

ORIGINAL



Building Design Authority (P) Ltd

in joint Venture with

B.N. Consultancy Pvt. Ltd and

PLUSH Engineering & architects (P) Ltd Kathmandu.

Monthly Progress Report

Regional Urban Development Project (RUDP)

Project Implementation Unit

Biratnagar, Nepal



January 2019

Biratnagar Metropolitan City (BMC), Nepal

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EXECUTIVE SUMMARY

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

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

1 PROJECT DESCRIPTION

1.1 INTRODUCTION/BACKGROUND

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

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

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



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

General Features	
Name of Project	Regional Urban Development Project(RUDP)
Executing Agency	Government of Nepal,
	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)	25.29%
Sewer Line	59.40%
Storm Drain	97.44%
Road Side Drain	71.14%



General Features	
Integrated Solid Waste Management (ISWM) Design	Inception Report as well as Stakeholder's Analysis, Communication Strategy and Consultation Plan for Integrated Solid Waste Management (ISWM) has already been submitted. Due to Socio Environment Problem, Progress of Integrated Solid Waste Management (ISWM) design has been hindered.
Physical Progress up to date	Planned : 62.37% , Actual : 45.27%; Lead(+) or Lag(-) by (-) 17.10%
Financial Progress up to date	In Percentage: 39.99%, In Figure: NRs. 1,044,201,086.39 (including VAT and PS)
	In Words: NRs. One Billion Forty Four Millions Two Hundred One Thousand Eighty Six and Thirty Nine Only.

3 SUMMARY OF PROGRESS STATUS OF ALL MAJOR COMPONENTS

S.No	Description	Unit	BoQ Quantity	Progress up to date	Remaining	Progress Status expressed in (%)	Remarks
1	Sewer Line						
a	HDPE/RCC	m	20,082.00	11,929.60	8,152.40	59.40%	
b	Manhole	No.	685.00	397.00	288.00	57.96%	
c	Sewer Inlet	No.	1,010.00	330.00	680.00	32.67%	
d	House Connection	No.	3,784.00	700.00	3,084.00	18.50%	
2	Storm Water Drain						
a	RCC Drain	m	652.80	570.00	15.00	97.44%	Revised Length =585m
b	Piles	No.	132.00	138.00	(6.00)	100.00%	Exceeded
3	Road						



S.No	Description	Unit	BoQ Quantity	Progress up to date	Remaining	Progress Status expressed in (%)	Remarks
a	Subgrade	m	73,860.00	30,170.56	43,689.44	40.85%	
b	Subbase	m	73,860.00	30,170.56	43,689.44	40.85%	
c	Base	m	73,860.00	21,897.60	51,962.40	29.65%	
d	Prime	m	73,860.00	18,679.15	55,180.85	25.29%	
e	Asphalt	m	73,860.00	18,679.15	55,180.85	25.29%	
4	Road Side Drain	m	26,050.00	18,533.01	7,516.99	71.14%	

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 in T3 and T4 have been identified and necessary survey and construction works are in progress. T1Line8, T1Line13A, T1Line14B, T1Line 14C, T2Line24F, T2Line25, T3Line6, T3Line7A, T3Line8, T3Line9, T3Line11H, T3Line12, T3Line13G, T3Line13I, T3Line13K, T3Line21A and T3Line22B are in progress. House connection and sewer inlet placement works in R2, R33, R10, R7, R12 and R9 are in progress. For the month of February, we are planning to do sewer line works at T3Line10, T3Line10F, T3Line10C, T3Line6, T3Line7, T3Line7B 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 January 2019

SN	Description	BoQ		Up to Pre Month		This month		Total to date		Progress %
		Length (m)	Manhole (Nos.)	Length (m)	Manhole (Nos.)	Length (m)	Manhole (Nos.)	Length (m)	Manhole (Nos.)	
Hume Pipe:										
1	Hume pipe (T2)	206.00	6.00	205.00	6.00	-	-	205.00	6.00	
2	Hume pipe (T3)	1,905.00	58.00	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	823.00	23.00	-	-	823.00	23.00	
HDPE Pipe:										
1	HDPE (T1)	1,825.00	57.00	1,528.50	46.00	123.00	4.00	1,651.50	50.00	
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	4,486.10	156.00	1,204.00	36.00	5,690.10	192.00	
4	HDPE (T4)	2,092.00	68.00	769.00	19.00	-	-	769.00	19.00	
Subtotal in (m)		17,841.00	588.00	9,779.60	334.00	1,327.00	40.00	11,106.60	374.00	



SN	Description	BoQ		Up to Pre Month		This month		Total to date		Progress %
		Length (m)	Manhole (Nos.)	Length (m)	Manhole (Nos.)	Length (m)	Manhole (Nos.)	Length (m)	Manhole (Nos.)	
Total		20,082.00	656.00	10,602.60	357.00	1,327.00	40.00	11,929.60	397.00	59.40%

SN	Description	BoQ (Nos.)	Up to Pre Month		This month		Total to date		Progress %
1	Sewer inlet	1,010.00		254.00		76.00		330.00	32.67
2	House connection	3,784.00		534.00		166.00		700.00	18.50



3.1.2 STORM WATER DRAIN

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

Table: 3 PROPOSED and PHYSICAL PROGRESS in STORM WATER DRAINS TILL January, 2019.

S N	Name of Drain	Length in m					Type of Drain	Work Completed				Length of Covered Drain in m	Remarks
		Original	Revised	Progress		Cumulative		Brick		RCC			
				Previous	This Month			m	m³	m	m³		
1	CN2-CN3 (Chyangh Baari Nala)	652.89	585	570	0	570	RCC, closed			570			
2	CN2-CN3 (Chyangh Baari Nala)	132 nos piles	138	138	0	138 nos.							Piling works completed

3.1.3 ROADS AND LANES

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

Table No:-4 PROPOSED and PHYSICAL PROGRESS of pavement works till January, 2019

SN	Road Number	Name of Road	Length in m					Work Completed				Remarks
			Original	Revised	Progress		Total	Sub-base	Base	Asphalt	RCC	
					Previous	This Month		m	m	m	m	
1	R42	Bhagwati Marg	218.00	218.00	218.00		218.00	218.00	218.00	123.00		
2	R5	College Road	970.00	970.00	650.00		650.00	650.00	650.00	599.20		599.20m Asphalt completed
3	B2	Gauri Shankar Marg	2,777.83	2,777.83	2,152.00		2,152.00	2,152.00	2,152.00	2,152.00	210.00	153m Asphalt completed
4	R65	Satghumti Marg	282.00	320.00	320.00		320.00	320.00				
5	R107		173.00	215.00	215.00		215.00	215.00				
6	R107 a		50.00	50.00	50.00		50.00	50.00				
7	R104	VIP Marg	273.00	273.00	273.00		273.00	273.00	273.00	273.00		
8	R3A	Madhumara Marg	600.00	600.00	600.00		600.00	600.00	600.00	582.00		
9	B1	Kanchan Marg	1,172.94	1,173.00	1,173.00		1,173.00	1,173.00	1,106.00	1,106.00		
10	R21	Pratibha Marg	1,320.00	1,320.00	950.00	170.00	1,120.00	1,120.00	1,120.00	1,120.00		



SN	Road Number	Name of Road	Length in m					Work Completed				Remarks
			Original	Revised	Progress		Total	Sub-base	Base	Asphalt	RCC	
					Previous	This Month		m	m	m	m	
11	B3	Keshaliya Marg	1,574.00	1,574.00	1,574.00		1,574.00	1,574.00	1,574.00	1,574.00		
12	S13		1,617.00	1,617.00	1,417.00		1,417.00	1,417.00	1,417.00	1,417.00		
13	R12	Kanchha Dai Marg	1,192.00	1,192.00	837.00	-	837.00	837.00	837.00			
14	Rani site	Rani	4,023.00	4,023.00	2,315.00		2,315.00	2,315.00	1,702.00	1,096.00		
15	R16	Satya Marg	604.00	604.00	604.00		604.00	604.00	604.00	542.10		
16	R26	Pasang Marg	617.00	654.00	654.00		654.00	654.00	654.00	215.00		
17	R28	Pustakalaya Marg	635.00	635.00	635.00		635.00	635.00	635.00	339.20		
18	R27	Peepal Marg	810.00	810.00	580.00		580.00	580.00	580.00	300.00		
19	R25	Devi Marg	599.00	580.00	580.00		580.00	580.00	580.00	561.70		
20	R24	Prabhat Marg	384.41	380.00	380.00		380.00	380.00	380.00	364.95		
21	R37	Banglamukhi Marg	420.00	477.00	477.00		477.00	477.00	477.00	200.70		
22	R7	Manakamana Marg	814.00	814.00	242.00		242.00	242.00	242.00	242.00		242m Asphalt completed
23	R30	Shanti Marg	212.00	212.00	123.10		123.10	123.10	123.10	123.10		



SN	Road Number	Name of Road	Length in m					Work Completed				Remarks
			Original	Revised	Progress		Total	Sub-base	Base	Asphalt	RCC	
					Previous	This Month		m	m	m	m	
24	R9	Fadindra Marg	123.00	123.00	119.00		119.00	119.00	119.00	119.00		
25	S11	Samrat Marg	660.00	660.00	660.00		660.00	660.00	504.60	504.60		
26	R22	Amar Marga	373.10	367.65	367.65		367.65	367.65	367.65	367.65		
27	R29	Shanti Marg	620.00	620.00	299.00	104.00	403.00	403.00	403.00	257.70		257.70m Asphalt completed
28	R36	Gaurav Marg	218.00	218.00	220.00		220.00	220.00				
29	R33	Tarun Marg	285.00	285.00	171.50	90.50	262.00	262.00				
30	R64	Satya Narayan Marg	121.00	121.00	121.00		121.00	121.00				
31	R8		-	225.00	225.00		225.00	225.00	225.00	225.00		225m Asphalt completed
32	N36		-	190.00	190.00		190.00	190.00	186.95	186.95		186.95m Asphalt completed



SN	Road Number	Name of Road	Length in m					Work Completed				Remarks
			Original	Revised	Progress		Total	Sub-base	Base	Asphalt	RCC	
					Previous	This Month		m	m	m	m	
33	R188	Shakti Marg	-	120.00	120.00		120.00	120.00				
34	R2	Main Road	-	300.00	300.00	50.00	350.00	350.00	350.00	350.00		350m Asphalt completed
35	T3 Line 6A	PanditMrghnath Marg	-	220.00	220.00		220.00	220.00				
36	T2 Line 24C	Nava Jyoti Marg	-	205.00	205.00		205.00	205.00				
37	T2 Line 24D	Nava Jyoti Marg	-	210.00	210.00		210.00	210.00				
38	R63 (DSP Road)	DSP Road	420.00	420.00	420.00		420.00	420.00	195.00	195.00		195m Asphalt completed
39	R90	Shakti Marg	450.00	320.00	320.00		320.00	320.00				
40	R77	Arniko Marg	80.00	80.00	80.00		80.00	80.00				
41	R76	Mitra Marg	270.00	270.00	270.00		270.00	270.00				
42	R183	Nava Jyoti Marg	240.00	240.00	240.00		240.00	240.00				
43	T1 L16B	Xenial Front	210.00	210.00	210.00		210.00	210.00				
44	T1 L16A	Xenial South	140.00	140.00	140.00		140.00	140.00				



SN	Road Number	Name of Road	Length in m					Work Completed				Remarks
			Original	Revised	Progress		Total	Sub-base	Base	Asphalt	RCC	
					Previous	This Month		m	m	m	m	
45	R114	Dharanidhar Marg	560.00	560.00	560.00		560.00	560.00	560.00	560.00		
46	R113	Kavi Lekh Marg	740.00	740.00	740.00		740.00	740.00	740.00	740.00		
47	R5a		370.00	370.00	370.00		370.00	370.00				
48	Rani site B		600.00	520.00	520.00		520.00	520.00				
49	R3	Dharamban Marg	-	2,230.00	2,233.00		2,233.00	2,233.00	2,150.30	2,150.30		
50	R78	Sombare - Highway	92.00	92.00	-	92.00	92.00	92.00	92.00	92.00		92m Asphalt completed
51	R84	West of school	673.00	235.00	-	330.00	330.00	330.00				
52	R85	Machha Line	153.00	153.00	-	153.00	153.00	153.00				
53	R87	Mahabir Chowk	150.00	148.00	-	148.00	148.00	148.00				
54	R86	Petrol pump side -R12	193.00	193.00	-	193.00	193.00	193.00				
55	R11	R18/R86	281.00	281.00	-	281.00	281.00	281.00				
56	N3	Jatuwa	120.00	117.00	-	117.00	117.00	117.00				
57	N4	Jatuwa	170.00	168.00	-	168.00	168.00	168.00				



SN	Road Number	Name of Road	Length in m					Work Completed				Remarks
			Original	Revised	Progress		Total	Sub-base	Base	Asphalt	RCC	
					Previous	This Month		m	m	m	m	
58	R10	Ram Marga	1,092.00	1,092.00	-	292.00	292.00	292.00				
59	T2L26F	APF	61.50	61.50	-	55.00	55.00	55.00				
60	T2L27		80.00	80.00	80.00	-	80.00	80.00	80.00			
61	R122		265.55	265.55	265.55	-	265.55	265.55				
62	N9		220.42	220.42	220.42	-	220.42	220.42				
63	R17		610.06	610.06	365.00		365.00	365.00				
64	R18		465.78	465.78	370.00		370.00	370.00				
65	N2		75.84	75.84	75.84		75.84	75.84				
Total =			32,521.43	35,711.63	27,927.06	2,243.50	30,170.56	30,170.56	21,897.60	18,679.15	210.00	



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

SN	Road Number	Name of Road	Type*	Category		Length in m					Footpath		Remarks
				<3m	>3m	Original	Revised	Progress		Cumulative	m	m²	
								Previous	This Month				
1	B2	Gauri Shankar Marg	Precast block			2,777.83	2,777.83	1,700.00	-	1,700.00	1,700.00	3,888.96	
2	S11	Bhatta Chowk to Sankhar Chowk	Precast block			900.00	900.00	300.00	-	300.00	300.00	270.00	
3	B3 (3)	Keshaliya Road	Precast block					-	500.00	500.00	500.00	1,200.00	
4	R16	Jatuwa	Precast block					-	400.00	400.00	400.00	440.00	

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

SN	Description	Unit	Proposed	Total Up to Previous Month	This Month	Total Up to this Month	Progress
1	Subgrade	m	73,860.00	28,454.25	1,716.31	30,170.56	40.85%
2	Sub Base	m	73,860.00	26,386.70	3,783.86	30,170.56	40.85%
3	Base	m	73,860.00	18,398.10	3,499.50	21,897.60	29.65%
4	Prime/Tack	m	73,860.00	15,167.45	3,511.70	18,679.15	25.29%
5	Asphalt	m	73,860.00	14,167.45	4,511.70	18,679.15	25.29%
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 January, 2019.

SN	Road Number	Name of Road	Length in m					Work Completed		Remarks
			Original	Revised	Progress		Total	Brick	RCC	
					Previous	This Month		m	m	
1	B1	Kanchan Marg	-	-	45.00	45.00	90.00	90.00		
2	R29	Shanti Marg	270.00		256.52	-	256.52	256.52		
3	N36				185.87	0.00	185.88	185.88		
4	R8		370.00		219.82	0.00	219.83	219.83		
5	R7	Devi Marg and Pipal Marg	155.00	155.00	89.58	-	89.58	89.58		
6	R63	DSP Road	418.79		298.80	119.99	418.79	418.79		
7	R9	Baglamukhi path	120.00	103.20	103.20	-	103.20	103.20		
8	S13	Udaya Marga	-	158.10	158.10	-	158.10	158.10		
9	N33		-	70.00	70.00	-	70.00	70.00		
10	R28	Pustakalaya Marg	340.00	278.00	139.00	139.00	278.00	278.00		
11	R90	Shakti Marg	320.00		313.25	-	313.25	313.25		
12	R114	Dharanidhar Marg	-	312.33	273.20	39.13	312.33	312.33		
13	R11	Om Shiv Marg	-		200.00	0.16	200.17	200.17		
14	R18		-	382.50	190.75	190.75	381.50	381.50		
15	R17		-		360.85	14.15	375.00	375.00		
16	R113	Kavi Lekhnath Marg	-	312.45	156.22	156.23	312.45	312.45		
17	R77	Arniko Marg	97.00		80.00	-	80.00	80.00		
18	R76	Mitra Marg	272.00	275.00	270.00	-	270.00	270.00		
19	N9	Devi Marga	-		222.70	-	222.70	222.70		
20	N4		-	170.00	146.37	0.00	146.38	146.38		
21	R33	Tarun Marg	-	265.00	264.48	-	264.48	264.48		
22	R36	Gaurav Marg	218.00		216.40	0.05	216.45	216.45		
23	R86	Janpath Marg	215.00		187.00	0.55	187.55	187.55		
24	R183	Nava Jyoti Marg	242.00		211.00	0.05	211.05	211.05		
25	R7a		77.81		65.00	-	65.00	65.00		
26	Rani site	Rani B	-	650.00	349.80	180.20	530.00	530.00		
27	Rani site	Rani A	-	300.00	135.00	135.00	270.00	270.00		



SN	Road Number	Name of Road	Length in m					Work Completed		Remarks
			Original	Revised	Progress		Total	Brick	RCC	
					Previous	This Month		m	m	
28	N3		-		110.00	-	110.00	110.00		
29	N5		-		40.00	25.00	65.00	65.00		
30	R21	Binayak Marga	-	390.00	194.12	194.13	388.25	388.25		
31	R2	Main Road	2,060.00	2,060.00	567.50	182.50	750.00	750.00		
32	T1L16B	Xenial Front	-		205.66	0.02	205.68	205.68		
33	T1L16A	Xenial South	-	160.00	150.19	0.00	150.20	150.20		
34	R75	Tintoliya Marga	135.00	135.00	127.50	127.50	255.00	255.00		
35	R122	Amar Marga	-		250.47	0.00	250.48	250.48		
36	R18 Branch		-	30.00	30.00	-	30.00	30.00		
37	R7(b)(Neuro to sidhartha chowk)	Siddhartha Marga	317.00	317.00	300.00	-	300.00	300.00		
38	R12	Sukra Path	-		500.00	210.00	710.00	710.00		
39	R42	Jahada Marga	-		85.50	85.50	171.00	171.00		
40	R6	Shahi Marg	460.00	430.00	380.00	380.00	760.00		760.00	
41	R21(a)	DharamBadh Junction	-	160.00	80.00	-	80.00	80.00		
42	R78	Binayak Marga	92.00	70.00	70.00	-	70.00	70.00		
43	R188	Shakti Marg		120.00	57.80	57.80	115.60	115.60		
44	R40	Brahma Kumari Marga	-		300.00	-	300.00	300.00		
45	Rani Site C		-	100.00	48.75	48.75	97.50	97.50		
46	Ranit Site D		-	131.45	65.72	65.73	131.45	131.45		
47	T3L21	Moti Marga	380.00	380.00	360.95	-	360.95	360.95		
48	T3L39	Gaheli Marga	-	278.00	270.00	-	270.00	270.00		
49	T3 Line 39A		-	90.00	50.00	40.00	90.00	90.00		
50	T3 L39B		-	-	50.00	40.00	90.00	90.00		
51	T2L27	Bhumi Prashasan Junction	92.00	80.00	79.50	-	79.50	79.50		
52	T4 Line 1	Sailesh Marg	-	197.00	100.00	-	100.00	100.00		
53	N2				95.00	-	95.00	95.00		
54	T2 Line 26E	College Road	80.00	80.00	80.00	10.00	90.00	90.00		



SN	Road Number	Name of Road	Length in m					Work Completed		Remarks
			Original	Revised	Progress		Total	Brick	RCC	
					Previous	This Month		m	m	
55	T2 Line 18C	Maisthan Marga	-	105.00	51.00	51.00	102.00	102.00		
56	T2Line 18A	Makalu Marga	90.00		60.00	-	60.00	60.00		
57	R6 (T3L11i)		-	275.00	138.00	109.50	247.50	247.50		
58	R9(T3L11k)	Tathasthu Marga	-	200.00	180.00	-	180.00	180.00		
59	R45 (T3Line10D)	Dadhiram Marga	302.00	302.00	260.00	-	260.00	260.00		
60	R9, T2 L19	Fanindra Marga	256.00	256.00	206.40	8.60	215.00	215.00		
61	R7c (Neuro to Shanti Chowk	Siddhartha Marga	240.00	605.00	490.00	115.00	605.00	605.00		
62	R84	School Marga	673.00		432.50	180.50	613.00	613.00		
63	R85	Lekhanath Marga	162.00		145.00	5.00	150.00	150.00		
64	R87	Byas Marga	160.00		150.00	-	150.00	150.00		
65	Rani B (Bus park)		-	120.00	68.00	22.00	90.00	90.00		
66	R8(a)	Madhumara Marg	218.00		218.00	2.00	220.00	220.00		
67	T3L23A		263.47	263.47	100.00	-	100.00	100.00		
68	Rani E		85.00	85.00	60.00	25.00	85.00	85.00		
69	R102	Hamro Marg			132.50	-	132.50	132.50		
70	R10/R10a	Ram Marga	1,092.41	180.00	740.35	0.00	740.36	740.36		
71	N10	APF	154.48	154.48	150.00	-	150.00	150.00		
72	R23	Bani Marg	226.12	226.12	200.00	-	200.00	200.00		
73	R103	Vibuti Marga	173.00	173.00	162.50	-	162.50	162.50		
74	T3L6					130.00	130.00	130.00		
75	P1, T3L6A	Pandit Meghnath Marga	280.00	280.00	160.00	-	160.00	160.00		
76	T2 L24C & D	Hanuman Das Marga	176.93	176.93	130.00	-	130.00	130.00		
77	R99	APF	187.00	187.00	187.00	-	187.00	187.00		
78	T2 L25		409.00	409.00	150.00	-	150.00	150.00		
79	R20		190.00	190.00	60.00	-	60.00	60.00		
80	T2L24F		120.00	120.00	60.00	-	60.00	60.00		
81	R105		168.19	168.19	150.00	-	150.00	150.00		



SN	Road Number	Name of Road	Length in m					Work Completed		Remarks
			Original	Revised	Progress		Total	Brick	RCC	
					Previous	This Month		m	m	
82	R34	Prabhu Marg	151.00	151.00	130.00	28.35	158.35	158.35		
83	R35	Garima Marg	138.00	138.00	70.00	68.00	138.00	138.00		
84	R107		180.00	180.00	80.00	80.00	160.00	160.00		
85	T3L13D		80.00	80.00	40.00	30.63	70.63	70.63		
86	T3L13E		70.00	70.00	35.00	27.40	62.40	62.40		
87	T3L11E		160.00	160.00	75.00	35.00	110.00	110.00		
88	B2					76.50	76.50	76.50		
89	R78					35.00	35.00	35.00		
90	R7b					288.50	288.50	288.50		
91	T3L21A					25.00	25.00	25.00		
92	R74					96.00	96.00	96.00		
93	R46					120.00	120.00	120.00		
94	R101					160.00	160.00	160.00		
95	T3L7A					100.00	100.00	100.00		
96	T3L8					75.00	75.00	75.00		
97	R20					100.00	100.00	100.00		
98	R5					200.00	200.00	200.00		
99	R67					110.00	110.00	110.00		
100	R82					110.00	110.00	110.00		
101	T1L13A					90.00	90.00	90.00		
102	T1L14A					85.00	85.00	85.00		
103	R68					180.00	180.00	180.00		
104	T3L22A					110.00	110.00	110.00		
105	T3L22B					50.00	50.00	50.00		
106	T3L25C					70.00	70.00	70.00		
107	T3L11B					60.00	60.00	60.00		
108	T3L11M					50.00	50.00	50.00		
109	R106					70.00	70.00	70.00		
110	R41					500.00	500.00	500.00		
111	T2L19B					60.00	60.00	60.00		
112	R30					180.00	180.00	180.00		
113	T3L13C					45.00	45.00	45.00		
114	T3L13J					72.53	72.53	72.53		
115	T2L18Y					100.00	100.00	100.00		
116	T2L19P					114.38	114.38	114.38		
117	T2L19Q					126.55	126.55	126.55		
118	R9A					208.73	208.73	208.73		
119	R9B					25.00	25.00	25.00		
Total =					18,460.29	3,405.20	18,533.01	17,773.01	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.

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 Chishyang.

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. Dhiraj Sardar.

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

3.6 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, Chyangbari Naala Biratnagar-16, Asphalt work at Sai Marg, Sewer Line construction work at Hanumandas Road and Asphalt Plant at Rani Site. Except of Minor, no any major conflict has been found during construction work. The visit was conducted jointly with Environment Safeguard Expert and Social Safeguard Expert.

Grievance Redresses Mechanism:

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 form 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 1st, 2nd and 3rd December, 2018 following issues were found. Social Safeguard revisited the site on 29th, 30th and 31st December.

- i. Efforts are being made to control dust emission at construction site by sprinkling water. As personal safety was given prime importance, construction workers were made to use helmet, globe and jacket while on the construction site.
- ii. Besides that, special attentions were given on the placement of safety board and traffic signboards, safety tools, barricades, tapes, etc. and special care were taken to make sign boards big enough to make them visible from distant.
- iii. Taking into consideration of the fact that the involvement of the significant numbers of female as employee in ADB project is the main project objective of ADB, contractor paid especial attention to have a separate toilet and separate labor camp for female that facilitates and encourages female to get work in the construction field.
- iv. Significant improvement was found to be done in health and sanitation issues in the labor camp than in the previous monitoring visit; like, quality and quantity of drinking water was improved and condition of toilet was found to be enhanced. However, to meet the sanitation condition to predetermined level, further instructions were given by contractor to make provision for sufficient water in toilet and soap for hand-wash. Furthermore, yard 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 R12, T1Line 5A and R6, etc.

Status of Labor at Site

Labour class	Labour		Composition		Ethnic composition				
	Skilled	Unskilled	Male	Female	Janjati	Dalit	Muslim	Madhesi	Brahmin/Chhetri
Local	38	104	140	5	15	18	5	77	
Non local	113	292	414	0	125	60	28	183	
Indian	9	27	36	0	0	0	10	26	
TOTAL	160	423	590	5	140	78	43	286	

3.7 FINANCIAL PLAN

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

**Table:-5 DISBURSEMENT
RECORDS in CONSTRUCTION**

3.7.1 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	IPC 02	2 nd April 2018	261,501,492.21	
3	IPC 03	1 st July 2018	316,582,708.58	
4	IPC 04	1 st October 2018	105,227,887.17	
5	IPC 05	2 nd December 2018	95,951,603.44	
6	IPC 06	3 rd January 2019	264,937,394.99	
Total amount excluding PA & Mobilization advance till date =			1,044,201,086.39	



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:

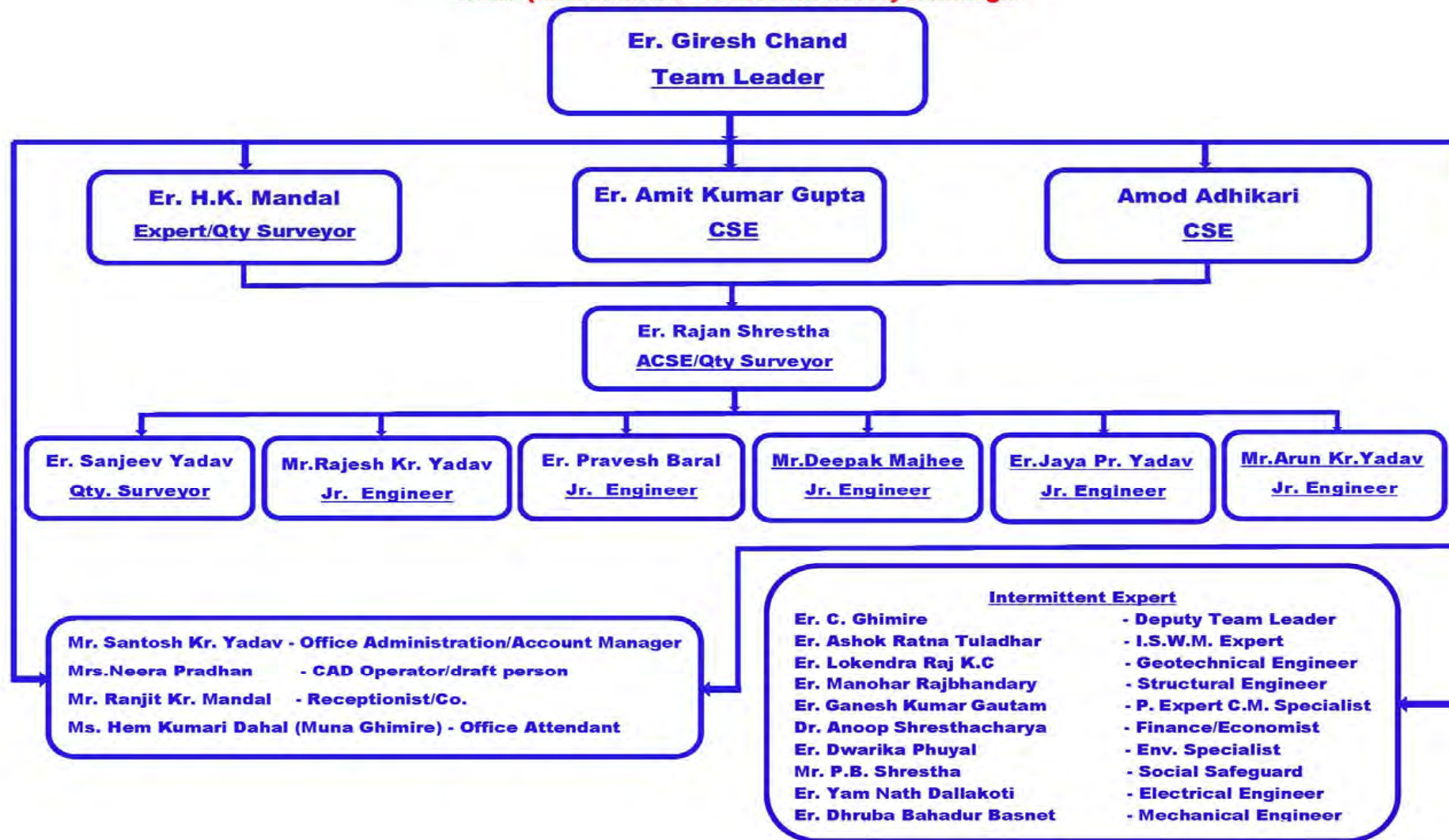
- Detailed Design and Procurement Assistance Phase for integrated solid waste management design (ISWM)
- Monthly progress report and quarterly progress report.
- Semi- annual Environmental monitoring report.
- Semi-annual Safeguard monitoring report.
- Annual progress report including annual Environmental / 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



ORGANIZATION CHART
RUDP (ADB Loan No - 47252 Site Office, Biratnagar)



4.4 CONSULTANT'S ACTIVITIES IN CONSTRUCTION PHASE

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

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

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



SN	Name	Designation	Joining date	Remarks
20	Neera Pradhan	CAD operator/Draft Person	10 th Dec 2017	
21	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

Month	Target This Month		Achievement This Month		Leading		Lagging		Remarks
	Monthly	Accumulated	Monthly	Accumulated	Monthly	Accumulated	Monthly	Accumulated	
July-18	0.15%	25.17%	0.78%	25.18%	0.63%	0.01%		NA	Leading
August-18	0.15%	25.32%	2.32%	27.50%	2.17%	2.18%		NA	Leading
September-18	5.71%	31.03%	1.22%	28.72%	NA	-2.31%		-2.31%	Lagging
October-18	7.72%	38.75%	2.30%	31.03%	NA	-7.72%		-7.72%	Lagging
November-18	7.72%	46.47%	5.20%	36.22%	NA	-10.25%		-10.25%	Lagging
December-18	7.95%	54.41%	3.40%	39.62%	NA	-14.79%		-14.79%	Lagging
January-19	7.96%	62.37%	5.65%	45.27%	NA	-17.10%		-17.10%	Lagging

5.3KeyEvents

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

6 DETAILS OF PRE CAST ACTIVITIES.

Table 9: PHYSICAL PROGRESS in PRODUCTION OF PRECAST ITEMS till, January, 2019

Physical Progress till January 2019							
S.N.	Description	Unit	Progress			Total to Date (RM.)	Remarks
			BoQ	Up to Previous month (RM.)	This Month (RM.)		
1	Precast Slab	No		42,263.00	3459.00	45,722.00	Under progress
2	Kerb Stone	Rm	147,729.68	74,825.30	2468.00	77,293.30	52.32%

Table 10: PHYSICAL PROGRESS in PRODUCTION OF RCC Hume Pipe at Itahari till, January, 2019

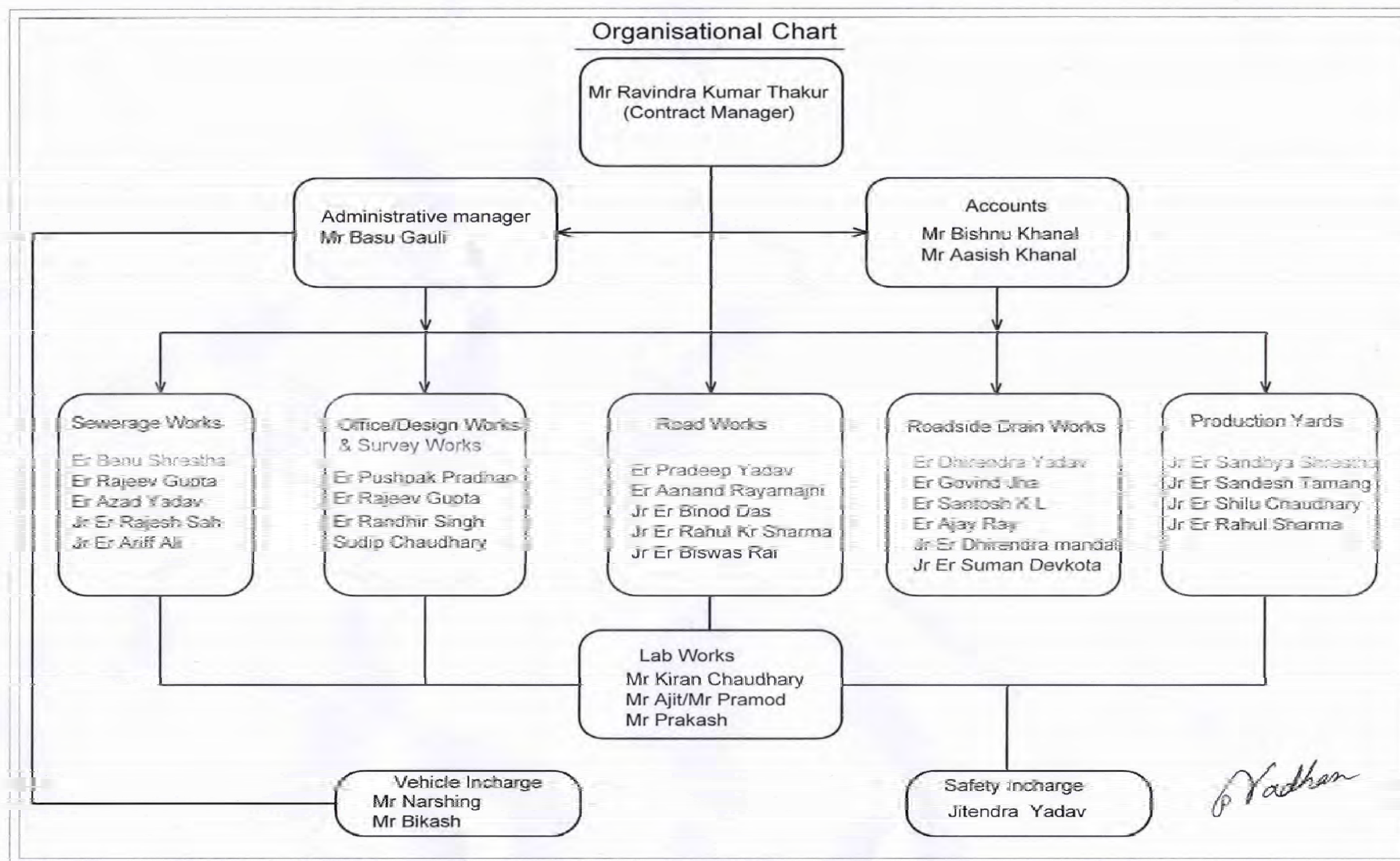
Physical Progress till January 2019							
S.N.	Description	Diameter (mm)	Progress			Total to Date (RM.)	Remarks
			BoQ (RM)	Up to Previous month (RM.)	This Month (RM.)		
1	RCC Pipe	300	336.00	336.00	-	336.00	
2	RCC Pipe	450	681.00	681.00	-	681.00	
3	RCC Pipe	500	842.00	842.00	-	842.00	
4	RCC Pipe	600	382.00	382.00	-	382.00	
	Total						

Table 11: PHYSICAL PROGRESS in PRODUCTION OF HDPE Pipe till, January, 2019

<i>Physical Progress till January 2019</i>							
S.N.	Description	Diameter (mm)	Progress			Total to Date (RM.)	Remarks
			BoQ (RM)	Up to Previous month (RM.)	This Month (RM.)		
1	HDPE Pipe	110.00	1,987.20	2,487.20	-	2,487.20	Under process
2	HDPE Pipe	200.00	16,656.00	16,500.00	-	16,500.00	
3	HDPE Pipe	250.00	115.00	450.00	-	450.00	
	Total						

Table 12: PHYSICAL PROGRESS in PRODUCTION OF UPVC Pipe till, January 2019

<i>Physical Progress till January 2019</i>							
S.N.	Description	Diameter (mm)	Progress			Total to Date (RM.)	Remarks
			BoQ (RM)	Up to Previous month (RM)	This Month (Rm.)		
1	UPVC Pipe	160.00	5,050.00	4,800.00	-	4,800.00	
2	UPVC Pipe	110.00	5,050.00	4,000.00	-	4,000.00	



7 CONTRACTOR'S MANPOWER

Table 13: CONTRACTOR'S KEY STAFFS in January, 2019

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 In charge	-	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 Litres. (preheating container)	2	2	
	Air compressor	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	Theodolite	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 and for sewer line.
- Road works
- Precast production works at contractor's yard.
- Road Side drain works.
- Laying of Kerb Stone, cover slab and interlocking tiles.
- Sewer line, Sewer inlet and House Connection works.



ANNEX-1: PHOTOGRAPHS OF JANUARY, 2019





Road paint, Kerb stone and interlock works at B1



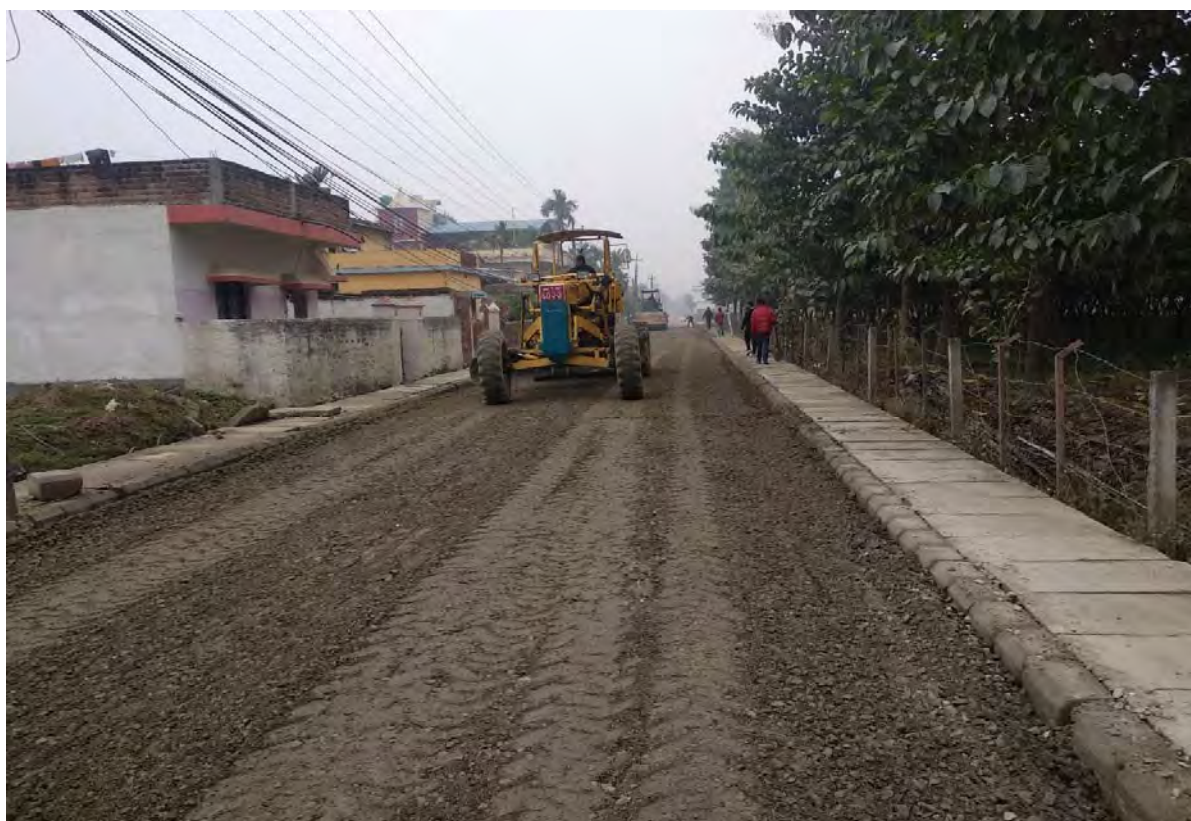
Base finishing Works at B2



Road Drain work at R6



Road diversion at R7



Base Laying Works at R29



Gradation test at crusher



ROW clearance works at Pandit Meghnath Marga



Sewer line placement Works at R2

ANNEX-2: MINUTES OF MEETING JANUARY, 2019



MINUTES OF MEETING

Contract: Regional Urban Development Project (RUDP), Biratnagar, RUDP/ICB/BRT/2, ADB Loan No: 47252-NEP

Date: 11 January 2019

Time: 01:15 PM

Venue: PIU Office, Biratnagar

Attendance

Employer:		
1	Mr Bhim Prajuli	Mayor, BMC
2	Mrs Indira Karki	Deputy Mayor, BMC
3	Mr Kumar Prashad Dahal	Chief Administrative Officer (CAO), BMC
4	Mr. Bharat Kumar Nuepane	Project Manager (PM), PIU
5	Mr. Prakash Narayan Chaudhary	Deputy Project Manager (DPM), PIU
6	Mr Ghanshyam Kafle	Project Engineer (PE), PIU
Consultant:		
1	Mr. Giresh Chand	Team Leader (TL), DSC
2	Mr. Amit Kumar Gupta	CSE, DSC
3	Mr Hare Krishna Mandal	Quantity Surveyor, DSC

The meeting was chaired by Mayor, Mr. Bhim prajuli, Biratnagar Metropolitan City Office welcomed all the participants in the meeting. Following matters were discussed and decided:

S. NO.	Minutes	Action by
1	PM, Mr Nuepane briefed the problems pertaining to lack of fund for relocation of electric poles, water supply pipe lines and requirement of new water supply pipe lines laying due to which the construction works under RUDP Project is suffering a lot so that to run the project smoothly required separate fund for relocation of above items (Particularly laying of New Water Supply Pipes). The employer informed that Biratnagar Metropolitan City (BMC) office has already allocated about Nepalese Rupees Forty (40) Million for current fiscal year. During last ADB Mission, it has been discussed on details regarding how to interpolate the above fund for laying of new water supply pipes under RUDP & to get fair accountability. They suggested to adopt the previous practice with fair measurement by DSC and supervise by the Nepal Water Supply	The employer, contractor & consultant



Minutes of Meeting – STIUEIP, Biratnagar

MINUTES OF MEETING

Contract: Secondary Town Integrated Urban Environment Improvement Project, Contract No.: STIUEIP W/ERT/IGB-01

Date: 17 January 2019

Time: 10:45 AM

Venue: PIU Office, Biratnagar

Attendance

Employer:		
1	Mr. Bharat Kumar Nuepane	Project Manager (PM), PIU
2	Mr. Prakash Narayan Chaudhary	Deputy Project Manager (DPM), PIU
3	Mr. Ponam Dahal	Chief Social Development officer, PIU
4	Mr. Ghanshyam Kafley	Project Engineer (PE), PIU
5	Mr. Anil Singh	Project Engineer (PE), PIU
Contractor:		
1	Mr. Ujjwal Prasai	PM, CTCE-Kalika J/V
2	Mr. Bishesh Prasai	Engineer, CTCE-Kalika J/V
Consultant:		
1	Mr. Gireesh Chand	Team Leader (TL), DSC
2	Mr. Amit Kumar Gupta	CSE, DSC

The meeting was chaired by PM, Mr. Bharat Kumar Nuepane and welcomed all the participants in the meeting. Following matters were discussed and decided:

S. NO.	Minutes	Action by
1	<p>TL, Mr Chand pronounced the progress of the STIUEIP project and status of outstanding as well as the defect remedial works.</p> <p>PM, Mr Nuepane included that the contractor M/S CTCE-Kalika J/V completed the construction work before 15th December 2018 and advised to prepare the list of outstanding as well as the defect remedial works and proceed further as per the contract. To complete those (outstanding as well as the defect remedial) works as soon as possible, if required the contractor need to increase the equipment & manpower. He also emphasized that contractor M/S CTCE-Kalika J/V required to remove the surplus plus undesirable materials from the site.</p> <p>PM, Mr Prasai agreed and assured that they'll complete on framed time.</p>	The employer, contractor & consultant

Minutes of Meeting – STIUEIP, Biratnagar

S. NO.	Minutes	Action by
2	<p>PM, Mr Prasai emphasized that all the outstanding works have been completed except TOD meter for Dedicated Electricity Feeder Line and proportional weir at Grit chamber.</p> <p>PM, Mr Nuepane asked Project Engineer/ PIU, Mr Singh to check the quality and speed up the connection work of TOD meter, if necessary co-ordinate with Nepal Electricity Authority (NEA).</p> <p>TL, Mr Chand added that the work of Dedicated line should be accepted only after written consent of work done, testing and assurance that dedicated electricity feeder line is working properly from NEA. After completion of TOD meter installation and assurance from NEA, we'll proceed for joint inspection and joint verification of Defects and Outstanding works under clause 10.1 GCC/PCC.</p>	The employer, contractor & consultant
3	<p>TL, Mr Chand emphasized to clean and repair the defects in sewer line including House Connection Chamber, Sewer inlet and sewer manholes so that the sewer line as well as its components do function properly to fulfil the purposes for which it is intended.</p> <p>PM, Mr Prasai agreed on it.</p>	The employer, contractor & consultant
4	<p>TL, Mr Chand informed that the placement work of Sewer Inlets in Koshi Highway are very slow so need to speed up the work.</p> <p>PM, Mr Prasai said if the work goes smoothly without any obstacle, they'll complete before 28 Jan 2019.</p>	The employer, contractor & consultant
5	<p>TL, Mr Chand informed that the defect remedial of road works at R2 Lane (Pushpalal Chowk) is not started yet so that as we decided earlier need to do the RCC slab at instructed portion as soon as possible. The Employer has already instructed to the Contractor via Consultant for RCC due to sharp bend/ very less radius at Pushpalal chowk.</p> <p>PM, Mr Prasai agreed to complete the work within a week if weather favour.</p>	The employer, contractor & consultant
6	<p>PM, Mr Nuepane asked to form a team of 3 parties (The employer, the contractor under STIUEIP Project and the consultant's representatives) to verify the Sewer inlet as well as the House connection chamber installed under STIUEIP so Biratnagar Metropolitan city office will start the further work to get connection from households and reassure for smooth functioning.</p>	The employer, contractor & consultant



Minutes of Meeting – STIUEIP, Biratnagar

S. NO.	Minutes	Action by
7	<p>PM, Mr Nuepane emphasized about the remaining works of HCC and SI under STIUEIP which required to complete as soon as possible.</p> <p>PM, Mr Prasai agreed to complete the works as soon as possible but he denied to do the HCC works for new constructed house.</p> <p>TL, Mr Chand said to complete the remaining HCC and SI works as soon as possible except for new constructed house.</p>	<p>The employer, contractor & consultant</p>

Handwritten signatures and stamps:

- Signature: *Lib Prasai*
- Signature: *Chand*
- Signature: *Prasai*
- Signature: *Nuepane*
- Signature: *Chand*
- Signature: *Prasai*
- Signature: *Nuepane*
- Stamp: *STIUEIP JIV*
- Stamp: *Building Dept*

MINUTES OF MEETING-22

Contract: Regional Urban Development Project (RUDP), Biratnagar, RUDP/ICB/BRT/2, ADB Loan No: 47252-NEP

Date: 31 January 2019

Time: 02:00 PM

Venue: PIU Office, Biratnagar

Attendance

Employer:		
1	Mr. Bharat Kumar Nuepane	Project Manager (PM), PIU
2	Mr. Prakash Narayan Chaudhary	Deputy Project Manager (DPM), PIU
3	Mr Ghanashyam Kafley	Project Engineer (PE), PIU
Contractor:		
1	Ravindra Kumar Thakur	CM, M/S Zhongheng Construction Group International Engineering Co. Ltd.
Consultant:		
1	Mr. Gireesh Chand	Team Leader (TL), DSC
2	Mr. Amit Kumar Gupta	CSE, DSC
3	Mr Hare Krishna Mandal	Quantity Surveyor, DSC

The meeting was chaired by PM, Bharat Kumar Nuepane and he welcomed all the participants in the meeting. Following matters were discussed and decided:

S. NO.	Minutes	Action by
1	<p>PM, Mr Nuepane briefed about venue of SAAF women's championship 2019, stay of management team, crews & players, routes need to clear for their warmth welcome and hospitalities. He emphasized to complete the Asphalt works/sub base layer laying in the lanes mentioned below to reduce load of traffic during the game before 27th February 2019 (15th Falgun 2075).</p> <ul style="list-style-type: none"> Peripheral roads around Bus park area including zenial, Eastern star and Ratna hotel, etc DSP road (R63) Hospital line and peripheral road of stadium (T3Line 6, 7) – Stadium to Koshi hospital, stadium to family planning building, stadium to main road (pandit Meghnath Marga) Sansari Mai Temple/chowk to Traffic chowk remaining portion in R2 – At least base for smooth movement of traffic. 	The contractor & consultant

S. NO.	Minutes	Action by
	<ul style="list-style-type: none"> In R2 – Nagarpalika Chowk to DSP Road. <p>The contractor, Mr Thakur, CM, admitted to complete the above jobs before 15th Falgun 2075 BS.</p>	
2	<p>With reference to PM/PIU's letter refⁿ No.: 137/2075-076 on 28th January 2019 regarding laying of new water supply pipe line and it has been decided to lay new water supply pipes lines at B1 Lane (From canal to Kanchanbari Chowk) and the stretch east of Nepal Telecommunication Office at right side as advised by Nepal Water Supply Corporation (NWSC).</p>	The employer, contractor & consultant
3	<p>TL, Mr Chand asked about delay in installation of TOD meter at WWTP, Jatuwa for Dedicated electricity feeder line so that 3 Parties may proceed to verify the outstanding as well as defect remedial lists according to contract documents pertaining to issuance of Taking Over Certificate (TOC) of STIUEIP Project which discussed during last meeting also on the request of the contractor M/S CTCE-Kalika.</p> <p>PM, Mr Nuepane informed us that TOD meter installation is under process and we are in touch with Nepal Electricity Authority (NEA) to do necessitating as soon as possible. He also advised DSC to bring the procurement specialist Mr Ganesh Gautam to site office (Biratnagar) for documentation of Taking Over Certificate (TOC) under STIUEIP, Biratnagar.</p>	The employer, contractor & consultant
4	<p>It has been decided to pay the service charge @ 1.50% of estimated cost for dedicated electricity feeder line for WWTP, Jatuwa which has been requested by Nepal Electricity Authority (NEA) via their letter ref No.: 2074/075-611 on 2075/06/02 BS to deposit the supervision charge of NRs. 403,045.46 (In words: Nepalese Rupees Four hundred three Thousand Forty Five and Forty six paisa only) to NEA A/C No.: 0701010203601 (Nabil Bank).</p> <p>PM, Mr Nuepane said that pay to the concerned authority contractually and emphasized to keep the receipt of payment in IPC for our record.</p>	The contractor
5	<p>TL, Chand informed that as per Project Manager (PM), PIU letter to Project Director and copy to Team Leader, DSC dated on 30th December 2018 pertaining to the financial implication to rectify the drain to meet the kerb stone is comes around 0.70% (Zero decimal Seventy percentage) of the contract amount.</p>	The employer, & consultant

ANNEX-3: LABORATORY TEST RESULTS OF JANUARY, 2019
Attached



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

Location:-R-21-A



REGIONAL URBAN DEVELOPMENT PROJECT

Biratnagar Metropolitan City

Contract No:- RUDP/ICB/BRT-02

Summary Sheet of Monthly Test Report

Location: R-33

Month:	January
Year	2019
Type of Material	Sub grade

[illegible]

<p>Contractor</p> <p>ZHONGHENG CONSTRUCTION GROUP INTERNATIONAL ENGINEERING CO. LTD</p>	<p>Consultant</p> <p>BUILDING DESIGN AUTHORITY (P) LTD IN JOINT VENTURE WITH B.N. CONSULTANCY PVT. LTD AND PLUS ENGINEERS & ARCHITECTS (P) LTD, KATHMANDU, NEPAL</p>
<p>.....</p> <p>Checked By Engineer</p>	<p>.....</p> <p>Submitted By Contract Manager</p>
<p>.....</p> <p>Verified By Qty Engineer/CSE</p>	<p>.....</p> <p>Approved By Team Leader</p>



Summary Sheet of Field Density Test

Location:-R-33



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

Summary Sheet of Field Density Test

Location:-T2L26E

<p>Contractor</p> <p>ZHONGHENG CONSTRUCTION GROUP INTERNATIONAL ENGINEERING CO. LTD</p> <p><i>[Signature]</i></p> <p>..... Submitted By Contract Manager</p>	<p>Consultant</p> <p>BUILDING DESIGN AUTHORITY (P) LTD IN JOINT VENTURE WITH B.N. CONSULTANCY PVT. LTD AND PLUS ENGINEERS & ARCHITECTS (P) LTD, KATHMANDU, NEPAL</p> <p><i>[Signature]</i></p> <p>..... Approved By Team Leader</p>
<p>Checked By Engineer</p>	<p>Verified By Qty Engineer/CSE</p>



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

Summary Sheet of Field Density Test

Location:-R-86

Month	Jnauary
Year	2019
Type of Material	Sub-Base

[illegible]

**ZHONGHENG CONSTRUCTION GROUP
INTERNATIONAL ENGINEERING CO. LTD**

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

Checked By
Engineer

Submitted By
Contract Manager

Verified By
Qty Engineer/CSE

Approved By
Team Leader



[illegible]

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

Location:-R-11



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

Summary Sheet of Field Density Test

Location:-Xenail Front



Summary Sheet of Monthly Test Report

Location:-R-87

Month:	January
Year	2019
Type of Material	Sub grade

[illegible]

Contractor

ZHONGHENG CONSTRUCTION GROUP INTERNATIONAL
ENGINEERING CO., LTD

Consultant

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

Padman

Checked By
Engineer

Submitted By
Contract Manag

Verified By
Qty Engineer/CSE

Approved By
Team Leader



Summary Sheet of Field Density Test

Location:-R-87



REGIONAL URBAN DEVELOPMENT PROJECT

Biratnagar Metropolitan City

Contract No:- RUDP/ICB/BRT-02

Summary Sheet of Concrete Cube Test Report

							Month		January		
							Year		2019		
							Type of Material		Conc. Cube		
S.N.	Location	Lab Ref.no.	Type of Cement	Brand of Cement	Source of Sand+Agg.	Date of Casting	Date of Testing		Strength, N/mm2		Concrete Grade
							7 Days	28 Days	7 Days	28 Days	
1	T2L24C	RUDP-1256	Salimar	OPC	Chisang Khola	4-Dec-18	11-Dec-18	1-Jan-19		21.83	M20
2	R-10	RUDP-1257	Salimar	OPC	Chisang Khola	4-Dec-18	11-Dec-18	1-Jan-19		22.88	M20
3	T2L24C	RUDP-1258	Salimar	OPC	Chisang Khola	4-Dec-18	11-Dec-18	1-Jan-19		23.56	M20
4	R-84	RUDP-1259	Salimar	OPC	Chisang Khola	4-Dec-18	11-Dec-18	1-Jan-19		22.20	M20
5	R-23	RUDP-1260	Salimar	OPC	Chisang Khola	4-Dec-18	11-Dec-18	1-Jan-19		23.33	M20
6	R-10	RUDP-1261	Salimar	OPC	Chisang Khola	4-Dec-18	11-Dec-18	1-Jan-19		22.80	M20
7	Koshi-yard	RUDP-1262	Saptakoshi	OPC	Chisang Khola	4-Dec-18	11-Dec-18	1-Jan-19		22.05	M20
8	R-6	RUDP-1263	Saptakoshi	OPC	Chisang Khola	4-Dec-18	11-Dec-18	1-Jan-19		21.52	M20
9	DDC-yard	RUDP-1264	Saptakoshi	OPC	Chisang Khola	5-Dec-18	12-Dec-18	2-Jan-19		23.78	M20
10	R-23	RUDP-1265	Saptakoshi	OPC	Chisang Khola	5-Dec-18	12-Dec-18	2-Jan-19		23.10	M20
11	R-12	RUDP-1266	Saptakoshi	OPC	Chisang Khola	5-Dec-18	12-Dec-18	2-Jan-19		21.83	M20
12	T2L24C	RUDP-1267	Saptakoshi	OPC	Chisang Khola	5-Dec-18	12-Dec-18	2-Jan-19		23.26	M20
13	R-90	RUDP-1268	Saptakoshi	OPC	Chisang Khola	5-Dec-18	12-Dec-18	2-Jan-19		22.95	M20
14	R-45	RUDP-1269	Saptakoshi	OPC	Chisang Khola	5-Dec-18	12-Dec-18	2-Jan-19		23.48	M20
15	T3L6A	RUDP-1270	Saptakoshi	OPC	Chisang Khola	5-Dec-18	12-Dec-18	2-Jan-19		23.33	M20
16	R-90	RUDP-1271	Saptakoshi	OPC	Chisang Khola	5-Dec-18	12-Dec-18	2-Jan-19		22.28	M20
17	R-23	RUDP-1272	Saptakoshi	OPC	Chisang Khola	5-Dec-18	12-Dec-18	2-Jan-19		22.88	M20
18	Madhumara yard	RUDP-1273	Saptakoshi	OPC	Chisang Khola	5-Dec-18	12-Dec-18	2-Jan-19		27.11	M25
19	T3L6A	RUDP-1274	Saptakoshi	OPC	Chisang Khola	6-Dec-18	13-Dec-18	3-Jan-19		21.30	M20
20	R-103	RUDP-1275	Saptakoshi	OPC	Chisang Khola	6-Dec-18	13-Dec-18	3-Jan-19		22.28	M20
21	R-7	RUDP-1276	Saptakoshi	OPC	Chisang Khola	6-Dec-18	13-Dec-18	3-Jan-19		23.26	M20
22	T3L23	RUDP-1277	Saptakoshi	OPC	Chisang Khola	7-Dec-18	14-Dec-18	4-Jan-19		23.03	M20
23	R-6	RUDP-1278	Saptakoshi	OPC	Chisang Khola	7-Dec-18	14-Dec-18	4-Jan-19		15.66	M15
24	R-45	RUDP-1279	Saptakoshi	OPC	Chisang Khola	7-Dec-18	14-Dec-18	4-Jan-19		23.78	M20
25	T3L23A	RUDP-1280	Saptakoshi	OPC	Chisang Khola	7-Dec-18	14-Dec-18	4-Jan-19		22.05	M20
26	DDC-yard	RUDP-1281	Salimar	OPC	Chisang Khola	8-Dec-18	15-Dec-18	5-Jan-19		22.13	M20
27	Koshi-yard	RUDP-1282	Salimar	OPC	Chisang Khola	8-Dec-18	15-Dec-18	5-Jan-19		21.90	M20
28	R-23	RUDP-1283	Salimar	OPC	Chisang Khola	8-Dec-18	15-Dec-18	5-Jan-19		21.75	M20
29	R-6	RUDP-1284	Salimar	OPC	Chisang Khola	8-Dec-18	15-Dec-18	5-Jan-19		16.04	M15
30	Madhumara yard	RUDP-1285	Salimar	OPC	Chisang Khola	8-Dec-18	15-Dec-18	5-Jan-19		26.98	M25
31	Madhumara yard	RUDP-1286	Salimar	OPC	Chisang Khola	8-Dec-18	15-Dec-18	5-Jan-19		26.89	M25
32	R-84	RUDP-1287	Salimar	OPC	Chisang Khola	8-Dec-18	15-Dec-18	5-Jan-19		21.90	M20
33	T3L23	RUDP-1288	Salimar	OPC	Chisang Khola	9-Dec-18	16-Dec-18	6-Jan-19		21.75	M20
34	Madhumara yard	RUDP-1289	Salimar	OPC	Chisang Khola	9-Dec-18	16-Dec-18	6-Jan-19		22.05	M20
35	DDC-yard	RUDP-1290	Salimar	OPC	Chisang Khola	9-Dec-18	16-Dec-18	6-Jan-19		22.28	M20
36	T3L9	RUDP-1291	Salimar	OPC	Chisang Khola	9-Nov-18	16-Nov-18	7-Dec-18		23.26	M20
37	R-10	RUDP-1292	Salimar	OPC	Chisang Khola	10-Dec-18	17-Dec-18	7-Jan-19		22.28	M20
38	Madhumara yard	RUDP-1293	Salimar	OPC	Chisang Khola	10-Dec-18	17-Dec-18	7-Jan-19		28.58	M25
39	R-23	RUDP-1294	Salimar	OPC	Chisang Khola	10-Dec-18	17-Dec-18	7-Jan-19		22.50	M20
40	R-105	RUDP-1295	Salimar	OPC	Chisang Khola	10-Dec-18	17-Dec-18	7-Jan-19		21.98	M20
41	DDC-yard	RUDP-1296	Salimar	OPC	Chisang Khola	10-Dec-18	17-Dec-18	7-Jan-19		22.95	M20
Contractor						Consultant					
ZHONGHENG CONSTRUCTION GROUP INTERNATIONAL ENGINEERING CO. LTD						BUILDING DESIGN AUTHORITY (P) LTD IN JOINT VENTURE WITH B.N. CONSULTANCY PVT. LTD AND PLUS ENGINEERS & ARCHITECTS (P) LTD, KATHMANDU, NEPAL					
Checked By Engineer						Verified By Qty Engineer/CSE					
Submitted By Contract Manager						Approved By Team Leader					

Contractor

ZHONGHENG CONSTRUCTION GROUP
INTERNATIONAL ENGINEERING CO. LTD

Consultant

BUILDING DESIGN AUTHORITY (P) LTD IN JOINT
VENTURE WITH B.N. CONSULTANCY PVT. LTD AND PLUS
ENGINEERS & ARCHITECTS (P) LTD, KATHMANDU,
NEPALChecked By
EngineerSubmitted By
Contract ManagerVerified By
Qty Engineer/CSEApproved By
Team Leader

REGIONAL URBAN DEVELOPMENT PROJECT

Biratnagar Metropolitan City

Contract No:- RUDP/ICB/BRT-02

Summary Sheet of Concrete Cube Test Report

S.N.	Location	Lab Ref.no.	Type of Cement	Brand of Cement	Source of Sand+Agg.	Date of Casting	Month		January	
							Year		2019	
							Type of Material		Cone, Cube	
							Date of Testing		Strength, N/mm ²	
							7 Days	28 Days	7 Days	28 Days
42	Koshi-yard	RUDP-1297	Salimar	OPC	Chisang Khola	11-Dec-18	18-Dec-18	8-Jan-19		23.48
43	T3L24C	RUDP-1298	Salimar	OPC	Chisang Khola	11-Dec-18	18-Dec-18	8-Jan-19		22.80
44	R-10	RUDP-1299	Salimar	OPC	Chisang Khola	11-Dec-18	18-Dec-18	8-Jan-19		23.48
45	Koshi-yard	RUDP-1300	Salimar	OPC	Chisang Khola	12-Dec-18	19-Dec-18	9-Jan-19		21.83
46	R-45	RUDP-1301	Salimar	OPC	Chisang Khola	12-Dec-18	19-Dec-18	9-Jan-19		24.16
47	R-6	RUDP-1302	Salimar	OPC	Chisang Khola	12-Dec-18	19-Dec-18	9-Jan-19		22.28
48	Madhumara yard	RUDP-1303	Saptakoshi	OPC	Chisang Khola	12-Dec-18	19-Dec-18	9-Jan-19		21.60
49	R-12	RUDP-1304	Saptakoshi	OPC	Chisang Khola	13-Dec-18	20-Dec-18	10-Jan-19		22.35
50	R-84	RUDP-1305	Saptakoshi	OPC	Chisang Khola	13-Dec-18	20-Dec-18	10-Jan-19		23.10
51	R-102	RUDP-1306	Saptakoshi	OPC	Chisang Khola	14-Dec-18	21-Dec-18	11-Jan-19		21.98
52	DDC-yard	RUDP-1307	Saptakoshi	OPC	Chisang Khola	15-Dec-18	22-Dec-18	12-Jan-19		24.38
53	DDC-yard	RUDP-1308	Saptakoshi	OPC	Chisang Khola	15-Dec-18	22-Dec-18	12-Jan-19		23.33
54	R-12	RUDP-1309	Saptakoshi	OPC	Chisang Khola	15-Dec-18	22-Dec-18	12-Jan-19		22.20
55	Madhumara yard	RUDP-1310	Saptakoshi	OPC	Chisang Khola	16-Dec-18	23-Dec-18	13-Jan-19		26.49
56	Madhumara yard	RUDP-1311	Saptakoshi	OPC	Chisang Khola	16-Dec-18	23-Dec-18	13-Jan-19		28.11
57	DDC-yard	RUDP-1312	Saptakoshi	OPC	Chisang Khola	17-Dec-18	24-Dec-18	14-Jan-19		22.88
58	R-63	RUDP-1313	Saptakoshi	OPC	Chisang Khola	17-Dec-18	24-Dec-18	14-Jan-19		23.63
59	R-8	RUDP-1314	Saptakoshi	OPC	Chisang Khola	17-Dec-18	24-Dec-18	14-Jan-19		22.20
60	Madhumara yard	RUDP-1315	Saptakoshi	OPC	Chisang Khola	18-Dec-18	25-Dec-18	15-Jan-19		27.83
61	R-6	RUDP-1316	Saptakoshi	OPC	Chisang Khola	19-Dec-18	26-Dec-18	16-Jan-19		17.23
62	Koshi-yard	RUDP-1317	Saptakoshi	OPC	Chisang Khola	19-Dec-18	26-Dec-18	16-Jan-19		24.46
63	Koshi-yard	RUDP-1318	Saptakoshi	OPC	Chisang Khola	19-Dec-18	26-Dec-18	16-Jan-19		24.16
64	R-6	RUDP-1319	Saptakoshi	OPC	Chisang Khola	20-Dec-18	27-Dec-18	17-Jan-19		16.11
65	R-6	RUDP-1320	Saptakoshi	OPC	Chisang Khola	20-Dec-18	27-Dec-18	17-Jan-19		21.90
66	DDC-yard	RUDP-1321	Saptakoshi	OPC	Chisang Khola	21-Dec-18	28-Dec-18	18-Jan-19		23.10
67	Madhumara yard	RUDP-1322	Salimar	OPC	Chisang Khola	21-Dec-18	28-Dec-18	18-Jan-19		21.30
68	Madhumara yard	RUDP-1323	Salimar	OPC	Chisang Khola	22-Dec-18	29-Dec-18	19-Jan-19		26.89
69	R-6	RUDP-1324	Salimar	OPC	Chisang Khola	23-Dec-18	30-Dec-18	20-Jan-19		21.90
70	DDC-yard	RUDP-1325	Salimar	OPC	Chisang Khola	23-Dec-18	30-Dec-18	20-Jan-19		24.01
71	R-84	RUDP-1326	Salimar	OPC	Chisang Khola	24-Dec-18	31-Dec-18	21-Jan-19		22.28
72	R-9	RUDP-1327	Salimar	OPC	Chisang Khola	24-Dec-18	31-Dec-18	21-Jan-19		23.48
73	DDC-yard	RUDP-1328	Saptakoshi	OPC	Chisang Khola	25-Dec-18	1-Jan-19	22-Jan-19	16.78	21.98
74	T2L11E	RUDP-1329	Saptakoshi	OPC	Chisang Khola	25-Dec-18	1-Jan-19	22-Jan-19	17.31	22.80
75	Koshi-yard	RUDP-1330	Saptakoshi	OPC	Chisang Khola	25-Dec-18	1-Jan-19	22-Jan-19	16.41	23.33
76	R-84	RUDP-1331	Saptakoshi	OPC	Chisang Khola	25-Dec-18	1-Jan-19	22-Jan-19	16.78	21.37
77	R-20	RUDP-1332	Saptakoshi	OPC	Chisang Khola	25-Dec-18	1-Jan-19	22-Jan-19	16.63	22.05
78	R-10	RUDP-1333	Saptakoshi	OPC	Chisang Khola	25-Dec-18	1-Jan-19	22-Jan-19	16.93	22.28
79	R-34	RUDP-1334	Saptakoshi	OPC	Chisang Khola	25-Dec-18	1-Jan-19	22-Jan-19	17.31	23.78
80	T219Q	RUDP-1335	Saptakoshi	OPC	Chisang Khola	25-Dec-18	1-Jan-19	22-Jan-19	14.99	21.90
81	T3L11H	RUDP-1336	Saptakoshi	OPC	Chisang Khola	25-Dec-18	1-Jan-19	22-Jan-19	15.52	22.28
82	R-34	RUDP-1337	Saptakoshi	OPC	Chisang Khola	25-Dec-18	1-Jan-19	22-Jan-19	15.14	21.52

Contractor

ZHONGHENG CONSTRUCTION GROUP INTERNATIONAL ENGINEERING CO. LTD

Consultant

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

Checked By
EngineerSubmitted By
Contract ManagerVerified By
Qty Engineer/CSEApproved By
Team Leader

REGIONAL URBAN DEVELOPMENT PROJECT

Biratnagar Metropolitan City

Contract No:- RUDP/ICB/BRT-02

Summary Sheet of Concrete Cube Test Report

							Month		January		
							Year		2019		
							Type of Material		Conc. Cube		
S.N.	Location	Lab Ref.no.	Type of Cement	Brand of Cement	Source of Sand+Agg.	Date of Casting	Date of Testing		Strength, N/mm2		Concrete Grade
							7 Days	28 Days	7 Days	28 Days	
83	DDC-yard	RUDP-1338	Saptakoshi	OPC	Chisang Khola	25-Dec-18	1-Jan-19	22-Jan-19	14.25	20.62	M20
84	R-23	RUDP-1339	Saptakoshi	OPC	Chisang Khola	26-Dec-18	2-Jan-19	23-Jan-19	14.25	20.62	M20
85	R-12	RUDP-1340	Saptakoshi	OPC	Chisang Khola	26-Dec-18	2-Jan-19	23-Jan-19	15.81	21.90	M20
86	R-6	RUDP-1341	Saptakoshi	OPC	Chisang Khola	26-Dec-18	2-Jan-19	23-Jan-19	12.20	17.23	M15
87	T3L8	RUDP-1342	Saptakoshi	OPC	Chisang Khola	26-Dec-18	2-Jan-19	23-Jan-19	15.81	21.90	M20
88	T3L6A	RUDP-1343	Saptakoshi	OPC	Chisang Khola	26-Dec-18	2-Jan-19	23-Jan-19	15.74	22.34	M20
89	T3L11B	RUDP-1344	Saptakoshi	OPC	Chisang Khola	26-Dec-18	2-Jan-19	23-Jan-19	15.66	21.83	M20
90	R-34	RUDP-1345	Saptakoshi	OPC	Chisang Khola	26-Dec-18	2-Jan-19	23-Jan-19	15.29	21.67	M20
91	R-20	RUDP-1346	Saptakoshi	OPC	Chisang Khola	26-Dec-18	2-Jan-19	23-Jan-19	16.63	21.98	M20
92	R-84	RUDP-1347	Saptakoshi	OPC	Chisang Khola	26-Dec-18	2-Jan-19	23-Jan-19	16.19	22.05	M20
93	R-23	RUDP-1348	Saptakoshi	OPC	Chisang Khola	26-Dec-18	2-Jan-19	23-Jan-19	15.29	21.90	M20
94	Koshi Yard	RUDP-1349	Saptakoshi	OPC	Chisang Khola	27-Dec-18	3-Jan-19	24-Jan-19	15.66	22.95	M20
95	R-21	RUDP-1350	Saptakoshi	OPC	Chisang Khola	27-Dec-18	3-Jan-19	24-Jan-19	15.29	21.75	M20
96	R-10	RUDP-1351	Saptakoshi	OPC	Chisang Khola	27-Dec-18	3-Jan-19	24-Jan-19	15.81	21.98	M20
97	T2L24F	RUDP-1352	Saptakoshi	OPC	Chisang Khola	27-Dec-18	3-Jan-19	24-Jan-19	16.71	22.28	M20
98	T3L11E	RUDP-1353	Saptakoshi	OPC	Chisang Khola	27-Dec-18	3-Jan-19	24-Jan-19	15.81	21.37	M20
99	Koshi Yard	RUDP-1354	Saptakoshi	OPC	Chisang Khola	27-Dec-18	3-Jan-19	24-Jan-19	15.59	21.90	M20
100	Madhumara yard	RUDP-1355	Saptakoshi	OPC	Chisang Khola	27-Dec-18	3-Jan-19	24-Jan-19	17.31	26.72	M25
101	T2L19Q	RUDP-1356	Saptakoshi	OPC	Chisang Khola	27-Dec-18	3-Jan-19	24-Jan-19	15.22	21.90	M20
102	R-12	RUDP-1357	Saptakoshi	OPC	Chisang Khola	27-Dec-18	3-Jan-19	24-Jan-19	16.41	23.18	M20
103	R-20	RUDP-1358	Saptakoshi	OPC	Chisang Khola	27-Dec-18	3-Jan-19	24-Jan-19	15.66	22.28	M20
104	T3L8	RUDP-1359	Saptakoshi	OPC	Chisang Khola	28-Dec-18	4-Jan-19	25-Jan-19	14.77	21.98	M20
105	DDC-yard	RUDP-1360	Saptakoshi	OPC	Chisang Khola	28-Dec-18	4-Jan-19	25-Jan-19	15.66	22.43	M20
106	DDC-yard	RUDP-1361	Saptakoshi	OPC	Chisang Khola	28-Dec-18	4-Jan-19	25-Jan-19	14.25	21.00	M20
107	R-84	RUDP-1362	Saptakoshi	OPC	Chisang Khola	28-Dec-18	4-Jan-19	25-Jan-19	15.59	21.98	M20
108	R-20	RUDP-1363	Salimar	OPC	Chisang Khola	28-Dec-18	4-Jan-19	25-Jan-19	15.44	22.28	M20
109	R-21A	RUDP-1364	Salimar	OPC	Chisang Khola	28-Dec-18	4-Jan-19	25-Jan-19	15.37	21.98	M20
110	Koshi Yard	RUDP-1365	Salimar	OPC	Chisang Khola	28-Dec-18	4-Jan-19	25-Jan-19	14.02	21.30	M20
111	Madhumara yard	RUDP-1366	Salimar	OPC	Chisang Khola	28-Dec-18	4-Jan-19	25-Jan-19	17.45	26.73	M25
112	Madhumara yard	RUDP-1367	Salimar	OPC	Chisang Khola	28-Dec-18	4-Jan-19	25-Jan-19	16.11	22.82	M20
113	T2L122a	RUDP-1368	Salimar	OPC	Chisang Khola	29-Dec-18	5-Jan-19	26-Jan-19	15.89	23.42	M20
114	R-12	RUDP-1369	Saptakoshi	OPC	Chisang Khola	29-Dec-18	5-Jan-19	26-Jan-19	15.22	21.61	M20
115	T2L18Y	RUDP-1370	Saptakoshi	OPC	Chisang Khola	29-Dec-18	5-Jan-19	26-Jan-19	15.14	21.39	M20
116	R-84	RUDP-1371	Saptakoshi	OPC	Chisang Khola	29-Dec-18	5-Jan-19	26-Jan-19	16.04	21.69	M20
117	DDC-yard	RUDP-1372	Saptakoshi	OPC	Chisang Khola	29-Dec-18	5-Jan-19	26-Jan-19	17.08	21.84	M20
118	Madhumara yard	RUDP-1373	Saptakoshi	OPC	Chisang Khola	29-Dec-18	5-Jan-19	26-Jan-19	15.59	23.12	M20
119	Madhumara yard	RUDP-1374	Saptakoshi	OPC	Chisang Khola	29-Dec-18	5-Jan-19	26-Jan-19	18.24	28.41	M25
120	Madhumara yard	RUDP-1375	Saptakoshi	OPC	Chisang Khola	29-Dec-18	5-Jan-19	26-Jan-19	20.92	33.26	M30
121	T3L9	RUDP-1376	Saptakoshi	OPC	Chisang Khola	29-Dec-18	5-Jan-19	26-Jan-19	16.11	21.52	M20
122	T3L11H	RUDP-1377	Saptakoshi	OPC	Chisang Khola	29-Dec-18	5-Jan-19	26-Jan-19	16.04	21.30	M20
123	R-12	RUDP-1378	Saptakoshi	OPC	Chisang Khola	29-Dec-18	5-Jan-19	26-Jan-19	15.81	21.52	M20
Contractor							Consultant				
ZHONGHENG CONSTRUCTION GROUP INTERNATIONAL ENGINEERING CO. LTD							BUILDING DESIGN AUTHORITY (P) LTD IN JOINT VENTURE WITH B.N. CONSULTANCY PVT. LTD AND PLUS ENGINEERS & ARCHITECTS (P) LTD, KATHMANDU, NEPAL				
Checked By Engineer							Verified By Qty Engineer/CSE				
Submitted By Contract Manager							Approved By Team Leader				



REGIONAL URBAN DEVELOPMENT PROJECT

Biratnagar Metropolitan City


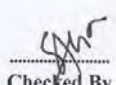
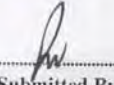

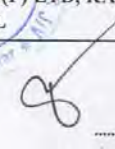
Contract No:- RUDP/ICB/BRT-02

Summary Sheet of Concrete Cube Test Report

							Month		January		
							Year		2019		
							Type of Material		Conc. Cube		
S.N.	Location	Lab Ref.no.	Type of Cement	Brand of Cement	Source of Sand+Agg.	Date of Casting	Date of Testing		Strength, N/mm2		Concrete Grade
							7 Days	28 Days	7 Days	28 Days	
124	R-23	RUDP-1379	Saptakoshi	OPC	Chisang Khola	30-Dec-18	6-Jan-19	27-Jan-19	14.82	23.26	M20
125	T3L11B	RUDP-1380	Saptakoshi	OPC	Chisang Khola	30-Dec-18	6-Jan-19	27-Jan-19	15.89	22.95	M20
126	T2L25	RUDP-1381	Saptakoshi	OPC	Chisang Khola	30-Dec-18	6-Jan-19	27-Jan-19	15.81	21.98	M20
127	T2L18Y	RUDP-1382	Saptakoshi	OPC	Chisang Khola	30-Dec-18	6-Jan-19	27-Jan-19	15.22	23.10	M20
128	T3L13E	RUDP-1383	Saptakoshi	OPC	Chisang Khola	30-Dec-18	6-Jan-19	27-Jan-19	15.37	21.83	M20
129	T2L19P	RUDP-1384	Saptakoshi	OPC	Chisang Khola	30-Dec-18	6-Jan-19	27-Jan-19	15.89	23.26	M20
130	T3L19J	RUDP-1385	Saptakoshi	OPC	Chisang Khola	30-Dec-18	6-Jan-19	27-Jan-19	15.66	22.50	M20
131	T3L19J	RUDP-1386	Saptakoshi	OPC	Chisang Khola	30-Dec-18	6-Jan-19	27-Jan-19	15.96	22.58	M20
132	T3L6A	RUDP-1387	Saptakoshi	OPC	Chisang Khola	30-Dec-18	6-Jan-19	27-Jan-19	15.52	22.95	M20
133	T3L13D	RUDP-1388	Saptakoshi	OPC	Chisang Khola	30-Dec-18	6-Jan-19	27-Jan-19	15.22	22.28	M20
134	Koshi Yard	RUDP-1389	Saptakoshi	OPC	Chisang Khola	30-Dec-18	6-Jan-19	27-Jan-19	15.81	21.60	M20
135	R-20	RUDP-1390	Saptakoshi	OPC	Chisang Khola	30-Dec-18	6-Jan-19	27-Jan-19	16.26	23.26	M20
136	R-34	RUDP-1391	Saptakoshi	OPC	Chisang Khola	31-Dec-18	7-Jan-19	28-Jan-19	15.29	21.90	M20
137	T3L11H	RUDP-1392	Saptakoshi	OPC	Chisang Khola	31-Dec-18	7-Jan-19	28-Jan-19	16.11	22.13	M20
138	R-20	RUDP-1393	Saptakoshi	OPC	Chisang Khola	31-Dec-18	7-Jan-19	28-Jan-19	14.82	21.98	M20
139	Madhumara yard	RUDP-1394	Saptakoshi	OPC	Chisang Khola	31-Dec-18	7-Jan-19	28-Jan-19	17.38	26.72	M25
140	DDC-yard	RUDP-1395	Saptakoshi	OPC	Chisang Khola	31-Dec-18	7-Jan-19	28-Jan-19	14.84	21.98	M20
141	R-34	RUDP-1396	Saptakoshi	OPC	Chisang Khola	31-Dec-18	7-Jan-19	28-Jan-19	15.07	22.73	M20
142	R-35	RUDP-1397	Saptakoshi	OPC	Chisang Khola	31-Dec-18	7-Jan-19	28-Jan-19	15.22	22.50	M20
143	R-20	RUDP-1398	Saptakoshi	OPC	Chisang Khola	1-Jan-18	8-Jan-18	29-Jan-18	16.26	21.98	M20
144	R-34	RUDP-1399	Saptakoshi	OPC	Chisang Khola	1-Jan-18	8-Jan-18	29-Jan-18	15.22	22.80	M20
145	R-8	RUDP-1400	Saptakoshi	OPC	Chisang Khola	1-Jan-18	8-Jan-18	29-Jan-18	15.89	22.95	M20
146	T2L19Q	RUDP-1401	Saptakoshi	OPC	Chisang Khola	1-Jan-18	8-Jan-18	29-Jan-18	15.07	24.01	M20
147	R-23	RUDP-1402	Saptakoshi	OPC	Chisang Khola	1-Jan-18	8-Jan-18	29-Jan-18	15.81	21.98	M20
148	Madhumara yard	RUDP-1403	Saptakoshi	OPC	Chisang Khola	1-Jan-18	8-Jan-18	29-Jan-18	17.31	26.42	M25
149	T3L11E	RUDP-1404	Saptakoshi	OPC	Chisang Khola	1-Jan-18	8-Jan-18	29-Jan-18	14.32	21.37	M20
150	R-6	RUDP-1405	Saptakoshi	OPC	Chisang Khola	1-Jan-18	8-Jan-18	29-Jan-18	11.71	16.63	M15
151	R-12	RUDP-1406	Saptakoshi	OPC	Chisang Khola	1-Jan-18	8-Jan-18	29-Jan-18	15.29	23.10	M20
152	R-84	RUDP-1407	Saptakoshi	OPC	Chisang Khola	1-Jan-18	8-Jan-18	29-Jan-18	15.81	22.65	M20
153	T3L8	RUDP-1408	Saptakoshi	OPC	Chisang Khola	1-Jan-18	8-Jan-18	29-Jan-18	15.66	22.88	M20
154	T2L22A	RUDP-1409	Saptakoshi	OPC	Chisang Khola	2-Jan-18	9-Jan-18	30-Jan-18	14.69	21.90	M20
155	T3L11E	RUDP-1410	Saptakoshi	OPC	Chisang Khola	2-Jan-18	9-Jan-18	30-Jan-18	15.29	21.67	M20
156	R-23	RUDP-1411	Saptakoshi	OPC	Chisang Khola	2-Jan-18	9-Jan-18	30-Jan-18	15.37	23.56	M20
157	R-6	RUDP-1412	Saptakoshi	OPC	Chisang Khola	2-Jan-18	9-Jan-18	30-Jan-18	11.97	17.45	M15
158	T3L9	RUDP-1413	Saptakoshi	OPC	Chisang Khola	2-Jan-18	9-Jan-18	30-Jan-18	15.59	23.71	M20
159	DDC-yard	RUDP-1414	Saptakoshi	OPC	Chisang Khola	2-Jan-18	9-Jan-18	30-Jan-18	15.66	21.00	M20
160	DDC-yard	RUDP-1415	Saptakoshi	OPC	Chisang Khola	2-Jan-18	9-Jan-18	30-Jan-18	16.19	23.26	M20
161	T3L8	RUDP-1416	Saptakoshi	OPC	Chisang Khola	2-Jan-18	9-Jan-18	30-Jan-18	15.81	21.67	M20
162	T3L13D	RUDP-1417	Saptakoshi	OPC	Chisang Khola	2-Jan-18	9-Jan-18	30-Jan-18	15.07	21.98	M20
163	T3L13D	RUDP-1418	Saptakoshi	OPC	Chisang Khola	3-Jan-18	10-Jan-18	31-Jan-18	14.92	22.20	M20
164	T2L24F	RUDP-1419	Saptakoshi	OPC	Chisang Khola	3-Jan-19	10-Jan-19	31-Jan-19	16.11	21.37	M20
Contractor						Consultant					
ZHONGHENG CONSTRUCTION GROUP INTERNATIONAL ENGINEERING CO. LTD						BUILDING DESIGN AUTHORITY (P) LTD IN JOINT VENTURE WITH B.N. CONSULTANCY PVT. LTD AND PLUS ENGINEERS & ARCHITECTS (P) LTD, KATHMANDU, NEPAL					
Checked By Engineer						Verified By Qty Engineer/CSE					
Submitted By Contract Manager						Approved By Team Leader					



REGIONAL URBAN DEVELOPMENT PROJECT											
Biratnagar Metropolitan City											
Contract No:- RUDP/ICB/BRT-02											
Summary Sheet of Concrete Cube Test Report											
							Month		January		
							Year		2019		
							Type of Material		Conc. Cube		
S.N.	Location	Lab Ref.no.	Type of Cement	Brand of Cement	Source of Sand+Agg.	Date of Casting	Date of Testing		Strength, N/mm ²		Concrete Grade
							7 Days	28 Days	7 Days	28 Days	
165	T3L11E	RUDP-1420	Saptakoshi	OPC	Chisang Khola	3-Jan-19	10-Jan-19	31-Jan-19	16.93	22.80	M20
166	T23L19Q	RUDP-1421	Saptakoshi	OPC	Chisang Khola	3-Jan-19	10-Jan-19	31-Jan-19	16.86	22.95	M20
167	R-12	RUDP-1422	Saptakoshi	OPC	Chisang Khola	3-Jan-19	10-Jan-19	31-Jan-19	16.86	21.52	M20
168	Madhumara yard	RUDP-1423	Saptakoshi	OPC	Chisang Khola	3-Jan-19	10-Jan-19	31-Jan-19	17.31	27.36	M25
169	Madhumara yard	RUDP-1424	Saptakoshi	OPC	Chisang Khola	3-Jan-19	10-Jan-19	31-Jan-19	18.51	28.65	M25
170	T3L6A	RUDP-1425	Saptakoshi	OPC	Chisang Khola	3-Jan-19	10-Jan-19	31-Jan-19	15.44	24.61	M20
171	T3L11H	RUDP-1426	Saptakoshi	OPC	Chisang Khola	3-Jan-19	10-Jan-19	31-Jan-19	14.92	23.93	M20
172	R-84	RUDP-1427	Saptakoshi	OPC	Chisang Khola	3-Jan-19	10-Jan-19	31-Jan-19	15.07	23.48	M20
173	Madhumara yard	RUDP-1428	Saptakoshi	OPC	Chisang Khola	4-Jan-19	11-Jan-19	1-Feb-19	23.05		M30
174	R-6	RUDP-1429	Saptakoshi	OPC	Chisang Khola	4-Jan-19	11-Jan-19	1-Feb-19	11.60		M15
175	R-10	RUDP-1430	Saptakoshi	OPC	Chisang Khola	4-Jan-19	11-Jan-19	1-Feb-19	15.66		M20
176	R-6	RUDP-1431	Saptakoshi	OPC	Chisang Khola	5-Jan-19	12-Jan-19	2-Feb-19	16.26		M20
177	DDC-yard	RUDP-1432	Saptakoshi	OPC	Chisang Khola	5-Jan-19	12-Jan-19	2-Feb-19	17.01		M20
178	R-5	RUDP-1433	Saptakoshi	OPC	Chisang Khola	5-Jan-19	12-Jan-19	2-Feb-19	15.81		M20
179	R-29	RUDP-1434	Saptakoshi	OPC	Chisang Khola	5-Jan-19	12-Jan-19	2-Feb-19	15.81		M20
180	R-34	RUDP-1435	Saptakoshi	OPC	Chisang Khola	5-Jan-19	12-Jan-19	2-Feb-19	16.41		M20
181	T3L8	RUDP-1436	Saptakoshi	OPC	Chisang Khola	5-Jan-19	12-Jan-19	2-Feb-19	15.59		M20
182	T3L9	RUDP-1437	Saptakoshi	OPC	Chisang Khola	5-Jan-19	12-Jan-19	2-Feb-19	17.08		M20
183	T3L13J	RUDP-1438	Saptakoshi	OPC	Chisang Khola	5-Jan-19	12-Jan-19	2-Feb-19	14.77		M20
184	T2L19P	RUDP-1439	Saptakoshi	OPC	Chisang Khola	5-Jan-19	12-Jan-19	2-Feb-19	14.02		M20
185	R-10	RUDP-1440	Saptakoshi	OPC	Chisang Khola	5-Jan-19	12-Jan-19	2-Feb-19	21.78		M20
186	R-34	RUDP-1441	Saptakoshi	OPC	Chisang Khola	6-Jan-19	13-Jan-19	3-Feb-19	22.15		M20
187	T3L8	RUDP-1442	Saptakoshi	OPC	Chisang Khola	6-Jan-19	13-Jan-19	3-Feb-19	22.83		M20
188	Madhumara yard	RUDP-1443	Salimar	OPC	Chisang Khola	6-Jan-19	13-Jan-19	3-Feb-19	17.66		M25
189	Madhumara yard	RUDP-1444	Salimar	OPC	Chisang Khola	6-Jan-19	13-Jan-19	3-Feb-19	17.23		M25
190	T2L19P	RUDP-1445	Salimar	OPC	Chisang Khola	7-Jan-19	14-Jan-19	4-Feb-19	14.55		M20
191	DDC-yard	RUDP-1446	Salimar	OPC	Chisang Khola	7-Jan-19	14-Jan-19	4-Feb-19	14.40		M120
192	R-23	RUDP-1447	Salimar	OPC	Chisang Khola	7-Jan-19	14-Jan-19	4-Feb-19	16.26		M20
193	DDC-yard	RUDP-1448	Salimar	OPC	Chisang Khola	7-Jan-19	14-Jan-19	4-Feb-19	15.14		M20
194	R-12	RUDP-1449	Salimar	OPC	Chisang Khola	7-Jan-19	14-Jan-19	4-Feb-19	16.63		M20
195	Madhumara yard	RUDP-1450	Salimar	OPC	Chisang Khola	7-Jan-19	14-Jan-19	4-Feb-19	15.14		M20
196	R-23	RUDP-1451	Salimar	OPC	Chisang Khola	7-Jan-19	14-Jan-19	4-Feb-19	15.66		M20
197	R-10	RUDP-1452	Salimar	OPC	Chisang Khola	7-Jan-19	14-Jan-19	4-Feb-19	16.26		M20
198	T3L8	RUDP-1453	Salimar	OPC	Chisang Khola	7-Jan-19	14-Jan-19	4-Feb-19	14.92		M20
199	T2L18Y	RUDP-1454	Salimar	OPC	Chisang Khola	7-Jan-19	14-Jan-19	4-Feb-19	15.44		M20
200	T2L25	RUDP-1455	Salimar	OPC	Chisang Khola	7-Jan-19	14-Jan-19	4-Feb-19	14.69		M20
201	T3L11H	RUDP-1456	Salimar	OPC	Chisang Khola	7-Jan-19	14-Jan-19	4-Feb-19	16.86		M20
202	R-23	RUDP-1457	Salimar	OPC	Chisang Khola	7-Jan-19	14-Jan-19	4-Feb-19	14.62		M20
203	R-84	RUDP-1458	Salimar	OPC	Chisang Khola	7-Jan-19	14-Jan-19	4-Feb-19	16.11		M20
204	R-12	RUDP-1459	Salimar	OPC	Chisang Khola	8-Jan-19	15-Jan-19	5-Feb-19	14.84		M20
205	R-84	RUDP-1460	Salimar	OPC	Chisang Khola	9-Jan-19	16-Jan-19	6-Feb-19	16.26		M20

Contractor  ZHONGHENG CONSTRUCTION GROUP INTERNATIONAL ENGINEERING CO. LTD		Consultant BUILDING DESIGN AUTHORITY (P) LTD IN JOINT VENTURE WITH B.N. CONSULTANCY PVT. LTD AND PLUS ENGINEERS & ARCHITECTS (P) LTD, KATHMANDU, NEPAL	
 Checked By Engineer	 Submitted By Contract Manager	 Verified By Qty Engineer/CSE	 Approved By Team Leader

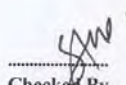
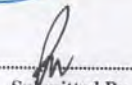




REGIONAL URBAN DEVELOPMENT PROJECT

Biratnagar Metropolitan City

Contract No:- RUDP/ICB/BRT-02

Summary Sheet of Concrete Cube Test Report




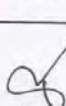
							Month		January		
							Year		2019		
							Type of Material		Conc. Cube		
S.N.	Location	Lab Ref.no.	Type of Cement	Brand of Cement	Source of Sand+Agg.	Date of Casting	Date of Testing		Strength, N/mm2		Concrete Grade
							7 Days	28 Days	7 Days	28 Days	
206	R-34	RUDP-1461	Salimar	OPC	Chisang Khola	9-Jan-19	16-Jan-19	6-Feb-19	15.22		M20
207	T1L5A	RUDP-1462	Salimar	OPC	Chisang Khola	9-Jan-19	16-Jan-19	6-Feb-19	16.86		M20
208	R-10	RUDP-1463	Salimar	OPC	Chisang Khola	9-Jan-19	16-Jan-19	6-Feb-19	17.45		M20
209	R-10	RUDP-1464	Salimar	OPC	Chisang Khola	9-Jan-19	16-Jan-19	6-Feb-19	14.92		M20
210	DDC-yard	RUDP-1465	Salimar	OPC	Chisang Khola	9-Jan-19	16-Jan-19	6-Feb-19	15.22		M20
211	R-6	RUDP-1466	Salimar	OPC	Chisang Khola	9-Jan-19	16-Jan-19	6-Feb-19	11.38		M15
212	T3L8	RUDP-1467	Salimar	OPC	Chisang Khola	9-Jan-19	16-Jan-19	6-Feb-19	16.04		M20
213	T2L22A	RUDP-1468	Salimar	OPC	Chisang Khola	10-Jan-19	17-Jan-19	7-Feb-19	15.22		M20
214	R-12	RUDP-1469	Salimar	OPC	Chisang Khola	10-Jan-19	17-Jan-19	7-Feb-19	14.84		M20
215	Madhumara yard	RUDP-1470	Salimar	OPC	Chisang Khola	10-Jan-19	17-Jan-19	7-Feb-19	17.31		M25
216	Madhumara yard	RUDP-1471	Salimar	OPC	Chisang Khola	10-Jan-19	17-Jan-19	7-Feb-19	21.98		M30
217	T3L13E	RUDP-1472	Salimar	OPC	Chisang Khola	10-Jan-19	17-Jan-19	7-Feb-19	15.54		M20
218	T3L13E	RUDP-1473	Salimar	OPC	Chisang Khola	10-Jan-19	17-Jan-19	7-Feb-19	14.73		M20
219	R-84	RUDP-1474	Salimar	OPC	Chisang Khola	10-Jan-19	17-Jan-19	7-Feb-19	16.14		M20
220	T2L19Q	RUDP-1475	Salimar	OPC	Chisang Khola	10-Jan-19	17-Jan-19	7-Feb-19	15.25		M20
221	T1L5A	RUDP-1476	Salimar	OPC	Chisang Khola	10-Jan-19	17-Jan-19	7-Feb-19	14.65		M20
222	R-10	RUDP-1477	Salimar	OPC	Chisang Khola	10-Jan-19	17-Jan-19	7-Feb-19	16.29		M20
223	T3L8	RUDP-1478	Salimar	OPC	Chisang Khola	10-Jan-19	17-Jan-19	7-Feb-19	15.92		M20
224	T1L5A	RUDP-1479	Ambe Hi-tech	OPC	Chisang Khola	10-Jan-19	17-Jan-19	7-Feb-19	15.62		M20
225	R-10	RUDP-1480	Ambe Hi-tech	OPC	Chisang Khola	10-Jan-19	17-Jan-19	7-Feb-19	14.73		M20
226	Madhumara yard	RUDP-1481	Ambe Hi-tech	OPC	Chisang Khola	10-Jan-19	17-Jan-19	7-Feb-19	16.36		M20
227	DDC-yard	RUDP-1482	Ambe Hi-tech	OPC	Chisang Khola	10-Jan-19	17-Jan-19	7-Feb-19	16.44		M20
228	R-12	RUDP-1483	Ambe Hi-tech	OPC	Chisang Khola	10-Jan-19	17-Jan-19	7-Feb-19	14.95		M20
229	T3L11B	RUDP-1484	Ambe Hi-tech	OPC	Chisang Khola	10-Jan-19	17-Jan-19	7-Feb-19	15.96		M20
230	DDC-yard	RUDP-1485	Ambe Hi-tech	OPC	Chisang Khola	10-Jan-19	17-Jan-19	7-Feb-19	14.77		M20
231	R-34	RUDP-1486	Ambe Hi-tech	OPC	Chisang Khola	10-Jan-19	17-Jan-19	7-Feb-19	15.52		M20
232	R-10	RUDP-1487	Ambe Hi-tech	OPC	Chisang Khola	10-Jan-19	17-Jan-19	7-Feb-19	14.92		M20
233	R-20	RUDP-1488	Ambe Hi-tech	OPC	Chisang Khola	11-Jan-19	18-Jan-19	8-Feb-19	16.41		M20
234	R-12	RUDP-1489	Ambe Hi-tech	OPC	Chisang Khola	11-Jan-19	18-Jan-19	8-Feb-19	16.41		M20
235	T2L22A	RUDP-1490	Ambe Hi-tech	OPC	Chisang Khola	11-Jan-19	18-Jan-19	8-Feb-19	15.22		M20
236	DDC-yard	RUDP-1491	Ambe Hi-tech	OPC	Chisang Khola	11-Jan-19	18-Jan-19	8-Feb-19	15.14		M20
237	R-12	RUDP-1492	Ambe Hi-tech	OPC	Chisang Khola	11-Jan-19	18-Jan-19	8-Feb-19	16.26		M20
238	R-23	RUDP-1493	Ambe Hi-tech	OPC	Chisang Khola	11-Jan-19	18-Jan-19	8-Feb-19	15.14		M20
239	T3L13D	RUDP-1494	Ambe Hi-tech	OPC	Chisang Khola	11-Jan-19	18-Jan-19	8-Feb-19	15.81		M20
240	Madhumara yard	RUDP-1495	Ambe Hi-tech	OPC	Chisang Khola	11-Jan-19	18-Jan-19	8-Feb-19	18.09		M25
241	Madhumara yard	RUDP-1496	Ambe Hi-tech	OPC	Chisang Khola	11-Jan-19	18-Jan-19	8-Feb-19	16.26		M20
242	Chulachuli	RUDP-1497	Saptakoshi	OPC	Chisang Khola	12-Jan-19	19-Jan-19	9-Feb-19	15.66		M20
243	R-12	RUDP-1498	Saptakoshi	OPC	Chisang Khola	12-Jan-19	19-Jan-19	9-Feb-19	15.74		M20
244	R-84	RUDP-1499	Saptakoshi	OPC	Chisang Khola	12-Jan-19	19-Jan-19	9-Feb-19	14.84		M20
245	DDC-yard	RUDP-1500	Saptakoshi	OPC	Chisang Khola	12-Jan-19	19-Jan-19	9-Feb-19	15.66		M20
246	R-20	RUDP-1501	Saptakoshi	OPC	Chisang Khola	12-Jan-19	19-Jan-19	9-Feb-19	15.14		M20
Contractor						Consultant					
ZHONGHENG CONSTRUCTION GROUP INTERNATIONAL ENGINEERING CO. LTD						BUILDING DESIGN AUTHORITY (P) LTD IN JOINT VENTURE WITH B.N. CONSULTANCY PVT. LTD AND PLUS ENGINEERS & ARCHITECTS (P) LTD, KATHMANDU, NEPAL					
 Checked By Engineer						 Submitted By Contract Manager					
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						 Approved By Team Leader					



REGIONAL URBAN DEVELOPMENT PROJECT										
Biratnagar Metropolitan City										
Contract No:- RUDP/ICB/BRT-02										
Summary Sheet of Concrete Cube Test Report										
S.N.	Location	Lab Ref.no.	Type of Cement	Brand of Cement	Source of Sand+Agg.	Date of Casting	Month		January	
							Year		2019	
							Type of Material		Conc. Cube	
							Date of Testing		Strength, N/mm ²	Concrete Grade
7 Days	28 Days	7 Days	28 Days							
247	R-20	RUDP-1502	Saptakoshi	OPC	Chisang Khola	12-Jan-19	19-Jan-19	9-Feb-19	15.74	M20
248	Madhumara yard	RUDP-1503	Saptakoshi	OPC	Chisang Khola	12-Jan-19	19-Jan-19	9-Feb-19	18.03	M25
249	T1L5A	RUDP-1504	Saptakoshi	OPC	Chisang Khola	12-Jan-19	19-Jan-19	9-Feb-19	14.32	M20
250	T2L22A	RUDP-1505	Saptakoshi	OPC	Chisang Khola	13-Jan-19	20-Jan-19	10-Feb-19	15.81	M20
251	T3L11E	RUDP-1506	Saptakoshi	OPC	Chisang Khola	13-Jan-19	20-Jan-19	10-Feb-19	14.47	M20
252	R-23	RUDP-1507	Saptakoshi	OPC	Chisang Khola	13-Jan-19	20-Jan-19	10-Feb-19	14.92	M20
253	T3L9	RUDP-1508	Saptakoshi	OPC	Chisang Khola	13-Jan-19	20-Jan-19	10-Feb-19	16.04	M20
254	T2L19P	RUDP-1509	Saptakoshi	OPC	Chisang Khola	13-Jan-19	20-Jan-19	10-Feb-19	15.37	M20
255	R-84	RUDP-1510	Saptakoshi	OPC	Chisang Khola	13-Jan-19	20-Jan-19	10-Feb-19	16.19	M20
256	Madhumara yard	RUDP-1511	Saptakoshi	OPC	Chisang Khola	13-Jan-19	20-Jan-19	10-Feb-19	20.40	M30
257	T3L13D	RUDP-1512	Saptakoshi	OPC	Chisang Khola	13-Jan-19	20-Jan-19	10-Feb-19	15.37	M20
258	T3L8	RUDP-1513	Saptakoshi	OPC	Chisang Khola	13-Jan-19	20-Jan-19	10-Feb-19	15.37	M20
259	R-23	RUDP-1514	Saptakoshi	OPC	Chisang Khola	14-Jan-19	21-Jan-19	11-Feb-19	15.52	M20
260	R-12	RUDP-1515	Saptakoshi	OPC	Chisang Khola	14-Jan-19	21-Jan-19	11-Feb-19	16.11	M20
261	DDC-yard	RUDP-1516	Saptakoshi	OPC	Chisang Khola	14-Jan-19	21-Jan-19	11-Feb-19	15.29	M20
262	R-6	RUDP-1517	Saptakoshi	OPC	Chisang Khola	14-Jan-19	21-Jan-19	11-Feb-19	15.66	M20
263	R-34	RUDP-1518	Saptakoshi	OPC	Chisang Khola	14-Jan-19	21-Jan-19	11-Feb-19	14.99	M20
264	R-6	RUDP-1519	Saptakoshi	OPC	Chisang Khola	14-Jan-19	21-Jan-19	11-Feb-19	11.75	M15
265	T2L6A	RUDP-1520	Saptakoshi	OPC	Chisang Khola	14-Jan-19	21-Jan-19	11-Feb-19	15.81	M20
266	T3L13J	RUDP-1521	Saptakoshi	OPC	Chisang Khola	14-Jan-19	21-Jan-19	11-Feb-19	14.92	M20
267	DDC-yard	RUDP-1522	Saptakoshi	OPC	Chisang Khola	14-Jan-19	21-Jan-19	11-Feb-19	15.52	M20
268	DDC-yard	RUDP-1523	Saptakoshi	OPC	Chisang Khola	14-Jan-19	21-Jan-19	11-Feb-19	15.89	M20
269	T3L11A	RUDP-1524	Saptakoshi	OPC	Chisang Khola	14-Jan-19	21-Jan-19	11-Feb-19	16.34	M20
270	T3L8	RUDP-1525	Saptakoshi	OPC	Chisang Khola	14-Jan-19	21-Jan-19	11-Feb-19	14.92	M20
271	T3L13J	RUDP-1526	Saptakoshi	OPC	Chisang Khola	15-Jan-19	22-Jan-19	12-Feb-19	15.81	M20
272	T2L22A	RUDP-1527	Saptakoshi	OPC	Chisang Khola	15-Jan-19	22-Jan-19	12-Feb-19	16.04	M20
273	DDC-yard	RUDP-1528	Saptakoshi	OPC	Chisang Khola	15-Jan-19	22-Jan-19	12-Feb-19	14.55	M20
274	T3L13D	RUDP-1529	Saptakoshi	OPC	Chisang Khola	15-Jan-19	22-Jan-19	12-Feb-19	14.10	M20
275	Madhumara yard	RUDP-1530	Saptakoshi	OPC	Chisang Khola	15-Jan-19	22-Jan-19	12-Feb-19	17.45	M25
276	Madhumara yard	RUDP-1531	Saptakoshi	OPC	Chisang Khola	15-Jan-19	22-Jan-19	12-Feb-19	20.85	M30
277	R-6	RUDP-1532	Saptakoshi	OPC	Chisang Khola	15-Jan-19	22-Jan-19	12-Feb-19	15.59	M20
278	T3L13D	RUDP-1533	Saptakoshi	OPC	Chisang Khola	16-Jan-19	23-Jan-19	13-Feb-19	14.99	M20
279	T2L22A	RUDP-1534	Saptakoshi	OPC	Chisang Khola	16-Jan-19	23-Jan-19	13-Feb-19	16.41	M20
280	T2L19Q	RUDP-1535	Saptakoshi	OPC	Chisang Khola	16-Jan-19	23-Jan-19	13-Feb-19	15.59	M20
281	T3L13J	RUDP-1536	Saptakoshi	OPC	Chisang Khola	17-Jan-19	24-Jan-19	14-Feb-19	14.77	M20
282	T3L11E	RUDP-1537	Saptakoshi	OPC	Chisang Khola	17-Jan-19	24-Jan-19	14-Feb-19	15.37	M20
283	T3L6A	RUDP-1538	Saptakoshi	OPC	Chisang Khola	18-Jan-19	25-Jan-19	15-Feb-19	15.14	M20
284	Madhumara yard	RUDP-1539	Saptakoshi	OPC	Chisang Khola	18-Jan-19	25-Jan-19	15-Feb-19	17.60	M25
285	T3L11H	RUDP-1540	Saptakoshi	OPC	Chisang Khola	19-Jan-19	26-Jan-19	16-Feb-19	14.84	M20
286	R-7	RUDP-1541	Saptakoshi	OPC	Chisang Khola	19-Jan-19	26-Jan-19	16-Feb-19	14.99	M20
287	T3L8	RUDP-1542	Saptakoshi	OPC	Chisang Khola	19-Jan-19	26-Jan-19	16-Feb-19	15.89	M20

Contractor ZHONGHENG CONSTRUCTION GROUP INTERNATIONAL ENGINEERING CO. LTD.		Consultant BUILDING DESIGN AUTHORITY (P) LTD IN JOINT VENTURE WITH B.N. CONSULTANCY PVT. LTD AND PLUS ENGINEERS & ARCHITECTS (P) LTD, KATHMANDU, NEPAL	
Checked By Engineer	Submitted By Contract Manager	Verified By Qty Engineer/CSE	Approved By Team Leader



REGIONAL URBAN DEVELOPMENT PROJECT											
Biratnagar Metropolitan City											
Contract No:- RUDP/ICB/BRT-02											
Summary Sheet of Concrete Cube Test Report											
S.N.	Location	Lab Ref.no.	Type of Cement	Brand of Cement	Source of Sand+Agg.	Date of Casting	Month		January		Concrete Grade
							Year		2019		
							Type of Material		Conc. Cube		
							Date of Testing		Strength, N/mm ²		
							7 Days	28 Days	7 Days	28 Days	
288	T3L8	RUDP-1543	Saptakoshi	OPC	Chisang Khola	19-Jan-19	26-Jan-19	16-Feb-19	16.19		M20
289	T3L11E	RUDP-1544	Saptakoshi	OPC	Chisang Khola	20-Jan-19	27-Jan-19	17-Feb-19	15.07		M20
290	T3L13J	RUDP-1545	Saptakoshi	OPC	Chisang Khola	20-Jan-19	27-Jan-19	17-Feb-19	15.37		M20
291	T2L19P	RUDP-1546	Saptakoshi	OPC	Chisang Khola	20-Jan-19	27-Jan-19	17-Feb-19	14.92		M20
292	T3L11H	RUDP-1547	Saptakoshi	OPC	Chisang Khola	20-Jan-19	27-Jan-19	17-Feb-19	15.52		M20
293	T3L8	RUDP-1548	Saptakoshi	OPC	Chisang Khola	20-Jan-19	27-Jan-19	17-Feb-19	14.55		M20
294	T2L22A	RUDP-1549	Saptakoshi	OPC	Chisang Khola	21-Jan-19	28-Jan-19	18-Feb-19	14.92		M20
295	T3L13D	RUDP-1550	Saptakoshi	OPC	Chisang Khola	21-Jan-19	28-Jan-19	18-Feb-19	15.22		M20
296	Madhmara yard	RUDP-1551	Saptakoshi	OPC	Chisang Khola	22-Jan-19	29-Jan-19	19-Feb-19	15.29		M20
297	DDC Yard	RUDP-1552	Saptakoshi	OPC	Chisang Khola	22-Jan-19	29-Jan-19	19-Feb-19	14.69		M20
298	DDC Yard	RUDP-1553	Saptakoshi	OPC	Chisang Khola	22-Jan-19	29-Jan-19	19-Feb-19	15.07		M20
299	T3L6	RUDP-1554	Saptakoshi	OPC	Chisang Khola	23-Jan-19	30-Jan-19	20-Feb-19	15.81		M20
300	T3L11H	RUDP-1555	Saptakoshi	OPC	Chisang Khola	24-Jan-19	31-Jan-19	21-Feb-19	15.74		M20
301	R-12	RUDP-1556	Saptakoshi	OPC	Chisang Khola	24-Jan-19	31-Jan-19	21-Feb-19	15.37		M20
<div style="display: flex; justify-content: space-between;"> <div style="width: 45%;"> <p>Contractor</p> <p>ZHONGHENG CONSTRUCTION GROUP INTERNATIONAL ENGINEERING CO. LTD</p> <p>Checked By  Engineer</p> <p>Submitted By  Contract Manager</p> </div> <div style="width: 45%;"> <p>Consultant</p> <p>BUILDING DESIGN AUTHORITY (P) LTD IN JOINT VENTURE WITH EN. CONSULTANCY PVT. LTD AND PLUS ENGINEERS & ARCHITECTS (P) LTD, KATHMANDU, NEPAL</p> <p>Verified By  Qty Engineer/CSE</p> <p>Approved By  Team Leader</p> </div> </div>											



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

Summary Sheet of Field Density Test

Location:-R-5 (South of DSP Road)

[illegible]

<p>Contractor</p> <p>ZHONGHENG CONSTRUCTION GROUP INTERNATIONAL ENGINEERING CO. LTD</p>	<p>Consultant</p> <p>BUILDING DESIGN AUTHORITY (P) LTD IN JOINT VENTURE WITH B.N CONSULTANCY PVT. LTD AND PLUS ENGINEERS & ARCHITECTS (P) LTD, KATHMANDU, NEPAL</p>
<p><i>[Signature]</i></p> <p>Checked By Engineer</p>	<p><i>[Signature]</i></p> <p>Submitted By Contract Manager</p>
<p><i>[Signature]</i></p> <p>Verified By Qty Engineer/CSE</p>	<p><i>[Signature]</i></p> <p>Approved By Team Leader</p>



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

Location:-B2-2



Summary Sheet of Monthly Test Report

Location:-R-84



REGIONAL URBAN DEVELOPMENT PROJECT

Biratnagar Metropolitan City

Contract No:- RUDP/ICB/BRT-02

Summary Sheet of Field Density Test

Location:-R-84

[illegible]





Summary Sheet of Field Density Test

Month	January
Year	2019
Type of Material	Base

<p style="text-align: center;">Contractor</p> <p style="text-align: center;">ZHONGHENG CONSTRUCTION GROUP INTERNATIONAL ENGINEERING CO. LTD</p>	<p style="text-align: center;">Consultant</p> <p style="text-align: center;">BUILDING DESIGN AUTHORITY (P) LTD IN JOINT VENTURE WITH B.N. CONSULTANCY PVT. LTD AND PLUS ENGINEERS & ARCHITECTS (P) LTD, KATHIMANDU, NEPAL</p>
<p><i>Khadan</i></p> <p>Checked By Engineer</p>	<p><i>[Signature]</i></p> <p>Submitted By Contract Manager</p>
<p><i>[Signature]</i></p> <p>Verified By Qty Engineer/CSE</p>	<p><i>[Signature]</i></p> <p>Approved By Team Leader</p>





Summary Sheet of Field Density Test

Location:-R-85



Summary Sheet of Field Density Test

Location:-R-85





REGIONAL URBAN DEVELOPMENT PROJECT

Biratnagar Metropolitan City

Contract No:- RUDP/ICB/BRT-02

Summary Sheet of Monthly Test Report

Location:-R-12

Month:	January
Year	2019
Type of Material	Sub grade

[illegible]

Contractor

ZHONGHENG CONSTRUCTION GROUP INTERNATIONAL
ENGINEERING CO, LTD

Consultant

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

Checked By
Engineer

Submitted By
Contract Manager

Verified By
Qty Engineer/CSE

Approved By
Team Leader





Summary Sheet of Field Density Test

Location:-R-12



REGIONAL URBAN DEVELOPMENT PROJECT								
Biratnagar Metropolitan City								
Contract No:- RUDP/ICB/BRT-02								
Summary Sheet Of Monthly Test Report								
						Month	January	
						Year	2019	
						Type of Material	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/mm ²)	Remarks
1	308	3-Jan-19	R-12	Dadarbairya	ACC	14.78	14.37	
2	309	3-Jan-19	R-84	Dadarbairya	ACC	9.73	12.60	
3	310	5-Jan-19	R-84	Dadarbairya	ACC	13.90	14.90	
4	311	6-Jan-19	R-84	Dadarbairya	ACC	12.30	13.82	
5	312	6-Jan-19	R-20	Dadarbairya	ACC	15.29	14.40	
6	313	7-Jan-19	R-10	Dangaraha	STL	12.41	12.05	
7	314	7-Jan-19	R-10	Dadarbairya	ACC	11.06	14.40	
8	315	8-Jan-19	R-34	Dangaraha	STL	11.38	14.70	
9	316	8-Jan-19	R-34	Dangaraha	STL	13.56	14.09	
10	317	8-Jan-19	R-34	Dangaraha	STL	13.99	12.64	
11	318	8-Jan-19	R-20	Dangaraha	STL	14.64	13.88	
12	319	9-Jan-19	R-20	Dadarbairya	ACC	14.38	13.50	
13	320	10-Jan-19	T2L24F	Dadarbairya	ACC	14.41	13.86	
14	321	10-Jan-19	T3L11H	Dadarbairya	ACC	11.49	13.30	
15	322	11-Jan-19	T3L13D	Dadarbairya	ACC	11.19	12.64	
16	323	11-Jan-19	R-84	Dadarbairya	ACC	11.94	14.12	
17	324	11-Jan-19	T3L9	Dangaraha	STL	13.11	12.96	
18	325	12-Jan-19	T2L24F	Dangaraha	STL	12.11	13.07	
19	326	12-Jan-19	T3L11E	Dangaraha	STL	11.28	13.73	
20	327	13-Jan-19	T2L19Q	Dangaraha	STL	11.85	14.51	
21	328	13-Jan-19	T2L19Q	Dangaraha	STL	12.37	14.07	
22	329	13-Jan-19	R-12	Dadarbairya	ACC	12.54	14.51	
23	330	14-Jan-19	R-12	Dangaraha	STL	14.27	15.09	
24	331	14-Jan-19	R-20	Dangaraha	STL	13.67	15.45	
25	332	15-Jan-19	R-34	Dangaraha	STL	13.64	15.82	
26	333	15-Jan-19	R-84	Dadarbairya	ACC	12.42	14.36	
27	334	15-Jan-19	R-12	Dadarbairya	ACC	14.42	12.61	
28	335	15-Jan-19	R-12	Dadarbairya	ACC	11.22	12.03	
29	336	15-Jan-19	R-12	Dangaraha	STL	12.56	14.14	
30	337	15-Jan-19	T3L9	Dangaraha	STL	11.94	13.47	
Sub-Clause No.2502, Standard Specification Road And Bridge 2073						<20%	>8 to 10 N/mm ²	
Comments:-								
Contractor					Consultant			
ZHONGHENG CONSTRUCTION GROUP INTERNATIONAL ENGINEERING CO. LTD.					BUILDING DESIGN AUTHORITY (P) LTD IN JOINT VENTURE WITH B.N. CONSULTANCY PVT. LTD AND PLUS ENGINEERS & ARCHITECTS (P) LTD, KATHMANDU, NEPAL			
 Checked By Engineer					 Submitted By Contract Manager			
 Verified By QTY Engineer/CSE					 Approved By Team Leader			



REGIONAL URBAN DEVELOPMENT PROJECT								
Biratnagar Metropolitan City								
Contract No:- RUDP/ICB/BRT-02								
Summary Sheet Of Monthly Test Report								
							- Month Year Type of Material	January 2019 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/mm ²)	Remarks
31	338	15-Jan-19	T3L9	Dadarbairya	ACC	12.38	13.81	
32	339	16-Jan-19	T3L6A	Dangaraha	STL	11.88	14.74	
33	340	16-Jan-19	T2L19P	Dangaraha	STL	11.00	15.00	
34	341	17-Jan-19	R-10	Dadarbairya	ACC	11.81	14.57	
35	342	17-Jan-19	T2L18Y	Dangaraha	STL	13.24	12.95	
36	343	17-Jan-19	T3L11B	Dangaraha	STL	14.06	12.22	
37	344	17-Jan-19	R-9B	Dadarbairya	Anand	13.18	14.05	
38	345	17-Jan-19	T3L13E	Dadarbairya	ACC	14.73	13.88	
39	346	18-Jan-19	T2L25	Dadarbairya	ACC	13.18	14.87	
40	347	18-Jan-19	T3L8	Dadarbairya	ACC	12.84	13.99	
41	348	19-Jan-19	T3L11H	Dadarbairya	ACC	14.51	13.13	
42	349	19-Jan-19	R-12	Dadarbairya	ACC	13.18	13.30	
43	350	19-Jan-19	T3L11E	Dadarbairya	ACC	11.20	11.50	
44	351	19-Jan-19	T3L11Q	Dangaraha	STL	12.75	12.60	
45	352	19-Jan-19	R-12	Dangaraha	STL	11.69	12.42	
46	353	19-Jan-19	T3L9	Dangaraha	STL	12.55	11.77	
47	354	20-Jan-19	R-84	Dadarbairya	ACC	11.55	12.81	
48	355	20-Jan-19	R-23	Dadarbairya	ACC	12.64	13.17	
49	356	20-Jan-19	R-20	Dadarbairya	ACC	12.32	13.34	
50	357	20-Jan-19	R-34	Dadarbairya	ACC	11.13	13.92	
51	358	22-Jan-19	T3L8	Dangaraha	STL	12.91	12.80	
52	359	22-Jan-19	T3L13D	Dangaraha	STL	14.13	11.76	
53	360	23-Jan-19	T3L6A	Dadarbairya	ACC	10.12	12.35	
54	361	23-Jan-19	T3L13J	Dadarbairya	ACC	10.65	12.07	
55	362	23-Jan-19	T3L13J	Dadarbairya	ACC	11.81	13.11	
56	363	23-Jan-19	T3L11E	Dadarbairya	ACC	14.80	12.04	
57	364	23-Jan-19	T3L13J	Dadarbairya	ACC	13.61	11.96	
58	365	24-Jan-19	T3L13G	Dadarbairya	ACC	13.45	12.49	
59	366	25-Jan-19	R-12	Dadarbairya	ACC	13.31	12.55	
60	367	25-Jan-19	T3L9	Dadarbairya	ACC	15.65	13.67	
61	368	26-Jan-19	T3L9	Dadarbairya	ACC	14.06	14.39	
Sub-Clause No.2502, Standard Specification Road And Bridge 2073						<20%	>8 to 10 N/mm ²	
Comments:-								
Contractor ZHONGHENG CONSTRUCTION GROUP INTERNATIONAL ENGINEERING CO. LTD				Consultant BUILDING DESIGN AUTHORITY (P) LTD IN JOINT VENTURE WITH B.N. CONSULTANCY PVT. LTD AND PLUS ENGINEERS & ARCHITECTS (P) LTD, KATHMANDU, NEPAL				
 Checked By Engineer				 Submitted By Contract Manager				
 Verified By QTY Engineer/CSE				 Approved By Team Leader				



REGIONAL URBAN DEVELOPMENT PROJECT											
Biratnagar Metropolitan City											
Contract No:- RUDP/ICB/BRT-02											
Summary Sheet of Mortar Test Report											
							Month		January		
							Year		2019		
							Description of Sample		Brick Wall		
S.N	Location	Lab Ref.no.	Type of Cement	Brand of Cement	Source of Sand	Date of Casting	Date of Testing		Strength, N/mm ²		Type of Grade
							7 Days	28 Days	7 Days	28 Days	
1	N-10	MR-987	Salimar	OPC	Chisang Khola	4-Dec-18	11-Dec-18	1-Jan-19		8.28	7.5
2	R-23	MR-988	Salimar	OPC	Chisang Khola	4-Dec-18	11-Dec-18	1-Jan-19		7.87	7.5
3	T3L6A	MR-989	Salimar	OPC	Chisang Khola	5-Dec-18	12-Dec-18	2-Jan-19		8.14	7.5
4	R-7	MR-990	Salimar	OPC	Chisang Khola	5-Dec-18	12-Dec-18	2-Jan-19		8.41	7.5
5	T3L24A	MR-991	Salimar	OPC	Chisang Khola	6-Dec-18	13-Dec-18	3-Jan-19		8.14	7.5
6	R-84	MR-992	Salimar	OPC	Chisang Khola	7-Dec-18	14-Dec-18	4-Jan-19		8.55	7.5
7	R-9	MR-993	Salimar	OPC	Chisang Khola	7-Dec-18	14-Dec-18	4-Jan-19		8.92	7.5
8	R-103	MR-994	Salimar	OPC	Chisang Khola	8-Dec-18	15-Dec-18	5-Jan-19		8.28	7.5
9	R-23	MR-995	Salimar	OPC	Chisang Khola	8-Dec-18	15-Dec-18	5-Jan-19		8.23	7.5
10	T3L7A	MR-996	Salimar	OPC	Chisang Khola	9-Dec-18	16-Dec-18	6-Jan-19		7.87	7.5
11	T2L25	MR-997	Saptakoshi	OPC	Chisang Khola	9-Dec-18	16-Dec-18	6-Jan-19		9.23	7.5
12	T2L23	MR-998	Saptakoshi	OPC	Chisang Khola	9-Dec-18	16-Dec-18	6-Jan-19		8.68	7.5
13	R-105	MR-999	Saptakoshi	OPC	Chisang Khola	10-Dec-18	17-Dec-18	7-Jan-19		9.09	7.5
14	R-34	MR-1000	Saptakoshi	OPC	Chisang Khola	10-Dec-18	17-Dec-18	7-Jan-19		9.23	7.5
15	T3L9	MR-1001	Saptakoshi	OPC	Chisang Khola	10-Dec-18	17-Dec-18	7-Jan-19		8.28	7.5
16	R-7	MR-1002	Saptakoshi	OPC	Chisang Khola	10-Dec-18	17-Dec-18	7-Jan-19		9.23	7.5
17	T3L24A	MR-1003	Saptakoshi	OPC	Chisang Khola	11-Dec-18	18-Dec-18	8-Jan-19		8.95	7.5
18	T2L24C	MR-1004	Saptakoshi	OPC	Chisang Khola	12-Dec-18	19-Dec-18	9-Jan-19		9.23	7.5
19	R-7	MR-1004	Saptakoshi	OPC	Chisang Khola	12-Dec-18	19-Dec-18	9-Jan-19		8.28	7.5
20	N-10	MR-1006	Saptakoshi	OPC	Chisang Khola	12-Dec-18	19-Dec-18	9-Jan-19		8.14	7.5
21	R-23	MR-1007	Saptakoshi	OPC	Chisang Khola	12-Dec-18	19-Dec-18	9-Jan-19		10.14	7.5
22	T3L6A	MR-1008	Saptakoshi	OPC	Chisang Khola	13-Dec-18	20-Dec-18	10-Jan-19		8.82	7.5
23	R-84	MR-1009	Saptakoshi	OPC	Chisang Khola	13-Dec-18	20-Dec-18	10-Jan-19		8.14	7.5
24	R-12	MR-1010	Saptakoshi	OPC	Chisang Khola	14-Dec-18	21-Dec-18	11-Jan-19		8.41	7.5
25	R-9	MR-1011	Saptakoshi	OPC	Chisang Khola	14-Dec-18	21-Dec-18	11-Jan-19		8.14	7.5
26	R-103	MR-1012	Saptakoshi	OPC	Chisang Khola	15-Dec-18	22-Dec-18	12-Jan-19		9.07	7.5
27	R-45	MR-1013	Saptakoshi	OPC	Chisang Khola	15-Dec-18	22-Dec-18	12-Jan-19		9.23	7.5
28	T3L23A	MR-1014	Saptakoshi	OPC	Chisang Khola	16-Dec-18	23-Dec-18	13-Jan-19		8.00	7.5
29	T2L23	MR-1015	Saptakoshi	OPC	Chisang Khola	16-Dec-18	23-Dec-18	13-Jan-19		8.41	7.5
30	R-105	MR-1016	Saptakoshi	OPC	Chisang Khola	16-Dec-18	23-Dec-18	13-Jan-19		8.41	7.5
31	R-45	MR-1017	Saptakoshi	OPC	Chisang Khola	17-Dec-18	24-Dec-18	14-Jan-19		7.87	7.5
32	R-23	MR-1018	Saptakoshi	OPC	Chisang Khola	17-Dec-18	24-Dec-18	14-Jan-19		8.82	7.5
33	R-105	MR-1019	Saptakoshi	OPC	Chisang Khola	17-Dec-18	24-Dec-18	14-Jan-19		9.23	7.5
34	R-7	MR-1020	Saptakoshi	OPC	Chisang Khola	17-Dec-18	24-Dec-18	14-Jan-19		8.41	7.5
35	R-9	MR-1021	Saptakoshi	OPC	Chisang Khola	18-Dec-18	25-Dec-18	15-Jan-19		9.23	7.5
36	R-12	MR-1022	Saptakoshi	OPC	Chisang Khola	18-Dec-18	25-Dec-18	15-Jan-19		8.41	7.5
37	R-9	MR-1023	Saptakoshi	OPC	Chisang Khola	19-Dec-18	26-Dec-18	16-Jan-19		8.55	7.5
38	R-23	MR-1024	Saptakoshi	OPC	Chisang Khola	19-Dec-18	26-Dec-18	16-Jan-19		8.41	7.5
39	R-7	MR-1025	Saptakoshi	OPC	Chisang Khola	19-Dec-18	26-Dec-18	16-Jan-19		9.36	7.5

Contractor		Consultant	
ZHONGHENG CONSTRUCTION GROUP INTERNATIONAL ENGINEERING CO. LTD		BUILDING DESIGN AUTHORITY (P) LTD IN JOINT VENTURE WITH B.N. CONSULTANCY PVT. LTD AND PLUS ENGINEERS & ARCHITECTS (P) LTD, KATHMANDU, NEPAL	
Checked By Engineer	Submitted By Contract Manager	Verified By Qty Engineer/CSE	Approved By Team Leader







REGIONAL URBAN DEVELOPMENT PROJECT

Biratnagar Metropolitan City

Contract No:- RUDP/ICB/BRT-02

Summary Sheet of Mortar Test Report

S.N.	Location	Lab Ref.no	Type of Cement	Brand of Cement	Source of Sand	Date of Casting	Month		January	
							Year		2019	
							Description of Sample		Brick Wall	
							Date of Testing		Strength, N/mm ²	
							7 Days	28 Days	7 Days	28 Days
40	R-10	MR-1026	Saptakoshi	OPC	Chisang Khola	19-Dec-18	26-Dec-18	16-Jan-19	8.28	7.5
41	N-10	MR-1027	Saptakoshi	OPC	Chisang Khola	19-Dec-18	26-Dec-18	16-Jan-19	8.41	7.5
42	T3L7A	MR-1028	Saptakoshi	OPC	Chisang Khola	20-Dec-18	27-Dec-18	17-Jan-19	8.00	7.5
43	T3L6A	MR-1029	Saptakoshi	OPC	Chisang Khola	21-Dec-18	28-Dec-18	18-Jan-19	8.82	7.5
44	R-9	MR-1030	Saptakoshi	OPC	Chisang Khola	21-Dec-18	28-Dec-18	18-Jan-19	8.28	7.5
45	R-103	MR-1031	Saptakoshi	OPC	Chisang Khola	21-Dec-18	28-Dec-18	18-Jan-19	9.48	7.5
46	T3L7A	MR-1032	Saptakoshi	OPC	Chisang Khola	21-Dec-18	28-Dec-18	18-Jan-19	9.23	7.5
47	R-9	MR-1033	Saptakoshi	OPC	Chisang Khola	21-Dec-18	28-Dec-18	18-Jan-19	8.41	7.5
48	R-7	MR-1034	Saptakoshi	OPC	Chisang Khola	22-Dec-18	29-Dec-18	19-Jan-19	8.28	7.5
49	R-45	MR-1035	Jagdamba	OPC	Chisang Khola	22-Dec-18	29-Dec-18	19-Jan-19	8.14	7.5
50	R-9	MR-1036	Jagdamba	OPC	Chisang Khola	22-Dec-18	29-Dec-18	19-Jan-19	7.87	7.5
51	R-9	MR-1037	Jagdamba	OPC	Chisang Khola	22-Dec-18	29-Dec-18	19-Jan-19	8.14	7.5
52	T3L7A	MR-1038	saptakoshi	OPC	Chisang Khola	22-Dec-18	29-Dec-18	19-Jan-19	8.00	7.5
53	R-7	MR-1039	saptakoshi	OPC	Chisang Khola	22-Dec-18	29-Dec-18	19-Jan-19	9.09	7.5
54	T3L11G	MR-1040	saptakoshi	OPC	Chisang Khola	22-Dec-18	29-Dec-18	19-Jan-19	9.36	7.5
55	T2L24G	MR-1041	saptakoshi	OPC	Chisang Khola	22-Dec-18	29-Dec-18	19-Jan-19	8.28	7.5
56	T2L24D	MR-1042	saptakoshi	OPC	Chisang Khola	22-Dec-18	29-Dec-18	19-Jan-19	9.09	7.5
57	R-7	MR-1043	saptakoshi	OPC	Chisang Khola	22-Dec-18	29-Dec-18	19-Jan-19	9.23	7.5
58	T3L6A	MR-1044	saptakoshi	OPC	Chisang Khola	22-Dec-18	29-Dec-18	19-Jan-19	7.87	7.5
59	T3L11E	MR-1045	saptakoshi	OPC	Chisang Khola	22-Dec-18	29-Dec-18	19-Jan-19	8.14	7.5
60	T3L13D	MR-1046	saptakoshi	OPC	Chisang Khola	22-Dec-18	29-Dec-18	19-Jan-19	8.14	7.5
61	R-12	MR-1047	saptakoshi	OPC	Chisang Khola	23-Dec-18	30-Dec-18	20-Jan-19	8.00	7.5
62	R-7	MR-1048	saptakoshi	OPC	Chisang Khola	23-Dec-18	30-Dec-18	20-Jan-19	9.23	7.5
64	R-23	MR-1049	saptakoshi	OPC	Chisang Khola	23-Dec-18	30-Dec-18	20-Jan-19	7.87	7.5
65	R-84	MR-1050	saptakoshi	OPC	Chisang Khola	23-Dec-18	30-Dec-18	20-Jan-19	9.36	7.5
66	R-12	MR-1051	saptakoshi	OPC	Chisang Khola	23-Dec-18	30-Dec-18	20-Jan-19	9.09	7.5
67	T3L13D	MR-1052	saptakoshi	OPC	Chisang Khola	23-Dec-18	30-Dec-18	20-Jan-19	8.41	7.5
68	T3L13E	MR-1053	saptakoshi	OPC	Chisang Khola	23-Dec-18	30-Dec-18	20-Jan-19	9.50	7.5
69	R-34	MR-1054	saptakoshi	OPC	Chisang Khola	24-Dec-18	31-Dec-18	21-Jan-19	8.55	7.5
70	R-102	MR-1055	saptakoshi	OPC	Chisang Khola	24-Dec-18	31-Dec-18	21-Jan-19	8.41	7.5
71	R-84	MR-1056	saptakoshi	OPC	Chisang Khola	24-Dec-18	31-Dec-18	21-Jan-19	9.50	7.5
72	R-12	MR-1057	saptakoshi	OPC	Chisang Khola	25-Dec-18	1-Jan-19	22-Jan-19	6.38	8.41
73	T3L9	MR-1058	saptakoshi	OPC	Chisang Khola	25-Dec-18	1-Jan-19	22-Jan-19	6.78	8.14
74	T2L19P	MR-1059	saptakoshi	OPC	Chisang Khola	25-Dec-18	1-Jan-19	22-Jan-19	5.97	9.23
75	T3L11B	MR-1060	saptakoshi	OPC	Chisang Khola	25-Dec-18	1-Jan-19	22-Jan-19	6.65	7.87
76	R-10	MR-1061	saptakoshi	OPC	Chisang Khola	25-Dec-18	1-Jan-19	22-Jan-19	5.83	9.36
77	T2L24F	MR-1062	saptakoshi	OPC	Chisang Khola	25-Dec-18	1-Jan-19	22-Jan-19	6.78	9.50
Contractor						Consultant				
ZHONGHENG CONSTRUCTION GROUP INTERNATIONAL ENGINEERING CO. LTD						BUILDING DESIGN AUTHORITY (P) LTD IN JOINT VENTURE WITH B.N. CONSULTANCY PVT. LTD AND PLUS ENGINEERS & ARCHITECTS (P) LTD, KATHMANDU, NEPAL				
 Checked By Engineer						 Submitted By Contract Manager				
 Verified By Qty Engineer/CSE						 Approved By Team Leader				



REGIONAL URBAN DEVELOPMENT PROJECT

Biratnagar Metropolitan City

Contract No:- RUDP/ICB/BRT-02

Summary Sheet of Mortar Test Report

							Month		January		
							Year		2019		
							Description of Sample				Brick Wall
							Date of Testing		Strength, N/mm ²		Type of Grade
S.N.	Location	Lab Ref.no.	Type of Cement	Brand of Cement	Source of Sand	Date of Casting	7 Days	28 Days	7 Days	28 Days	
77	T3L8	MR-1063	Saptakoshi	OPC	Chisang Khola	25-Dec-18	1-Jan-19	22-Jan-19	6.78	8.28	7.5
78	R-23	MR-1064	Saptakoshi	OPC	Chisang Khola	25-Dec-18	1-Jan-19	22-Jan-19	6.10	8.28	7.5
79	T2L22A	MR-1065	Saptakoshi	OPC	Chisang Khola	25-Dec-18	1-Jan-19	22-Jan-19	6.65	8.55	7.5
80	R-34	MR-1066	Saptakoshi	OPC	Chisang Khola	25-Dec-18	1-Jan-19	22-Jan-19	5.97	9.09	7.5
81	R-34	MR-1067	Saptakoshi	OPC	Chisang Khola	25-Dec-18	1-Jan-19	22-Jan-19	6.24	10.02	7.5
82	T3L11B	MR-1068	Saptakoshi	OPC	Chisang Khola	25-Dec-18	1-Jan-19	22-Jan-19	6.65	8.55	7.5
83	T3L11E	MR-1069	Saptakoshi	OPC	Chisang Khola	25-Dec-18	1-Jan-19	22-Jan-19	6.24	8.55	7.5
84	T2L19Q	MR-1070	Saptakoshi	OPC	Chisang Khola	25-Dec-18	1-Jan-19	22-Jan-19	6.78	8.82	7.5
85	T3L13D	MR-1071	Saptakoshi	OPC	Chisang Khola	25-Dec-18	1-Jan-19	22-Jan-19	6.65	8.82	7.5
86	T3L13J	MR-1072	Saptakoshi	OPC	Chisang Khola	25-Dec-18	1-Jan-19	22-Jan-19	5.83	8.41	7.5
87	R-12	MR-1073	Saptakoshi	OPC	Chisang Khola	25-Dec-18	1-Jan-19	22-Jan-19	6.38	9.63	7.5
88	R-84	MR-1074	Saptakoshi	OPC	Chisang Khola	25-Dec-18	1-Jan-19	22-Jan-19	5.97	8.14	7.5
89	T2L25	MR-1075	Saptakoshi	OPC	Chisang Khola	25-Dec-18	1-Jan-19	22-Jan-19	6.10	8.82	7.5
90	T2L18Y	MR-1076	Saptakoshi	OPC	Chisang Khola	25-Dec-18	1-Jan-19	22-Jan-19	5.97	9.63	7.5
91	T3L13J	MR-1077	Saptakoshi	OPC	Chisang Khola	25-Dec-18	1-Jan-19	22-Jan-19	5.97	8.00	7.5
92	T2L19P	MR-1078	Saptakoshi	OPC	Chisang Khola	25-Dec-18	1-Jan-19	22-Jan-19	6.65	9.36	7.5
93	R-84	MR-1079	Saptakoshi	OPC	Chisang Khola	25-Dec-18	1-Jan-19	22-Jan-19	6.78	8.41	7.5
94	T3L13D	MR-1080	Saptakoshi	OPC	Chisang Khola	26-Dec-18	2-Jan-19	23-Jan-19	6.24	8.68	7.5
95	T2L25	MR-1081	saptakoshi	OPC	Chisang Khola	26-Dec-18	2-Jan-19	23-Jan-19	6.65	8.41	7.5
96	T2L22A	MR-1082	saptakoshi	OPC	Chisang Khola	26-Dec-18	2-Jan-19	23-Jan-19	6.51	8.55	7.5
97	T3L11D	MR-1083	saptakoshi	OPC	Chisang Khola	26-Dec-18	2-Jan-19	23-Jan-19	6.10	9.23	7.5
98	T3L13J	MR-1084	saptakoshi	OPC	Chisang Khola	26-Dec-18	2-Jan-19	23-Jan-19	5.97	9.23	7.5
99	T3L11E	MR-1085	saptakoshi	OPC	Chisang Khola	26-Dec-18	2-Jan-19	23-Jan-19	5.97	8.68	7.5
101	T2L18Y	MR-1086	saptakoshi	OPC	Chisang Khola	27-Dec-18	3-Jan-19	24-Jan-19	5.51	8.55	7.5
102	T1L5	MR-1087	saptakoshi	OPC	Chisang Khola	27-Dec-18	3-Jan-19	24-Jan-19	6.78	9.09	7.5
103	T2L19P	MR-1088	saptakoshi	OPC	Chisang Khola	27-Dec-18	3-Jan-19	24-Jan-19	6.10	9.36	7.5
104	T2L25	MR-1089	saptakoshi	OPC	Chisang Khola	27-Dec-18	3-Jan-19	24-Jan-19	5.83	8.55	7.5
105	T3L13J	MR-1090	saptakoshi	OPC	Chisang Khola	27-Dec-18	3-Jan-19	24-Jan-19	5.97	8.82	7.5
106	T2L18Y	MR-1091	saptakoshi	OPC	Chisang Khola	27-Dec-18	3-Jan-19	24-Jan-19	6.10	9.63	7.5
107	T3L13Q	MR-1092	saptakoshi	OPC	Chisang Khola	27-Dec-18	3-Jan-19	24-Jan-19	6.65	8.41	7.5
108	R-12	MR-1093	saptakoshi	OPC	Chisang Khola	27-Dec-18	3-Jan-19	24-Jan-19	5.97	8.55	7.5
109	T3L13J	MR-1094	saptakoshi	OPC	Chisang Khola	27-Dec-18	3-Jan-19	24-Jan-19	6.65	8.00	7.5
110	R-84	MR-1095	saptakoshi	OPC	Chisang Khola	27-Dec-18	3-Jan-19	24-Jan-19	5.97	9.50	7.5
111	R-34	MR-1096	saptakoshi	OPC	Chisang Khola	27-Dec-18	3-Jan-19	24-Jan-19	5.83	8.28	7.5
112	R-23	MR-1097	saptakoshi	OPC	Chisang Khola	27-Dec-18	3-Jan-19	24-Jan-19	6.78	8.55	7.5
113	R-12	MR-1098	saptakoshi	OPC	Chisang Khola	27-Dec-18	3-Jan-19	24-Jan-19	6.38	9.50	7.5
114	T2L25	MR-1099	saptakoshi	OPC	Chisang Khola	27-Dec-18	3-Jan-19	24-Jan-19	6.65	8.14	7.5
Contractor						Consultant					
ZHONGHENG CONSTRUCTION GROUP INTERNATIONAL ENGINEERING CO. LTD						BUILDING DESIGN AUTHORITY (P) LTD IN JOINT VENTURE WITH B.N. CONSULTANCY PVT. LTD AND PLUS ENGINEERS & ARCHITECTS (P) LTD, KATHMANDU, NEPAL					
 Checked By Engineer						 Submitted By Contract Manager					
 Verified By Qty Engineer/CSE						 Approved By Team Leader					

REGIONAL URBAN DEVELOPMENT PROJECT

Biratnagar Metropolitan City

Contract No:- RUDP/ICB/BRT-02

Summary Sheet of Mortar Test Report

							Month		January		
							Year		2019		
							Description of Sample		Brick Wall		
S.N	Location	Lab Ref.no.	Type of Cement	Brand of Cement	Source of Sand	Date of Casting	Date of Testing		Strength, N/mm2		Type of Grade
							7 Days	28 Days	7 Days	28 Days	
115	T3L13	MR-1100	Saptakoshi	OPC	Chisang Khola	27-Dec-18	3-Jan-19	24-Jan-19	5.83	9.36	7.5
116	T2L19Q	MR-1101	Saptakoshi	OPC	Chisang Khola	28-Dec-18	4-Jan-19	25-Jan-19	6.24	8.95	7.5
117	T3L11A	MR-1102	Saptakoshi	OPC	Chisang Khola	28-Dec-18	4-Jan-19	25-Jan-19	6.78	8.41	7.5
118	R-34	MR-1103	Saptakoshi	OPC	Chisang Khola	28-Dec-18	4-Jan-19	25-Jan-19	5.97	9.36	7.5
119	R-34	MR-1104	Saptakoshi	OPC	Chisang Khola	28-Dec-18	4-Jan-19	25-Jan-19	6.65	9.23	7.5
120	T3L11E	MR-1105	Saptakoshi	OPC	Chisang Khola	28-Dec-18	4-Jan-19	25-Jan-19	6.78	8.28	7.5
121	T2L24F	MR-1106	Saptakoshi	OPC	Chisang Khola	28-Dec-18	4-Jan-19	25-Jan-19	6.65	8.41	7.5
122	R-10	MR-1107	Saptakoshi	OPC	Chisang Khola	28-Dec-18	4-Jan-19	25-Jan-19	6.65	7.87	7.5
123	T2L25	MR-1108	Saptakoshi	OPC	Chisang Khola	28-Dec-18	4-Jan-19	25-Jan-19	5.97	8.28	7.5
124	R-20	MR-1109	Saptakoshi	OPC	Chisang Khola	28-Dec-18	4-Jan-19	25-Jan-19	6.65	7.87	7.5
125	T3L11B	MR-1110	Saptakoshi	OPC	Chisang Khola	28-Dec-18	4-Jan-19	25-Jan-19	6.51	9.36	7.5
126	T2L25	MR-1111	Saptakoshi	OPC	Chisang Khola	28-Dec-18	4-Jan-19	25-Jan-19	6.51	8.25	7.5
127	R-10	MR-1112	Saptakoshi	OPC	Chisang Khola	28-Dec-18	4-Jan-19	25-Jan-19	6.78	9.09	7.5
128	R-12	MR-1113	Saptakoshi	OPC	Chisang Khola	28-Dec-18	4-Jan-19	25-Jan-19	6.38	8.95	7.5
129	R-23	MR-1114	Saptakoshi	OPC	Chisang Khola	28-Dec-18	4-Jan-19	25-Jan-19	6.65	8.00	7.5
130	R-23	MR-1115	Saptakoshi	OPC	Chisang Khola	28-Dec-18	4-Jan-19	25-Jan-19	5.97	8.55	7.5
131	R-84	MR-1116	Saptakoshi	OPC	Chisang Khola	28-Dec-18	4-Jan-19	25-Jan-19	5.97	7.87	7.5
132	R-84	MR-1117	Saptakoshi	OPC	Chisang Khola	28-Dec-18	4-Jan-19	25-Jan-19	6.24	8.14	7.5
133	R-10	MR-1118	Saptakoshi	OPC	Chisang Khola	28-Dec-18	4-Jan-19	25-Jan-19	6.51	8.55	7.5
134	R-34	MR-1119	saptakoshi	OPC	Chisang Khola	28-Dec-18	4-Jan-19	25-Jan-19	6.51	8.41	7.5
135	R-12	MR-1120	saptakoshi	OPC	Chisang Khola	28-Dec-18	4-Jan-19	25-Jan-19	6.65	8.14	7.5
136	R-10	MR-1121	saptakoshi	OPC	Chisang Khola	29-Dec-18	5-Jan-19	26-Jan-19	6.78	8.28	7.5
137	R-84	MR-1122	saptakoshi	OPC	Chisang Khola	29-Dec-18	5-Jan-19	26-Jan-19	5.83	7.87	7.5
138	T3L13D	MR-1123	saptakoshi	OPC	Chisang Khola	29-Dec-18	5-Jan-19	26-Jan-19	6.78	9.09	7.5
139	T2L22A	MR-1124	saptakoshi	OPC	Chisang Khola	29-Dec-18	5-Jan-19	26-Jan-19	6.78	8.95	7.5
140	T3L11B	MR-1125	saptakoshi	OPC	Chisang Khola	29-Dec-18	5-Jan-19	26-Jan-19	6.65	7.87	7.5
141	T3L11E	MR-1126	saptakoshi	OPC	Chisang Khola	29-Dec-18	5-Jan-19	26-Jan-19	6.65	9.50	7.5
142	T3L9	MR-1127	saptakoshi	OPC	Chisang Khola	29-Dec-18	5-Jan-19	26-Jan-19	6.65	8.55	7.5
143	T3L13J	MR-1128	saptakoshi	OPC	Chisang Khola	29-Dec-18	5-Jan-19	26-Jan-19	5.83	8.00	7.5
144	T2L19P	MR-1129	saptakoshi	OPC	Chisang Khola	29-Dec-18	5-Jan-19	26-Jan-19	6.24	9.09	7.5
145	R-34	MR-1130	saptakoshi	OPC	Chisang Khola	29-Dec-18	5-Jan-19	26-Jan-19	6.78	7.87	7.5
146	T2L19Q	MR-1131	saptakoshi	OPC	Chisang Khola	29-Dec-18	5-Jan-19	26-Jan-19	6.51	8.68	7.5
147	T2L22A	MR-1132	saptakoshi	OPC	Chisang Khola	29-Dec-18	5-Jan-19	26-Jan-19	6.10	8.14	7.5
148	R-12	MR-1133	saptakoshi	OPC	Chisang Khola	29-Dec-18	5-Jan-19	26-Jan-19	5.83	8.00	7.5
149	T3L11E	MR-1134	saptakoshi	OPC	Chisang Khola	29-Dec-18	5-Jan-19	26-Jan-19	6.38	8.68	7.5
150	R-84	MR-1135	saptakoshi	OPC	Chisang Khola	29-Dec-18	5-Jan-19	26-Jan-19	6.51	8.00	7.5
151	R-10	MR-1136	saptakoshi	OPC	Chisang Khola	30-Dec-18	6-Jan-19	27-Jan-19	6.78	9.09	7.5
Contractor						Consultant					
ZHONGHENG CONSTRUCTION GROUP INTERNATIONAL ENGINEERING CO. LTD						BUILDING DESIGN AUTHORITY (P) LTD IN JOINT VENTURE WITH B.N. CONSULTANCY PVT. LTD AND PLUS ENGINEERS & ARCHITECTS (P) LTD, KATHMANDU, NEPAL					
 Checked By Engineer						 Submitted By Contract Manager					
 Verified By Qty Engineer/CSE						 Approved By Team Leader					

REGIONAL URBAN DEVELOPMENT PROJECT

Biratnagar Metropolitan City







Contract No:- RUDP/ICB/BRT-02

Summary Sheet of Mortar Test Report

S.N.	Location	Lab Ref.no.	Type of Cement	Brand of Cement	Source of Sand	Date of Casting	Month		January	
							Year		2019	
							Description of Sample		Brick Wall	
							Date of Testing		Strength, N/mm ²	
							7 Days	28 Days	7 Days	28 Days
152	T2L22A	MR-1137	Saptakoshi	OPC	Chisang Khola	30-Dec-18	6-Jan-19	27-Jan-19	5.83	9.50
153	R-10	MR-1138	Saptakoshi	OPC	Chisang Khola	30-Dec-18	6-Jan-19	27-Jan-19	6.38	10.14
154	T2L19Q	MR-1139	Saptakoshi	OPC	Chisang Khola	30-Dec-18	6-Jan-19	27-Jan-19	5.97	8.38
155	T2L18Y	MR-1140	Saptakoshi	OPC	Chisang Khola	30-Dec-18	6-Jan-19	27-Jan-19	6.51	9.33
156	T3L11E	MR-1141	Saptakoshi	OPC	Chisang Khola	30-Dec-18	6-Jan-19	27-Jan-19	5.83	10.43
157	R-10	MR-1142	Saptakoshi	OPC	Chisang Khola	30-Dec-18	6-Jan-19	27-Jan-19	7.05	9.36
158	T2L25	MR-1143	Saptakoshi	OPC	Chisang Khola	30-Dec-18	6-Jan-19	27-Jan-19	6.92	8.82
159	T3L13J	MR-1144	Saptakoshi	OPC	Chisang Khola	30-Dec-18	6-Jan-19	27-Jan-19	6.24	8.00
160	R-34	MR-1145	Saptakoshi	OPC	Chisang Khola	31-Dec-18	7-Jan-19	28-Jan-19	6.51	8.55
161	T3L19	MR-1146	Saptakoshi	OPC	Chisang Khola	31-Dec-18	7-Jan-19	28-Jan-19	5.97	9.09
162	T2L19P	MR-1147	Saptakoshi	OPC	Chisang Khola	31-Dec-18	7-Jan-19	28-Jan-19	5.83	8.28
163	T2L22A	MR-1148	Saptakoshi	OPC	Chisang Khola	31-Dec-18	7-Jan-19	28-Jan-19	6.38	8.41
164	T3L13J	MR-1149	Saptakoshi	OPC	Chisang Khola	31-Dec-18	7-Jan-19	28-Jan-19	5.83	8.55
165	R-84	MR-1150	Saptakoshi	OPC	Chisang Khola	31-Dec-18	7-Jan-19	28-Jan-19	7.33	8.28
166	T2L25	MR-1151	Saptakoshi	OPC	Chisang Khola	31-Dec-18	7-Jan-19	28-Jan-19	6.10	9.09
167	R-84	MR-1152	Saptakoshi	OPC	Chisang Khola	31-Dec-18	7-Jan-19	28-Jan-19	5.83	8.82
168	R-34	MR-1153	Saptakoshi	OPC	Chisang Khola	31-Dec-18	7-Jan-19	28-Jan-19	6.65	8.55
169	T3L11B	MR-1154	Saptakoshi	OPC	Chisang Khola	31-Dec-18	7-Jan-19	28-Jan-19	5.83	7.87
170	T3L11E	MR-1155	Saptakoshi	OPC	Chisang Khola	31-Dec-18	7-Jan-19	28-Jan-19	6.65	9.36
171	T3L11D	MR-1156	Saptakoshi	OPC	Chisang Khola	31-Dec-18	7-Jan-19	28-Jan-19	5.97	8.68
172	R-84	MR-1157	Saptakoshi	OPC	Chisang Khola	28-Dec-18	4-Jan-19	25-Jan-19	6.65	9.09
173	R-34	MR-1158	Saptakoshi	OPC	Chisang Khola	1-Jan-19	8-Jan-19	29-Jan-19	7.05	9.63
174	T3L6	MR-1159	Saptakoshi	OPC	Chisang Khola	1-Jan-19	8-Jan-19	29-Jan-19	6.68	8.55
175	T2L19Q	MR-1160	Saptakoshi	OPC	Chisang Khola	1-Jan-19	8-Jan-19	29-Jan-19	6.78	9.50
176	R-84	MR-1161	Saptakoshi	OPC	Chisang Khola	1-Jan-19	8-Jan-19	29-Jan-19	6.24	8.55
177	T2L19P	MR-1162	Saptakoshi	OPC	Chisang Khola	1-Jan-19	8-Jan-19	29-Jan-19	6.78	7.87
178	T3L19	MR-1163	Saptakoshi	OPC	Chisang Khola	1-Jan-19	8-Jan-19	29-Jan-19	6.51	9.50
179	T3L18Y	MR-1164	Saptakoshi	OPC	Chisang Khola	1-Jan-19	8-Jan-19	29-Jan-19	6.65	9.63
180	R-12	MR-1165	Saptakoshi	OPC	Chisang Khola	2-Jan-19	9-Jan-19	30-Jan-19	5.97	8.41
181	R-84	MR-1166	saptakoshi	OPC	Chisang Khola	2-Jan-19	9-Jan-19	30-Jan-19	6.51	8.00
182	R-23	MR-1167	saptakoshi	OPC	Chisang Khola	2-Jan-19	9-Jan-19	30-Jan-19	7.05	9.09
183	R-34	MR-1168	saptakoshi	OPC	Chisang Khola	2-Jan-19	9-Jan-19	30-Jan-19	5.97	8.14
184	T3L19P	MR-1169	saptakoshi	OPC	Chisang Khola	3-Jan-19	10-Jan-19	31-Jan-19	6.78	8.95
185	T3L13D	MR-1170	saptakoshi	OPC	Chisang Khola	3-Jan-19	10-Jan-19	31-Jan-19	6.51	8.95
186	T3L11E	MR-1171	saptakoshi	OPC	Chisang Khola	4-Jan-19	11-Jan-19	1-Feb-19	6.10	
187	T3L13J	MR-1172	saptakoshi	OPC	Chisang Khola	4-Jan-19	11-Jan-19	1-Feb-19	5.83	
188	T2L22A	MR-1173	saptakoshi	OPC	Chisang Khola	4-Jan-19	11-Jan-19	1-Feb-19	6.78	
Contractor							Consultant			
ZHONGHENG CONSTRUCTION GROUP INTERNATIONAL ENGINEERING CO. LTD							BUILDING DESIGN AUTHORITY (P) LTD IN JOINT VENTURE WITH B.N. CONSULTANCY PVT. LTD AND PLUS ENGINEERS & ARCHITECTS (P) LTD, KATHMANDU, NEPAL			
 Checked By Engineer							 Submitted By Contract Manager			
 Verified By Qty Engineer/CSE							 Approved By Team Leader			









REGIONAL URBAN DEVELOPMENT PROJECT										
Biratnagar Metropolitan City										
Contract No:- RUDP/ICB/BRT-02										
Summary Sheet of Mortar Test Report										
S.N.	Location	Lab Ref.no	Type of Cement	Brand of Cement	Source of Sand	Date of Casting	Month		January	
							Year		2019	
							Description of Sample		Brick Wall	
							Date of Testing		Strength, N/mm ²	
							7 Days	28 Days	7 Days	28 Days
							Type of Grade			
189	T2L19Q	MR-1174	Saptakoshi	OPC	Chisang Khola	4-Jan-19	11-Jan-19	1-Feb-19	5.83	7.5
190	R-12	MR-1175	Saptakoshi	OPC	Chisang Khola	4-Jan-19	11-Jan-19	1-Feb-19	6.10	7.5
191	T2L25	MR-1176	Saptakoshi	OPC	Chisang Khola	4-Jan-19	11-Jan-19	1-Feb-19	6.51	7.5
192	T3L13D	MR-1177	Saptakoshi	OPC	Chisang Khola	4-Jan-19	11-Jan-19	1-Feb-19	6.65	7.5
193	R-23	MR-1178	Saptakoshi	OPC	Chisang Khola	4-Jan-19	11-Jan-19	1-Feb-19	6.65	7.5
194	T2L19P	MR-1179	Saptakoshi	OPC	Chisang Khola	4-Jan-19	11-Jan-19	1-Feb-19	5.83	7.5
195	T3L11B	MR-1180	Salimar	OPC	Chisang Khola	5-Jan-19	12-Jan-19	2-Feb-19	6.65	7.5
196	T3L11B	MR-1181	Salimar	OPC	Chisang Khola	5-Jan-19	12-Jan-19	2-Feb-19	5.83	7.5
197	T2L19P	MR-1182	Salimar	OPC	Chisang Khola	5-Jan-19	12-Jan-19	2-Feb-19	6.38	7.5
198	R-12	MR-1183	Salimar	OPC	Chisang Khola	5-Jan-19	12-Jan-19	2-Feb-19	5.83	7.5
199	R-34	MR-1184	Salimar	OPC	Chisang Khola	5-Jan-19	12-Jan-19	2-Feb-19	6.78	7.5
200	R-12	MR-1185	Salimar	OPC	Chisang Khola	5-Jan-19	12-Jan-19	2-Feb-19	5.83	7.5
201	T2L22A	MR-1186	Salimar	OPC	Chisang Khola	6-Jan-19	13-Jan-19	3-Feb-19	6.65	7.5
202	T2L25	MR-1187	Salimar	OPC	Chisang Khola	6-Jan-19	13-Jan-19	3-Feb-19	6.38	7.5
203	T3L13D	MR-1188	Salimar	OPC	Chisang Khola	6-Jan-19	13-Jan-19	3-Feb-19	5.97	7.5
204	T3L11E	MR-1189	Salimar	OPC	Chisang Khola	6-Jan-19	13-Jan-19	3-Feb-19	5.83	7.5
205	T3L9	MR-1190	Salimar	OPC	Chisang Khola	6-Jan-19	13-Jan-19	3-Feb-19	6.65	7.5
206	T2L19P	MR-1191	Salimar	OPC	Chisang Khola	6-Jan-19	13-Jan-19	3-Feb-19	6.10	7.5
207	T3L11B	MR-1192	Salimar	OPC	Chisang Khola	6-Jan-19	13-Jan-19	3-Feb-19	6.65	7.5
208	T2L24F	MR-1193	Salimar	OPC	Chisang Khola	6-Jan-19	13-Jan-19	3-Feb-19	5.97	7.5
209	T3L11B	MR-1194	Ambe Hi-Tech	OPC	Chisang Khola	7-Jan-19	14-Jan-19	4-Feb-19	6.38	7.5
210	T2L19Q	MR-1195	Ambe Hi-Tech	OPC	Chisang Khola	7-Jan-19	14-Jan-19	4-Feb-19	5.83	7.5
211	T3L13E	MR-1196	Ambe Hi-Tech	OPC	Chisang Khola	7-Jan-19	14-Jan-19	4-Feb-19	6.65	7.5
212	T2L25	MR-1197	Ambe Hi-Tech	OPC	Chisang Khola	7-Jan-19	14-Jan-19	4-Feb-19	5.83	7.5
213	T3L8	MR-1198	Ambe Hi-Tech	OPC	Chisang Khola	7-Jan-19	14-Jan-19	4-Feb-19	6.78	7.5
214	T3L13D	MR-1199	Ambe Hi-Tech	OPC	Chisang Khola	7-Jan-19	14-Jan-19	4-Feb-19	5.83	7.5
215	T3L13D	MR-1200	Ambe Hi-Tech	OPC	Chisang Khola	7-Jan-19	14-Jan-19	4-Feb-19	6.10	7.5
216	R-34	MR-1201	Ambe Hi-Tech	OPC	Chisang Khola	7-Jan-19	14-Jan-19	4-Feb-19	6.78	7.5
217	T3L13D	MR-1202	Ambe Hi-Tech	OPC	Chisang Khola	7-Jan-19	14-Jan-19	4-Feb-19	6.24	7.5
218	T3L11B	MR-1203	Ambe Hi-Tech	OPC	Chisang Khola	7-Jan-19	14-Jan-19	4-Feb-19	6.78	7.5
219	R-20	MR-1204	Ambe Hi-Tech	OPC	Chisang Khola	7-Jan-19	14-Jan-19	4-Feb-19	7.05	7.5
220	T3L6A	MR-1205	Ambe Hi-Tech	OPC	Chisang Khola	7-Jan-19	14-Jan-19	4-Feb-19	6.24	7.5
221	T2L19Q	MR-1206	Ambe Hi-Tech	OPC	Chisang Khola	7-Jan-19	14-Jan-19	4-Feb-19	6.92	7.5
222	T3L13D	MR-1207	Ambe Hi-Tech	OPC	Chisang Khola	7-Jan-19	14-Jan-19	4-Feb-19	5.97	7.5
223	T3L8	MR-1208	Ambe Hi-Tech	OPC	Chisang Khola	7-Jan-19	14-Jan-19	4-Feb-19	7.05	7.5
224	T3L6A	MR-1209	Ambe Hi-Tech	OPC	Chisang Khola	7-Jan-19	14-Jan-19	4-Feb-19	6.65	7.5
225	T3L11B	MR-1210	Ambe Hi-Tech	OPC	Chisang Khola	8-Jan-19	15-Jan-19	5-Feb-19	5.97	7.5

Contractor  ZHONGHENG CONSTRUCTION GROUP INTERNATIONAL ENGINEERING CO. LTD		Consultant  BUILDING DESIGN AUTHORITY (P) LTD IN JOINT VENTURE WITH B.N. CONSULTANCY PVT. LTD AND PLUS ENGINEERS & ARCHITECTS (P) LTD, KATHMANDU, NEPAL	
 Checked By Engineer	 Submitted By Contract Manager	 Verified By Qty Engineer/CSE	 Approved By Team Leader

REGIONAL URBAN DEVELOPMENT PROJECT											
Biratnagar Metropolitan City											
Contract No:- RUDP/ICB/BRT-02											
Summary Sheet of Mortar Test Report											
							Month		January		
							Year		2019		
							Description of Sample		Brick Wall		
S.N.	Location	Lab Ref.no.	Type of Cement	Brand of Cement	Source of Sand	Date of Casting	Date of Testing		Strength, N/mm ²		Type of Grade
							7 Days	28 Days	7 Days	28 Days	
226	T3L9	MR-1211	Ambe Hi-Tech	OPC	Chisang Khola	9-Jan-19	16-Jan-19	6-Feb-19	5.83		7.5
227	T3L11B	MR-1212	Ambe Hi-Tech	OPC	Chisang Khola	9-Jan-19	16-Jan-19	6-Feb-19	6.65		7.5
228	T2L18Y	MR-1213	Ambe Hi-Tech	OPC	Chisang Khola	9-Jan-19	16-Jan-19	6-Feb-19	6.65		7.5
229	T3L9	MR-1214	Ambe Hi-Tech	OPC	Chisang Khola	9-Jan-19	16-Jan-19	6-Feb-19	5.83		7.5
230	T2L19P	MR-1215	Ambe Hi-Tech	OPC	Chisang Khola	9-Jan-19	16-Jan-19	6-Feb-19	6.38		7.5
231	T2L25	MR-1216	Ambe Hi-Tech	OPC	Chisang Khola	9-Jan-19	16-Jan-19	6-Feb-19	7.05		7.5
232	T3L13D	MR-1217	Ambe Hi-Tech	OPC	Chisang Khola	9-Jan-19	16-Jan-19	6-Feb-19	6.38		7.5
233	R-23	MR-1218	Ambe Hi-Tech	OPC	Chisang Khola	9-Jan-19	16-Jan-19	6-Feb-19	6.24		7.5
234	R-23	MR-1219	Ambe Hi-Tech	OPC	Chisang Khola	9-Jan-19	16-Jan-19	6-Feb-19	5.83		7.5
235	R-23	MR-1220	Ambe Hi-Tech	OPC	Chisang Khola	9-Jan-19	16-Jan-19	6-Feb-19	5.83		7.5
236	T3L11E	MR-1221	Ambe Hi-Tech	OPC	Chisang Khola	10-Jan-19	17-Jan-19	7-Feb-19	6.78		7.5
237	T2L19Q	MR-1222	Ambe Hi-Tech	OPC	Chisang Khola	10-Jan-19	17-Jan-19	7-Feb-19	6.38		7.5
238	T3L8	MR-1223	Ambe Hi-Tech	OPC	Chisang Khola	10-Jan-19	17-Jan-19	7-Feb-19	7.19		7.5
239	T3L13J	MR-1224	Ambe Hi-Tech	OPC	Chisang Khola	10-Jan-19	17-Jan-19	7-Feb-19	6.24		7.5
240	T2L22A	MR-1225	Ambe Hi-Tech	OPC	Chisang Khola	10-Jan-19	17-Jan-19	7-Feb-19	5.97		7.5
241	T3L13D	MR-1226	Saptakoshi	OPC	Chisang Khola	10-Jan-19	17-Jan-19	7-Feb-19	6.10		7.5
242	T2L19Q	MR-1227	Saptakoshi	OPC	Chisang Khola	10-Jan-19	17-Jan-19	7-Feb-19	5.97		7.5
243	T3L13J	MR-1228	Saptakoshi	OPC	Chisang Khola	11-Jan-19	18-Jan-19	8-Feb-19	6.65		7.5
244	T3L9	MR-1229	Saptakoshi	OPC	Chisang Khola	11-Jan-19	18-Jan-19	8-Feb-19	5.97		7.5
245	T3L11H	MR-1230	Saptakoshi	OPC	Chisang Khola	11-Jan-19	18-Jan-19	8-Feb-19	6.51		7.5
246	T3L8	MR-1231	Saptakoshi	OPC	Chisang Khola	11-Jan-19	18-Jan-19	8-Feb-19	5.83		7.5
247	T2L22A	MR-1232	Saptakoshi	OPC	Chisang Khola	11-Jan-19	18-Jan-19	8-Feb-19	6.78		7.5
248	R-12	MR-1233	Saptakoshi	OPC	Chisang Khola	11-Jan-19	18-Jan-19	8-Feb-19	7.05		7.5
249	T3L9	MR-1234	Saptakoshi	OPC	Chisang Khola	11-Jan-19	18-Jan-19	8-Feb-19	6.65		7.5
250	T2L19P	MR-1235	Saptakoshi	OPC	Chisang Khola	11-Jan-19	18-Jan-19	8-Feb-19	7.05		7.5
251	T3L11B	MR-1236	Saptakoshi	OPC	Chisang Khola	11-Jan-19	18-Jan-19	8-Feb-19	6.38		7.5
252	R-10	MR-1237	Saptakoshi	OPC	Chisang Khola	11-Jan-19	18-Jan-19	8-Feb-19	6.10		7.5
253	T2L19P	MR-1238	Saptakoshi	OPC	Chisang Khola	11-Jan-19	18-Jan-19	8-Feb-19	6.65		7.5
254	T2L25	MR-1239	Saptakoshi	OPC	Chisang Khola	12-Jan-19	19-Jan-19	9-Feb-19	5.83		7.5
255	T2L22A	MR-1240	Saptakoshi	OPC	Chisang Khola	12-Jan-19	19-Jan-19	9-Feb-19	6.78		7.5
256	R-9(B)	MR-1241	Saptakoshi	OPC	Chisang Khola	12-Jan-19	19-Jan-19	9-Feb-19	6.65		7.5
257	T3L11H	MR-1242	Saptakoshi	OPC	Chisang Khola	12-Jan-19	19-Jan-19	9-Feb-19	5.83		7.5
258	T3L9	MR-1243	Saptakoshi	OPC	Chisang Khola	13-Jan-19	20-Jan-19	10-Feb-19	6.78		7.5
259	T3L11H	MR-1244	Saptakoshi	OPC	Chisang Khola	13-Jan-19	20-Jan-19	10-Feb-19	6.38		7.5
260	T3L8	MR-1245	Saptakoshi	OPC	Chisang Khola	13-Jan-19	20-Jan-19	10-Feb-19	6.10		7.5
261	T2L19Q	MR-1246	Saptakoshi	OPC	Chisang Khola	13-Jan-19	20-Jan-19	10-Feb-19	6.78		7.5
262	T2L25	MR-1247	Saptakoshi	OPC	Chisang Khola	13-Jan-19	20-Jan-19	10-Feb-19	5.97		7.5

Contractor		Consultant	
ZHONGHENG CONSTRUCTION GROUP INTERNATIONAL ENGINEERING CO. LTD		BUILDING DESIGN AUTHORITY (P) LTD IN JOINT VENTURE WITH B.N. CONSULTANCY PVT. LTD AND PLUS ENGINEERS & ARCHITECTS (P) LTD, KATHMANDU, NEPAL	
Checked By Engineer	Submitted By Contract Manager	Verified By Qty Engineer/CSE	Approved By Team Leader

REGIONAL URBAN DEVELOPMENT PROJECT											
Biratnagar Metropolitan City											
Contract No:- RUDP/ICB/BRT-02											
Summary Sheet of Mortar Test Report											
S.N.	Location	Lab Ref.no.	Type of Cement	Brand of Cement	Source of Sand	Date of Casting	Month		January		Type of Grade
							Year		2019		
							Description of Sample		Brick Wall		
							Date of Testing		Strength, N/mm ²		
							7 Days	28 Days	7 Days	28 Days	
263	T2L22A	MR-1248	Saptakoshi	OPC	Chisang Khola	14-Jan-19	21-Jan-19	11-Feb-19	6.92		7.5
264	T3L13D	MR-1249	Saptakoshi	OPC	Chisang Khola	14-Jan-19	21-Jan-19	11-Feb-19	5.97		7.5
265	T3L11H	MR-1250	Saptakoshi	OPC	Chisang Khola	14-Jan-19	21-Jan-19	11-Feb-19	6.78		7.5
266	T2L18Y	MR-1251	Saptakoshi	OPC	Chisang Khola	14-Jan-19	21-Jan-19	11-Feb-19	5.83		7.5
267	T2L25	MR-1252	Saptakoshi	OPC	Chisang Khola	14-Jan-19	21-Jan-19	11-Feb-19	7.05		7.5
268	R-84	MR-1253	Saptakoshi	OPC	Chisang Khola	14-Jan-19	21-Jan-19	11-Feb-19	5.83		7.5
269	T2L24F	MR-1254	Saptakoshi	OPC	Chisang Khola	14-Jan-19	21-Jan-19	11-Feb-19	7.05		7.5
270	T3L13D	MR-1255	Saptakoshi	OPC	Chisang Khola	14-Jan-19	21-Jan-19	11-Feb-19	6.78		7.5
271	T3L11E	MR-1256	Saptakoshi	OPC	Chisang Khola	14-Jan-19	21-Jan-19	11-Feb-19	6.78		7.5
272	T3L8	MR-1257	Saptakoshi	OPC	Chisang Khola	14-Jan-19	21-Jan-19	11-Feb-19	5.83		7.5
273	T3L9	MR-1258	Saptakoshi	OPC	Chisang Khola	14-Jan-19	21-Jan-19	11-Feb-19	6.10		7.5
274	R-12	MR-1259	Saptakoshi	OPC	Chisang Khola	14-Jan-19	21-Jan-19	11-Feb-19	5.83		7.5
275	T2L19P	MR-1260	Saptakoshi	OPC	Chisang Khola	14-Jan-19	21-Jan-19	11-Feb-19	6.65		7.5
276	R-20	MR-1261	Saptakoshi	OPC	Chisang Khola	14-Jan-19	21-Jan-19	11-Feb-19	7.05		7.5
277	T3L8	MR-1262	Saptakoshi	OPC	Chisang Khola	14-Jan-19	21-Jan-19	11-Feb-19	6.65		7.5
278	T3L13D	MR-1263	Saptakoshi	OPC	Chisang Khola	14-Jan-19	21-Jan-19	11-Feb-19	6.10		7.5
279	R-23	MR-1264	Saptakoshi	OPC	Chisang Khola	15-Jan-19	22-Jan-19	12-Feb-19	7.05		7.5
280	T3L6A	MR-1265	Saptakoshi	OPC	Chisang Khola	15-Jan-19	22-Jan-19	12-Feb-19	5.83		7.5
281	T3L13J	MR-1266	Saptakoshi	OPC	Chisang Khola	15-Jan-19	22-Jan-19	12-Feb-19	6.78		7.5
282	T2L22A	MR-1267	Saptakoshi	OPC	Chisang Khola	15-Jan-19	22-Jan-19	12-Feb-19	7.33		7.5
283	T3L11E	MR-1268	Saptakoshi	OPC	Chisang Khola	15-Jan-19	22-Jan-19	12-Feb-19	5.97		7.5
284	T2L24F	MR-1269	Saptakoshi	OPC	Chisang Khola	15-Jan-19	22-Jan-19	12-Feb-19	6.65		7.5
285	T1L5A	MR-1270	Saptakoshi	OPC	Chisang Khola	15-Jan-19	22-Jan-19	12-Feb-19	6.24		7.5
286	R-23	MR-1271	Saptakoshi	OPC	Chisang Khola	15-Jan-19	22-Jan-19	12-Feb-19	6.65		7.5
287	R-9(B)	MR-1272	Saptakoshi	OPC	Chisang Khola	15-Jan-19	22-Jan-19	12-Feb-19	5.83		7.5
288	T3L11D	MR-1273	Saptakoshi	OPC	Chisang Khola	15-Jan-19	22-Jan-19	12-Feb-19	6.78		7.5
289	T2L25	MR-1274	Saptakoshi	OPC	Chisang Khola	15-Jan-19	22-Jan-19	12-Feb-19	5.97		7.5
290	R-20	MR-1275	Saptakoshi	OPC	Chisang Khola	15-Jan-19	22-Jan-19	12-Feb-19	6.78		7.5
291	T3L13E	MR-1276	Saptakoshi	OPC	Chisang Khola	15-Jan-19	22-Jan-19	12-Feb-19	7.05		7.5
292	T1L5A	MR-1277	Saptakoshi	OPC	Chisang Khola	15-Jan-19	22-Jan-19	12-Feb-19	6.51		7.5
293	R-23	MR-1278	Saptakoshi	OPC	Chisang Khola	15-Jan-19	22-Jan-19	12-Feb-19	5.83		7.5
294	T2L18Y	MR-1279	Saptakoshi	OPC	Chisang Khola	15-Jan-19	22-Jan-19	12-Feb-19	7.05		7.5
295	R-34	MR-1280	Saptakoshi	OPC	Chisang Khola	15-Jan-19	22-Jan-19	12-Feb-19	6.38		7.5
296	T3L13J	MR-1281	Saptakoshi	OPC	Chisang Khola	15-Jan-19	22-Jan-19	12-Feb-19	7.05		7.5
297	T3L11D	MR-1282	Saptakoshi	OPC	Chisang Khola	15-Jan-19	22-Jan-19	12-Feb-19	6.38		7.5
298	T2L19P	MR-1283	Saptakoshi	OPC	Chisang Khola	15-Jan-19	22-Jan-19	12-Feb-19	6.51		7.5
299	T2L24F	MR-1284	Saptakoshi	OPC	Chisang Khola	15-Jan-19	22-Jan-19	12-Feb-19	6.65		7.5


Contractor  ZHONGHENG CONSTRUCTION GROUP INTERNATIONAL ENGINEERING CO. LTD	Consultant  BUILDING DESIGN AUTHORITY (P) LTD IN JOINT VENTURE WITH B.N. CONSULTANCY PVT. LTD AND PLUS ENGINEERS & ARCHITECTS (P) LTD, KATHMANDU, NEPAL
 Checked By Engineer	 Submitted By Contract Manager
 Verified By Qty Engineer/CSE	 Approved By Team Leader

REGIONAL URBAN DEVELOPMENT PROJECT

Biratnagar Metropolitan City

Contract No:- RUDP/ICB/BRT-02

Summary Sheet of Mortar Test Report

S.N.	Location	Lab Ref.no.	Type of Cement	Brand of Cement	Source of Sand	Date of Casting	Month		January	
							Year		2019	
							Description of Sample		Brick Wall	
							Date of Testing		Strength, N/mm ²	
							7 Days	28 Days	7 Days	28 Days
300	T3L8	MR-1285	Saptakoshi	OPC	Chisang Khola	15-Jan-19	22-Jan-19	12-Feb-19	7.46	7.5
301	T3L9	MR-1286	Saptakoshi	OPC	Chisang Khola	15-Jan-19	22-Jan-19	12-Feb-19	6.51	7.5
302	R-34	MR-1287	Saptakoshi	OPC	Chisang Khola	15-Jan-19	22-Jan-19	12-Feb-19	6.78	7.5
303	R-12	MR-1288	Saptakoshi	OPC	Chisang Khola	15-Jan-19	22-Jan-19	12-Feb-19	6.38	7.5
304	T3L23J	MR-1289	Saptakoshi	OPC	Chisang Khola	15-Jan-19	22-Jan-19	12-Feb-19	7.05	7.5
305	T3L8	MR-1290	Saptakoshi	OPC	Chisang Khola	15-Jan-19	22-Jan-19	12-Feb-19	6.65	7.5
306	T3L8	MR-1291	Saptakoshi	OPC	Chisang Khola	15-Jan-19	22-Jan-19	12-Feb-19	6.92	7.5
307	T3L24F	MR-1292	Saptakoshi	OPC	Chisang Khola	15-Jan-19	22-Jan-19	12-Feb-19	6.78	7.5
308	T3L8	MR-1293	Saptakoshi	OPC	Chisang Khola	15-Jan-19	22-Jan-19	12-Feb-19	5.83	7.5
309	R-10	MR-1294	Saptakoshi	OPC	Chisang Khola	15-Jan-19	22-Jan-19	12-Feb-19	6.65	7.5
310	T2L22A	MR-1295	Saptakoshi	OPC	Chisang Khola	15-Jan-19	22-Jan-19	12-Feb-19	6.38	7.5
311	T2L25	MR-1296	Saptakoshi	OPC	Chisang Khola	14-Jan-19	21-Jan-19	11-Feb-19	7.05	7.5
312	T3L13J	MR-1297	Saptakoshi	OPC	Chisang Khola	14-Jan-19	21-Jan-19	11-Feb-19	5.83	7.5
313	R-20	MR-1298	Saptakoshi	OPC	Chisang Khola	16-Jan-19	23-Jan-19	13-Feb-19	7.19	7.5
314	R-34	MR-1299	Saptakoshi	OPC	Chisang Khola	16-Jan-19	23-Jan-19	13-Feb-19	5.83	7.5
315	T3L6A	MR-1300	Saptakoshi	OPC	Chisang Khola	16-Jan-19	23-Jan-19	13-Feb-19	5.97	7.5
316	R-23	MR-1301	Saptakoshi	OPC	Chisang Khola	16-Jan-19	23-Jan-19	13-Feb-19	6.78	7.5
317	T3L6A	MR-1302	Saptakoshi	OPC	Chisang Khola	16-Jan-19	23-Jan-19	13-Feb-19	6.51	7.5
318	R-9(B)	MR-1303	Saptakoshi	OPC	Chisang Khola	16-Jan-19	23-Jan-19	13-Feb-19	6.24	7.5
319	T3L9	MR-1304	Saptakoshi	OPC	Chisang Khola	16-Jan-19	23-Jan-19	13-Feb-19	7.05	7.5
320	T2L19P	MR-1305	Saptakoshi	OPC	Chisang Khola	16-Jan-19	23-Jan-19	13-Feb-19	5.83	7.5
321	T3L11B	MR-1306	Saptakoshi	OPC	Chisang Khola	16-Jan-19	23-Jan-19	13-Feb-19	6.10	7.5
322	T2L24F	MR-1307	Saptakoshi	OPC	Chisang Khola	16-Jan-19	23-Jan-19	13-Feb-19	7.19	7.5
323	T3L11E	MR-1308	Saptakoshi	OPC	Chisang Khola	16-Jan-19	23-Jan-19	13-Feb-19	5.83	7.5
324	T2L19P	MR-1309	Saptakoshi	OPC	Chisang Khola	16-Jan-19	23-Jan-19	13-Feb-19	6.78	7.5
325	T3L11E	MR-1310	Saptakoshi	OPC	Chisang Khola	16-Jan-19	23-Jan-19	13-Feb-19	5.83	7.5
326	T2L19Q	MR-1311	Saptakoshi	OPC	Chisang Khola	16-Jan-19	23-Jan-19	13-Feb-19	6.24	7.5
327	R-12	MR-1312	Saptakoshi	OPC	Chisang Khola	16-Jan-19	23-Jan-19	13-Feb-19	5.83	7.5
328	R-23	MR-1313	Saptakoshi	OPC	Chisang Khola	16-Jan-19	23-Jan-19	13-Feb-19	7.05	7.5
329	T3L9	MR-1314	Saptakoshi	OPC	Chisang Khola	16-Jan-19	23-Jan-19	13-Feb-19	5.83	7.5
330	T3L8	MR-1315	Saptakoshi	OPC	Chisang Khola	16-Jan-19	23-Jan-19	13-Feb-19	6.65	7.5
331	T3L11E	MR-1316	Saptakoshi	OPC	Chisang Khola	16-Jan-19	23-Jan-19	13-Feb-19	6.78	7.5
332	T2L19Q	MR-1317	Saptakoshi	OPC	Chisang Khola	16-Jan-19	23-Jan-19	13-Feb-19	5.83	7.5
333	R-12	MR-1318	Saptakoshi	OPC	Chisang Khola	16-Jan-19	23-Jan-19	13-Feb-19	6.65	7.5
334	R-34	MR-1319	Saptakoshi	OPC	Chisang Khola	16-Jan-19	23-Jan-19	13-Feb-19	7.46	7.5
335	T3L11B	MR-1320	Saptakoshi	OPC	Chisang Khola	16-Jan-19	23-Jan-19	13-Feb-19	6.38	7.5
336	T3L8	MR-1321	Saptakoshi	OPC	Chisang Khola	16-Jan-19	23-Jan-19	13-Feb-19	6.38	7.5
Contractor						Consultant				
ZHONGHENG CONSTRUCTION GROUP INTERNATIONAL ENGINEERING CO. LTD						BUILDING DESIGN AUTHORITY (P) LTD IN JOINT VENTURE WITH B.N. CONSULTANCY PVT. LTD AND PLUS ENGINEERS & ARCHITECTS (P) LTD, KATHMANDU, NEPAL				
 Checked By Engineer						 Verified By Qty Engineer/CSE				
 Submitted By Contract Manager						 Approved By Team Leader				



REGIONAL URBAN DEVELOPMENT PROJECT

Biratnagar Metropolitan City

Contract No:- RUDP/ICB/BRT-02

Summary Sheet of Mortar Test Report

							Month		January		
							Year		2019		
							Description of Sample		Brick Wall		
S.N.	Location	Lab Ref.no.	Type of Cement	Brand of Cement	Source of Sand	Date of Casting	Date of Testing		Strength, N/mm2		Type of Grade
							7 Days	28 Days	7 Days	28 Days	
337	T3L11B	MR-1322	Saptakoshi	OPC	Chisang Khola	16-Jan-19	23-Jan-19	13-Feb-19	5.83		7.5
338	T2L24F	MR-1323	Saptakoshi	OPC	Chisang Khola	16-Jan-19	23-Jan-19	13-Feb-19	5.97		7.5
339	T3L9	MR-1324	Saptakoshi	OPC	Chisang Khola	16-Jan-19	23-Jan-19	13-Feb-19	6.38		7.5
340	T3L11B	MR-1325	Saptakoshi	OPC	Chisang Khola	17-Jan-19	24-Jan-19	14-Feb-19	5.83		7.5
341	T3L13P	MR-1326	Saptakoshi	OPC	Chisang Khola	17-Jan-19	24-Jan-19	14-Feb-19	6.78		7.5
342	T3L13J	MR-1327	Saptakoshi	OPC	Chisang Khola	17-Jan-19	24-Jan-19	14-Feb-19	6.24		7.5
343	R-9(B)	MR-1328	Saptakoshi	OPC	Chisang Khola	17-Jan-19	24-Jan-19	14-Feb-19	5.97		7.5
344	T3L11H	MR-1329	Saptakoshi	OPC	Chisang Khola	17-Jan-19	24-Jan-19	14-Feb-19	6.51		7.5
345	T2L19Q	MR-1330	Saptakoshi	OPC	Chisang Khola	17-Jan-19	24-Jan-19	14-Feb-19	5.97		7.5
346	T3L13D	MR-1331	Saptakoshi	OPC	Chisang Khola	17-Jan-19	24-Jan-19	14-Feb-19	5.97		7.5
347	T2L22A	MR-1332	Saptakoshi	OPC	Chisang Khola	17-Jan-19	24-Jan-19	14-Feb-19	6.65		7.5
348	T3L11B	MR-1333	Saptakoshi	OPC	Chisang Khola	17-Jan-19	24-Jan-19	14-Feb-19	5.83		7.5
349	T2L19Q	MR-1334	Saptakoshi	OPC	Chisang Khola	17-Jan-19	24-Jan-19	14-Feb-19	6.78		7.5
350	T2L19P	MR-1335	Saptakoshi	OPC	Chisang Khola	17-Jan-19	24-Jan-19	14-Feb-19	7.19		7.5
351	T2L19Q	MR-1336	Saptakoshi	OPC	Chisang Khola	17-Jan-19	24-Jan-19	14-Feb-19	6.38		7.5
352	T3L11B	MR-1337	Saptakoshi	OPC	Chisang Khola	17-Jan-19	24-Jan-19	14-Feb-19	5.97		7.5
353	T2L19P	MR-1338	Saptakoshi	OPC	Chisang Khola	17-Jan-19	24-Jan-19	14-Feb-19	7.05		7.5
354	R-12	MR-1339	Saptakoshi	OPC	Chisang Khola	17-Jan-19	24-Jan-19	14-Feb-19	5.83		7.5
355	T2L19P	MR-1340	Saptakoshi	OPC	Chisang Khola	17-Jan-19	24-Jan-19	14-Feb-19	6.78		7.5
356	T3L5A	MR-1341	Saptakoshi	OPC	Chisang Khola	17-Jan-19	24-Jan-19	14-Feb-19	6.10		7.5
357	R-12	MR-1342	Saptakoshi	OPC	Chisang Khola	17-Jan-19	24-Jan-19	14-Feb-19	5.83		7.5
358	T3L11B	MR-1343	Saptakoshi	OPC	Chisang Khola	17-Jan-19	24-Jan-19	14-Feb-19	7.33		7.5
359	T3L13J	MR-1344	Saptakoshi	OPC	Chisang Khola	17-Jan-19	24-Jan-19	14-Feb-19	6.51		7.5
360	R-12	MR-1345	Saptakoshi	OPC	Chisang Khola	17-Jan-19	24-Jan-19	14-Feb-19	5.97		7.5
361	R-23	MR-1346	Saptakoshi	OPC	Chisang Khola	17-Jan-19	24-Jan-19	14-Feb-19	6.78		7.5
362	T3L11E	MR-1347	Saptakoshi	OPC	Chisang Khola	17-Jan-19	24-Jan-19	14-Feb-19	5.83		7.5
363	R-9(B)	MR-1348	Saptakoshi	OPC	Chisang Khola	17-Jan-19	24-Jan-19	14-Feb-19	6.78		7.5
364	T3L11E	MR-1349	Saptakoshi	OPC	Chisang Khola	17-Jan-19	24-Jan-19	14-Feb-19	5.83		7.5
365	R-12	MR-1350	Saptakoshi	OPC	Chisang Khola	17-Jan-19	24-Jan-19	14-Feb-19	6.10		7.5
366	T3L11E	MR-1351	Saptakoshi	OPC	Chisang Khola	17-Jan-19	24-Jan-19	14-Feb-19	6.38		7.5
367	T3L9	MR-1352	Saptakoshi	OPC	Chisang Khola	17-Jan-19	24-Jan-19	14-Feb-19	6.65		7.5
368	T3L11E	MR-1353	Saptakoshi	OPC	Chisang Khola	17-Jan-19	24-Jan-19	14-Feb-19	5.97		7.5
369	R-12	MR-1354	Saptakoshi	OPC	Chisang Khola	17-Jan-19	24-Jan-19	14-Feb-19	6.65		7.5
370	T2L19Q	MR-1355	Saptakoshi	OPC	Chisang Khola	17-Jan-19	24-Jan-19	14-Feb-19	7.46		7.5
371	R-12	MR-1356	Saptakoshi	OPC	Chisang Khola	18-Jan-19	25-Jan-19	15-Feb-19	6.38		7.5
372	T2L25	MR-1357	Saptakoshi	OPC	Chisang Khola	18-Jan-19	25-Jan-19	15-Feb-19	6.78		7.5
373	R-9(B)	MR-1358	Saptakoshi	OPC	Chisang Khola	18-Jan-19	25-Jan-19	15-Feb-19	6.24		7.5
Contractor						Consultant					
ZHONGHENG CONSTRUCTION GROUP INTERNATIONAL ENGINEERING CO. LTD						BUILDING DESIGN AUTHORITY (P) LTD IN JOINT VENTURE WITH B.N. CONSULTANCY PVT. LTD AND PLUS ENGINEERS & ARCHITECTS (P) LTD, KATHMANDU, NEPAL					
Checked By Engineer						Submitted By Contract Manager					
Verified By Qty Engineer/CSE						Approved By Team Leader					



REGIONAL URBAN DEVELOPMENT PROJECT											
Biratnagar Metropolitan City											
Contract No:- RUDP/ICB/BRT-02											
Summary Sheet of Mortar Test Report											
							Month		January		
							Year		2019		
							Description of Sample		Brick Wall		
S.N	Location	Lab Ref.No.	Type of Cement	Brand of Cement	Source of Sand	Date of Casting	Date of Testing		Strength, N/mm ²		Type of Grade
							7 Days	28 Days	7 Days	28 Days	
374	T1L5A	MR-1359	Saptakoshi	OPC	Chisang Khola	18-Jan-19	25-Jan-19	15-Feb-19	6.65		7.5
375	T3L11B	MR-1360	Saptakoshi	OPC	Chisang Khola	18-Jan-19	25-Jan-19	15-Feb-19	6.78		7.5
376	T1L18Y	MR-1361	Saptakoshi	OPC	Chisang Khola	18-Jan-19	25-Jan-19	15-Feb-19	6.38		7.5
377	T2L22A	MR-1362	Saptakoshi	OPC	Chisang Khola	18-Jan-19	25-Jan-19	15-Feb-19	5.97		7.5
378	T2L24F	MR-1363	Saptakoshi	OPC	Chisang Khola	18-Jan-19	25-Jan-19	15-Feb-19	6.78		7.5
379	T3L13J	MR-1364	Saptakoshi	OPC	Chisang Khola	18-Jan-19	25-Jan-19	15-Feb-19	7.05		7.5
380	R-12	MR-1365	Saptakoshi	OPC	Chisang Khola	18-Jan-19	25-Jan-19	15-Feb-19	6.65		7.5
381	T2L25	MR-1366	Saptakoshi	OPC	Chisang Khola	18-Jan-19	25-Jan-19	15-Feb-19	6.24		7.5
382	T2L11Y	MR-1367	Saptakoshi	OPC	Chisang Khola	18-Jan-19	25-Jan-19	15-Feb-19	5.83		7.5
383	T3L13D	MR-1368	Saptakoshi	OPC	Chisang Khola	18-Jan-19	25-Jan-19	15-Feb-19	5.83		7.5
384	T3L11B	MR-1369	Saptakoshi	OPC	Chisang Khola	18-Jan-19	25-Jan-19	15-Feb-19	6.78		7.5
385	T2L24F	MR-1370	Saptakoshi	OPC	Chisang Khola	18-Jan-19	25-Jan-19	15-Feb-19	5.83		7.5
386	T2L22A	MR-1371	Saptakoshi	OPC	Chisang Khola	18-Jan-19	25-Jan-19	15-Feb-19	6.65		7.5
387	T2L25	MR-1372	Saptakoshi	OPC	Chisang Khola	18-Jan-19	25-Jan-19	15-Feb-19	7.05		7.5
388	T2L25	MR-1373	Saptakoshi	OPC	Chisang Khola	18-Jan-19	25-Jan-19	15-Feb-19	6.65		7.5
389	T3L9	MR-1374	Saptakoshi	OPC	Chisang Khola	18-Jan-19	25-Jan-19	15-Feb-19	5.97		7.5
390	T2L19P	MR-1375	Saptakoshi	OPC	Chisang Khola	18-Jan-19	25-Jan-19	15-Feb-19	6.78		7.5
391	T3L11B	MR-1376	Saptakoshi	OPC	Chisang Khola	18-Jan-19	25-Jan-19	15-Feb-19	5.83		7.5
392	T1L5A	MR-1377	Saptakoshi	OPC	Chisang Khola	18-Jan-19	25-Jan-19	15-Feb-19	6.65		7.5
393	T3L11E	MR-1378	Saptakoshi	OPC	Chisang Khola	18-Jan-19	25-Jan-19	15-Feb-19	6.10		7.5
394	T2L18Y	MR-1379	Saptakoshi	OPC	Chisang Khola	18-Jan-19	25-Jan-19	15-Feb-19	7.05		7.5
395	T3L13D	MR-1380	Saptakoshi	OPC	Chisang Khola	19-Jan-19	26-Jan-19	16-Feb-19	7.33		7.5
396	T3L9	MR-1381	Saptakoshi	OPC	Chisang Khola	19-Jan-19	26-Jan-19	16-Feb-19	6.10		7.5
397	T2L19P	MR-1382	Saptakoshi	OPC	Chisang Khola	19-Jan-19	26-Jan-19	16-Feb-19	5.83		7.5
398	T2L24J	MR-1383	Saptakoshi	OPC	Chisang Khola	19-Jan-19	26-Jan-19	16-Feb-19	6.24		7.5
399	T2L25	MR-1384	Saptakoshi	OPC	Chisang Khola	19-Jan-19	26-Jan-19	16-Feb-19	6.38		7.5
400	T1L5A	MR-1385	Saptakoshi	OPC	Chisang Khola	19-Jan-19	26-Jan-19	16-Feb-19	5.83		7.5
401	T3L13D	MR-1386	Saptakoshi	OPC	Chisang Khola	19-Jan-19	26-Jan-19	16-Feb-19	6.78		7.5
402	T3L13D	MR-1387	Saptakoshi	OPC	Chisang Khola	19-Jan-19	26-Jan-19	16-Feb-19	6.92		7.5
403	T2L19Q	MR-1388	Saptakoshi	OPC	Chisang Khola	19-Jan-19	26-Jan-19	16-Feb-19	7.05		7.5
404	T2L19P	MR-1389	Saptakoshi	OPC	Chisang Khola	19-Jan-19	26-Jan-19	16-Feb-19	6.10		7.5
405	T2L22A	MR-1390	Saptakoshi	OPC	Chisang Khola	19-Jan-19	26-Jan-19	16-Feb-19	7.19		7.5
406	T3L8	MR-1391	Saptakoshi	OPC	Chisang Khola	19-Jan-19	26-Jan-19	16-Feb-19	6.38		7.5
407	T3L11E	MR-1392	Saptakoshi	OPC	Chisang Khola	19-Jan-19	26-Jan-19	16-Feb-19	5.83		7.5
408	T3L11H	MR-1393	Saptakoshi	OPC	Chisang Khola	19-Jan-19	26-Jan-19	16-Feb-19	6.65		7.5
409	T3L18Y	MR-1394	Saptakoshi	OPC	Chisang Khola	19-Jan-19	26-Jan-19	16-Feb-19	5.83		7.5
410	T3L19	MR-1395	Saptakoshi	OPC	Chisang Khola	20-Jan-19	27-Jan-19	17-Feb-19	6.51		7.5
Contractor						Consultant					
ZHONGHENG CONSTRUCTION GROUP INTERNATIONAL ENGINEERING CO. LTD						BUILDING DESIGN AUTHORITY (P) LTD IN JOINT VENTURE WITH B.N. CONSULTANCY PVT. LTD AND PLUS ENGINEERS & ARCHITECTS (P) LTD, KATHMANDU, NEPAL					
Checked By Engineer		Submitted By Contract Manager		Verified By Qty Engineer/CSE		Approved By Team Leader					



REGIONAL URBAN DEVELOPMENT PROJECT

Biratnagar Metropolitan City

Contract No:- RUDP/ICB/BRT-02

Summary Sheet of Mortar Test Report

						Month		January			
						Year		2019			
						Description of Sample		Brick Wall			
S.N.	Location	Lab Ref.no.	Type of Cement	Brand of Cement	Source of Sand	Date of Casting	Date of Testing		Strength, N/mm ²		Type of Grade
							7 Days	28 Days	7 Days	28 Days	
411	T3L11B	MR-1396	Saptakoshi	OPC	Chisang Khola	20-Jan-19	27-Jan-19	17-Feb-19	5.83		7.5
412	T2L19P	MR-1397	Saptakoshi	OPC	Chisang Khola	20-Jan-19	27-Jan-19	17-Feb-19	6.51		7.5
413	T2L24F	MR-1398	Saptakoshi	OPC	Chisang Khola	20-Jan-19	27-Jan-19	17-Feb-19	5.83		7.5
414	T3L13J	MR-1399	Saptakoshi	OPC	Chisang Khola	20-Jan-19	27-Jan-19	17-Feb-19	6.10		7.5
415	T1L5A	MR-1400	Saptakoshi	OPC	Chisang Khola	20-Jan-19	27-Jan-19	17-Feb-19	5.97		7.5
416	T3L13J	MR-1401	Saptakoshi	OPC	Chisang Khola	20-Jan-19	27-Jan-19	17-Feb-19	6.24		7.5
417	T1L5A	MR-1402	Saptakoshi	OPC	Chisang Khola	20-Jan-19	27-Jan-19	17-Feb-19	6.10		7.5
418	T3L13D	MR-1403	Saptakoshi	OPC	Chisang Khola	20-Jan-19	27-Jan-19	17-Feb-19	6.78		7.5
419	T2L19P	MR-1404	Saptakoshi	OPC	Chisang Khola	20-Jan-19	27-Jan-19	17-Feb-19	5.83		7.5
420	T2L19P	MR-1405	Saptakoshi	OPC	Chisang Khola	20-Jan-19	27-Jan-19	17-Feb-19	6.65		7.5
421	T2L22A	MR-1406	Saptakoshi	OPC	Chisang Khola	20-Jan-19	27-Jan-19	17-Feb-19	5.83		7.5
422	T3L8	MR-1407	Saptakoshi	OPC	Chisang Khola	20-Jan-19	27-Jan-19	17-Feb-19	5.83		7.5
423	T3L11E	MR-1408	Saptakoshi	OPC	Chisang Khola	20-Jan-19	27-Jan-19	17-Feb-19	6.78		7.5
424	T3L11H	MR-1409	Saptakoshi	OPC	Chisang Khola	20-Jan-19	27-Jan-19	17-Feb-19	5.97		7.5
425	T2L18Y	MR-1410	Saptakoshi	OPC	Chisang Khola	20-Jan-19	27-Jan-19	17-Feb-19	6.38		7.5
426	T3L9	MR-1411	Saptakoshi	OPC	Chisang Khola	21-Jan-19	28-Jan-19	18-Feb-19	6.24		7.5
427	T2L19P	MR-1412	Saptakoshi	OPC	Chisang Khola	21-Jan-19	28-Jan-19	18-Feb-19	7.05		7.5
428	T3L11B	MR-1413	Saptakoshi	OPC	Chisang Khola	21-Jan-19	28-Jan-19	18-Feb-19	5.97		7.5
429	T2L24F	MR-1414	Saptakoshi	OPC	Chisang Khola	21-Jan-19	28-Jan-19	18-Feb-19	6.78		7.5
430	T3L13J	MR-1415	Saptakoshi	OPC	Chisang Khola	21-Jan-19	28-Jan-19	18-Feb-19	6.24		7.5
431	T2L25	MR-1416	Saptakoshi	OPC	Chisang Khola	21-Jan-19	28-Jan-19	18-Feb-19	6.78		7.5
432	T1L5A	MR-1417	Saptakoshi	OPC	Chisang Khola	21-Jan-19	28-Jan-19	18-Feb-19	6.24		7.5
433	T3L13D	MR-1418	Saptakoshi	OPC	Chisang Khola	21-Jan-19	28-Jan-19	18-Feb-19	5.83		7.5
434	T2L19P	MR-1419	Saptakoshi	OPC	Chisang Khola	21-Jan-19	28-Jan-19	18-Feb-19	6.24		7.5
435	T2L22A	MR-1420	Saptakoshi	OPC	Chisang Khola	21-Jan-19	28-Jan-19	18-Feb-19	6.78		7.5
436	T3L8	MR-1421	Saptakoshi	OPC	Chisang Khola	21-Jan-19	28-Jan-19	18-Feb-19	5.83		7.5
437	T3L11E	MR-1422	Saptakoshi	OPC	Chisang Khola	21-Jan-19	28-Jan-19	18-Feb-19	6.24		7.5
438	T3L11H	MR-1423	Saptakoshi	OPC	Chisang Khola	21-Jan-19	28-Jan-19	18-Feb-19	6.78		7.5
439	T2L18Y	MR-1424	Saptakoshi	OPC	Chisang Khola	21-Jan-19	28-Jan-19	18-Feb-19	5.97		7.5
440	T2L19P	MR-1425	Saptakoshi	OPC	Chisang Khola	22-Jan-19	29-Jan-19	19-Feb-19	5.97		7.5
441	T3L9	MR-1426	Saptakoshi	OPC	Chisang Khola	22-Jan-19	29-Jan-19	19-Feb-19	7.05		7.5
442	T3L11B	MR-1427	Saptakoshi	OPC	Chisang Khola	22-Jan-19	29-Jan-19	19-Feb-19	6.24		7.5
443	T2L24F	MR-1428	Saptakoshi	OPC	Chisang Khola	22-Jan-19	29-Jan-19	19-Feb-19	5.97		7.5
444	T3L13J	MR-1429	Saptakoshi	OPC	Chisang Khola	22-Jan-19	29-Jan-19	19-Feb-19	6.78		7.5
445	T3L13J	MR-1430	Saptakoshi	OPC	Chisang Khola	22-Jan-19	29-Jan-19	19-Feb-19	6.10		7.5
446	T2L25	MR-1431	Saptakoshi	OPC	Chisang Khola	22-Jan-19	29-Jan-19	19-Feb-19	6.65		7.5
447	T1L5A	MR-1432	Saptakoshi	OPC	Chisang Khola	22-Jan-19	29-Jan-19	19-Feb-19	6.51		7.5
Contractor						Consultant					
ZHONGHENG CONSTRUCTION GROUP INTERNATIONAL ENGINEERING CO. LTD						BUILDING DESIGN AUTHORITY (P) LTD IN JOINT VENTURE WITH B.N. CONSULTANCY PVT. LTD AND PLUS ENGINEERS & ARCHITECTS (P) LTD, KATHMANDU, NEPAL					
 Checked By Engineer						 Submitted By Contract Manager					
 Verified By Qty Engineer/CSE						 Approved By Team Leader					






Summary Sheet of Mortar Test Report



Location:-T2L26E

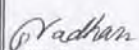

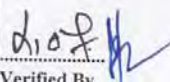



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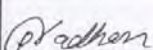
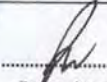
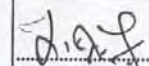
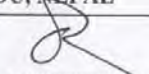
REGIONAL URBAN DEVELOPMENT PROJECT																					
Biratnagar Metropolitan City																					
Contract No: RUDP/ICB/BRT-02																					
Summary Sheet of Monthly Test Report																					
Location:- T2L26E															Month		January				
															Year		2019				
															Type of Material		Base				
S.N.	Lab.Ref no.	Location of Sample	Source of Sample	Date of Testing	Sieve Size in mm / % passing By Weight								MDD	OMC	PI%	L.A.A. %	Fl and El %	A.I.V. %	CBR %	CR%	Remarks
					40	31.5	20	10	4.75	2.36	0.6	0.075									
1	RUDP-B-01	T2L26E,(0+050)	Chisang Khola	7-Jan-19	100	91.53	70.36	49.48	34.14	25.00	14.93	5.16	2.248	5.50	NP	33.44	22.21/15.88	20.62	85.60	82.90	
					Spec. Limit :	100	85-100	62-92	40-70	26-55	21-53	12-28	2-10				< 45	< 35	< 25	> 80	> 80
Contractor										Consultant											
ZHONGHENG CONSTRUCTION GROUP INTERNATIONAL ENGINEERING CO. LTD										BUILDING DESIGN AUTHORITY (P) LTD IN JOINT VENTURE WITH B.N. CONSULTANCY PVT. LTD AND PLUS ENGINEERS & ARCHITECTS (P) LTD, KATHMANDU, NEPAL											
 Checked By Engineer										 Submitted By Contract Manager											
										 Verified By QTY Engineer/CSE											
										 Approved By Team Leader											

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REGIONAL URBAN DEVELOPMENT PROJECT											
Biratnagar Metropolitan City											
Contract No: RUDP/ICB/BRT-02											
Daily Application Rate Check for Priming work											
Type of Bitumen: 80/100 P.G											
Cutter Percentage: MC 70:MC30											
SUMMARY FOR THE MONTH OF JANUARY 2019											
SN NO	Location	Date of Priming	Station From	Station to	Side of Priming	Area of Priming	Intersection Area m2	Total Area M2	Bitumen Consumption (ltr)	Application Rate By Deep Lit/m2	Application Rate Bt Tray Test Lit/m2
1	R-37	04-Jan-19	0+000	0+256	Both Side	1111.04	0	1111.04	1200	1.08	1.05
2	R-29	05-Jan-19	0+000	0+259	Both Side	1414.14	0	1414.14	1525	1.08	1.06
3	R-8	05-Jan-19	0+000	0+228	Both Side	775.2	0	775.2	825	1.06	1.04
4	R-21(A)	06-Jan-19	0+000	0+430	Both Side	3576.6	0	3576.6	3850	1.08	1.05
5	N-36	06-Jan-19	0+000	0+180	Both Side	788.4	0	788.4	850	1.08	1.03
6	T3L26E	09-Jan-19	0+000	0+073	Both Side	352.59	0	352.59	375	1.06	1.04
7	R-63	10-Jan-19	0+000	0+200	Both Side	1462	0	1462	1600	1.09	1.04
8	B2-1	12-Jan-19	0+000	0+180	Both Side	1587.6	0	1587.6	1700	1.07	1.03
								Total	11925		
Required specification for Prime coat 1.0 Lit/M2 \pm 5% Specific Gravity of Bitumen 1.028											
Contractor						Consultant					
ZHONGHENG CONSTRUCTION GROUP INTERNATIONAL ENGINEERING CO. LTD						BUILDING DESIGN AUTHORITY (P) LTD IN JOINT VENTURE WITH B.N. CONSULTANCY PVT. LTD AND PLUS ENGINEERS & ARCHITECTS (P) LTD, KATHMANDU, NEPAL					
 Checked By Engineer						 Submitted By Contract Manager					
 Verified By QTY Engineer/CSE						 Approved By Team Leader					



REGIONAL URBAN DEVELOPMENT PROJECT																
Biratnagar Metropolitan City																
Contract No:- RUDP/ICB/BRT-02																
Summary Sheet of Monthly Test Report of Concrete Sand																
											Month	January				
											Year	2019				
											Type of Material	Concrete Sand				
S.n.	Lab.Ref no.	Date of Test	Location of Sample	Source of Sample	Sieve Size in mm / % Passing by weight							Clay Content%	Remarks			
					10	4.75	2.36	1.18	0.600	0.300	0.150					
1	RUDP-CS-227	1-Jan-19	R-12	Chisang Khola	100.00	95.63	70.36	60.25	25.27	17.01	7.29	1.17				
2	RUDP-CS-228	2-Jan-19	R-6	Chisang Khola	100.00	91.49	72.68	58.60	24.57	16.54	7.09	1.55				
3	RUDP-CS-229	3-Jan-19	koshi-yard	Chisang Khola	100.00	93.60	68.90	56.78	18.99	10.37	6.01	1.93				
4	RUDP-CS-230	6-Jan-19	T3L11E	Chisang Khola	100.00	94.52	67.11	51.21	23.25	15.57	5.70	1.27				
5	RUDP-CS-231	7-Jan-19	R-34	Chisang Khola	100.00	92.50	72.26	61.01	22.51	14.81	5.73	1.21				
6	RUDP-CS-232	8-Jan-19	T2L24F	Chisang Khola	100.00	94.28	63.21	52.00	23.41	13.70	5.39	2.11				
7	RUDP-CS-233	8-Jan-19	T2L19Q	Chisang Khola	100.00	93.22	64.48	51.38	27.24	17.01	6.09	1.13				
8	RUDP-CS-234	10-Jan-19	R-6	Chisang Khola	100.00	92.68	69.35	65.33	18.52	11.41	3.88	1.76				
9	RUDP-CS-235	11-Jan-19	R-12	Chisang Khola	100.00	92.90	67.90	60.65	21.53	14.27	4.76	0.79				
10	RUDP-CS-236	13-Jan-19	T3L9	Chisang Khola	100.00	93.16	68.95	41.89	17.29	13.60	4.53	1.48				
11	RUDP-CS-237	13-Jan-19	R-84	Chisang Khola	100.00	92.67	68.23	43.30	25.90	16.62	5.87	1.97				
12	RUDP-CS-238	14-Jan-19	T3L8	Chisang Khola	100.00	92.05	63.68	46.42	26.22	15.44	6.81	1.51				
13	RUDP-CS-239	15-Jan-19	R-23	Chisang Khola	100.00	95.34	71.66	36.03	22.67	12.75	5.67	1.21				
14	RUDP-CS-240	16-Jan-19	R-20	Chisang Khola	100.00	95.20	72.57	56.10	29.36	18.38	7.54	1.83				
15	RUDP-CS-241	16-Jan-19	T3L11H	Chisang Khola	100.00	96.85	63.91	47.51	28.61	16.93	7.74	1.37				
16	RUDP-CS-242	17-Jan-19	R-34	Chisang Khola	100.00	95.29	79.87	52.44	29.06	14.61	3.25	1.73				
17	RUDP-CS-243	18-Jan-19	T3L13D	Chisang Khola	100.00	96.54	90.56	47.24	20.73	8.24	1.93	1.63				
18	RUDP-CS-244	18-Jan-19	T3L6A	Chisang Khola	100.00	93.03	78.72	37.39	18.05	10.56	3.30	1.79				
Spec. Limit :					100	90-100	60-95	30-70	15-34	5-20	0-10	<3%				
Contractor					Consultant											
ZHONGHENG CONSTRUCTION GROUP INTERNATIONAL ENGINEERING CO. LTD					BUILDING DESIGN AUTHORITY (P) LTD IN JOINT VENTURE WITH B.N. CONSULTANCY PVT. LTD AND PLUS ENGINEERS & ARCHITECTS (P) LTD, KATHMANDU, NEPAL											
 Checked By Engineer					 Submitted By Contract Manager					 Verified By Qty Engineer/CSE					 Approved By Team Leader	

REGIONAL URBAN DEVELOPMENT PROJECT

Biratnagar Metropolitan City

Contract No:- RUDP/ICB/BRT-02

Summary Sheet of Monthly Test Report of Concrete Sand

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REGIONAL URBAN DEVELOPMENT PROJECT

Biratnagar Metropolitan City

Contract No: RUDP/ICB/BRT-02

Summary Sheet of Monthly Test Report

Location:- R5(South of DSP Road)

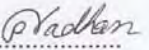


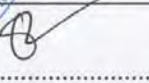
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January, 2019





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


REGIONAL URBAN DEVELOPMENT PROJECT														
Biratnagar Metropolitan City														
Contract No:- RUDP/ICB/BRT-02														
Summary Sheet of Monthly Test Report of 20mm Agg.														
					Month		January							
					Year		2019							
					Type of Material		20 mm Agg							
S.n.	Lab.Ref no.	Date of Testing	Location of Sample	Source of Sample	Sieve Size in mm / % Passing by				L.A.A.%	Fl and El %	A.I.V.%	Remarks		
					40	20	10	4.75						
1	RUDP-CA-227	2-Jan-19	R-23	Chisang Khola	100.00	96.70	40.56	1.73	26.96	21.02/19.50	21.25			
2	RUDP-CA-228	4-Jan-19	DDC Yard	Chisang Khola	100.00	97.31	37.89	1.57	25.18	20.86/18.26	21.80			
3	RUDP-CA-229	4-Jan-19	Koshi Yard	Chisang Khola	100.00	97.66	37.38	1.35	27.76	20.03/16.19	18.04			
4	RUDP-CA-230	5-Jan-19	T2I24F	Chisang Khola	100.00	97.12	41.53	1.28	26.02	20.10/17.93	19.20			
5	RUDP-CA-231	5-Jan-19	Madhumara yard	Chisang Khola	100.00	97.51	41.01	2.36	27.10	19.89/17.49	19.91			
6	RUDP-CA-232	6-Jan-19	T3L11E	Chisang Khola	100.00	96.99	40.40	2.41	26.74	19.96/16.99	21.02			
7	RUDP-CA-233	7-Jan-19	T2L19Q	Chisang Khola	100.00	97.04	34.91	2.62	25.90	20.05/18.97	21.78			
8	RUDP-CA-234	8-Jan-19	R-6	Chisang Khola	100.00	96.18	34.09	1.13	26.10	20.61/19.44	20.18			
9	RUDP-CA-235	9-Jan-19	R-12	Chisang Khola	100.00	96.61	41.38	3.24	22.88	21.23/16.68	20.23			
10	RUDP-CA-236	10-Jan-19	T3L9	Chisang Khola	100.00	96.30	41.74	2.83	24.12	20.17/17.73	22.27			
11	RUDP-CA-237	13-Jan-19	T3L8	Chisang Khola	100.00	96.11	36.67	3.69	27.02	21.43/17.62	19.92			
12	RUDP-CA-238	14-Jan-19	R-84	Chisang Khola	100.00	97.16	40.83	2.10	24.12	19.51/16.61	21.82			
13	RUDP-CA-239	15-Jan-19	R-20	Chisang Khola	100.00	96.64	39.22	3.00	26.20	18.90/16.29	21.12			
14	RUDP-CA-240	15-Jan-19	T3L11H	Chisang Khola	100.00	97.96	42.69	3.12	25.04	19.24/18.72	23.50			
15	RUDP-CA-241	16-Jan-19	R-34	Chisang Khola	100.00	98.35	43.76	3.21	26.52	20.92/18.67	20.94			
16	RUDP-CA-242	17-Jan-19	T313D	Chisang Khola	100.00	97.27	47.44	3.74	20.90	18.06/17.07	19.94			
17	RUDP-CA-243	17-Jan-19	T313D	Chisang Khola	100.00	97.00	47.09	3.00	25.12	18.17/16.37	22.30			
18	RUDP-CA-244	17-Jan-19	T316A	Chisang Khola	100.00	97.52	28.64	1.77	25.90	21.05/18.21	19.69			
19	RUDP-CA-245	18-Jan-19	T3L13J	Chisang Khola	100.00	98.76	30.3	2.01	26.96	20.60/18.33	21.95			
Spec. Limit :					100	95-100	25-55	0-10	<35	<25	<25			
Contractor					Consultant									
ZHONGHENG CONSTRUCTION GROUP INTERNATIONAL ENGINEERING CO. LTD					BUILDING DESIGN AUTHORITY (P) LTD IN JOINT VENTURE WITH B.N. CONSULTANCY PVT. LTD AND PLUS ENGINEERS & ARCHITECTS (P) LTD, KATHMANDU, NEPAL									
 Checked By Engineer					 Submitted By Contract Manager					 Verified By Qty Engineer/CSE			 Approved By Team Leader	

Contract No:- RUDP/ICB/BRT-02

Summary Sheet of Monthly Test Report of 20mm Agg.

Summary Sheet of Monthly Test Report of Soil Sample										Month	January		
										Year	2019		
										Type of Material	20 mm Agg		
S.n.	Lab.Ref no.	Date of Testing	Location of Sample	Source of Sample	Sieve Size in mm / % Passing by				L.A.A.%	Fl and El %	A.I.V.%	Remarks	
					40	20	10	4.75					
20	RUDP-CA-246	18-Jan-19	T2L19P	Chisang Khola	100.00	96.55	32.05	2.75	24.32	21.01/19.60	21.96		
21	RUDP-CA-247	20-Jan-19	T2L22A	Chisang Khola	100.00	97.36	30.01	2.96	26.10	20.93/19.64	21.56		
22	RUDP-CA-248	22-Jan-19	R-10	Chisang Khola	100.00	97.18	47.88	7.76	30.02	17.77/16.26	21.87		
23	RUDP-CA-249	22-Jan-19	T3L13E	Chisang Khola	100.00	97.57	37.38	6.31	24.12	22.01/19.72	20.91		
24	RUDP-CA-250	22-Jan-19	T2L18Y	Chisang Khola	100.00	97.64	40.06	3.44	24.24	19.65/17.95	17.97		
25	RUDP-CA-251	23-Jan-19	T2L25	Chisang Khola	100.00	96.65	34.94	3.35	23.72	19.73/18.92	23.14		
26	RUDP-CA-252	23-Jan-19	DDC yard	Chisang Khola	100.00	96.21	39.12	2.28	20.84	20.63/17.90	20.42		
27	RUDP-CA-253	25-Jan-19	T3L11B	Chisang Khola	100.00	96.64	44.07	2.44	26.96	21.00/17.91	20.56		
28	RUDP-CA-254	26-Jan-19	Madhumara yard	Chisang Khola	100.00	96.71	33.13	5.01	25.72	20.39/17.10	19.14		
29	RUDP-CA-255	28-Jan-19	DDC yard	Chisang Khola	100.00	96.65	39.70	5.03	27.18	18.49/15.36	18.70		
Spec. Limit :					100	95~100	25~55	0~10	<35	<25	<25		
Contractor					Consultant								
ZHONGHENG CONSTRUCTION GROUP INTERNATIONAL ENGINEERING CO. LTD					BUILDING DESIGN AUTHORITY (P) LTD IN JOINT VENTURE WITH B.N. CONSULTANCY PVT.LTD AND PLUS ENGINEERS & ARCHITECTS (P) LTD, KATHMANDU, NEPAL								
<div>Checked By Engineer</div>					<div>Submitted By Contract Manager</div>					<div>Verified By Qty Engineer/CSE</div>			<div>Approved By Team Leader</div>
													



Project: Regional Urban Development Project (RUDP)																
SUMMARY OF HOT MIX ASPHALT CONCRETE WEARING COURSE																
FOR THE MONTH OF JANUARY 2019																
Test Result BY MARSHALL METHOD (AASHTO T 245-78)																
Contract Package: RUDP-ICB/BRT/02														P.g 1 of 1		
S. No.	LAB REF. NO.	Date of Laying	Location of Work ch:	Mix Agg Gradation % Passing Sieve Sizes mm						Bitumen Content From Extraction Test %	Mix Density gm/cc	Air Voids %	VMA %	Stability N	Flow mm	
				20	40	75	150	300	600							1175
1	48	7/1/2019	R-8,R-29& N-36CH:0+000 to 0+228,0+000 to 0+259&0+000 to 0+185	100	100	78.79	56.31	35.10	16.65	6.26	5.70	2.362	3.72	16.82	11935	2.42
2	49	8/1/2019	R-21,CH:0+000 to 0+430	100	100	78.90	56.63	35.31	16.75	6.57	5.71	2.365	3.58	16.72	12230	2.47
3	50	11/1/2019	T2L26E&R-63,CH:0+000 to 0+073&0+000 to 0+200	100	100	78.79	56.72	35.51	17.05	6.44	5.73	2.372	3.23	16.46	10897	2.50
4	51	13/1/2019	B2-1,CH:0+000 to 0+180	100	100	78.78	56.62	35.81	17.14	6.32	5.75	2.369	3.37	16.32	11534	2.42
Specifications				100	100-100	76-82	54-59	33-37	16-21	6 to 9	5.703	Min 2.358	3-6%	≥ 16	≥ 8500	2-3
Job Mix Tolerances from RUDP Specification Table 2-4-10				±5%	Nil	±5%	±3%	±2%	±1%	Nil	±0.3%	For (25-51)mm Thickness W/C Course				
REMARKS:																
Test Conducted /Report Prepared by:  Sr. Lab Technician Lab Technician Kalika Construction Biratnagar, Site Lab JUDI				Contractor Reps Submitted By:  Contract Manager Zhongheng Construction Group International Engineering Co., Ltd						Consultant Rep Verified by/ Approved by:  BUILDING DESIGN AUTHORITY (P) LTD IN Joint Venture With B.N. Consultancy PVT. LTD AND PLUS Engineers AND Architects (P) LTD Kathmandu NEPAL						

REGIONAL URBAN DEVELOPMENT PROJECT

Biratnagar Metropolitan City

Contract No: RUDP/ICB/BRT-02

Summary Sheet of Monthly Test Report

Location:- T2L26E

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ANNEX-4: SOCIALSAFEGUARD
MONITORING/ENVIRONMENTAL MONITORING FORMATS
ATTACHED



Regional Urban Development Project(RUDP)
Social Safeguard Monitoring
Inventory of Social Facilities

1.General Information

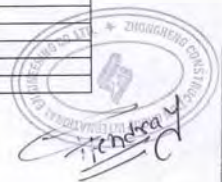
Subproject: -RUDP/ICB/BRT/2

Name of Contractor: ZHONGGHENG Construction Group International Engineering Co pvt. Beijing China.

Month/Year: -Jan 2019

Contract Package: RUDP/ICB/BRT/2

S.NO	LOCATION	TYPES OF WORK	TYPES OF WORKERS	LABOUR SKILLED	UNSKILLED	COMPOSITION MALE	FEMALE	ETHNIC COMPOSITION JANIATI	DALIT	MUSLIM	MADHESI	BRAHMIN/CHHETRI
1	R106	DRAIN	LOCAL									
			NON LOCAL									
			INDIAN	7	20	27				10		17
			TOTAL	27								
2	MADHUMARA	PRODUCTION	LOCAL									
			NON LOCAL	15	23	38		25				13
			INDIAN									
			TOTAL	38								
3	T3L11H	DRAIN	LOCAL									
			NON LOCAL	10	40	50		10	10			30
			INDIAN									
			TOTAL	50								
4	T3L11B	DRAIN	LOCAL	4	3	7						
			NON LOCAL									
			INDIAN									
			TOTAL	7								
5	T1L13A	DRAIN	LOCAL									
			NON LOCAL	5	12	17						17
			INDIAN									
			TOTAL	17								
6	R12	HOUSE CONNECT	LOCAL	2	9	11						11
			NON LOCAL									
			INDIAN									
			TOTAL	11								
7	T3L8	HOUSE CONNECT	LOCAL	2	5	7						7
			NON LOCAL									
			INDIAN									
			TOTAL	7								
8	T3L9A	HOUSE CONNECT	LOCAL	3	9	12						12
			NON LOCAL									
			INDIAN									
			TOTAL	12								
9	R84	DRAIN	LOCAL									
			NON LOCAL	5	12	17		5				12
			INDIAN									
			TOTAL	17								
10	R12	DRAIN	LOCAL									
			NON LOCAL	6	15	21		4	6	5		6
			INDIAN									
			TOTAL	21								
11	R87	SUB-BASE	LOCAL	2	7	9					3	6
			NON LOCAL									
			INDIAN									
			TOTAL	9								
12	R12	SUB-BASE	LOCAL	1	6	7					2	5
			NON LOCAL									
			INDIAN									
			TOTAL	7								
13	S13	DRAIN RISE	LOCAL									
			NON LOCAL	7	24	31		10	5			16
			INDIAN									
			TOTAL	31								
14	S13		LOCAL									
			NON LOCAL	5	18	23		5	10	3		5
			INDIAN									
			TOTAL	23								
15	DDC YARD	PRODUCTION	LOCAL									
			NON LOCAL	6	22	28		10	5			13
			INDIAN									
			TOTAL	28								
16	T3L7	SEWER	LOCAL									
			NON LOCAL	2	7	9						9
			INDIAN									
			TOTAL	9								






4.4	Use of private land and agreement with land owners	movement Yes	
5	Air, Noise and Water Pollution		
5.1	Dust emission and Noise pollution sites	Water sprinkled by tanker 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	
8.3	Access road	Not Applicable	
8.4	Electric/Telephone pole	Not Applicable	
8.5	Others	Not Applicable	
9	Sites for cultural and religious values		
9.1	Cultural and religious sensitive spots (if any)	Not Applicable	
10	Forest and vegetation		
10.1	Number of trees removal	00	
10.2	No of tree plantation (Roadside)	Not Applicable	
11	Accident cases and records	No any records	
12	Employment to local people		
12.1	Men and women	Yes, both men and women	
12.2	Child labor (if any)	No	
13	Establishment of Safeguard desk and meeting	Yes	
14	Grievances from local people and addressed	Yes	



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: Jan 2019

Checklist

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



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

Subproject Road : -RUDP/ICB/BRT/2

Month/Year: Jan 2019

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

Contract Package: RUDP/ICB/BRT/2

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

Prepared by:



Verified by:

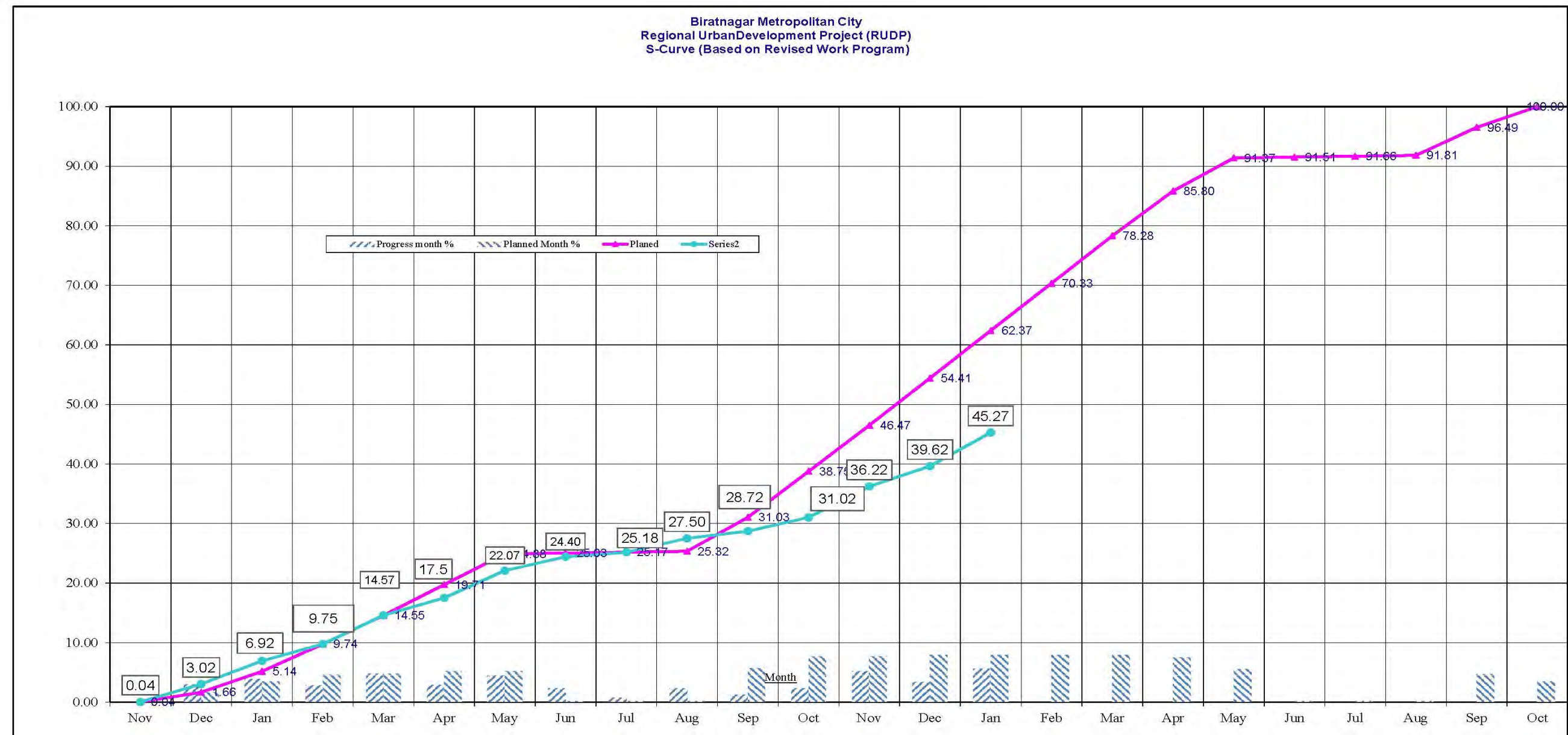
Monitored by:



ANNEX-5: S-CURVE

Attached





Year/Month	2017						2018						2019											
	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct
Planned Month %	0.04	1.63	3.48	4.60	4.80	5.17	5.17	0.15	0.15	0.15	5.71	7.72	7.72	7.95	7.96	7.96	7.96	7.51	5.57	0.15	0.15	0.15	4.69	3.51
Progress month %	0.04	2.98	3.90	2.83	4.82	2.93	4.57	2.32	0.78	2.32	1.22	2.30	5.20	3.40	5.65									
Planned Cum %	0.04	1.66	5.14	9.74	14.55	19.71	24.88	25.03	25.17	25.32	31.03	38.75	46.47	54.41	62.37	70.33	78.28	85.80	91.37	91.51	91.66	91.81	96.49	100.00
Progress Cum%	0.04	3.02	6.92	9.75	14.57	17.50	22.07	24.40	25.18	27.50	28.72	31.02	36.22	39.62	45.27									
planned month Amount in 100000	8.63	375.58	803.89	1063.54	1109.65	1193.63	1194.23	33.70	33.70	33.70	1320.43	1782.81	1783.51	1836.66	1838.96	1838.26	1838.32	1736.00	1286.85	34.01	34.00	34.00	1082.59	810.36
Achieved Month Amount in 100000	8.63	688.59	901.17	653.93	1113.76	677.04	1056.66	537.16	180.23	536.08	281.91	531.46	1202.12	785.64	1305.55									
planned Cum Amount in 100000	8.63	384.21	1188.10	2251.64	3361.29	4554.92	5749.15	5782.85	5816.55	5850.25	7170.68	8953.49	10737.00	12573.66	14412.62	16250.88	18089.20	19825.20	21112.06	21146.06	21180.06	21214.07	22296.65	23107.01
Achieved Cum Amount in 100000	8.63	697.22	1598.39	2252.32	3366.08	4043.11	5099.78	5636.94	5817.17	6353.26	6635.16	7166.62	8368.75	9154.38	10459.93									

ANNEX-6: MASTER PLAN OF RUDP PROJECT



