	33.06	2.37	27.60	19.43/18.4			//
8	RUDP-CA-213	9-Dec-18	R-103	Chisang Khola	100.00	96.52	30.12	3.57	/24.32	19.02/18.9		11 _	
9	RUDP-CA-214	10-Dec-18	R-103	Chisang Khola	100.00	96.71	41.41	3.67	26.82	19.98/18.2	22 21.	16 _	
0	RUDP-CA-215	11-Dec-18	R-103	Chisang Khola	100.00	96.69	41.70	3.97	25.18	18.34/17.7	78 17.	15 -	
	RUDP-CA-216	13-Dec-18	R-12 R-45	Chisang Khola	100.00	96.85	31.03	2.98	26.02	18.55/17.3	34 18.	73	
	RUDP-CA-217	15-Dec-18	T3L23A	Chisang Khola	100.00	96.32	40.48	2.47	32.02	18.75/17.2			
	RUDP-CA-218	18-Dec-18	- T3L7A	Chisang Khola	100.00		40.71	2.25	26.10	18.35/16.2	23 19.	0 -	
_	RUDP-CA-219	20-Dec-18	T2L25	Chisang Khola	100.00	96.38	32.23	1.56	26.02	19.68/16.1	9 18.	1 _	
_	RUDP-CA-220	21-Dec-18	T2L23	Chisang Khola	100.00		28.94	3.46	25.20	21.32/16.2	27 21.5	6	
_	RUDP-CA-221	21-Dec-18		Chisang Khola	100.00	98.43	28.48	3.73	26.02	20.46/17.2	26 21.3	7	
	RUDP-CA-222	21-Dec-18	R-105	Chisang Khola	100.00	98.37	33.12	3.17	26.02	19.96/16.8	7 18.9	2-	
	RUDP-CA-223	23-Dec-18	R-34 R-34	Chisang Khola	100.00		29.73	2.04	27.00	19.80/17.5	7 20.9	0	
	11022 011223	23-DCC-16	R-34	Chisang Khola	100.00	97.84	28.68	2.58	25.78	21.03/16.6	0 19.9	7	
-4-									~	5	/	_	
				Spec, Limit :	100	95~100	25~55	0~10	<35	< 25	< 2	5	
		Con	itractor							Consultant			
2	CHONGHENO	G CONSTRUCT	ION GROUP	INTERNATIONA	VT.	BUILDI	NG DI	ESIGN A	UTHORI	TY (P) L7	TD IN JO	INT	VENTURE WIT
		ENGINEER	ING CO. LTI)		B.	N. COI	NSULT	ANCY PV	T. LTD A	ND PLII	SENC	GINEERS &
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			<u>Si</u>	ımmary Sheet of	Month	y Test R	eport o	f 20mm	Agg.			
									Mor	ith		December
									Yes	ar		2018
									Type of N	(aterial	20	mm Agg
S.n.	T. I. D. C.	n	Location of		Siove 9	Size in mm	/0/ D	V	-3 pc 02.1	auter int		min Agg
5.n.	Lab.Ref no.	Date of Testing	Sample	Source of Sample	40	20	10	4.75	L.A.A.%	Fl and EI	% A.I.V.%	Remarks-
19	RUDP-CA-224	24-Dec-18	T3L9	Chisang Khola	100.00	97.56	35.00	1.72	26.02	21.24/17.4	5 25.19	
20	RUDP-CA-225	26-Dec-18	Koshi-yard	Chisang Khola	100.00	96.82	30.94	1.54	25.12	21.43/18.3		
21	RUDP-CA-226	27-Dec-18	Madhumara-yard	Chisang Khola	100.00	96.83	41.40	2.42	29.78	21.31/17.1	1.75117.4.5.757.5.5111	
		ii.			200100	70.03	11.10	2.72	29.76	21.51/17.1	0 20.73	
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				Spec. Limit:	100	95~100	25~55	0~10	<35	< 25	< 25	
											1 - 25	
		C	ontractor						(Consultant		
										Jonsuitant		
	THONCHEN	CONCEDE	THOM CDOWN	NTERNATION		BUI	DING	DESIG	N AUTHO	RITY (P)	TD IN IO	INT VENTURE
	LHONGHEN	CONSTRUC	TION GROUP	NTERNATION	AL	WITT	DN	ONICH	TEANOR	OTTO TOTAL	LID IN JO	INI VENIURE
		ENGINEE	ERING CO. LTD			*****	D.11.	UNSU	LIANCY	PVI. LID	AND PLUS	ENGINEERS
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REGIONAL URBAN DEVELOPMENT PROJECT

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

Daily Application Rate Check for TACK COAT

Type of Bitumen:80/100 P.G

SUMMARY FOR THE MONTH OF DECEMBER 2018

S.N.	Location	Date of Tack coat	St From	ation	Side of	Area of	Intersection	Total	Bitumen	Application Rate	Application Rate
1	R-3	1		to	Tack coat	Tack coat	Area m2	Area M2	Consumption	By Dip Lit/m2	Bt Tray Test Lit/m:
		6-Dec-18	1+380	1+545	BHS	1227.6	0	1227.60	750	0.61	0.55
2	R-3	7-Dec-18	1+545	1+910	BHS	2715.6	0	2715.60	1650	0.61	0.56
3	R-3	8-Dec-18	1+910	2+220	BHS	2306.4	0	2306.40	1400	0.61	0.50
4	R-7	11-Dec-18	0+000	0+242	BHS	946.22	0	946.22	600	0.63	0.56
5	R-2	11-Dec-18	0+000	0+250	BHS	2626.5	0	2626.50	1650	0.63	0.57
6	R-2	12-Dec-18	0+250	0+440	BHS	1905.5	0	1905.50	1150	0.60	0.55
7	R-2	14-Dec-18	0+440	0+600	BHS	1628.8	0	1628.80	1050	0.64	0.57
8	Rani-site (Bhattinode)	16-Dec-18	0+020	0+450	BHS	3882.9	77.75	3960.65	2700	0.68	0.57
9	R-5 (South of Traffic Chowk)	27-Dec-18	0+000	0+600	BHS	3840	0	3840.00	2200	0.57	0.55
								Total	13150		
				1							
			1								

Required tack coat is 0.40 to 0.60Lit/M2 According to Road Note -3,Section 711.2

Specific Gravity of Bitumen 1.028

Contractor

ZHONGHENG CONSTRUCTION GROUP INTERNATIONAL ENGINEERING CO. LTD

Consultant

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

6 8adhan

Checked By Engineer Submitted By
Contract Manager

Verified By QTY Engineer/CSE Appr

Approved By Team Leader



				REGIONA	AL URBAN I	DEVELOP	MENT PRO	JECT					
					Biratnagar	Metropolit	an City						
					Contract No:	RUDP/ICI	B/BRT-02						
			- 1	Daily App	lication Ra	te Check	for Primino	work					
Гуре с	of Bitumen:80/100 P.G				OR THE MOI								
	Percentage:MC 70:MC	30				1111 O. B	LOLINDLIX	2010					
SN	Location	Date of		ation	Side of	Area of	Intersection	Total	Bitumen	Application	Rate	Application	. Dat
NO 1	D.7	Priming	From	to	Priming	Priming	Area m2	Area M2	Consumption (ltr)	The state of the s	CONTRACTOR !	Bt Tray Test	
2	R-7	06-Dec-18	0+000	0+242	Both Side	825.22	0	825.22	900	1.09	-	1.05	
	R-2	09-Dec-18	0+000	0+290	Both Side	2995.7	0	2995.7	3200	1.07	-	1.03	_
3	R-2	10-Dec-18	0+290	0+440	Both Side	1516.5	0	1516.5	1650	1.09	-	1.05	-
4	R-2	13-Dec-18	0+440	0+600	Both Side	1625.8	0	1625.8	1700	1.05	-	1.02	/
5	Rani-site(Bhattimode)	15-Dec-18	0+020	0+450	Both Side	3930.2	0	3930.2	4200	1.07	1	1.03	-
6	R-5(South of Traffic Chowk)	26-Dec-18	0+000	0+600	Both Side	2995.7	0	2995.7	3200	1.07		1.04	
<								Total	14850				
		L				r							
												>>	
	Requ	ired spec	ification	for Prim	e coat 1.0 L	it/M2 + 59	% Specific	c Gravity	of Bitumen	020		/	
			ntractor	Tropic .			орссии	o Gravity			1		
		Col	itractor	- Carrier					Consultan				
ZHON	GHENG CONSTRUCT	ON GROUI	INTERN	ATIONAL E	NCINEEDING	00 1 70	BUILDING D	ESIGN AU	THORITY (P) LT	D IN JOIN	TVE	ENTURE W	VITH
		ON CINDOI	INTERN.	A HONAL E	NGINEERING	CO. LID	B.N. CC	NSULTAN	CY PVT. LTD AN	ID PLUS E	NG	NEERS &	
								RCHITECT	S (P) LTD, KAT	HMANDU,	NEF	AL	
V	16				Λ			14			0	/	
plas	lhan						1/1	Me X			do		
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			Project:F							2.74	(UDP)		Material Pro-			
			SUMMARY								OURS	E				
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			Test Re	Contrac) I 245-	·/8)					
RE	AB EF.	Date of	Location of Work ch:	Jonardo			Agg Grad	dation	±1141		Bitumen Content From	Mix Density	Air Voids	VMA %	Stability	P.g 1of
No. N	О.	Laying	Estation of Work en	20	16	9.5	4.75	2.36	0.6	0.075	Extraction Test %	gm/cc	%	VIVIA 76	N	Flow mi
1 3	9	6/12/2018	R-3Line,CH: 1+380 to 1+545	100	100	77.62	54.72	35.21	17.18	6.15	5.70	2.365	3.63	16.74	13299	2.38
2 4	0	7/12/2018	R-3 Line,CH:1+545 to 1+910	100	100	77.42	54.73	35.01	17.20	6.39	5.68	2.367	3.56	16.64	12245	2.28
3 4	1	8/12/2018	R-3 Line,CH:1+910 to 2+220	100	100	77.31	55.15	35.00	17.61	6.58	5.70	2.366	3.56	16.68	11780	2.43
4 4:	2	11/12/2018	R-7 Line,CH:0+000 to 0+242	100	100	77.19	55.13	34.77	17.58	6.44	5.73	2.366	3.52	16.71	12385	2.50
5 43	3	11/12/2018	R-2Line,CH:0+000 to 0+250	100	100	77.31	55.57	34.78	17.39	6.15	5.70	2.367	3.53	16.66	12261	2.43
			Specifacations	100	100-100	76-82	54-59	33-37	18-21	6 to 9	5,703	Min2.358	3-6%	∕ ≥ 15	≥ 8500	2-3
		lob Mix Toleran	ces from RUDP Specifacation Table2-4-10	±5%	Nill	±5%	±3%	±2%	±1%	Nill	±0.3%	For (25-51)mm	Thicknes	s W/C Co	urse
REM	AR	KS:														
Test	c	 Sr,Lab Te 	nnician (k) clup	Zhonghe	Submitte ontract M ng Const	2	/ ·			BUILDING	B.N. Co	AUTHOR	by/ Appro TTY (P) LT PVT .LTD	ved by: D IN Join AND PLU	JS Engine	

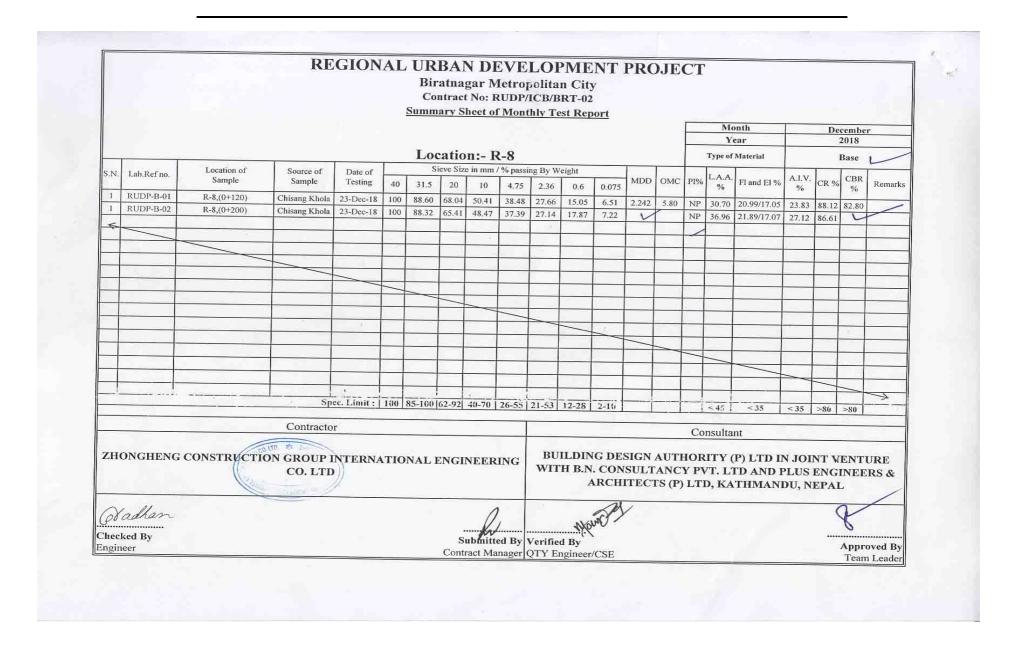


6 44 12/12/2018 R-2 Line,CH: 0+250 to 0+440 7 45 14/12/2018 R-2 Line,CH: 0+440 to 0+600 8 46 16/12/2018 Rani SiteBhattimod,CH:0+020 to 0+450	100	100	78.69 78.79	55.57 55.67	34.78	16.75	6.36	5.70	2.361	3.79	16.75	13098	2.45
6 44 12/12/2018 R-2 Line,CH: 0+250 to 0+440		20											
	100	100	78.15	55.67	35.09	16.64	6.03	5.71	2.363	3.68	16.8	11889	2.50
S. LAB Date of Laying Location of Work ch:	20	16	Mix / % Passin	Agg Grad ng Sieve S 4.75		0.6	0.075	Bitumen Content From Extraction Test %	Mix Density gm/ce	Air Voids	VMA %	Stability N	Flow mn



			R	EGION						OJECT				4
						tnagar I								
						tract No:-					W.T.			
					<u>SU</u>	MMARY SH	EET OF CEN	VIENT TEST			Month	1	Dece	mber
											Year			018
	Lab			Consist	ancy & Setting	Time	Soundness	Fineness	Date of	Date of	Testing	Streng	th N/mm²	
.N.	Ref.no.	Type of cement	Tetsing Date	Normal Cons.(% Initial(Min)	Final (min)	(mm)	(%)	Casting	7 Days	28 Days	7 days	28 Days	Remar
1	27	Salimar OPC	3-Nov-18						4-Nov-18	11-Nov-18	2-Dec-18		47.61	
2	28	Salimar OPC	11-Nov-18						12-Nov-18	19-Nov-18	10-Dec-18		45.89	
3	29	Saptakoshi OPC	4-Dec-18	30.25	117.00	283.00	2.28	2.82	5-Dec-18	12-Dec-18	2-Jan-19	35.18	L	
4	30	Saptakoshi OPC	17-Dec-18	29.25	134.00	280.00 /	1.86	2.83	18-Dec-18	25-Dec-18	15-Jan-19	36.41		
5	31	Jagdamba OPC	21-Dec-18	31.25	105.00 -	216.00	1.90	2.50	22-Dec-18	29-Dec-18	19-Jan-19	38.74		
				37				7 +-						
														-
ш		Sn I	imit:		Min-30	Max-600	<10	<10				>33	>A3	
om	ments:-	3p.r	anne.		14111-30	WILL OUG	/	1 120					/	/
							***						1	
-			Contra	etor			T			Consultar	nt			
	ZHO	ONGHENG CON	ISTRUCTION NGINEERIN	G CO. L/TD	TERNATIO	NAL			PVT. LTD A	RITY (P) LTI ND PLUS ENG ATHMANDU,	GINEERS &			
	P	ad han necked By		<i>F</i>	N		V-ic	lom of				2	Approved	D.,







	KEGI	<u>C</u>	RBAN DE iratnagar Me ontract No:- Ri ummary Sheet of M	tropolitan C UDP/ICB/BRT	ity I-02	PRO	OJE	CCT	
						Moi Ye			cember
						Тур	e of		2018 grade
Sn.	Lab.Ref no.	Location of Sample	Source of Sample	Date of Testing	MDD	OMC OMC	PI%		Remarks
1	RUDP-S-01	N-2, (0+060)	Existing Road	15-Dec-18	1.970	8.40	11.83	6.60	
-						/	V	V	•
			w/						
							-		
									Z
ZHONO	CHENG CONSTR	UCTION GROUP NEERING CO. LT	INTERNATIONAL D	BUILDING DES VENTURE WITH PLUS ENGI	I B.N. CC	ONSULTA & ARCH	ANCY ITECT	PVT. LT	DAND
(pV cas	shan		Submitted By	9.2.8.			6	•	
Enginee	r ⁷		Contract Manager	Verified By Qty Engineer/CSE			Approve Feam L		



	REGIO	ONAL U	Biratna Contract	gar M No:- I	EVELO] letropolita RUDP/ICB/ of Field Densi	n City /BRT-02	T PRO	JECT	
			Summar	y Silcet	of Field Densi	ty Test	Month	Dece	mber
L				Locati	on:-N-2	T	Year ype of Material	20 Sub-C	
				Moistu	re content %	Density	(gm/cc)	Compac	ction %
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	16-Dec-18	0+030	8.40	6.53	1.970	1.918	97.37	95
2	RUDP-SG-FD-1, R/S		0+050	8.40	6.57	1.970	1.906	96.75	95
753	RUDP-SG-FD-1, L/S	16-Dec-18	0+090	8.40	7.12	1.970	1.874	95.11	95
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		ractor			DUIT DYSSO		Consultant		
HU	NGHENG CONSTRUCTION	ON GROUP IN NG CO. L.TD	TERNATIO	ONAL	BUILDING DE WITH B.N. CO	SIGN AUTH	ORITY (P) L	TD IN JOINT V AND PLUS EN	VENTURE
-	11000	1811			& ARC	HITECTS (P	LTD, KATH	MANDU, NEP	AL
	мония	HUOKS	1		, &			2	
	Coradhan		de		4,00			1	
	Checked By	Sub	mitted By		erified By		 A	pproved By	
	Engineer	Contr	act Manage		Qty Engineer/CS		Te	eam Leader	
_									



I 2	ab.Ref no. RUDP-S-01 RUDP-S-01 RUDP-S-03	R-17 (0+100) R-17 (0+250)	Source of Sample Existing Road	Date of Testing	MDD	Typ Mate		Sub	grade		
I 2 3	RUDP-S-01 RUDP-S-01	R-17 (0+100) R-17 (0+250)	Existing Road			ОМС	PI%	CBR%			
2 3	RUDP-S-01	R-17 (0+250)		9-Dec-18	-		/	CDIC	Remark		
3			The state of the s	7 DCC-18	(1.928	6.10	8.29	6.66	1		
	KODI -3-03		Existing Road	10-Dec-18	1.902	/7.40	11.82	6.90			
,		R-17 (0+350)	Existing Road	10-Dec-18	1	(10.52		_		
						-	/				
									-		
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									-		
HONGH	ENG CONST	RUCTION GROUP INEERING CO. LTI	INTERNATIONAL)	PLUS ENGINEERS & ARCHITECTS (P) LT					DAND		
Yadha hecked By	***			Verified By Qty Engineer/CSE	Yerified By			Approved By Team Leader			



	REGIO	1	Biratna Contract	gar M t No:- R	VELO etropolita UDP/ICB/ of Field Densi	an City BRT-02	NT PRO	JECT	
							Month*	Decen	
			Loc	ation:-R	-17		Year Type of Material	201	
				Moistur	e content %	Dens	sity(gm/cc)	Sub-G Compac	
Sn.	Lab.Ref.no	Testing Date	Chanage	OMC%	Field MC%	Max.Dr density gm/cc	density,	Compaction	Specifie
1	RUDP-SG-FD-1, L/S	14-Dec-18	0+100	6.10	6.98	1.928	0	%	
2	RUDP-SG-FD-1, R/S	14-Dec-18	0+125	6.10	6.96	1.928	1.834	95.15	95
3	RUDP-SG-FD-1, L/S	14-Dec-18	0+200	6.10	7.06	1.928	1.856	96.00	95
4	RUDP-SG-FD-1, R/S	14-Dec-18	0+320	7.40	6.15	1.902	1.852	96.26	95
K				71.10	0.15	1.902	1.832	97.37	95
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	Cont	ractor					Consultant		
CHO	NGHENG CONSTRUCTION	ON CDOLD	TEDA	F	BUILDING DE	SIGN AL	THORITY (P) L	ED IN TOTAL	DESIGNATION OF
	ENGINEERI	NG CO. LTD	I ERNATI(UNAL Y	VITH B.N. CC	INSULTA	NCY PVT. LTD A	AND PLUS ENG	GINEERS
	Nadhan	aut os	0		128	1	(2	
	grawiin		KN		41.	_		0	
	Checked By		mitted By		Verified B	у	 A	pproved By	
	Engineer	Contr	act Manager	n .	Qty Engineer			eam Leader	



of Source of S 50) Existing F		ate of Testing	MDD (1.990	Mol Yee Typ Mate OMC	ear e of	2	grade Remark
Source of S				Typ Mate	e of erial PI%	Sub CBR% 7.59	grade
Source of S						7.59	Remark
50) Existing F	Road	16-Dec-18	1.990	8.40	10.47	-	
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			Co	nsultant			
OUP INTERNATI D. LTD	ONAL VE	PUIL DING DECIGN AUTHORITY OF THE					
and the same of th	<i>d</i>	4.0×'					
Submitted Contract Mar		Verified By Qty Engineer/CSE					
		Submitted By Verifi	Submitted By Verified By	Submitted By VENTURE WITH B.N. CO PLUS ENGINEERS KATHM Verified By	Submitted By VENTURE WITH B.N. CONSULT PLUS ENGINEERS & ARCH KATHMANDU, N	Submitted By VENTURE WITH B.N. CONSULTANCY PLUS ENGINEERS & ARCHITECT KATHMANDU, NEPAL Verified By Verified By Approve	Submitted By VENTURE WITH B.N. CONSULTANCY PVT. LT PLUS ENGINEERS & ARCHITECTS (P) LT KATHMANDU, NEPAL Verified By Approved By



	REGIO	ONAL U	Biratna Contract	gar M : No:- R	etropolita UDP/ICB/	n City BRT-02	T PRO	JECT	
		0	Summar	y Sheet	of Field Densi	ty Test			
							Month Year	Decen 201	
				Locatio	on:-N-3	Т	ype of Material	Sub-G	
				Moistur	re content %		y(gm/cc)	Compac	
Sn.	Lab.Ref.no	Testing Date	Chanage	OMC%	Field MC%	Max.Dry density gm/cc	Field Dry density, gm/cc	Compaction %	Specified %
1	RUDP-SG-FD-1, R/S	16-Dec-18	0+020	8.40	6.80	1/.990	1.919	96.41	95 1
2	RUDP-SG-FD-1, R/S	16-Dec-18	0+050	8.40	7.71	1,990	1.907	95.82	95
3	RUDP-SG-FD-1, L/S	16-Dec-18	0+090	8.40	6.61	/1/990	1.926	96.78	95
3	RUDP-SG-FD-1, R/S	16-Dec-18	0+120	8.40	6.30	1.990	1.898	95.39	95
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	Com	tractor					Consult		
ТОНО	NGHENG CONSTRUCT		TERNATI	IONAL	BUILDING DI	ESIGN AUT	Consultant HORITY (P) L	TD IN JOINT	VENTURE
	ENGINEER	ING CO. LTD	- Line Wall	J. MIL	WITH B.N. CO	ONSULTAN	CY PVT. LTD	AND PLUS EN	GINEERS
	Zmouvman.	- /			& ARC	HHECTS (I	P) LTD, KATI	IMANDU, NEP	AL
	- Comment	TO TO	À		, 2/			0/	
	(pradan		111	*	7.07			K	
	Checked By		JAV.		1				
	Engineer		bmitted By ract Manage		Verified By Qty Engineer/CS	F		approved By	
	The Marie St.	Com	irimiagi		ary riigineer/CS) L		eam Leader	



	REGION	Bir: Con	atnaga tract N	r Metr o:- RUD	ELOPN opolitan P/ICB/BR	PROJECT			
							Month	Dece	enber
			Locatio	on:-R-8			Year		18
			Locatio	Moistur	e content %	Dens	Type of Material ity(gm/cc)	Sub-	Base ction %
Sn.	Lab.Ref.no	Testing Date	Chanage		Field MC%	Max.Dr		Compac	
-	DUIDE OF THE		,115	OMC%	Field MC%	density		Ation	ed
2	RUDP-SB-FD-1, L/S		0+080	5.70	4.55	2.220	2.157	97.15	95
3	RUDP-SB-FD-1, R/S	17-Dec-18	0+140	5.70	5.06	2.220	2.136	96.22	95
4	RUDP-SB-FD-1, L/S RUDP-SB-FD-1, L/S	17-Dec-18	0+160	5.70	5.06	2.220	2.134	/96.13	95
	KUDP-SB-FD-1, L/S	17-Dec-18	0+210	5.70	4.15	2.220	2.174	97.93	95
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	Contracto					Consul	tant		
IN	CHONGHENG CONSTRU TERNATIONAL ENGINE	CTION GROU EERING CO. L	P TD V	VIIH B.N.	CONSULTAN	THORITY CY PVT.	(P) LTD IN JO LTD AND PLUS	ENGINE	URE ERS &
Ya	dhan	1,		Las	/	, , LID, K	ATHMANDU, N	NEPAL	
cked		ubmitted By tract Manager		erified By	/CSE) oproved By eam Leade	



		C			UDP/ICB/I				
			Summary	Sheet o	f Field Densit	y Test	Paranti coati		
						-	Month Year	Decem 2018	
			Lo	cation:-N		Ty	pe of Material	Sub-Ba	
	7.4.5.4				e content %		(gm/cc)	Compact	
n.	Lab.Ref.no	Testing Date	Chainage	OMC%	Field MC%	Max.Dry	Field Dry	Compaction	-
f i	RUDP-SB-FD-1, RHS	22 D 10	01050			density	density,	%	%
_	RUDP-SB-FD-1, LHS	The second of th	0+050	5.50	5.19	2.228	2.136	95.88	95
-	RUDP-SB-FD-1, CL	23-Dec-18	0+160	5.50	5.92	2.228	2.126	95.44	95
-	RUDP-SB-FD-1, LHS		0+190	5.50	5.03	2.228	2.150	96.51	95
t	RUDF-SB-FD-1, LHS	23-Dec-18	0+220	5.50	5.19	2.228	2.124	95.32	95
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11/		tractor		200	RITION	NC DESIGN	Consultant	(P) LTD IN JO	MAINE
11(ONGHENG CONSTRUCT	RING CO. LTD	NIEKNAT	IONAL	VENTURE V	VITH B.N. CO	ONSULTANC	Y PVT. LTD A , KATHMAND	ND PLUS
	rdhan	<u>≥ un'025</u>	A		7."		Q		
	ed By eer		ubmitted By tract Mana		Verified Qty Engines			Approved By Team Leader	



		-	mmary Sheet of M	Ionthly Test Re	ort	Moi	ıth.	, n	0.150
						Ye	OCCUPATION OF THE PROPERTY OF		ember 2018
-			Locatio	n:-N-9		Type Mate		Sub	grade
Sn.	Lab.Ref no.	Location of Sample	Source of Sample	Date of Testing	MDD	OMC	PI%	CBR%	
1	RUDP-SG-01	N-9,(0+050)	Existing Road	16-Dec-18	1.990	7.50	10.11	7.80	-
2	RUDP-SG-01	N-9,(0+150)	Existing Road	16-Dec-18	1.988	8.15	11.53	7.50	
3	RUDP-SG-03	N-9,(0+200)	Existing Road	16-Dec-18			10.95	/	
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IONC	GHENG CONSTR	EERING CO. LT	INTERNATIONAL D	Consultant BUILDING DESIGN AUTHORITY (P) LTD IN JOIN VENTURE WITH B.N. CONSULTANCY PVT. LTD AN PLUS ENGINEERS & ARCHITECTS (P) LTD, KATHMANDU, NEPAL					
ad	By	1 01047	Submitted By	Verified By Approved By					
ginee	er -		Contract Manager	Qty Engineer/CSE		Approve Feam Le			



			1		of Field Dens		Month	Dece	mber
				****	NI O		Year		18
_				Locatio	e content %		ype of Material y(gm/cc)		Grade ction %
Sn.	Lab.Ref.no	Testing Date	Chainage		Field MC%	Max.Dry density	Field Dry density,	Compaction	Specified %
1	RUDP-SG-FD-1, R/S	18-Dec-18	0+040	7.50	7.16	gm/cc 1.990	gm/cc 1.904	% 95.65 /	95
2	RUDP-SG-FD-1, R/S	18-Dec-18	0+040	7.50	6.80	1.990	1.932	97.07	- 95
3	RUDP-SG-FD-1, L/S	18-Dec-18	0+150	8.15	7.51	1.988	1.920	96.60	95
4	RUDP-SG-FD-1, R/S		0+210	8.15	7.10	1.988	1.893	95.22	95
K	The second of th					-17.00	11075	70.22	, ,,,
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	Col	ntractor					Consultan	t	
ZH	ONGHENG CONSTRUCT	FION GROUP I	NTERNAT	TONAL				LTD IN JOIN	
	ENGINEE	RING CO. LTD						AND PLUS E	
		73))				/	(I) LID, KAI	a limated	IAL
	Wadhar		0		1 2	1		K	
	000		Kg		4-			U	
	Checked By Engineer		ubmitted B		Verified			Approved By	
	Engineer	Co	ntract Mana	ger	Qty Engine	er/CSE		Team Leader	



		5	ummary	sneet of F	ield Density	Test	Month	Dece	ember
							Year		018
				Location	:-R-17 e content %		pe of Material		-Base
n.	Lab.Ref.no	Testing Date	Chainaga			Density Max.Dry			ction %
н.	Lau.Rei.iiu	resting Date	Спатаде	OMC%	Field MC%	density	Field Dry density,	Compac tion	Specified %
1	RUDP-SB-FD-1, L/S	21-Dec-18	0+100	5.25	4.91	2.238	2.205	98.54	95
2	RUDP-SB-FD-1, L/S	21-Dec-18	0+150	5.25	5.01	2.238	2.197	98.15	95
3	RUDP-SB-FD-1, R/S	21-Dec-18	0+200	6.60	5.57	2.233	2.157	96.58	95
1	RUDP-SB-FD-1, L/S	21-Dec-18	0+250	6.60	5.07	2.233	2.210	98.98	95
5	RUDP-SB-FD-1, R/S	21-Dec-18	0+300	6.60	5.50	2.233	2.158	96.63	95
5	RUDP-SB-FD-1, L/S	21-Dec-18	0+340	6.60	5.08	2.233	2.138	97.09	95
	,,,,,	27 200 10	0.210	0.00	3.00	2.233	2.100	97.02	7 93
	N.								
		A.							
Ī	Contrac ZHONGHENG CONSTI INTERNATIONAL ENGI	EUCTION GRO	UP LTD		ING DESIGN	TANCY PVT.	Y (P) LTD IN LTD AND PI	US ENGIN	
Y d	adhan wiros	Submitted By ontact Manage		Verified B	<u> </u>	TS (P) LTD, I	<	Approved Team Lead	1.40



	REGIO	Bir Co	ratnaga ntract N	ar Meti lo:- RU	ropolitan DP/ICB/B	City RT-02	Γ PROJ	ECT	
		<u> </u>	ummary	Sheet of F	ield Density	Test	Month	Do	cember
							Year		2018
-			Location	1:-N-36	e content %	Davis	Type of Material		b-Base
Sn.	Lab.Ref.no	Testing Date	Chanage			**	ty(gm/cc) Field Dry		action %
			- manage	OMC%	Field MC%	density	The state of the s	tion	%
1	RUDP-SB-FD-1, R/S	25-Dec-18	0+080	6.50	5.07	2.229	2.158	96.80	95
2	RUDP-SB-FD-1, R/S	25-Dec-18	0+120	6.50	5.42	2.229	2.140	96.02	/ 95
3	RUDP-SB-FD-1, L/S	25-Dec-18	0+150	6.50	5.62	2.229	2.200	98.72	// 95
4	RUDP-SB-FD-1, R/S	25-Dec-18	0+180	6.50	5.01	2.229	2.168	97.27	95
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_	Contracte			RIHI DI	NC DESIGN	Cons	<u>ultant</u> ΓΥ (P) LTD IN .	IOINT VE	NOTEDIO
I	ZHONGHENG CONSTRU NTERNATIONAL ENGIN	EERING CO. 1	TD	WITH B.	N. CONSULT	ANCY PVT	LTD AND PL	US ENGIN	EERS &
- 27	The same of the sa	7			ARCHITECT	TS (P) LTD,	KATHMANDU	J, NEPAK	
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980	rdhan	W		10h	V			de	
		Submitted By		Verified	By			Approved I	 3v
ngin		ntract Manage	r ic	Qty Enginee				Team Lead	



		REGIO	1	Biratna Contract	N DEVEL gar Metropo No:- RUDP/I Sheet of Morta	olitan Cit CB/BRT-0	y 02	OJEC	Г		
								Month		Decei	
								Year		20	***
-				_		_		ption of Sam	1	Brick	Wall
CAT	40.040		Type of	Brand of		Date of	Date o	f Testing	Strengt	h, N/mm2	Typ
S.N.	Location	Lab Ref.no.	Cement	Cement	Source of Sand	Casting	7 Days	28 Days	7 Days	28 Days	oi Gra
1	R-63	MR-913	Salimar	OPC	Chisang Khola	3-Nov-18	10-Nov-18	1-Dec-18		8.55	7.
2	R-63	MR-914	Salimar	OPC	Chisang Khola	3-Nov-18	10-Nov-18	1-Dec-18		8.41	7.:
3	R-7	MR-915	Salimar	OPC	Chisang Khola	3-Nov-18	10-Nov-18	1-Dec-18		8.68	7.5
4	R-7	MR-916	Salimar	OPC	Chisang Khola	3-Nov-18	10-Nov-18	1-Dec-18		8.41	7.5
5	R-10	MR-917	Salimar	OPC	Chisang Khola	3-Nov-18	10-Nov-18	1-Dec-18		8.41	7.5
6	N-10	MR-918	Salimar	OPC	Chisang Khola	3-Nov-18	10-Nov-18	1-Dec-18		9.23	7.5
7 8	R-12	MR-919	Salimar	OPC	Chisang Khola	3-Nov-18	10-Nov-18	1-Dec-18		9.36	7.5
9	R-7	MR-920	Salimar	OPC	Chisang Khola	4-Nov-18	11-Nov-18	2-Dec-18		8.95	7.5
10	R-45 R-103	MR-921	Salimar	OPC	Chisang Khola	4-Nov-18	11-Nov-18	2-Dec-18		7.87	7.5
11	N-10	MR-922 MR-923	Salimar Salimar	OPC	Chisang Khola	4-Nov-18	11-Nov-18	2-Dec-18		8.14	7.5
12	R-7		Salimar	OPC	Chisang Khola	4-Nov-18	11-Nov-18	2-Dec-18		8.68	7.5
13	R-7	MR-924 MR-925	Salimar	OPC	Chisang Khola	15-Nov-18	22-Nov-18	13-Dec-18		8.41	7.5
15	R-7	MR-925 MR-926	Salimar	OPC OPC	Chisang Khola Chisang Khola	17-Nov-18	24-Nov-18 24-Nov-18	15-Dec-18 15-Dec-18		9.50	7.5
16	N-10	MR-927	Salimar	OPC	Chisang Khola	18-Nov-18		15-Dec-18		8.00	7.5
17	R-84	MR-928	Salimar	OPC	Chisang Khola	18-Nov-18	25-Nov-18 25-Nov-18	16-Dec-18		8.41	7.5
18	R-84	MR-929	Salimar	OPC	Chisang Khola	18-Nov-18	25-Nov-18	16-Dec-18		8.41	7.5
19	T2L24D	MR-930	Salimar	OPC	Chisang Khola	19-Nov-18	26-Nov-18	17-Dec-18		8.68 8.28	7.5
20	T2L24D	MR-931	Salimar	OPC	Chisang Khola	19-Nov-18	26-Nov-18	17-Dec-18		8.45	7.5
21	R-12	MR-932	Salimar	OPC	Chisang Khola	19-Nov-18	26-Nov-18	17-Dec-18	-	9.09	7.5
22	R-7	MR-933	Salimar	OPC	Chisang Khola	20-Nov-18	27-Nov-18	18-Dec-18		8.55	7.5
23	R-23	MR-934	Salimar	OPC	Chisang Khola	20-Nov-18	27-Nov-18	18-Dec-18		8.28	7.5
24	R-10	MR-935	Salimar	OPC	Chisang Khola	20-Nov-18	27-Nov-18	18-Dec-18		8.41	7.5
25	N-10	MR-936	Salimar	OPC	Chisang Khola	20-Nov-18	27-Nov-18	18-Dec-18		8.28	7.5
26	R-84	MR-937	Salimar	OPC	Chisang Khola	20-Nov-18	27-Nov-18	18-Dec-18		7.87	7.5
27	R-63	MR-938	Salimar	OPC	Chisang Khola	22-Nov-18	29-Nov-18	20-Dec-18		9.09	7.5
28	R-63	MR-939	Salimar	OPC	Chisang Khola	20-Nov-18	27-Nov-18	18-Dec-18		8.28	7.5
29	R-10	MR-940	Salimar	OPC	Chisang Khola	21-Nov-18	28-Nov-18	19-Dec-18		8.28	7.5
30	R-10	MR-941	Salimar	OPC	Chisang Khola	21-Nov-18	28-Nov-18	19-Dec-18		8.00	7.5
31	R-45	MR-942	Salimar	OPC	Chisang Khola	21-Nov-18	28 Nov-18	19-Dec-18		8.41	7.5
32	R-45	MR-943	Salimar	OPC	Chisang Khola	21-Nov-18	28-Nov-18	19-Dec-18		8.95	7.5
33	R-45	MR-944	Salimar	OPC	Chisang Khola	21-Nov-18	28-Nov-18	19-Dec-18		9.36	7.5
34	N-10	MR-945	Salimar	OPC	Chisang Khola	21-Nov-18	28-Nov-18	19-Dec-18		9.09	7.5
35	R-7	MR-946	Salimar	OPC	Chisang Khola	23-Nov-18	30-Nov-18	21-Dec-18		8.55	7.5
36	R-7	MR-947	Salimar	OPC	Chisang Khola	23-Nov-18	30-Nov-18	21-Dec-18		8.95	7.5
37	R-23	MR-948	Salimar	OPC	Chisang Khola	23-Nov-18	30-Nov-18	21-Dec-18		8.82	7.5
38	T2L24C	MR-949	Salimar	OPC	Chisang Khola	23-Nov-18	30-Nov-18	21-Dec-18		8.28	7.5
40	R-23 R-84	MR-950	Salimar Salimar	OPC	Chisang Khola	23-Nov-18	30-Nov-18	21-Dec-18		9.09	7.5
41	R-84	MR-951 MR-952	Salimar	OPC	Chisang Khola Chisang Khola	23-Nov-18	30-Nov-18	21-Dec-18		9.50	7.5
42	R-64	MR-953	Salimar	OPC OPC	Chisang Khola Chisang Khola	23-Nov-18	30-Nov-18	21-Dec-18		9.09	7.5
	487		Darmidi	OPC	Crissing Khoia	23-Nov-18	30-Nov-18	21-Dec-18		8.55	7.5
-		Contractor		15	\$2000 N 11 - 12 - 11		Consult				
	ONGHENG ERNATIONA				BUILDIN VENTURI PLUS ENGIN	WITH B.	N. CONSU	CTS (P) LT	PVT. I	LTD AN	D
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		REGIO		Biratna Contrac	gar Metrop t No:- RUDP Sheet of Mort	oolitan C /ICB/BRT	ity -02	KOJEC	. 1		
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				D d				ription of San		Brick	· W
S.N.	Location	Lab Ref,no.	Type of Cement	Brand of Cement	Source of Sand	Date of Casting	7 Days	of Testing 28 Days	7 Days	th, N/mm2 28 Days	
43	R-10	MR-954	Salimar	OPC	Chisang Khola	24-Nov-18					9
44	R-84	MR-955	Salimar	OPC	Chisang Khola			22-Dec-18	6.10	9.36	1
45	R-23	MR-956	Salimar	OPC	Chisang Khola			22-Dec-18	5.83	8.95	1
46	T3L23	MR-957	Salimar	OPC	Control Control Control	A CONTRACTOR OF THE PARTY OF TH	FATOR SALES	22-Dec-18	5.97	8.14	
47	R-45	MR-958	Salimar		Chisang Khola	24-Nov-18		22-Dec-18	5.97	8.82	Y
48	R-9	MR-959	Salimar	OPC	Chisang Khola	24-Nov-18		22-Dec-18	6.65	9.36	
49	R-103	MR-960	Salimar	OPC	Chisang Khola	24-Nov-18		22-Dec-18	6.10	8.00	
50	R-7			OPC	Chisang Khola	25-Nov-18		23-Dec-18	6.78	9.23	1
51	T3L6A	MR-961 MR-962	Salimar	OPC	Chisang Khola	25-Nov-18		23-Dec-18	5.83	8.00	
52	T3L24C	1	Salimar	OPC	Chisang Khola	25-Nov-18		23-Dec-18	6.51	9.63	
53	R-84	MR-963	Salimar	OPC	Chisang Khola	26-Nov-18	3-Dec-18	24-Dec-18	6.10	8.55 /	
54		MR-964	Salimar	OPC	Chisang Khola	26-Nov-18	3-Dec-18	24-Dec-18	6.65	9.50	
55	N-10	MR-965	Salimar	OPC	Chisang Khola	26-Nov-18	3-Dec-18	24-Dec-18	6.92	8.95	Ī
56	T2L24C	MR-966	Salimar	OPC	Chisang Khola	27-Nov-18	4-Dec-18	25-Dec-18	6.51	8.55	
	R-45	MR-967	Salimar	OPC	Chisang Khola	27-Nov-18	4-Dec-18	25-Dec-18	5.97	7.87	1
57	R-7	MR-968	Salimar	OPC	Chisang Khola	27-Nov-18	4-Dec-18	25-Dec-18	5.56	8.82	
58	R-23	MR-969	Salimar	OPC	Chisang Khola	28-Nov-18	5-Dec-18	26-Dec-18	6.78	9.36	
59	R-45	MR-970	Salimar	OPC	Chisang Khola	28-Nov-18	5-Dec-18	26-Dec-18	6.51	8.55	_
60	R-103	MR-971	Salimar	OPC	Chisang Khola	29-Nov-18	6-Dec-18	27-Dec-18	6.51		1
61	R-7	MR-972	Salimar	OPC	Chisang Khola	29-Nov-18	6-Dec-18	27-Dec-18		9.50	
62	R-23	MR-973	Salimar	OPC	Chisang Khola	29-Nov-18	6-Dec-18		6.51	8.55	
63	R-84	MR-974	Salimar	OPC	Chisang Khola	29-Nov-18	6-Dec-18	27-Dec-18 27-Dec-18	5.83	9.09	15
64	R-23	MR-975	Salimar	OPC	Chisang Khola	30-Nov-18	15 MAY 1504 1-191		6.65	8.55	- 5
65	R-12	MR-976	Salimar		Chisang Khola	30-Nov-18	7-Dec-18	28-Dec-18	5.83	8.14	- 7
66	R-10	MR-977	Salimar		Chisang Khola	1-Dec-18	7-Dec-18	28-Dec-18	6.65	8.41	_ 5
67	R-23	MR-978	Salimar		Chisang Khola	1-Dec-18	8-Dec-18	29-Dec-18	6.78	8.55	, 7
68	R-12	MR-979	Salimar		Chisang Khola	1-Dec-18	8-Dec-18	29-Dec-18	6.51	8.28	_7
69	R-7	MR-980	Salimar	27.472.222	Chisang Khola	2-Dec-18	8-Dec-18	29-Dec-18	6.65	8.82	-7
70	R-45	MR-981	Salimar	33	Chisang Khola		9-Dec-18	30-Dec-18	5.70	8.14	7
71	R-12	MR-982	Salimar	1000000		2-Dec-18	9-Dec-18	30-Dec-18	6.65	7.87	17
72	R-23	MR-983	Salimar		Chisang Khola	3-Dec-18	10-Dec-18	31-Dec-18	6.51	9.36	7
73	T2L23	MR-984	Salimar		Chisang Khola	3-Dec-18	10-Dec-18	31-Dec-18	5.83	8.00	17
74	R-9	MR-985	Salimar		Chisang Khola	3-Dec-18	10-Dec-18	31-Dec-18	6.65	9.50	17
75	R-9	MR-986	Salimar		Chisang Khola	3-Dec-18	10-Dec-18	31-Dec-18	6.38	8.14	7.
76	N-10	MR-986	LINE TO SERVICE		Chisang Khola			31-Dec-18	5.70	9.09	7.
77	R-23	MR-988	Salimar		Chisang Khola	4-Dec-18	11-Dec-18	1-Jan-19	5.83		7.
78	T3L6A	MR-988 MR-989	Salimar	700000000000000000000000000000000000000	Chisang Khola	4-Dec-18	11-Dec-18	1-Jan-19	6.78		7.
9	R-7		Salimar		7	5-Dec-18	12-Dec-18	2-Jan-19	6.24		7.
<u> </u>	K-7	MR-990	Salimar	OPC 0	Chisang Khola	5-Dec-18	12-Dec-18	2-Jan-19	6.24		7.
	(Contractor					Consult	ant			_
ZHO	ONGHENG C RNATIONAL	ONSTRUC	TION GRO	OUP LTD	VENTURE	WITH B.	N AUTHO N. CONSU	RITY (P) I LTANCY CHITECT	PVT. L	TD AN	D
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				Co	ratnagar Montract No:- R	UDP/ICB	/BRT-02				
								Month		Dec	cember
								Year			2018
							Descri	iption of San	iple	Brie	ck Wall
S.N.	Location	Lab Ref.no.	Type of Cement	Brand of Cement	Source of Sand	Date of Casting	Date of 7 Days	f Testing 28 Days	7 Days	rength, N/mm2 s 28 Days	Type of Grad
80	T3L24A	MR-991	Salimar	OPC	Chisang Khola	6-Dec-18	13-Dec-18	3-Jan-19	6.65		7.5
81	R-84	MR-992	Salimar	OPC	Chisang Khola	7-Dec-18	14-Dec-18	4-Jan-19	5.97		7.5
82	R-9	MR-993	Salimar	OPC	Chisang Khola	7-Dec-18	14-Dec-18	4-Jan-19	6.51		7.5
83	R-103	MR-994	Salimar	OPC	Chisang Khola	8-Dec-18	15-Dec-18	5-Jan-19	6.24		7.5
84	R-23	MR-995	Salimar	OPC	Chisang Khola	8-Dec-18	15-Dec-18	5-Jan-19	6.10		7.5
85	T3L7A	MR-996	Salimar	OPC	Chisang Khola	9-Dec-18	16-Dec-18	6-Jan-19	5.56		7.5
86	T2L25	MR-997	Saptakoshi	OPC	Chisang Khola	9-Dec-18	16-Dec-18	6-Jan-19	6.10		7.5
88	T2L23	MR-998	Saptakoshi	OPC	Chisang Khola	9-Dec-18	16-Dec-18	6-Jan-19	5.97		7.5
89	R-105 R-34	MR-999	Saptakoshi	OPC	Chisang Khola	10-Dec-18	17-Dec-18	7-Jan-19	6.38		7.5
90	T3L9	MR-1000	Saptakoshi	OPC	Chisang Khola	10-Dec-18	17-Dec-18	7-Jan-19	5.83		7.5
91	R-7	MR-1001	Saptakoshi	OPC	Chisang Khola	10-Dec-18	17-Dec-18	7-Jan-19	6.38		7.5
92		MR-1002	Saptakoshi	OPC	Chisang Khola	10-Dec-18	17-Dec-18	7-Jan-19	6.78		7.5
93	T3L24A T2L24C	MR-1003	Saptakoshi	OPC	Chisang Khola	11-Dec-18	18-Dec-18	8-Jan-19	5,85		7.5
93	R-7	MR-1004	Saptakoshi	OPC	Chisang Khola	12-Dec-18	19-Dec-18	9-Jan-19	6.65		7.5
95	N-10	MR-1005 MR-1006	Saptakoshi	OPC	Chisang Khola	12-Dec-18	19-Dec-18	9-Jan-19	6.65		7.5
96	R-23	MR-1006	Saptakoshi Saptakoshi	OPC	Chisang Khola	12-Dec-18	19-Dec-18	9-Jan-19	6.24		7.5
97	T3L6A	MR-1007	Saptakoshi	OPC OPC	Chisang Khola Chisang Khola	12-Dec-18	19-Dec-18	9-Jan-19	5.97		7.5
98	R-84	MR-1009	Saptakoshi	OPC		13-Dec-18	20-Dec-18	10-Jan-19	6.65		7.5
99	R-12	MR-1010	Saptakoshi	OPC	Chisang Khola Chisang Khola	13-Dec-18 14-Dec-18	20-Dec-18	10-Jan-19	5.83		7.5
100	R-9	MR-1011	Saptakoshi	OPC	Chisang Khola	14-Dec-18	21-Dec-18	11-Jan-19	6.65		7.5
101	R-103	MR-1012	Saptakoshi	OPC	Chisang Khola	15-Dec-18	21-Dec-18	11-Jan-19	6.10		7.5
102	R-45	MR-1013	Saptakoshi	OPC	Chisang Khola	15-Dec-18	22-Dec-18 22-Dec-18	12-Jan-19 12-Jan-19	6.78		7.5
103	T3L23A	MR-1014	Saptakoshi	OPC	Chisang Khola	16-Dec-18	23-Dec-18	13-Jan-19	5.83		7.5
104	T2L23	MR-1015	Saptakoshi	OPC	Chisang Khola	16-Dec-18	23-Dec-18	13-Jan-19	6.51		7.5
105	R-105	MR-1016	Saptakoshi	OPC	Chisang Khola	16-Dec-18	23-Dec-18	13-Jan-19	5.97		7.5
06	R-45	MR-1017	Saptakoshi	OPC	Chisang Khola	17-Dec-18	24-Dec-18	14-Jan-19	6.51		7.5
07	R-23	MR-1018	Saptakoshi	OPC	Chisang Khola	17-Dec-18	24-Dec-18	14-Jan-19	5.97		7.5
08	R-105	MR-1019	Saptakoshi	OPC	Chisang Khola	17-Dec-18	24-Dec-18	14-Jan-19	6.24		7,5
09	R-7	MR-1020	Saptakoshi	OPC	Chisang Khola	17-Dec-18	24-Dec-18	14-Jan-19	6.38		7.5
10	R-9	MR-1021	Saptakoshi	OPC	Chisang Khola	18-Dec-18	25-Dec-18	15-Jan-19	5.56		7.5
11	R-12	MR-1022	Saptakoshi	OPC	Chisang Khola	18-Dec-18	25-Dec-18	15-Jan-19	6.51		7.5
12	R-9	MR-1023	Saptakoshi	OPC	Chisang Khola		26-Dec-18		5.97		7.5
13	R-23	MR-1024	Saptakoshi	OPC		19-Dec-18	26-Dec-18	16-Jan-19	6.65		7.5
14	R-7	MR-1025	Saptakoshi	OPC		19-Dec-18	26-Dec-18	16-Jan-19	6.24		7.5
15	R-10	MR-1026	Saptakoshi	OPC	Chisang Khola	19-Dec-18	26-Dec-18	16-Jan-19	5.83	1	7.5
16	N-10	MR-1027	Saptakoshi	OPC	Chisang Khola	19-Dec-18	26-Dec-18	16-Jan-19	6.51		7.5
		Contractor						oncultant			
						Carrier of the Carrie		onsultant			
ZHO	ONGHENG C RNATIONA	ONSTRUC L ENGINEE	TION GRO		BUILDING I B.N. CO	ONSULTA	NCY PVT	. LTD AN	D PLU	DINT VENT S ENGINEE DU, NEPAL	URE WITH CRS &
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hecke nginee	The second secon		Submitted Bontract Mana		Verified By Qty Engineer/C	OSE.				Approved Team Lead	



				Co	ratnagar M ontract No:- R mary Sheet of	UDP/ICB/	BRT-02				
								Month		Dece	mber
								Year		20	18
				1		-		cription of Sam	ple	Brick	Wall
S.N.	Location	Lab Ref.no.	Type of Cement	Brand of Cemen	Source of Sand	Date of Casting	7 Days	of Testing 28 Days	7 Days	28 Days	Type of Grade
117	T3L7A	MR-1028	Saptakoshi	OPC	Chisang Khola	20-Dec-18	27-Dec-18	17-Jan-19	6.10		7.5
118	T3L6A	MR-1029	Saptakoshi	OPC	Chisang Khola	21-Dec-18	28-Dec-18	18-Jan-19	6.24		7.5
119	R-9	MR-1030	Saptakoshi	OPC	Chisang Khola	III III III III III III III III III II	28-Dec-18	18-Jan-19	6.78		7.5
120	R-103	MR-1031	Saptakoshi	OPC	Chisang Khola		28-Dec-18	18-Jan-19	5.83		7.5
121	T3L7A R-9	MR-1032	Saptakoshi	OPC	Chisang Khola		28-Dec-18	18-Jan-19	6.38		7.5
123	R-7	MR-1033 MR-1034	Saptakoshi	OPC	Chisang Khola		28-Dec-18	18-Jan-19	5.97		7.5
124	R-45	MR-1034 MR-1035	Saptakoshi	OPC	Chisang Khola		29-Dec-18	19-Jan-19	6.65		7.5
125	R-9	MR-1035	Jagdamba Jagdamba	OPC	Chisang Khola		29-Dec-18	19-Jan-19	5.83		7.5
126	R-9	MR-1030	Jagdamba	OPC OPC	Chisang Khola		29-Dec-18	19-Jan-19	6.24		7.5
127	T3L7A	MR-1037	saptakoshi	OPC	Chisang Khola Chisang Khola		29-Dec-18	19-Jan-19	5.70		7.5
28	R-7	MR-1039	saptakoshi		Chisang Khola		29-Dec-18	19-Jan-19	6.24		7.5
29	T3L11G	MR-1040	saptakoshi	OPC		22-Dec-18	29-Dec-18	19-Jan-19	5.97		7.5
30	T2L24G	MR-1040	saptakoshi	OPC	Chisang Khola	22-Dec-18	29-Dec-18	19-Jan-19	6.65		7.5
31	T2L24D	MR-1042	saptakoshi	OPC OPC	Chisang Khola	22-Dec-18 22-Dec-18	29-Dec-18	19-Jan-19	5.83		7.5
32	R-7	MR-1043	saptakoshi	OPC	Chisang Khola Chisang Khola	22-Dec-18	29-Dec-18	19-Jan-19	5.97		7.5
33	T3L6A	MR-1044	saptakoshi	OPC	Chisang Khola	22-Dec-18	29-Dec-18	19-Jan-19	5.70		7.5
34	T3L11E	MR-1045	saptakoshi	OPC	Chisang Khola	22-Dec-18	29-Dec-18	19-Jan-19	5.97		7.5
35	T3L13D	MR-1046	saptakoshi	OPC	Chisang Khola	22-Dec-18	29-Dec-18	19-Jan-19 19-Jan-19	6.65		7.5
38	R-12	MR-1047	saptakoshi	OPC	Chisang Khola	23-Dec-18	30-Dec-18	20-Jan-19	5.83		7.5
39	R-7	MR-1048	saptakoshi	OPC	Chisang Khola	23-Dec-18	30-Dec-18	20-Jan-19 20-Jan-19	6.65		7.5
40	R-23	MR-1049	saptakoshi	OPC	Chisang Khola	23-Dec-18	30-Dec-18	20-Jan-19 20-Jan-19	5.83		7.5
41	R-84	MR-1050	saptakoshi.	OPC	Chisang Khola	23-Dec-18	30-Dec-18	20-Jan-19	6.51		7.5
42	R-12	MR-1051	saptakoshi	OPC	Chisang Khola	23-Dec-18	30-Dec-18	20-Jan-19	6.10		7.5
43	T3L13D	MR-1052	saptakoshi	OPC	Chisang Khola	23-Dec-18	30-Dec-18	20-Jan-19	5.83		7.5
44	T3L13E	MR-1053	saptakoshi	OPC	Chisang Khola	23-Dec-18	30-Dec-18	20-Jan-19	6.65		7.5
45	R-34	MR-1054	saptakoshi	OPC	Chisang Khola	24-Dec-18	31-Dec-18	21-Jan-19	5.83		7.5
46	R-102	MR-1055	saptakoshi	OPC	Chisang Khola	24-Dec-18	31-Dec-18	21-Jan-19	6.78		7.5
47	R-84	MR-1056	saptakoshi	OPC	Chisang Khola	24-Dec-18	31-Dec-18	21-Jan-19	6.24		7.5
					-						
	(Contractor					Co	nsultant			
ZHO NTE	ONGHENG O	CONSTRUCT L ENGINEE	TION GRO RING CO.	UP LTD	BUILDING D B.N. CO A	ONSULTA	NCY PVT.	Y (P) LTD IN LTD AND P D, KATHMA	LUS EN	GINEERS	WITH &
Va	dhan		fu.		Trop/s	1/			9	1	
necke	ed By er		ubmitted B ntract Mana		Verified By Qty Engineer/C	CSE				proved By am Leader	



		TO TO		Biratn Contra	AN DEVEL agar Metrop ct No:- RUDP/ eet of Concrete	olitan Cit ICB/BRT-(y 02	OJECT			
								Month		De	cember
							The	Year			2018
								pe of Material		Con	c. Cube
S.N.	Location	Lab Ref.no.	Type of Cement	Brand of Cement	Source of Sand+Agg.	Date of Casting		Testing		, N/mm2	Concrete Grade
1	R-7	DIIDD 1150	Salimar	ODG	011 121		7 Days	28 Days	7 Days	28 Days	
2	R-6	RUDP-1158 RUDP-1159	Salimar	OPC OPC	Chisang Khola	3-Nov-18	10-Nov-18	1-Dec-18		22.43	M20
3	R-102	RUDP-1160	Salimar	OPC	Chisang Khola Chisang Khola	3-Nov-18 3-Nov-18	10-Nov-18	1-Dec-18		17.43	
4	N-10	RUDP-1161	Salimar	OPC	Chisang Khola	3-Nov-18	10-Nov-18 10-Nov-18	1-Dec-18 1-Dec-18		22.50	M20
5	DDC-yard	RUDP-1162	Salimar	OPC	Chisang Khola	4-Nov-18	11-Nov-18			23.41	M20
6	R-7	RUDP-1163	Salimar	OPC	Chisang Khola	4-Nov-18	11-Nov-18	2-Dec-18 2-Dec-18		22.35	M20
7	N-10	RUDP-1164	Salimar	OPC	Chisang Khola	4-Nov-18	11-Nov-18	2-Dec-18		21.60	M20
8	Koshi Yard	RUDP-1165	Salimar	OPC	Chisang Khola	4-Nov-18	11-Nov-18	2-Dec-18		21.75	M20 M20
9	R-7	RUDP-1166	Salimar	OPC	Chisang Khola	15-Nov-18	22-Nov-18	13-Dec-18		22.65	M20 M20
10	R-7	RUDP-1167	Salimar	OPC	Chisang Khola	16-Nov-18	23-Nov-18	14-Dec-18		23.10	M20
11	R-7	RUDP-1168	Salimar	OPC	Chisang Khola	16-Nov-18	23-Nov-18	14-Dec-18		23.63	M20
12	Koshi Yard	RUDP-1169	Salimar	OPC	Chisang Khola	16-Nov-18	23-Nov-18	14-Dec-18		22.88	/M20
13	Madhumara yard	RUDP-1170	Salimar	OPC	Chisang Khola	16-Nov-18	23-Nov-18	14-Dec-18		27.77	M25
14	R-7	RUDP-1171	Salimar	OPC	Chisang Khola	17-Nov-18		15-Dec-18		22.28	M20
15	N-10	RUDP-1172	Salimar	OPC	Chisang Khola	17-Nov-18	24-Nov-18	15-Dec-18		24.99	M20
16	R-3	RUDP-1173	Salimar	OPC	Chisang Khola	17-Nov-18	24-Nov-18	15-Dec-18		23.71	M20
17	R-7	RUDP-1174	Salimar	OPC	Chisang Khola	17-Nov-18	24-Nov-18	15-Dec-18		21.60	M20
18	R-3	RUDP-1175	Salimar	OPC	Chisang Khola	17-Nov-18	24-Nov-18	15-Dec-18		24.31	M20
19	DDC-yard	RUDP-1176	Salimar	OPC	Chisang Khola	17-Nov-18	24-Nov-18	15-Dec-18		22.20	M20
20	DDC-yard	RUDP-1177	Salimar	OPC	Chisang Khola	18-Nov-18	25-Nov-18	16-Dec-18		23.33	M20
21	R-3	RUDP-1178	Salimar	OPC	Chisang Khola	18-Nov-18	25-Nov-18	16-Dec-18		22.28	M20
22	R-84	RUDP-1179	Salimar	OPC	Chisang Khola	18-Nov-18	25-Nov-18	16-Dec-18		21.90	M20
23	R-7	RUDP-1180	Salimar	OPC	Chisang Khola	18-Nov-18	25-Nov-18	16-Dec-18		24.23	M20
24	R-23	RUDP-1181	Salimar	OPC	Chisang Khola	18-Nov-18	25-Nov-18	16-Dec-18		21.75	M20
25	DDC-yard	RUDP-1182	Salimar	OPC	Chisang Khola	19-Nov-18	26-Nov-18	17-Dec-18		22.13	M20
26	R-23	RUDP-1183	Salimar	OPC	Chisang Khola	19-Nov-18	26-Nov-18	17-Dec-18		21.60	M20
27	Madhumara yard	RUDP-1184	Salimar	OPC	Chisang Khola	19-Nov-18	26-Nov-18	17-Dec-18		28.00	M25
28	R-10	RUDP-1185	Salimar	OPC	Chisang Khola	19-Nov-18	26-Nov-18	17-Dec-18		21.98	M20
29	R-84	RUDP-1186	Salimar	OPC	Chisang Khola	19-Nov-18	26-Nov-18	17-Dec-18		22.80	M20
30	R-23	RUDP-1187	Salimar	OPC	Chisang Khola	19-Nov-18	26-Nov-18	17-Dec-18		23.86	M20
31	R-45	RUDP-1188	Salimar	OPC	Chisang Khola	19-Nov-18	26-Nov-18	17-Dec-18		21.90	M20
	T3124D	RUDP-1189	Salimar Salimar	OPC	Chisang Khola	19-Nov-18	26-Nov-18	17-Dec-18		21.45	M20
33	R-3 Koshi Yard	RUDP-1190 RUDP-1191	Salimar	OPC OPC		19-Nov-18	26-Nov-18	17-Dec-18		23.86	M20
35	Madhumara yard	RUDP-1191 RUDP-1192	Salimar	OPC		19-Nov-18	26-Nov-18	17-Dec-18		21.67	M20
36	R-10	RUDP-1192	Salimar	OPC		19-Nov-18	26-Nov-18	17-Dec-18 19-Dec-18		26.96	M25
37	R-23	RUDP-1193	Salimar	OPC	Chisang Khola Chisang Khola	21-Nov-18	28-Nov-18			21.90	M20
38	T2L24c	RUDP-1194	Salimar	OPC	Chisang Khola		28-Nov-18	19-Dec-18 19-Dec-18		23.56	M20
39	R-6	RUDP-1196	Salimar	OPC		21-Nov-18	28-Nov-18	19-Dec-18		23.41	M20
10	R-10	RUDP-1197	Salimar	OPC		The second second second	29-Nov-18	20-Dec-18		17.23	M15
11	N-10	RUDP-1198	Salimar	OPC			29-Nov-18	20-Dec-18		23.63	M20 M20
		ontractor			- moung ixiioid	-2 1101-10	Const			25.41	10120
IN	ZHONGHENG CO	ONSTRUCTION AND ADDRESS OF THE PARTY OF THE	ON GROUNG CO. L	P TD	BUILDING WITH B.N. C	CONSULT	AUTHORIT	Y (P) LTD	PLUS E	ENGINE	
ov.	adhan	1 100×11	()	7	Mak	Ju/		1	(2/	
*********	ed By		Submitt		Verified By Qty Engineer/CS	NE.				pproved eam Lea	



		REGIO		Biratna Contrac	N DEVE agar Metrop et No:- RUDP eet of Concrete	olitan City ICB/BRT-0	y 2	OJECT			
								Month		Dec	mber
								Year			018
							Ty	pe of Material		Conc	. Cube
S.N.	Location	Lab Ref.no.	Type of Cement	Brand of Cement	Source of Sand+Agg.	Date of Casting		f Testing		n, N/mm2	Concrete
42	R-7	RUDP-1199	Salimar	OPC			7 Days	28 Days	7 Days	28 Days	
43	R-103	RUDP-1200	Salimar	OPC	Chisang Khola Chisang Khola	The state of the s	29-Nov-18	20-Dec-18		21.83	M20
44	T2L24C	RUDP-1201	Salimar	OPC	Chisang Khola	THE RESERVE AND A STATE OF THE PARTY OF THE	29-Nov-18 29-Nov-18	20-Dec-18 20-Dec-18		21.67	M20
45	R-84	RUDP-1202	Salimar	OPC	Chisang Khola		29-Nov-18	20-Dec-18	-	21.60	M20
46	R-3	RUDP-1203	Salimar	OPC	Chisang Khola		29-Nov-18	20-Dec-18		22.95	M20
47	Madhumara yard	RUDP-1204	Salimar	OPC	Chisang Khola		29-Nov-18	20-Dec-18		21.83	M20 M25
48	R-7	RUDP-1205	Salimar	OPC	Chisang Khola		29-Nov-18	20-Dec-18			13000
49	R-23	RUDP-1206	Salimar	OPC	Chisang Khola		30-Nov-18	21-Dec-18		23.86	M20 M20
50	T3L24C	RUDP-1207	Salimar	OPC	Chisang Khola		30-Nov-18	21-Dec-18		22.28	M20
51	R-45	RUDP-1208	Salimar	OPC	Chisang Khola		30-Nov-18	21-Dec-18		23.48	M20
52	N-10	RUDP-1209	Salimar	OPC	Chisang Khola		30-Nov-18	21-Dec-18		23.10	M20
53	R-10	RUDP-1210	Salimar	OPC	Chisang Khola	DESCRIPTION OF THE PLANT OF THE	30-Nov-18	21-Dec-18		21.67	M20
54	DDC-yard	RUDP-1211	Salimar	OPC	Chisang Khola		1-Dec-18	22-Dec-18		21.07	M20
55	R-7	RUDP-1212	Salimar	OPC	Chisang Khola	24-Nov-18	1-Dec-18	22-Dec-18		22.13	M20
56	R-103	RUDP-1213	Salimar	OPC	Chisang Khola		1-Dec-18	22-Dec-18	_	24.01	M20
57	R-45	RUDP-1214	Salimar	OPC	Chisang Khola		1-Dec-18	22-Dec-18		21.67	M20
58	R-12	RUDP-1215	Salimar	OPC	Chisang Khola	The second second second	1-Dec-18	22-Dec-18		22.05	M20
59	R-2	RUDP-1216	Salimar	OPC	Chisang Khola	District Control of the Control of t	1-Dec-18	22-Dec-18		22.20	M20
60	R-20	RUDP-1217	Salimar	OPC	Chisang Khola	24-Nov-18	1-Dec-18	22-Dec-18		24.99	M20
61	T3L24C	RUDP-1218	Salimar	OPC	Chisang Khola		2-Dec-18	23-Dec-18		21.98	M20
62	Koshi-yard	RUDP-1219	Salimar	OPC	Chisang Khola		2-Dec-18	23-Dec-18	-	21.07	M20
63	DDC-yard	RUDP-1220	Salimar	OPC	Chisang Khola	25-Nov-18	2-Dec-18	23-Dec-18		23.03	M20
64	T2L24C	RUDP-1221	Salimar	OPC	Chisang Khola		3-Dec-18	24-Dec-18		22.73	M20
65	N-10	RUDP-1222	Salimar	OPC	Chisang Khola	The state of the s	3-Dec-18	24-Dec-18	_	22.88	M20
66	R-6	RUDP-1223	Salimar	OPC	Chisang Khola		3-Dec-18	24-Dec-18		16.78	M15
67	R-2	RUDP-1224	Salimar	OPC	Chisang Khola	Factor Indicates Street	3-Dec-18	24-Dec-18		22.58	M20
68	R-10	RUDP-1225	Salimar	OPC	Chisang Khola		4-Dec-18	25-Dec-18		21.67	M20
69	R-9	RUDP-1226	Salimar	OPC	Chisang Khola		4-Dec-18	25-Dec-18		21.30	M20
70	R-103	RUDP-1227	Salimar	OPC	Chisang Khola		4-Dec-18	25-Dec-18		22.13	M20
71	R-7	RUDP-1228	Salimar	OPC	Chisang Khola	27-Nov-18	4-Dec-18	25-Dec-18		23.03	M20
72	R-2	RUDP-1229	Salimar	OPC	Chisang Khola	27-Nov-18	4-Dec-18	25-Dec-18		21.98	M20
73	R-10	RUDP-1230	Salimar	OPC	Chisang Khola	27-Nov-18	4-Dec-18	25-Dec-18		22.28	M20
74	DDC-yard	RUDP-1231	Salimar	OPC	Chisang Khola		4-Dec-18	25-Dec-18		23.26	M20
75	DDC-yard	RUDP-1232	Salimar	OPC	Chisang Khola		4-Dec-18	25-Dec-18		21.52	M20
76	R-12	RUDP-1233	Salimar	OPC	Chisang Khola		5-Dec-18	26-Dec-18		21.67	M20
77	R-6	RUDP-1234	Salimar	OPC	Chisang Khola		5-Dec-18	26-Dec-18		21.52	M20
78	R-2	RUDP-1235	Salimar	OPC	Chisang Khola		5-Dec-18	26-Dec-18		22.95	M20
79	T2L23	RUDP-1236	Salimar	OPC	Chisang Khola		5-Dec-18	26-Dec-18		21.98	M20
80	Madhumara yard	RUDP-1237	Salimar	OPC	Chisang Khola	28-Nov-18	5-Dec-18	26-Dec-18		26.49	M25
81	R-103	RUDP-1238	Salimar	OPC	Chisang Khola		7-Dec-18	28-Dec-18		21.90	M20
82	T2L26E	RUDP-1239	Salimar	OPC	Chisang Khola	30-Nov-18	7-Dec-18	28-Dec-18		22.80	M20
	ZHONGHENG INTERNATION				VENT	URE WITH	DESIGN AU I B.N. CON & ARCHIT	onsultant THORITY SULTANCY ECTS (P) L NEPAL	Y PVT.	LTD AN	D PLUS
U	Vadhan Checked By		Submitt		Verifie	d By	/		K.	oproved	 By
	Engineer		Contract N	Aanager		gineer/CSE				eam Lead	



		REGI	ONAL U	Biratna Contrac	agar Me ct No:- R	etropo UDP/I	OPME olitan City CB/BRT-02 CubeTest I	7 2	OJECT			
									Month		Dec	ember
								т.	Year			018
								Control of	pe of Material		T PERSONAL PROPERTY.	Cube
S.N.	Location	Lab Ref.no.	Type of Cement	Brand of Cement			Date of Casting	7 Days	f Testing 28 Days	7 Days	h, N/mm2 28 Days	Concret Grade
83	R-84	RUDP-1240	Salimar	OPC	Chisang	Khola	30-Nov-18	7-Dec-18	28-Dec-18			3.500
84	R-7	RUDP-1241	Salimar	OPC	Chisang		30-Nov-18	7-Dec-18	28-Dec-18	14.84	23.10	M20 M20
85	Madhumara yard	RUDP-1242	Salimar	OPC	Chisang		30-Nov-18	7-Dec-18	28-Dec-18	17.68	26.49	M25
86	R-7	RUDP-1243	Salimar	OPC	Chisang	Actual Contract of	30-Nov-18	7-Dec-18	28-Dec-18	15.89	21.98	M20
87	Koshi-yard	RUDP-1244	Salimar	OPC	Chisang		30-Nov-18	7-Dec-18	28-Dec-18	17.16	22.88	M20
88	Koshi-yard	RUDP-1245	Salimar	OPC	Chisang		30-Nov-18	7-Dec-18	28-Dec-18	15.44	21.75	M20
89	R-45	RUDP-1246	Salimar	OPC	Chisang		1-Dec-18	8-Dec-18	29-Dec-18	15.29	22.05	M20
90	R-103	RUDP-1247	Salimar	OPC	Chisang		1-Dec-18	8-Dec-18	29-Dec-18	15.29	22.65	M20
91	R-7	RUDP-1248	Salimar	OPC	Chisang		2-Dec-18	9-Dec-18	30-Dec-18	15.52	21.98	M20
92	Madhumara yard	RUDP-1249	Salimar	OPC	Chisang	Khola	2-Dec-18	9-Dec-18	30-Dec-18	17.96	28.18	M20
93	R-6	RUDP-1250	Salimar	OPC	Chisang	Khola	2-Dec-18	9-Dec-18	30-Dec-18	11.90	17.38	M15
94	R-6	RUDP-1251	Salimar	OPC	Chisang	Khola	2-Dec-18	9-Dec-18	30-Dec-18	16.19	22.95	M20
95	R-90	RUDP-1252	Salimar	OPC	Chisang	Khola	3-Dec-18	10-Dec-18	31-Dec-18	16.26	22.05	M20
96	R-12	RUDP-1253	Salimar	OPC	Chisang	Khola	3-Dec-18	10-Dec-18	31-Dec-18	16.23	23.56	M20
97	R-23	RUDP-1254	Salimar	OPC	Chisang		3-Dec-18	10-Dec-18	31-Dec-18	15.29	21.98	M20
98	R-9	RUDP-1255	Salimar	OPC	Chisang		3-Nov-18	10-Nov-18	1-Dec-18	15.44	23.26	M20
99	T2L24C	RUDP-1256	Salimar	OPC	Chisang		4-Dec-18	11-Dec-18	1-Jan-19	15.37		M20
100	R-10	RUDP-1257	Salimar	OPC	Chisang		4-Dec-18	11-Dec-18	1-Jan-19	14.99		M20
101	T2L24C	RUDP-1258	Salimar	OPC	Chisang		4-Dec-18	11-Dec-18	1-Jan-19	15.81		M20
102	R-84	RUDP-1259	Salimar	OPC	Chisang		4-Dec-18	11-Dec-18	1-Jan-19	15.81		M20
103	R-23	RUDP-1260	Salimar	OPC	Chisang		4-Dec-18	11-Dec-18	1-Jan-19	14.99		M20
104	R-10	RUDP-1261	Salimar	OPC	Chisang		4-Dec-18	11-Dec-18	1-Jan-19	15.66		M20
105	Koshi-yard	RUDP-1262	Saptakoshi	OPC	Chisang		4-Dec-18	11-Dec-18	1-Jan-19	15.14		M20
106	R-6	RUDP-1263	Saptakoshi	OPC	Chisang		4-Dec-18	11-Dec-18	1-Jan-19	15.74		M20
108	DDC-yard R-23	RUDP-1264	Saptakoshi	OPC OPC	Chisang	THE PROPERTY AND ADDRESS.	5-Dec-18	12-Dec-18	2-Jan-19	16.04		M20
109	R-12	RUDP-1265 RUDP-1266	Saptakoshi Saptakoshi	OPC	Chisang		5-Dec-18	12-Dec-18	2-Jan-19	17.01		M20
110	T2L24C	RUDP-1267	Saptakoshi	OPC	Chisang Chisang		5-Dec-18	12-Dec-18	2-Jan-19	16.48		M20
111	R-90	RUDP-1268	Saptakoshi	OPC			5-Dec-18	12-Dec-18	2-Jan-19	16.19		M20
112	R-45	RUDP-1269	Saptakoshi	OPC	Chisang Chisang		5-Dec-18	12-Dec-18	2-Jan-19	15.81		M20
113	T3L6A	RUDP-1270	Saptakoshi	OPC	Chisang		5-Dec-18 5-Dec-18	12-Dec-18	2-Jan-19 2-Jan-19	12.23		M20
114	R-90	RUDP-1271	11 20 20 11 11 11 11 11 11	OPC			5-Dec-18	12-Dec-18	2-Jan-19	16.26 15.14		M20
115	R-23	RUDP-1272	Saptakoshi	OPC	Chisang		5-Dec-18	12-Dec-18	2-Jan-19 2-Jan-19			M20
116	Madhumara yard	RUDP-1273	Saptakoshi	OPC	Chisang		5-Dec-18	12-Dec-18	2-Jan-19 2-Jan-19	15.74		M20 M25
117	T3L6A	RUDP-1274	Saptakoshi	OPC	Chisang 1		6-Dec-18	13-Dec-18	3-Jan-19	16.34		M20
18	R-103	RUDP-1275	Saptakoshi	OPC	Chisang I		6-Dec-18	13-Dec-18	3-Jan-19	16.24		M20
119	R-7	RUDP-1276	Saptakoshi	OPC	Chisang l		6-Dec-18	13-Dec-18	3-Jan-19	14.99		M20
120	T3L23	RUDP-1277	Saptakoshi	OPC	Chisang l		7-Dec-18	14-Dec-18	4-Jan-19	16.34		M20
121	R-6	RUDP-1278	Saptakoshi	OPC	Chisang l	1.51.7	7-Dec-18	14-Dec-18	4-Jan-19	11.30		M15
122	R-45	RUDP-1279	Saptakoshi	OPC	Chisang l	PART AND ASSOCIATION	7-Dec-18	14-Dec-18	4-Jan-19	16.86		M20
123	T3L23A	RUDP-1280	Saptakoshi	OPC	Chisang l		7-Dec-18	14-Dec-18	4-Jan-19	15.52		M20
		Contractor							onsultant			
	ZHONGHEN INTERNATION					VENT	JRE WITH	B.N. CON & ARCHIT	JTHORITY SULTANCY ECTS (P) L NEPAL	PVT.	LTD AN	D PLU
	Vadhan Checked By Engineer		Submitte Contract M			/erified	1By	/			pproved eam Lead	



		REGI		Biratn: Contra	N DEVE agar Metrop et No:- RUDP/ eet of Concrete	olitan Cit ICB/BRT-(ty 02	OJECT			
								Month		Dec	ember
								Year		2	018
						1	Ty	pe of Materia	J.	Con	. Cube
S.N.	Location	Lab Ref.no.	Type of Cement	Brand of Cement	Source of Sand+Agg.	Date of Casting	277784	f Testing		h, N/mm2	Concrete Grade
124	DDC word	DLIDD 1201	0.1	000			7 Days	28 Days	7 Days	28 Days	Grade
125	DDC-yard Koshi-yard	RUDP-1281	Salimar	OPC	Chisang Khola	8-Dec-18	15-Dec-18	5-Jan-19	16.41		M20
126	R-23	RUDP-1282	Salimar	OPC	Chisang Khola	8-Dec-18	15-Dec-18	5-Jan-19	16.63		M20
127	R-6	RUDP-1283	Salimar	OPC	Chisang Khola	8-Dec-18	15-Dec-18	5-Jan-19	16.41		M20
128	Madhumara yard	RUDP-1284	Salimar	OPC	Chisang Khola	8-Dec-18	15-Dec-18	5-Jan-19	11.53		M15
129	Madhumara yard	RUDP-1285	Salimar	OPC	Chisang Khola	8-Dec-18	15-Dec-18	5-Jan-19	18.91		M25
130		RUDP-1286	Salimar	OPC	Chisang Khola	8-Dec-18	15-Dec-18	5-Jan-19	18.74		M25
131	R-84 T3L23	RUDP-1287	Salimar	OPC	Chisang Khola	8-Dec-18	15-Dec-18	5-Jan-19	15.29		M20
132	Madhumara yard	RUDP-1288	Salimar	OPC	Chisang Khola	9-Dec-18	16-Dec-18	6-Jan-19	15.29		M20
133	DDC-yard	RUDP-1289 RUDP-1290	Salimar	OPC	Chisang Khola	9-Dec-18	16-Dec-18	6-Jan-19	14.77		M20
134	T3L9		Salimar	OPC	Chisang Khola	9-Dec-18	16-Dec-18	6-Jan-19	16.41		M20
135	R-10	RUDP-1291	Salimar	OPC	Chisang Khola	9-Nov-18	16-Nov-18	7-Dec-18	16.71		M20
136		RUDP-1292	Salimar	OPC	Chisang Khola	10-Dec-18	17-Dec-18	7-Jan-19	15.22		M20
137	Madhumara yard R-23	RUDP-1293	Salimar	OPC	Chisang Khola	10-Dec-18	17-Dec-18	7-Jan-19	18.66		M25
138		RUDP-1294	Salimar	OPC	Chisang Khola	10-Dec-18	17-Dec-18	7-Jan-19	16.48		M20
139	R-105	RUDP-1295	Salimar	OPC	Chisang Khola	10-Dec-18	17-Dec-18	7-Jan-19	15.22		M20
	DDC-yard	RUDP-1296	Salimar	OPC	Chisang Khola	10-Dec-18	17-Dec-18	7-Jan-19	15.74		M20
40	Koshi-yard	RUDP-1297	Salimar	OPC	Chisang Khola	11-Dec-18	18-Dec-18	8-Jan-19	16.11		M20
41	T3L24C	RUDP-1298	Salimar	OPC	Chisang Khola	11-Dec-18	18-Dec-18	8-Jan-19	15.37		M20
42	R-10	RUDP-1299	Salimar	OPC	Chisang Khola	11-Dec-18	18-Dec-18	8-Jan-19	14.84		M20
43	Koshi-yard	RUDP-1300	Salimar	OPC	Chisang Khola	12-Dec-18	19-Dec-18	9-Jan-19	16.04		M20
44	R-45	RUDP-1301	Salimar	OPC	Chisang Khola	12-Dec-18	19-Dec-18	9-Jan-19	16.34		M20
45	R-6	RUDP-1302	Salimar	OPC	Chisang Khola	12-Dec-18	19-Dec-18	9-Jan-19	16.93		M20
46	Madhumara yard	RUDP-1303	Saptakoshi	OPC	Chisang Khola	12-Dec-18	19-Dec-18	9-Jan-19	14.84		M20
47	R-12	RUDP-1304	Saptakoshi	OPC	Chisang Khola	13-Dec-18	20-Dec-18	10-Jan-19	16.86		M20
48	R-84	RUDP-1305	Saptakoshi	OPC	Chisang Khola	13-Dec-18	20-Dec-18	10-Jan-19	15.66		M20
49	R-102	RUDP-1306	Saptakoshi	OPC	Chisang Khola	14-Dec-18	21-Dec-18	11-Jan-19	15.96		M20
50	DDC-yard	RUDP-1307	Saptakoshi	OPC	Chisang Khola	15-Dec-18	22-Dec-18	12-Jan-19	15.59		M20
51	DDC-yard	RUDP-1308	Saptakoshi	OPC	Chisang Khola	15-Dec-18	22-Dec-18	12-Jan-19	16.04		M20
52	R-12	RUDP-1309	Saptakoshi	OPC	Chisang Khola	15-Dec-18	22-Dec-18	12-Jan-19	15.22		M20
53	Madhumara yard	RUDP-1310	Saptakoshi		Chisang Khola	16-Dec-18	23-Dec-18	13-Jan-19	17.53		M25
54	Madhumara yard	RUDP-1311	Saptakoshi		Chisang Khola	16-Dec-18	23-Dec-18	13-Jan-19	18.11		M25
55	DDC-yard	RUDP-1312	Saptakoshi		Chisang Khola	17-Dec-18	24-Dec-18	14-Jan-19	14.77		M20
56	R-63	RUDP-1313		OPC	Chisang Khola	17-Dec-18	24-Dec-18	14-Jan-19	15.52		M20
57	R-8		Saptakoshi	OPC	Chisang Khola	17-Dec-18	24-Dec-18	14-Jan-19	16.34		M20
58	Madhumara yard	RUDP-1315	Saptakoshi		Chisang Khola	18-Dec-18	25-Dec-18	15-Jan-19	18.31		M20
59	R-6	RUDP-1316	Saptakoshi		Chisang Khola	19-Dec-18	26-Dec-18	16-Jan-19	10.93		M15
50	Koshi-yard	RUDP-1317	Saptakoshi	OPC	Chisang Khola	19-Dec-18	26-Dec-18	16-Jan-19	16.34		M20
51	Koshi-yard		Saptakoshi	OPC	Chisang Khola	19-Dec-18	26-Dec-18	16-Jan-19	14.17		M20
52	R-6		Saptakoshi	OPC		20-Nov-18	27-Nov-18	18-Dec-18	11.30		M15
53	R-6		Saptakoshi			20-Dec-18	27-Dec-18	17-Jan-19	15.66	/	M20
54	DDC-yard		Saptakoshi	OPC	Chisang Khola	21-Dec-18	28-Dec-18	18-Jan-19	14.47	/	M20
	ZHONGHENO INTERNATION	Contractor CONSTRUCT AL ENGINE	CTION GR	OUP	VENTU	JRE WITH	ESIGN AU	SULTANCY	Y PVT. I	TD ANI	PLUS
/	Vadhan	Priories and			EN	arol .	& ARCHIT	ECTS (P) L	(THMAN	JU,
1.75	Checked By Engineer	2	Submitte Contract Ma		Verified Oty Eng	By ineer/CSE			1.00	proved I	



		REGIC		Biratna Contrac	n DEVE agar Metro et No:- RUDF et of Concre	/ICB/BRT-0	y 2	OJECT			
								Month		Dece	ember
							Λ	Year			018
-				_			Ty	pe of Material		Conc	. Cube
S.N.	Location	Lab Ref.no.	Type of Cement	Brand of Cement	Source of Sand+Agg.	Date of Casting		Testing		n, N/mm2	Concret
165	Madhumara yard	DUDD 1222	0.1	one	201.4		7 Days	28 Days		28 Days	
166	Madhumara yard	RUDP-1322 RUDP-1323	Salimar Salimar	OPC OPC	Chisang Khol			18-Jan-19	14.32	1	M20
167	R-6	RUDP-1324	Salimar	OPC	Chisang Khol			19-Jan-19	18.74		M25
168	DDC-yard	RUDP-1325	Salimar	OPC	Chisang Khol			20-Jan-19	16.26		M20
169	R-84	RUDP-1326	Salimar	OPC	Chisang Khol	23-Dec-18	30-Dec-18 31-Dec-18	20-Jan-19	15.14		M20
170	R-9	RUDP-1327	Salimar	OPC	Chisang Khol		31-Dec-18	21-Jan-19 21-Jan-19	15.37		M20
		1341	Samia	010	Omoding Kil01	24-Dec-18	31-Dec-18	41-Jan-19	16.41		M20
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		Contractor					Co	onsultant			
	ZHONGHENO INTERNATION	G CONSTRUCTION	TION GR		VEN	BUILDING D TURE WITH NGINEERS &	B.N. CONS & ARCHIT	SULTANCY	PVT. I	LTD ANI	PLUS
	Vadhan		R	<u></u>		Mond			0	8	
(Checked By Engineer		Submitte Contract M		Verifi	ed By gineer/CSE			Ar	proved I	 3v



			REGIO	Bir Conti	atnagar Metro ract No:- RUD	ELOPMENT PRO populitan City P/ICB/BRT-02 nthly Test Report	JECT	
							→ Month	December
_	-						Year Type of Material	2018 Brick
S.N.	Lab Ref.No.	Testing Date	Location of Sample	Source of Brick	Name Of Brick	Water Absorption of Brick(%)	Strength of Brick(N/mm²)	Remarks
1	251	2-Dec-18	T2L24C	Dangraha	STL	12.00	12.43	
2	252	3-Dec-18	T2L24C	Dangraha	STL	14.43	12.18	
3	253	3-Dec-18	R-23	Dangraha	STL	16.78	12.91	
4	254	5-Dec-18	R-10	Dadarbairya	ACC	11.16	13.98	
5	255	6-Dec-18	R-84	Dadarbairya	ACC	12.23	13.59	
6	256	7-Dec-18	R-10	Dangraha	STL	14.14	13.98	
7 8	257	7-Dec-18	R-10	Nayabazar	Ambe	12.10	11.74	
9	258 259	8-Dec-18	R-10	Nayabazar	Ambe	13.81	14.27	
10	260	8-Dec-18 9-Dec-18	R-10	Nayabazar	Ambe	14.11	13.00	
11	261	9-Dec-18	R-9	Dadarbairya	ACC	11.09	12.36	
12	262	10-Dec-18	R-103 R-12	Dadarbairya	ACC	12.78	13.49	
13	263	10-Dec-18	R-12	Dadarbairya	ACC	15.57	14.71	
14	264	10-Dec-18	R-12 R-45	Dadarbairya Navabazar	ACC	12.30	14.61	
15	265	10-Dec-18	R-23	Nayabazar Dangraha	Ambe STL	12.47	13.09	
16	266	10-Dec-18	R-45	Dangraha	STL	15.79	12.82	
17	267	10-Dec-18	R-12	Dadarbairya	ACC	10.31	14.23	
18	268	11-Dec-18	R-45	Nayabazar	Ambe	15.18	12.53	
19	269	12-Dec-18	R-12	Dadarbairya	ACC	15.08	13.15	
20	270	12-Dec-18	R-105	Dangraha	STL	11.39 14.42	14.09	
21	271	13-Dec-18	T2L25	Nayabazar	Ambe	12.21	15.25	
22	272	14-Dec-18	R-84	Dadarbairya	ACC	13.17	12.76	
23	273	15-Dec-18	R-45	Dadarbairya	ACC	11.94	14.36	
24	274	15-Dec-18	R-45	Dadarbairya	ACC	11.67	14.41	
25	275	16-Dec-18	T3L23A	Dadarbairya	ACC	14.51	12.45	
26	276	17-Dec-18	T3L23A	Dangraha	STL	14.58	13.73	
7	277	18-Dec-18	T3L23A	Nayabazar	Ambe	12.04	14.69	
8	278	18-Dec-18	R-23	Dangraha	STL	13.94	13.77	
9	279	18-Dec-18	T3L7A	Dadarbairya	ACC	13.49	15.29	
30		19-Dec-18	N-10	Dadarbairya	ACC	12.00	14.36	
		e No.2502,Sta	indard Specficatio	n Road And Brid	dge 2073	<20%	>8 to 10 N/mm²	
OIIII	nents:-	Cont	tractor			1		
		/ autil				Consultant		
HONG	HENG CON	CO	OUP INTERNATIONAL	ENGINEERING B	UILDING DESIGN AI PL	UTHORITY (P) LTD IN JOINT VENTUF US ENGINEERS & ARCHITECTS (P) LT	RE WITH B.N. CONSULTANCY PV D, KATHMANDU, NEPAL	/T. LTD AND
		1.012	अ वागण्य		ON			/
) a	dhan 		W		Maro		Y	
			Submitted E Contract Mana		Verified By Y Engineer/CSE		Approved By	
V a. ecked gineer		and	Submitted E Contract Mana				Approved By Team Leader	



			REGIO	Cont	atnagar Metr ract No:- RUI	ELOPMENT PRO opolitan City DP/ICB/BRT-02 onthly Test Report	JECT	
							Month	December
							Year Type of Material	2018
s.N.	Lab Ref.No.	Testing Date	Location of Sample	Source of Brick	Name Of Brick	Water Absorption of Brick(%)	Strength of Brick(N/mm²)	Brick Remarks
31	281	19-Dec-18	T2L24A	Dadarbairya	ACC	13.85	14.13	
32	282	20-Dec-18	N-10	Nayabazar	Ambe	12.64	11.81	
33	283	20-Dec-18	R-23	Dangraha	STL	11.81	14.07	
35	284	20-Dec-18	R-10	Nayabazar	Ambe	11.96	13.31	
36	286	21-Dec-18	T3L7A	Nayabazar	Ambe	12.72	15.22	
37	287	21-Dec-18	R-7	Nayabazar	Ambe	13.04	13.33	
38	288	21-Dec-18 21-Dec-18	T3L24A	Nayabazar	Ambe	13.02	14.03	
39	289	21-Dec-18 21-Dec-18	R-84	Dadarbairya	ACC -	10.99	12.26	4
40	290	21-Dec-18 21-Dec-18	R-9	Dadarbairya	ACC	11.30	11.75	
41	291	21-Dec-18 21-Dec-18	R-9 R-45	Dadarbairya	ACC	11.82	12.65	
42	292	21-Dec-18		Nayabazar	Ambe	10.62	14.51	
43	293	21-Dec-18 22-Dec-18	T3L23A T3L7A	Nayabazar	Ambe	11.81	14.51	
44	294	23-Dec-18	T3L7A	Nayabazar	Ambe	12.18	14.43	
45	295	23-Dec-18	T2L25	Dangraha Nayabazar	STL	13.92	12.61	
46	296	23-Dec-18	T2L23		Ambe	13.50	14.56	
47	297	25-Dec-18	R-105	Nayabazar Dangraha	Ambe	10.91	12.55	
48	298	25-Dec-18	R-34	Nayabazar	STL	11.69	12.55	
49	299	25-Dec-18	T3L9	Nayabazar	Ambe Ambe	12.94	15.16	
50	300	25-Dec-18	R-12	Dadarbairya	ACC	11.36	13.18	
51	301	26-Dec-18	R-45	Nayabazar	Ambe	13.23	13.92	
52	302	26-Dec-18	R-7	Nayabazar	Ambe	13.15 13.45	12.58	
53	303	27-Dec-18	R-23	Dangraha	STL	14.52	14.24	
54	304	27-Dec-18	R-12	Dadarbairya	ACC	13.77	11.79	
55	305	28-Dec-18	T2L9	Nayabazar	Ambe	12.92	12.07	
6	306	28-Dec-18	R-7	Nayabazar	Ambe	12.31	14.64	
57	307	28-Dec-18	R-10	Nayabazar	Ambe	14.32	15.38	
							14.03	
-	4							
_	Sub-Clau	ise No 2502 Stan	idard Sporficati	on Road And Brid	7000			
mme		136 140.2302,3141	idard Specificati	on Road And Brid	ge 2073	<20%	>8 to 10 N/mm ²	
		Contr	actor			Consulta	nt	
ZHON	GHENG CO	ONSTRUCTION GROUDS		AL ENGINEERING B	UILDING DESIGN A	UTHORITY (P) LTD IN JOINT VENTUR ENGINEERS & ARCHITECTS (P) LT	E WITH B.N. CONSULTANCY PVT 1	LTD AND PLUS
ecked		100 18	Submitte	CARL CO.	Verified By	ye >	Approved By	
ineer		K	Contract M	CARL CO.	Verified By ITY Engineer/CSE		Approved By Team Leader	



	KEGI	ONAL U	Biratn	agar M	VELU etropolit RUDP/ICE	an City	T PRO	JECT	
					of Field Den				
			-				Month*	Dec	ember
			Locatio	nR_8			Year		018
			Locatio		e content %		pe of Material (gm/cc)		ase action %
Sn.	Lab.Ref.no	Testing Date	Chainage	OMC%	Field MC%	Max.Dry	Field Dry		
4	DIND D DD 4 - 15					density	density,	%	1 %
1	RUDP-B-FD-1, R/S	28-Dec-18	0+020	5.80	5.08	2.242	2.224	99.21	98
3	RUDP-B-FD-1, L/S RUDP-B-FD-1, R/S	28-Dec-18	0+080	5.80	5.49	2.242	2.210	98.56	98
4	RUDP-B-FD-1, R/S	28-Dec-18 28-Dec-18	0+120	5.80	5.61	2.242	2.220	99.02	98
7	RODI -B-1 D-1, L/3	20-Dec-10	0+210	5.80	5.45	2.242	2.215	98.78	98
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	ZHONGHENG CONSTR	UCTION GROU	JP	BUILDING	G DESIGN AU	THORITY (OLVI OTA (S	INT VENTURE	E WITH B.N.
I	NTERNATIONAL ENGIN	EERING CO. L	TD	CONSUL	TANCY PVT	LTD AND P	LUS ENGINE MANDU, NEP	ERS & ARCH	ITECTS (P)
	表 而 g2)	MANDU, NEP	AL	
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						/			0
necke ngine		Submitted By ntract Manage		erified By Sty Enginee					Approved By
				cry Liiginee	I, CJE				Team Leader



			Summa	ry Sheet	of Field Dens	ity Test	Month	Decer	mbar
							Year	20	
		Location:-	R-29 (E	ast of R	-3, Road)		pe of Material	Ba	
	T. 1. D. C.			LITTED STRUCKSON	e content %	Density		Compac	
Sn.	Lab.Ref.no	Testing Date	Chainage	OMC%	Field MC%	Max.Dry	Field Dry	Compaction	Specified
1	RUDP-B-FD-1, R/S	25-Dec-18	0+050	5.60	6.03	density 2.242	density, 2.214	98.77	98.00
2	RUDP-B-FD-1, L/S	25-Dec-18	0+090	5.60	5.36	2.242	2.214	99.85	98.00
3	RUDP-B-FD-1, L/S	25-Dec-18	0+120	5.60	5.75	2.242	2.239	98.78	98.00
4	RUDP-B-FD-1, R/S	25-Dec-18	0+170	5.00	5.85	2.248	2.222	98.83	98.00
5	RUDP-B-FD-1, L/S	25-Dec-18	0+170	5.00	5.49	2.248	2.212	98.39	98.00
6	RUDP-B-FD-1, R/S	25-Dec-18	0+240	5.00	5.13	2.248	2.212	99.16	98.00
R	KODI-D-1 D-1, IVS	23-1000-18	01240	5.00	3.13	2.240	4.229	99.10	98.00
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	Lo Du	ntractor			BUILDING	DESIGN AL	Consultan) LTD IN JOIN	TVENTURE
ZH	ONGHENG CONSTRUC	RING CO. LTI		HONAL	WITH B.N.	CONSULTAN	CY PVT. LT	D AND PLUS EI	NGINEERS
	1/2	//			AF	RCHITECTS	(P) LA'D, KAT	HMANDU, NE	PAL
1	onone.	NEW WILL				mel /			
D) esc	llon	1/1			Marke	Y		Ch	(
had	ced By	Submitted By			Verified By	/		••••	Approved E
ngir		ontract Manag	er		Qty Enginner,	/CSE			Team Lead
		V 00 00 000	1000			extra		121	



1 1	Lab.Ref no. RUDP-S-01 RUDP-S-01	R-122,(0+100) R-122,(0+230)	Location:-R-122 Source of Sample Existing Road Existing Road	Date of Testing 15-Dec-18 15-Dec-18	MDD (1.920 (1.985)	OMC	e of	2	ember 018 grade Remark
1 1	RUDP-S-01	Location/Chainage R-122,(0+100)	Source of Sample Existing Road	15-Dec-18	(1.920	OMC 7.20	PI%	CBR%	
1 1	RUDP-S-01	R-122,(0+100)	Existing Road	15-Dec-18	(1.920	7.20	/		Remark
2 1					1	4	7.58	600	
7.0	XCD1-3-01	K-122,(0+230)	Existing Road	15-Dec-18	1 985	1		[W.OU	
					1.705	7.25	9.86	7.00	
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	ENG	RUCTION GROUP I)	VENTURE WITH PLUS ENGI k	NEERS (ONSULTA & ARCHI ANDU, N	TECTS	VT. LT (P) LTI	D AND O,
ayllam lecked By gineer	 .			/erified By			Approve		•



			Summar	v Sheet	of Field Dens	ity Test			
			-			Į.	Month Year	Decei 20	
			Loca	Ation:-R	-122 re content %	Dana	Type of Material	Sub-C	irade
Sn.	Lab.Ref.no	Testing Date	Chanage		Field MC%	Max.Dry density	ty(gm/cc) / Field Dry density,	Compaction	Specified %
1	RUDP-SG-FD-1, L/S	20-Dec-18	0+080	17.20	1600	gm/cc	/gm/cc	1%	70
2	RUDP-SG-FD-1, R/S	20-Dec-18	0+080	7.20	6.98	(1.920	(1.859	96.81	95
3	RUDP-SG-FD-1, L/S	20-Dec-18	0+180	7.20	7.06	(1.920 /1.920	1/.878	97.82	95
4	RUDP-SG-FD-1, R/S	20-Dec-18	0+230	7.25	6.15	1.985	(1.901	96.59	95
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но	NGHENG CONSTRUCTION ENGINEERI	ON GROUP IN NG CO. LTD	TERNATIO	ONAL	WITH B.N. C	ONSULTAN	THORITY (P) L' ICY PVT. LTD . (P) LTD, KATH	AND PLUS EN	GINEERS
			2			DA/		0/	
	Pathon		R	::	1/46	no y		R	
	Checked By Engineer		mitted By act Manage	r	Verified I Qty Engineer			pproved By eam Leader	



	KEGI		Biratn Contra	agar M ct No:- F	AVELO etropolit RUDP/ICE of Field Den	an City B/BRT-0	NT PRO	JECT	
					Road) e content %		Month *	Dece	mber
		Locatio	n:-R-2	(Branch	Road)		Year Type of Material		18 ise
				Moistur	e content %	Dens	ity(gm/cc)		ction %
Sn.	Lab.Ref.no	Testing Date	Chainag	e OMC%	Field MC%	Max.Dr	y Field Dry	Compaction	
1	RUDP-B-FD-1, R/S	27-Dec-18				delisity		%	%
2	RUDP-B-FD-1, L/S	27-Dec-18	0+020		5.08	2.244	2.201	98.10	98
3	RUDP-B-FD-1, R/S	27-Dec-18	0+040	5.25	5.61	2.244	2.243	99.97	98
K		27 Dec 10	01070	3,23	5.01	2.244	2.241	99.89	98
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	Contract	or							
7	ZHONGHENG CONSTR		ID.	BUILDING	G DESIGN AT	THORITY	onsultant (P) LTD IN JO	INT VENTURE	WITTIN
IN	TERNATIONAL ENGIN	EERING CO. L	TD	CONSUL	TANCY PVT	LTD AND	PLUS ENGINE	ERS & ARCHI	TECTS (P)
	(Soliton PE			-	h /	LTD, KAT	HMANDU, NEP	AL /	
Va	dhan	N		- 1	30			0/	
		R		1/h	6.0			K	
ecke gine	d By	Submitted By		Verified By			Α	pproved By	
anie	Col	ntract Managei		Qty Engineer	r/CSE			eam Leader	



ANNEX-4: SOCIALSAFEGUARD MONITORING/ENVIRONMENTAL MONITORING FORMATS ATTACHED

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

Subproject Road : -RUDP/ICB/BRT/2

Month/Year: Dec 2018

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

Contract Package: RUDP/ICB/BRT/2

		C	ompliance Sta	atus	The second		
S.I	and additional	Full	Partial	None	Implementing Agency	Note of Remarks	Deadline
1	water services	V	- di ciai	None			
2	Availability of toilet facility in campsite	٧					
3	Legal source of fuel wood use			٧			
4	Legal document of fuel wood source						
5	Use of safety accessories	٧					
6	Availability of first aid facility	٧					
7	Basic wage rate to construction workers	٧					
8	Equal wage rate to male and female workers		٧				
9	Compensation of temporarily occupied land	٧					
.0	Compensation of temporarily occupied buildings	V					
1	Legal document of temporarily occupied assets	V					
2	Non use of child labour in construction activities	V					100

Prepared by:

Verified by:

Monitored by:



Regional Urban Development Project(RUDP)

Social Safeguard Monitoring

Inventory of Social Facilities

1.General information

Subproject: -RUDP/ICB/BRT/2

Month/Year:

Dec-18

Name of Contractor: -ZHONGGHENG

Construction GroupInternational Engineering Co Contract Package: RUDP/ICB/BRT/2

Cocanin											
6. Sources and Source &	legal sta	tus of fi	rewood	usad in I	ah						
Source &			T T	useu III I	abour ca	mp and i	ts legal st	atus (use	code)		
Status	Camp-1	Camp-2	Camp-3	Camp-4	Camp-5	Camp-6	Camp-7	Camp-8	Camp-9		
a.Source1	4	4	4	1	-	-		camp o	Callip-9	Camp-10	Remarks
o.Legal Status2	3	3	2	1 2	4	4	4	4	4	4	
Code			3	3	3	3	3	3	3	2	+

1.Source: Community Forest-1, Government Forest-2, Private Forest-3, Local Market-4

2.Legal Status: Legal Agreement-1, Verbal Agreement -2, Non-Agreement-3

7. Type and Ownership of labour camp (use code)

	_					-/						
	Type & Owners	Camp-1	Camp-2	Camp-3	Camp-4	Camp-5	Comme			1		
- 9	2 Tune1	-				cump-3	Camp-6	Camp-7	Camp-8	Camp-9	Camp-10	Dames
	a.Type1	2	2	2	1	1	4			J	camp-10	Remarks
	b.Ownership2	1	4	_	1	1	1	1	1	1	1	
		1	1	1	1	1	1		-	1	1	
	Code				_	1	1	1	1	1	1	

1.Camp Type: Hired House-1, Tented-2

2.Ownership: Private-1 , Public-2 , Government-3

8. Availability of first aid and safety (tick mark for

	Camp-1	1-	1			id and nu	mber for	safety)			
Safety	comp-1	Camp-2	Camp-3	Camp-4	Camp-5	Camp-6	Camp-7	Camp-8	Camp-9	Camp-10	Remarks
a. First-Aid Kit	1	1	1	1	1	1	1			- 10	Remarks
b.Helmet	30	45	35	CF	1	1	1	1	2	2	12
. Gloves	30	45	35	65	65	55	50	15	105	110	575
l.Boots	30	45	35	65 65	65	55	50	15	105	110	575
.Masks	30	45	35		65 65	55	50	15	105	110	575
		- 1		03	05	55	50	15	105	110	575
							1				

Sex	Brahmi	Chhetr		locally employed labour involved in construction works (nu		mber)			
	n	i	Janajati	Dalits	Muslim	Madhesi	Others		1000
Male	5	7	90				- 111010		Remarks
Female	5	-	30	60	55	323	8		
11.Note of r				/				State of the last	548

- Hend rg Prepared by Monitored by



Regional Urban Development Project(RUDP)

Social Safeguard Monitoring

Inventory of Social Facilities

1.General information

Subproject: -RUDP/ICB/BRT/2

Month/Year: -Dec 2018

Name of Contractor: -ZHONGGHENG Construction

GroupInternational Engineering Co pvt Beijing Chaina.

Contract Package: RUDP/ICB/BRT/2

2.Total numbers of co		Camp-1 (Madhu mara)	Camp-2 (Koshi Yard)	Camp-3	(Abbul+Na	Camp-5 (Dinesh+	Camp-6	Camp-7 (Jalauddi	Campo	C	Camp- 10(Anwer +Diwas)	T
Local	Male	0	0	0	9	36	32	0				Remarks
	Female	0	0	0				0	0	35	37	149
			-	-	0	4	0	0	0	0	0	4
Non-Local	Male	25	40	31	55	25	20	51	14	co	70	
	Female	0	3	0				31	14	68	70	399
	Terridic	-	3	0	0	0	0	0	0	0	0	3
Child Labour	Male	0	0	0	0	0	0	0	0			
	Famala					-	-	0	0	0	0	0
	Female	0	0	0	0	0	0	0	0	0	0	0

3. Source and adequacy of drinking water facility in the labour camp(use code)

Sources	camp-1	Camp-2	Camp-3	Camp-4	Camp-5	Camp-6	Camp-7	Camp-8			
a. Piped water	2	2	2	3	3				Camp-9	Camp-10	Remarks
.Well/Spring	1 1000			-	3	3	3	2	3	3	26
.Tanker	1	1	1	1	1	-	1	-	-	1	7
						_					
ode:				-			-				
el es						_					

4. Type and number of toilets in the labour camp (write down the number)

Туре	Camp-1	Camp-2	Camp-3	Camp-4	Camp-5	Camp-6	Camp-7	Camp-8	Camp-0	Camp-10	
a.Pit Latrine								- In the Co	cump-9	Camp-10	Remarks
			-	-	-	-	-	-	-	-	
b.Pan	2	2	2	3	3	2	2	2			
. 0	110							2	2	5	25
c.Open						-4			44		
d						-	-			7	

Sources of Energy	Camp-1	Camp-2	Camp-3	Camp-4	Camp-5	Camp-6	Camp-7	Camp-8			
a. Firewood							Camp-7	Camp-8	Camp-9	Camp-10	Remarks
a cwood			-								
.Kerosene	37.04										
. L.P Gas	V	1/		-				112	0.5		
	v	V	V	٧	٧	٧	٧	V	v/	1/	





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: Dec 2018

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

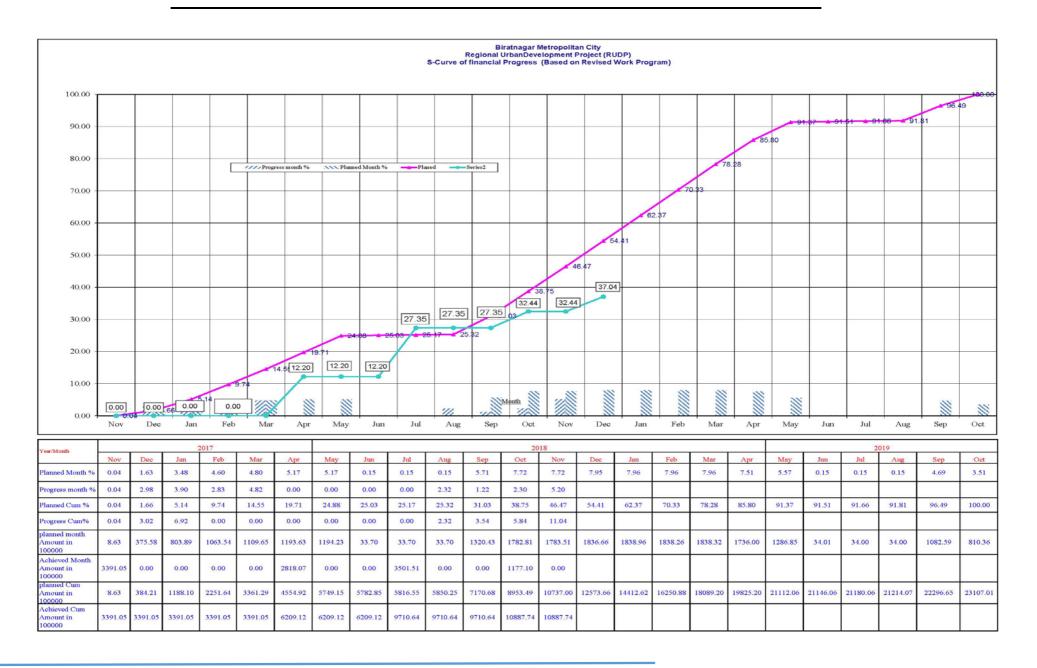


4.4	Use of private land and agreement with	movement	
5	land owners	Yes	
5.1	ran, moise and water Pollution	Water sprinkled by tanker on such sites.	
5.2	Water quality monitoring result and locations	ok	
5.3	Block age of natural drainages ,water logging, drain water discharge into farmland/risky areas	Not Applicable	
6	Quarrying of construction materials and Plants Installment		
6.1	Quarry/borrow operation sites	Not Applicable	
6.2	Crusher plant and Asphalt plant operation restoration	Asphalt Plant	
7	Impact/Disruption of Private properties		
7.1	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	THE SHARE
8.3	Access road	Not Applicable	
8.4 8.5	Electric/Telephone pole		
0.5	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		
0.1	Number of trees removal	00	
0.2	No of tree plantation (Roadside)	Not Applicable	
1	Accident cases and records	No any records	
12	Employment to local people Men and women		
	Child labor (if any)	Yes, both men and women No	
3	Establishment of Safeguard desk and meeting	Yes	
4	Grievances from local people and	Yes	

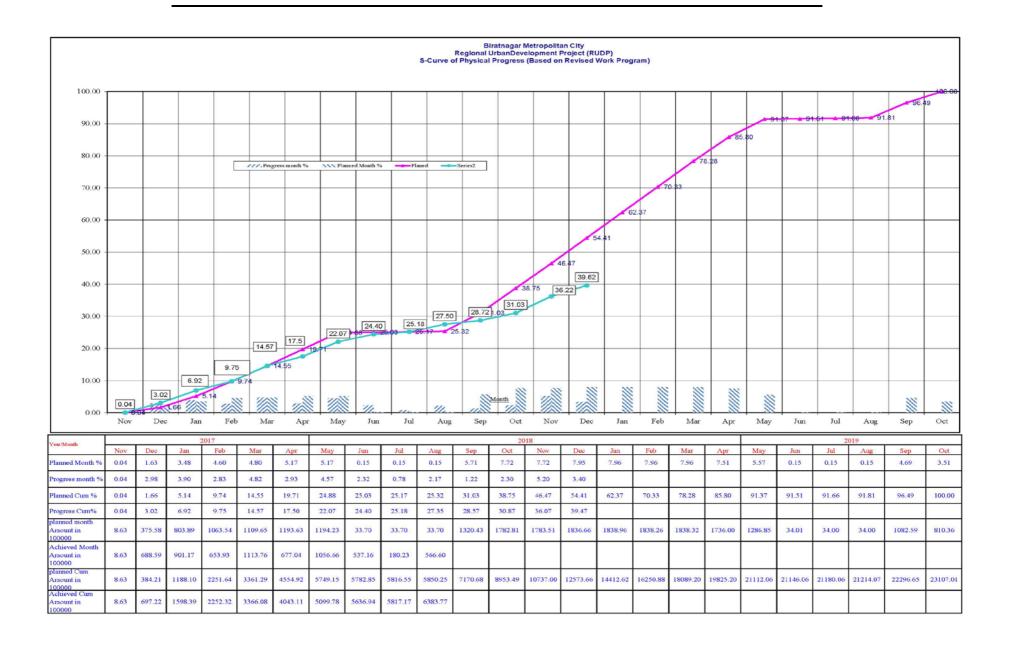




ANNEX-5: S-CURVE
Attached

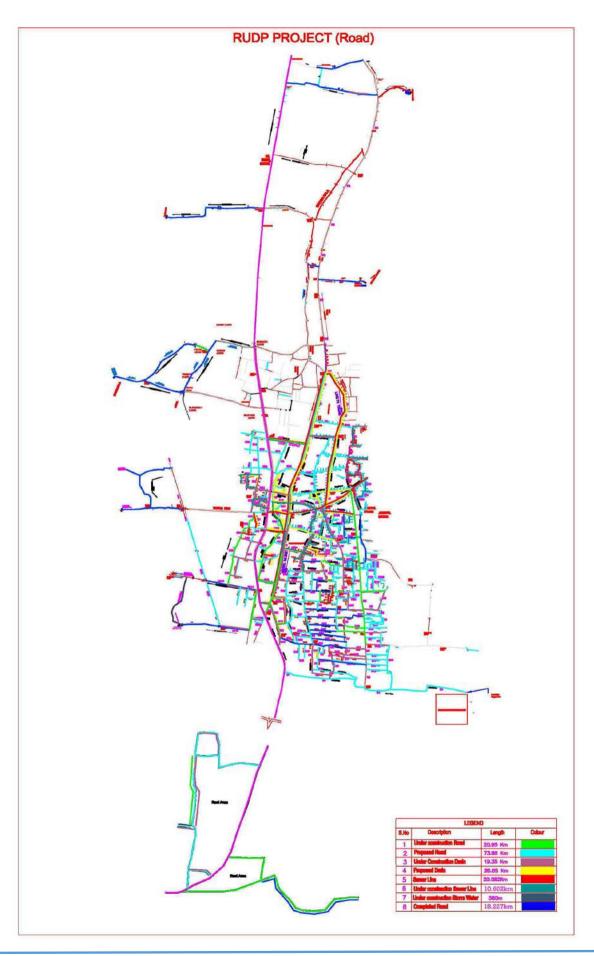








ANNEX-6: MASTER PLAN OF RUDP PROJECT



ANNEX-7: AGREEMENT ATTACHED

लिखितम् जिल्ला चितवन भरतपुरमहानगरपालिका वार्ड न १० स्थित कार्यालय रहेको भगेनहेङ् कन्स्टक्सन गुप ईन्टरनेशननल ईन्जिनियरिङ् कालि, हाल विराटनगरमहानगरपालिका साइट लाइ प्रथम पक्ष भनिनेख र जिल्ला मोरङ्,लेटाड् नगरपालिका वार्ड नश्कृतिमान स्थित ओम श्री ऋशर उद्योग एण्ड प्रथमपक्ष प्रालि जसलाइ यस पिछ दोश्रो पक्ष भनिएको छ विच पिछलो पक्षको जिम्मामा रहेको विराटनगरमाहानगरपालिकाको ठेक्का नम्बर RUDP/ICB/BRT/02 मित्र पर्ने Construction of sewerage,Drainage road, footpath and Road furniture works का लागि अवस्थक पर्ने निर्माण सामाग्री तपसिलमा उल्लेखित सर्तहरूको अधिनमा रही खरिद विक्री गर्नको लागि यो सम्भगैता गरि एक एक प्रति लिथी दियो।

तपशिलका शर्तहरू

- १ दोश्रो पक्षले पहिलो पक्षणाई आवस्यक पर्ने Base, Sub base, Agggregate(10 mm,16mm,20mm,Washed Sand,Plaster sand,Stone dust, and Asphalt Aggregate 16mm Down) Contract Specification अनुसार सप्लाई गर्नु पर्ने छ।
- Meaterial Supply गर्दा देक्ष्रो पक्षले पहिलो पक्षको RUDP/ICB/BRT/02 को सम्पुर्ण Contract Doocument अनुसारको को Specification को आधारमा प्रथम पक्षले निर्दिष्ट गरेको स्थानमा अनलोड गर्नु पर्ने छ।
- ३. दोश्रो पक्षले माधि उल्लेखित Meaterial प्रथम पक्षलाई उपलब्ध गराउदा प्रथम पक्षले दिएको Gradation र Flakiness Index अनुसार उपलब्ध गराउनु पर्ने छ।
- ४. हरेक ४५ दिनको अन्यमा सप्लाइ गरिएको सामाग्रीको बिल दोश्रो पक्षले पहिला पक्षलाइ जारि गर्नु पर्ने छ।
 विल जारि गरेको १५ दिन भित्र प्रथम पक्षले प्रचिलत क्जार भाउ अनुसार भुक्तानि गर्नु पर्ने छ।
- ५. ऋसर प्लान्टले नेपाल सरकारको मापदण्ड अनुसार कार्य गरेको हुनु पर्ने छ।
- E. Company registration certificate को प्रमाणपत्र ,IEE को प्रमाणपत्र दोश्रो पक्षले बुभ्जउनु

पहिलो पक्षको तर्फ वाट ी रविन्द्र कुमार ठाकुर विकास मेरि

कन्मकन ग्रेप क्रियानियरिङ्क लि

TO THE PARTY OF TH

दोश्रो पक्षको तर्फवाट

भिम व. पौडेल संचालक

ओम श्री क्रशार उन्हें प्राप्ट सप्लायस प्रालि लटाङ्, मोरङ्