

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



April 2018
Biratnagar Metropolitan City (BMC), Nepal

Table of Contents

1.	EXECUTIVE SUMMARY	I
2.	PROJECT DESCRIPTION	1
2.1	INTRODUCTION/BACKGROUND	1
3.	CONTRACT DATA: - RUDP/ICB/BRT/2	2
4	SUMMARY OF PROGRESS STATUS OF ALL MAJOR COMPONENTS	-
4.		
5.	SUB PROJECT COMPONENTS	4
	5.1 SEWER LINES.	4
	5.2 STORM WATER DRAIN	(
	5.3 ROADS AND LANES	
	5.4 ROAD SIDE DRAIN	
	5.5 ENVIRONMENTAL ASPECT	
	5.6 SOCIAL ASPECT	
	5.7 FINANCIAL PLAN	
6.	DISBURSEMENT RECORDS IN CONSTRUCTION	15
7.	OBJECTIVES AND SCOPE OF WORKS	15
	7.1 OBJECTIVES	1!
	7.2 SCOPE OF WORKS	
8.	PROGRESS OF SUB – PROJECT COMPONENTS	
	8.1 CONSTRUCTION MATERIALS	16
9.	CONSULTANT	
<i>,</i> .		
	9.1 ORGANIZATION AND STAFFING	
	9.2 CONSULTANT'S ACTIVITIES IN CONSTRUCTION PHASE	
	9.3 Key Events	
10.	CONTRACTOR'S MANPOWER	22
11.	WORK PLAN FOR THE NEXT MONTH	25
12.	ANNEX-1: Photographs of April, 2018	26
13.	ANNEX-2: MINUTES OF MEETING APRIL, 2018	33
14.	ANNEX-3: Laboratory Test Results of April, 2018	37
15.	ANNEX-4: Social Safeguard Monitoring Environmental Monitoring Formats	68
16.	ANNEX-5: S-Curve	76
17	ANNEY- 6: MASTED DI ANI OF DI IDD DEGIT	79

EXECUTIVE SUMMARY

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

- 1. **Introduction**/ **Background-** It provides brief Account of the Project and its Background stating why, how and when the Project was started in Biratnagar Metropolitan City.
- 2. Salient Feature of Contract Package: RUDP/ICB/BRT/2- It provides brief Account of Contract Data with Major components of works to be carried out.
- **3. Sub Project Components-** It provides brief Account of various Sectors of the Project component summarizing the respective Progress such as Sewer Line, Storm Water Drain, Road side Drain, Roads and Lanes and Electrification Work if any. This Chapter further covers Environment Mitigation Measures and Social Safeguard measures.
- **4. Objective and Scope of Works-** This Chapter briefly describes the expected output of the Project and Scope of Consultant regarding execution of Work.
- 5. Progress of Sub Project Components- This Chapter comprises the status of Work stating what kind of work is being under Progress and how much Progress has been achieved till date. It further elaborates on the status of actual achievement versus the Targeted achievement till date. Having said that, the Progress may get affected by unpredicted events frequently occurring in case of our Country Nepal so such events are also enlisted for viewing the reasons behind affected Progress.
- **6. Details of Pre Cast Activities-** Details of Precast activities are also provided in this Chapter in order to demonstrate the Progress by the Contractor. Since in Urban Sector the Work is required to conduct in speedy manner, Precast work is best alternate to be provided. Hence, the details of Precast activities have been provided in order to determine whether the Contractor is able to meet the Schedule or not.
- 7. Contractor's Manpower and Contractor's Equipment- Chapter 8 and Chapter 9 deal with summary of Manpower and Equipment stating whether Resources owned by the Contractor are sufficient for the execution of Contract. The Resource owned by the Contractor has met 100% expectancy with respect to its targeted schedule for the month of April 2018 whether it is in the case of usage of Labour or Equipment. However, the Contractor seemed unable to manage the Resources in order to achieve the Target this month.



2. PROJECT DESCRIPTION

2.1 INTRODUCTION/BACKGROUND

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

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

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



3. CONTRACT data: - RUDP/ICB/BRT/2

General Features						
Name of Project	Regional Urban Development Project(RUDP)					
	Government of Nepal,					
Evacuting Agangy	Ministry of Urban Development					
Executing Agency	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 Improvement (Asphalt)	6.86%					
Sewer Line	20.14%					
Storm Drain	63.56%					
Road Side Drain	33.84%					
Physical Progress up to date	Planned: 19.71%, Actual: 17.50%; Lag by 2.21%					
	S curve attached					



4. Summary of Progress Status of all major components

S.No	Description	Unit	BoQ Quantity	Progress up to date	Remarks
1	Sewer Line	0			
а	HDPE/RCC	m	20082	4045	20.14%
b	Manhole	No.	656	136	20.73%
2	Storm Water Drain				
а	RCC Drain	m	652	415	63.65%
b	Piles	No.	132	138	100%
3	Road				
а	Subgrade	m	73086	18862	25.81%
b	Subbase	m	73086	17199	23.53%
С	Base	m	73086	18576	25.42%
d	Prime	m	73086	5547	7.59%
e	Asphalt	m	73086	5017	6.86%
4	Road Side Drain	m	26050	8814	33.83%



SUB PROJECT COMPONENTS

5.1 SEWER LINES

Surveying works going on after identifying the all sewer lines i.e. T1, T2, T3, and T4. Production of manhole cover, precut are also going on. Laying of RCC Hume pipe as well as HDEP are going on at T3 Trunk line, T3 line 6A, T3 line 11 etc

Table 1: PROPOSED SEWER LINES

S. NO.	Description	Unit	Original Quantity
1	Sewerage Pipe Supply and Installation	m	20,082.00
	Reinforced Concrete Pipe laying and jointing		2241.00
	Line T2 (Secondary)	m	206.00
	Line T3 (Trunk)	m	1905.00
	Line T4 (Trunk)	m	130.00
	HDPE laying and jointing	m	17,841.00
	Line T1 (Secondary)	m	1,825.00
	Line T2 (Secondary)	m	3,927.00
	Line T3 (Secondary)	m	9,997.00
	Line T4 (Secondary)	m	2,902.00
2	Manhole (Brick / RCC)	no.	685.00
3	Sewer Inlet	no.	1,010.00
4	House Connection	no.	3,784.00
5	Reinstatement of Roads	km	73.86
6	Road side Drain	Km	26.05
7	Storm Water Drain	m	652.8

Table: - 2 PHYSICAL PROGRESS IN SEWER LINES till April, 2018

		Во	ρQ	Up to I	Pre Month	This month		Total	to date	Progress
SN	Locations	Length (m)	Manhol e (no)	Lengt h(m)	Manhole (no)	Length (m)	Manhol e (no)	Lengt h (m)	Manhol e (no)	%
1	Hume pipe(T2)	206	6							
2	Hume pipe(T3)	1905	58			172		172		
3	Hume Pipe (T4)	130	4	326	11	0	0	326	11	
	Subtotal in (m)	2241	68	326	11	172	0	498	11	
1	HDPE(T1)	1825	57			208	6	208	6	
2	HDPE(T2)	3927	147	919	31	648	24	1567	55	
3	HDPE(T3)	9997	316	665	25	541	19	1206	44	
4	HDPE(T4)	2092	68	566	14	0	0	566	14	
	Subtotal in (m)	17841	588	2150	76	1397	49	3547	119	
	Total	20082	656	2476	87	1569	49	4045	136	20.14%
	Sewer Inlet	BoQ	(no)	Up to I	Pre Month	This month		Total to date		Progress %
1	Sewer inlet	10	10							
2	House connection	37	84							

5.2 STORM WATER DRAIN

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

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

		Proposed	Progre	ess	Total till	
SN	Location	Length in (m)	Up to previous month in (m)	This month in (m)	date (m)	Progress %
1	Chyangbari Nala	652.89	325	90	415	Construction of drain works going on (63.56% completed)
2	Chyangbari Nala	132 nos piles	138	-	138 nos	Piling works completed

5.3 ROADS AND LANES

Most of the roads/lanes in Biratnagar are in a poor state due to lack of periodic maintenance, and need improvement where as some of the roads are graveled and would benefit from upgrading. In the areas where drainage and sewerage works are proposed there will be significant impact on the existing roads. The Project has considered on design based on reinstatement, rehabilitation and upgrading of existing roads length 73.86 km. The Contractor has started detail survey work for upgrading the deteriorated pavement surface.

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

				Progress in (r		Total		
SN	Road Number	Road Name	Proposed Length(m)	Upto previous month	This month	till date	Progress %	
1	R3A	Madhumara Marg	600	600	0	600	(100%)Sub grade,	
2	R42	Bhagwati Marg	218	218	0	218	(100%)Sub grade,	
3	R104	VIP Marg	273	273	0	273	(100%)Sub grade	
4	Rani site	Rani	4023	1702	0	1702	(42.30%)Sub grade,	
5	R37	Banglamukhi Marg	420	471	0	471	(100%)Sub grade,	
6	R5	College Road	970	970	0	970	(100%)Sub grade,	
7	R16	Satya Marg	604	575	29	604	(95.2%)Sub grade,	
8	R21	Pratibha Marg	1320	1320	0	1320	(71.96%)Sub grade,	
9	R25	Devi Marg	599	580	0	580	(96.82%)Sub grade,	
10	R24	Prabhat Marg	384.41	380	0	380	(98.71%)Sub grade,	
11	R28	Pustakalaya Marg	635	586	49	635	(100%)Sub grade,	
12	R27	Peepal Marg	810	810	0	810	(100%)Sub grade,	

				Progress in (r		T- (-1	
SN	Road Number	Road Name	Proposed Length(m)	Upto previous month	This month	Total till date	Progress %
13	R26	Pasang Marg	617	617	37	617	(100%)Sub grade
14	B1	Kanchan-Kesalya Marg	1172.94	1173	0	1173	(100%)Sub grade,
15	B2	Chadani Marga/Shiromani Patha/Shiva-Gauri Shankar Marg	2777.83	2152	0	2152	(77.5%)Sub grade,
16	ВЗ	Keshaliya Marg	1574	1574	0	1574	(100%)Sub Grade ,
17	S11	Samrat Marg	660	660	0	660	(100%)Sub Grade,
18	S13	Sumarga/Puspa Marga	1617	1417	0	1417	(87.63%)Sub Grade,
19	R114	Dharanidhar Marg	320	320	0	320	(100.00%) Sub Grade,
20	R12	Kanchha Dai Marg/Sukra Patha	1192	837	0	837	(70.21%)Sub Grade
21	R5a	Satya narayan Marga	370	370	0	370	(100%)Sub Grade
22	R113	Kavi Lekhnath Marg	420	420	0	420	(100%)Sub Grade
23	R65	Satgumti Marga	282	320	0	320	(100%)Sub Grade
24	R107	Samudhaya Patha	170	170	0	170	(100%)Sub Grade
25	R107 a		50	50	0	50	(100%)Sub Grade
26	R24	Prabhat Marg	384.41	380	0	380	(99.00%)Sub Base
27	R25	Devi Marg	599	580	0	580	(96.83%)Sub Base

				Progress in (r		Total	
SN	Road Number	Road Name	Proposed Length(m)	Upto previous month	This month	till date	Progress %
28	R26	Pasang Marg	617	580	37	617	(100%)Sub Base
29	R27	Peepal Marg	810	580	230	810	(100%)Sub Base
30	R28	Wachanalaya Marga	635	343	0	343	(54.00%)Sub Base
31	Rani site	PrajatantraMarga/Rajabirat Marga/Manda Marga/Taxi Stand Marga/Panchawati/New Mahendra Marga	4023	1702	0	1702	(42.3%)Sub Base
32	R37	Banglamukhi Marg	420	471	0	471	(100%)Sub Base
33	R65	Satgumti Marga	282	320	0	320	(100%)Sub Base
34	R42	Bhagwati Marg	218	218	0	218	(100%)Sub Base
35	R104	VIP Marg	273	273	0	273	(100%)Sub Base
36	B1	Kanchan-Kesalya Marg	1172.94	1150	23	1173	(100%) subbase
37	B2	Chadani Marga/Shiromani Patha/Shiva-Gauri Shankar Marg	2777.83	1448	0	1448	(77.47%) Sub Base
38	S11	Samrat Marg	660	660	0	660	(100%) Sub Base
39	S13	Sumarga/Puspa Marga	1616.26	1417	0	1417	(187.63%)Subbase
41	R12	Kanchha Dai Marg	1192	837	0	837	(70.22%)Sub Base
43	R5	College Road	970	970	0	970	(100.00%)Sub Base

				Progress in (r		Total	
SN	Road Number	Road Name	Proposed Length(m)	Upto previous month	This month	Total till date	Progress %
44	R16	Shiv Marg	604	575	29	604	(100%)Sub Base
45	R21	Pratibha Marg	1320	950	0	950	(71.96%)Sub Base
46	ВЗ	Keshaliya Marg	1574	1574	0	1574	(100%)Sub Base
47	R3A	Madhumara Marg	600	600	0	600	(100%)Sub Base
48	R107	Samudhaya Patha	170	170	0	170	(100%)Sub Base
49	R107a		50	50	0	50	(100%)Sub Base
50	R5a	Satyanarayan Marga	370	370	0	370	(100%)Sub Base
46	B1	Kanchan-Kesalya Marg	1172.94	1150	23	1173	(98.04%) Base
47	B2	Chadani Marga/Shiromani Patha/Shiva-Gauri Shankar Marg	2777.83	2152	0	2152	(100%) Base
48	ВЗ	Keshaliya Marg	1574	1574	0	1574	(100%) Base
49	S11	Samrat Marg	660	660	0	660	(100%) Base
50	S13	Sumarga/Puspa Marga	1617	1417	0	1417	(87.63%) Base
51	R114	Dharanidhar Marg	320	320	0	320	(100.00%) Base
52	R12	Kanchha Dai Marg	1192	660	177	837	(70.22%) Base
53	R113	Kavi Lekhnath Marg	420	420	0	420	(100%) Base
54	R5	Purano College Road	970	603	367	970	(100%) Base
55	R16	Satya Marg	604	604	0	604	(100%) Base

				Progress in (r			
SN	Road Number	Road Name	Proposed Length(m)	Upto previous month	This month	Total till date	Progress %
56	R21	Pratibha Marg	1320	1320	0	1320	(100%)Base
57	R24	Prabhat Marg	384.41	380	0	380	(100%) Base
58	R25	Devi Marg	Devi Marg 599 580 0		580	(96.82%) Base	
59	R26	Pasang Marg	Pasang Marg 617 580 0		580	(94%) Base	
60	R27	Peepal Marg	810	580	0	580	(71.61%) Base
61	R28	Wachanalaya Marg	635	635	0	635	(54.44%) Base
65	R37	Banglamukhi Marg	477	471	0	471	(100%) Base
66	R3A	Madhumara Marg	600	600	0	600	(100%) Base
67	R42	Bhagwati Marg	218 196 22		22	218	(100%) Base
68	R104	VIP Marg	273	273	0	273	(100%) Base
69	Rani	Rani	4023	1702	0	1702	(42.30%) Base

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

SN	Description	Unit	Proposed	Total Up to Previous Month	This Month	Total Up to this Month	Progress
1	Subgrade	m	73086	18747	115	18862	25.8%
2	Sub Base	m	73086	16880	319	17199	23.53%
3	Base	m	73086	18010	566	18576	25.41%
4	Prime	m	73086	2177	3370	5547	7.59%
5	Asphalt	m	73086	1070	3947	5017	6.86%

5.4 ROAD SIDE DRAIN

The Road side drain at various location has been provisioned in Regional Urban Development Project (RUDP). The proposed length of Side drain works is 26.05 Km among which the contractor has already completed **8.814 Km**.

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

SN	Road	Road Name	Proposed	Progress Length in (m)		Total	Progress %
3/4	Number		Length(m)	Previous month	This month	to date	r rogress //
1	B1	Kanchan- Kesalya Marg	-	90	-	90	100.00%
2	R29	Shanti Marg	620	540	-	540	87.10%
3	N36		-	316	-	316	100.00%
4	R8	APF	540	460	-	460	100.00%
5	R7	Manakaman a Marg	480	180	137	317	66.04%
6	R9	Fanindra Marg	240	208	-	208	86.67%
7	S13	Sumarga/Pu spa Marga	110	110	-	110	100.00%
8	N33		-	70	-	70	
9	R28	Pustakalaya Marg	640	270	-	270	4218.00%
10	R90	Shakti Marg	620	620	-	620	100.00%
11	R114	Dharanidhar Marg	530	530	-	530	100.00%
12	R18		762	762	-	762	100.00%
13	R17		680	340	-	340	50.00%
14	R113	Kavi Lekhnath Marg	-	200	-	200	
15	R77	Arniko Marg	160	160	-	160	100.00%
16	R76	Mitra Marg	540	540	-	540	100.00%
17	N9	Fanindra Marg	480	240	340	580	100.00%
18	N4		250	125	-	125	50.00%
19	R33	Tarun Marg	354	177	-	177	50.00%
20	R36	Gaurav Marg	450	225	-	225	50.00%
21	R86	Janpath Marg	400	200	172	372	93.00%
22	R183	Nava Jyoti Marg	328	164	236	400	100.00%
23	R7(A)	Manakaman a Marg	150	75	-	75	50.00%
24	Rani site	Rani	340	170	-	170	50.00%

SN	Road	Road Name	Proposed	Progress Len	Progress Length in (m) Total		Progress %		
014	Number	Nodu Name	rioud riumo	Nodu Name	Length(m)	Previous month	This month	to date	riogiess //
25	Rani site	Rani	200	100	-	100	50.00%		
26	N3		450		225	225	50.00%		
27	N5		76		81	81	100.00%		
28	R21	Prativa Marga	207		205	205	100.00%		
29	Xenial Front	Nava Jyoti Marg	440		220	220	50.00%		
30	R75	Tintoliya Marga	135		226	226	100.00%		
31	R122	Amar Marga	268		100	100	37.31%		
32	Remaining		15600						
	Total		26050	6872	1,942	8814	33.83%		

5.5 FNVIRONMENTAL ASPECT

The environment has been defined to mean surrounding area including human and natural resources to be affected by execution and after completion of works. the Contractor shall take all precautions for safeguarding the environment during the course of the construction of the works. He shall abide by all prevalent laws, rules and regulations governing pollution and environmental protection mitigation measure specified in the latest publication of "Environmental Management Guidelines" published by the GoN and Projects Environmental management plan.

The Contractor shall prohibit employees from unauthorized use of explosives, poaching wildlife and cutting trees. The contractor shall be responsible for the action of his employees. Environmental protection works, among others, shall also include the following.

Borrow/ quarry sites.

The engineer shall have the power to disallow the method of construction and / or the use of borrow or quarry area, if in this opinion, the stability and safety of the works or any adjacent structure is endangered, or there is undue interference with the natural or artificial drainage or the method or use of area will promote undue erosion.

Disposal of Spoil and Construction Waste.

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

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

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



material storage facilities. The area shall be kept neat and clean etc.

Provision and maintenance of Toilets.

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

Crushing plants.

Crushing plants shall be located away from the population centers, water intakes, and should not disturb the sensitive echo system. Suitable dust control device shall be filled to be the crusher to control emission of dust from the plant etc.

Hot mix plants and Batching plants.

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

Occupational Health and Safety Measures

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

The project is environmental improvement project and mainly constitutes works on sewerage and drainage improvement works in BMC besides others. As per ADB guide lines on Environmental Assessment requirements, this project is classified as Environment Category B. According to Environmental Protection Regulation,2054 BS, First Revised (2055 BS) schedule-3, IEE is required for Operations of Sewerage Schemes under Schedule 1.h.2.e (pertaining to Rule3). The final report on IEE was submitted and MoUD had approved the IEE on May14, 2013.

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

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

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



5.6 SOCIAL ASPECT

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

Status of Social and Environmental Safeguard Measures

The implementation of Social and Environmental safeguard measures is improving and found satisfactory in this month.

The Social safeguard Desk is fully functioning. No such severe problems have been registered till date.

5.7 FINANCIAL PLAN

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

6. DISBURSEMENT RECORDS IN CONSTRUCTION

SN	Description of Payment	Total Bill Amount with VAT & PS	Remark
	Table:-5 DISBUR	SEMENT RECORDS in CONS	STRUCTION
	IPC 01		Mobilization

1	IPC 01	339,106,000.00	Mobilization Advance.
	IPC 02	265,347,611.64	Up to March 2018 excluding mobilization advance
	Total	265,347,611.64	
	Grand Total =	604,453,611.64	

7. OBJECTIVES AND SCOPE OF WORKS

7.1 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.



7.2 SCOPE OF WORKS

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

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

8. PROGRESS OF SUB - PROJECT COMPONENTS

8.1 CONSTRUCTION MATERIALS.

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

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

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



8.2 DETAILS OF PRECAST ACTIVITIES

Table 6: PHYSICAL PROGRESS in PRODUCTION OF PRECAST ITEMS at till, April, 2018

	Physical Progress till April 2018									
				Progress						
S.N.	Description	Unit	BoQ			Total to Date (RM.)	Remarks			
1	Precast Slab	No		9,935	5,269	15,204	Under progress			
2	Kerb Stone	Rm	147,729.68	10,100	12,360	22,460	15.20%			

Table 10: PHYSICAL PROGRESS in PRODUCTION OF RCC PIPES at ITAHARI till April, 2018

	Physical Progress till April- 2018										
				Progress							
S.N.	Description	Diameter (mm)	BoQ (RM)	Up to Previous month	This Month (RM.)	Total to Date (RM.)	Remarks				
_		• • • •		(RM.)		206					
1	RCC Pipe	300	336	336	0	336	Undon				
2	RCC Pipe	450	681	340	0	340	Under				
3	RCC Pipe	500	842	421	120	541	process				
4	RCC Pipe	600	382	230	152	382					
	Total										

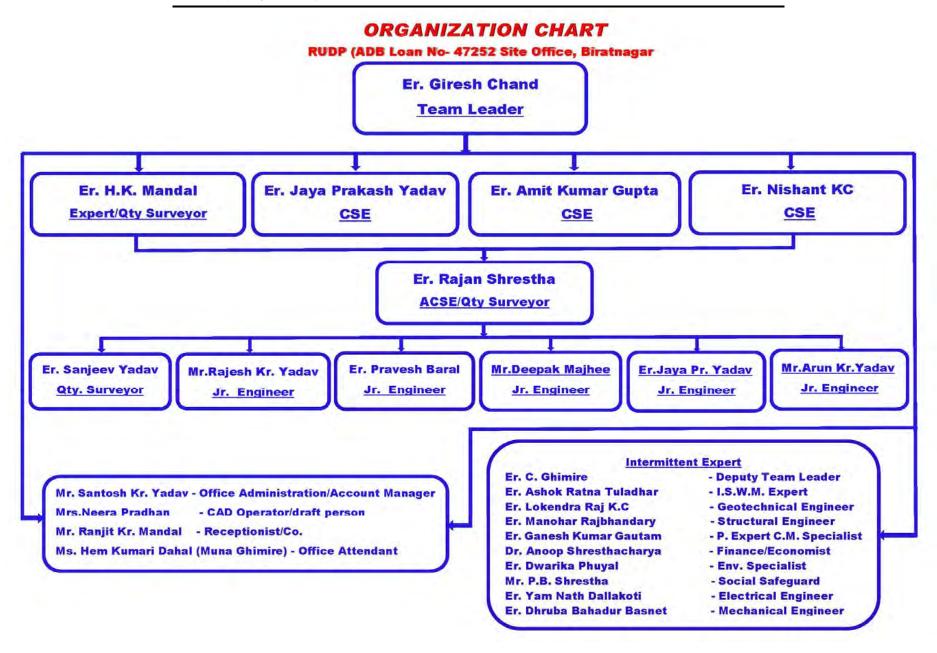
	Physical Progress till April- 2018								
]	Progress				
S.N.	Description	Diameter (mm)	BoQ (RM)	Up to Previous month (RM.)	Total to Date (RM.)	Remarks			
1	HDPE Pipe	110	1987.2	1,987.2	0	1987.2	Under		
2	HDPE Pipe	200	16656	6,000	2,000	8,000	process		
3	HDPE Pipe	250	115 115 60			175			
	Total								

	Physical Progress till April- 2018								
]	Progress				
S.N.	Description	Diameter (mm)	BoQ (RM)	Up to Previous month	This Month (Rm.)	Total to Date (RM.)	Remarks		
				(RM)					
1	UPVC Pipe	160	5050						

9. CONSULTANT

9.1 ORGANIZATION AND STAFFING

Attached





9.2 CONSULTANT'S ACTIVITIES IN CONSTRUCTION PHASE

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

Table 7: CONSULTANT'S STAFF at Project Site, Biratnagar

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

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

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

9.3 Key Events

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

Table 8: KEY DATES of EVENTS / ACTIVITIES

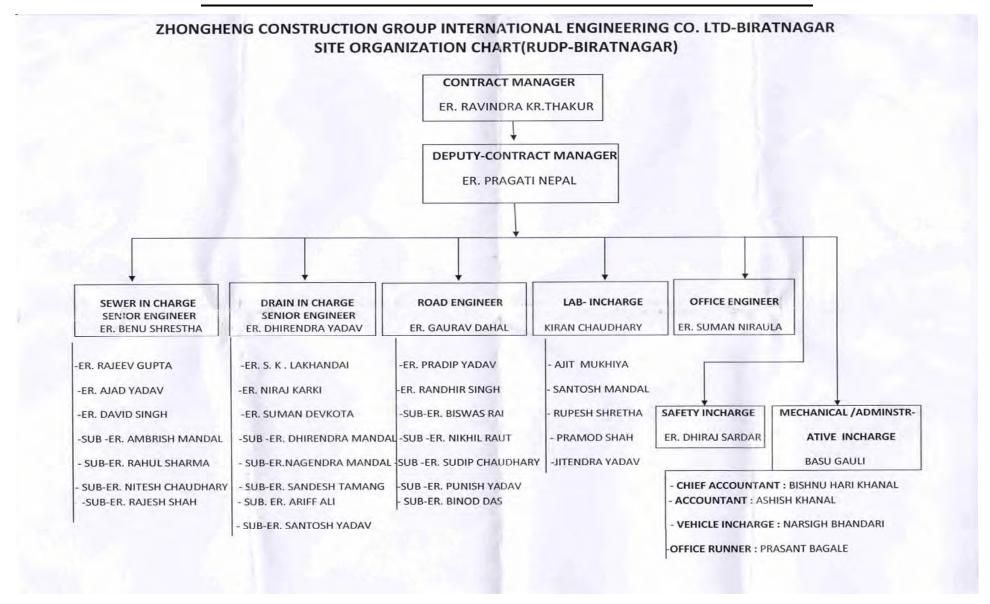
S. No.	Date	Activities/Events	Remarks
1	Thursday, April 5, 2018	Activities Disturbed due to Heavy Rainfall	
2	Monday, April 9, 2018	Activities Disturbed due to Heavy Rainfall	
3	Tuesday, April 10, 2018	Site visited by DPD,TL (PMSC) etc	
4	Wednesday, April 11, 2018	RUDP Launching Program conducted by Employer	
Saturday, April 28, 2018		Activities Disturbed due to Heavy Rainfall	
6	Sunday, April 29, 2018	Activities Disturbed due to Heavy Rainfall	

Among the above mentioned events, the unpredictable rainfall has disturbed the contractor's activities at site.

10. CONTRACTOR'S MANPOWER

Table 9: CONTRACTOR'S KEY STAFFS in April, 2018

	Position	Minimum Number	ZHONGHENG	Remarks
S.No		Required as	CONSTRUCTION	
		Per contract	Group	
1	Project/Contract	1	1	
	Manager (1 No) 15/10 Yrs (Total/Similar Exp.)			
2	Civil Engineer-10/6	2	2	
3	Sanitary Engineer- (1no.)-12/8	1	0	
4	Road Engineer-(1no.)- 12/8	1	1	
5	Electromechanical Engineer-(1no)-10/5	1	0	
6	Safety Engineer	0	1	
7	Site Engineer	0	8	
8	Sub- Engineer	0	18	
9	Accountant	0	2	
10	Lab Technician	0	1	
11	Store Keeper	0	2	
12	Vehicle Incharge	0	2	





10. CONTRACTOR'S EQUIPMENT

Table 10: 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-6 nos.
2	Crane (10 ton capacity)	3	0	
3	Asphalt plant of adequate capacity	1	1	
4	Asphalt pavers	1	1	
5	Vibrating roller	2	3	
6	Pneumatic tyre roller 8 to 10 ton	2	1	
7	Smooth wheeled roller 8 to 10 ton	1	1	
8	Grader	1	1	
9	Track Dozer (120 to 180 HP)	1	0	
10	Bitumen distributor (4 to 6 Kilo litre)-	1	1	
11	Water browser (minimum 5000 Litres)	3	8	
12	Chips spreader	1	0	
13	Bitumen decanter minimum 4000 Litres. (preheating container)	2	2	
14	Air compressor	2	2	
15	Tipping Trucks	15	30	
16	Service vehicle	2	5	
17	Survey equipment (Total station with accessories)	1	1	
18	Thedolite	2	0	
19	Levelling	5	5	
20	Mobile Generator 15-20 Kva	3	2	
21	Mixer Machine	6	7	
22	Concrete Batching Plant	1	0	
23	Concrete pump	1	0	
24	Drain cleaner/ Nala cleaner	2	0	
25	Broomer	0	2	
26	Motor Bike	0	10	
27	Plate Compacter	0	4	
28	Water Pump	0	3	

11. WORK PLAN FOR THE NEXT MONTH

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

- Detail Surveying works at various Road sections.
- Asphalt Concrete in Road section B2/B3/S13/R21/R25/R5.
- Storm water drainage (CN2-CN3).
- Laying of HDPE pipe for sewer line of T1/T2/T3/T4 secondary.
- Precast production works at contractor's yard.
- Side drain works.
- Laying of kerb Stone and cover slab.
- Sewer Line works



12. ANNEX-1: PHOTOGRAPHS OF APRIL, 2018



Asphalt concrete works at R16



Drain works at Rani site





Sewer line works at T4 Line



Implementation of safety at site





Formwork at Storm water drain (Chyangbari Nala)



Kerb stone production at DDC Yard





Kerb stone works at Rani



Field Density Test at R21 Road





Survey works for sewer line



Slab production at Yard





Interaction with public



RUDP Launching Program



13. ANNEX-2: MINUTES OF MEETING APRIL, 2018
Attached

MINUTES OF MEETING-10

Contract: Secondary Town Integrated Urban Environment Improvement (STIUEIP) & Regional Urban Development Project (RUDP), Biratnagar

Date: 22 April 2018 Time: 11:00 AM

Venue: PIU Office, Biratnagar

Attendance

Emp	loyer:	200
1	Mr. Bhim prajuli	Mayor, BMC
2	Mrs. Indira Karki	Deputy Mayor, BMC
3	Mr. Pradeep Kumar Niraula	Chief Administrative Officer (CAO), BMC
4	Mr. Bharat Kumar Nuepane	Project Manager (PM), PIU
5	Mr. Ghanshyam Kafley	Engineer, BMC
6	Mr. Anil Singh	Project Engineer, PIU
7	Mr. Ghanèndra Katuwal	Project Engineer , PIU gran / N
8	Mr. Prakash Narayan Chaudhary	Project Engineer, PIU
9	Mr. Poonam Kumar Dahal	Social Development Officer, PIV 49
10	Mr. Mister K. C.	Account Officer, PIU
11	Mr. Purushottam Lamichhane	Pa. Pr. Sa., , PIU
Con	ractor:	
1	Mr. Mahesh Subedi	Engineer, CTCE-Kalika J/V
2	Mr. Bishesh Prasai	Engineer, CTCE-Kalika J/V
3	Mr. Ravindra Thakur	Contract Manager (CM), Zhongheng Construction Group Co. Ltd.
4	Mr. Pragati Nepal	Engineer, Zhongheng Construction Group International Engineering Co. Ltd.
Cons	sultant:	
1	Mr. Giresh Chand	Team Leader, DSC
2	Mr. Hare Krishna Mandal	Quantity Surveyor Expert, DSC
3	Mr. Amit Kumar Gupta	Construction Supervision Engineer, DSC

The meeting was chaired by Mayor, Mr. Bhim prajuli, Biratnagar Metropolitan City. Mr Pradeep kr Niraula,CAO and Mr. Bharat Kumar Nuepane, PM welcomed all the participants in the meeting. Following matters were discussed and decided:



Page 1 of Pages 3

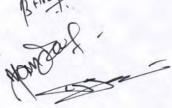
Fundamental Property of the Page 1 of Pages 3





6. NO.	Minutes	Action by
1	Mr Bharat Kr Nuepane,PM briefed about the present status of the STIUEIP and RUDP. Mr Nuepane as well as Mr chand, TL asked about the progress in STIUEIP, Biratnagar, mainly focused on cleansing of sewer lines & drainage system outstanding works at WWTP, R6 and Dedicated electricity feeder line. The Contractor's Engineer, Mr. Subedi informed that the physical progress has been achieved by 97%. Regarding cleaning the sewer line & drainages, they were arranging the skilled manpower from neighbouring country India and they will start the cleansing work from 26th April 2018. He added that all the outstanding works at WWTP are going on but due to unpredictable monsoon, some components are lagging, the work program has been already submitted to DSC. He also admitted that the sub base work of R6, R29 & R73 are going to be completed before 15 May 2018. Dedicated feeder electricity line for WWTP is under procurement process and some civil works are under construction at Rani sub-station to install the accessories.	The employer, contractor & consultant
2	Mayor, PM, and TL together emphasized that the further EOT will not be entertained for STIUEIP, Biratnagar if required the liquidated damage (LD) will be invoked as per CoC for further extension of time. Mr Subedi assured to complete the outstanding work before June 2018.	The employer, contractor & consultant
3	PM, Mr. Nuepane emphasized that at some stretches the houses were at low land rather than that of drain invert level so asked DSC to provide the outlet for those by any mean to solve the stagnant water problem which they were facing in every monsoon. TL, Mr. Chand included that the work of drain was carried out according to approved design and to overcome from the above mentioned issues isolated pipe lines will be required to be provided which ultimately would be going to fall at the nearest deeper drain.	The employer, contractor to consultant
4	Mayor, Mr. Parajuli and PM, Mr. Nuepane focused that during construction of drain and sewerage by the RUDP, Biratnagar, construction materials are placed in scattered manners, the safety signs are in adequate and the sufficient diversions (alternate way/bypass) were not provided for smooth traffic movements. Also, advised/instructed either to finish one stretch completely before commencement of another stretch's works or provide proper access or bypass to the traffic. The Contract Manager, Mr. Thakur admitted that now the works are going on inside the core city area (urban area) where the movement of traffic is very dense so, getting difficulties but onward they will arrange everything as advised/instructed. Also he admitted that execution of work is delaying due to delay in relocation of electrical & telephone poles, thus requested to sort out the issues by co-ordinating with concerned authorities.	The employer, contractor & consultant







S. NO.	Minutes	Action by
5	Mayor, Mr Prajuli asked to complete all the ongoing works before monsoon if required, work in both shift (Day/Night) and he further instructed to give the alternate way (by pass) before commencement of any new construction works for smooth movability of the traffic. He also added to address and implement the grievances of local stakeholder as far as possible. He instructed to prepare the revised work schedule for further works keeping in mind of above mentioned instructions. It was further instructed to organize the weekly joint meeting in order to discuss the project monitoring & grievances arisen during construction at PIU Office, Biratnagar. Both the contractor admitted that they'll try to work in both day & night shift to complete the project on time and try to minimize the traffic movement issues.	The employer, contractor & consultant
6 RUD	Regarding S11 (Storm water drain), Mayor, Mr. Parajuli instructed PIU & DSC to start the drain work under RUDP as soon as possible. TL, Mr. Chand informed that there is no any provision for this work in the contract so in order to start further work of above mentioned stretch which certainly would increase the financial burdening. Mayor, Mr. Parajuli emphasized that he has already co-ordinated with higher authority to this regard and he assured that no such type of financial problem would be arisen. He instructed to PM, Mr. Nuepane to write the letter to DSC for further action and given the assurance for payment to the contractor. The next meeting will be 29 April 2018 at PIU office.	The employer, contractor a consultant

Page 3 of Pages 3

14.ANNEX-3: LABORATORY TEST RESULTS OF APRIL, 2018
Attached

			RI	GION	AL							NT I	PRO	JE(T					- 1
								gar M No: R												
						Summ						and .								
									1,101111	1, 103	t Attpo					Mo	onth		Apri	
																Y	ear		2018	
						Loc	ation	:- B3-	3							Type of	Material		Base	
s.N.	Lab Ref no.	Location of	Source of Sample	Date of		S	ieve Size	e in mm /	% passin	2 By We	ght					LAA		20 10 17	CDD	
	Later ag.	Sample	Source of Sample	Testing	40	31.5	20	0.0	4.75	2.36	0.5	0.075	MDD	OMC	PI%	%	FI and E1%	ALV.	CBR	Remarks
1	RUDP-B-07	B3-3.0+699	Chisang Khola	5-Apr-18	100	87.91	70.86	49.13	35.68	26.82	15.89	5.73	2.244	6.00	NP	30.90	22.25/18.42	20.30	880	
			1			_	_	_	_	-	_	-		-	-	. 344		-	U	سسا
		- 1			1						1									
ť																				
								Ī												
	i i																			
			1				- 4													
-6																				
											-									
											1				1			-		
			Ī						į,	Ī					- 1					
-			Sı	ec. Limit:	100	85-100	62-92	40-70	26-55	21-53	12-28	2-10				<45	<35	<35	>85	
			Conti	ractor					1					-		12				
										-			_		onst	ltant				
	ZHONO	CHENC O	ONSTRUCTIO	N CDOL	ID IN	TEDA	1710	Mar			BUILI	DING	DESIG	IN AI	UTH	ORIT	Y (P) LTI	INI	OINT	
		, meno c,	ENGINEERI			LERIN	AHO	NAL	1	VEN	TURE	WITI	H B.N.	CON	SUL	TAN	CY PVT.	LTDA	ND I	LUS
		118								ENGL	NEER	S & A	RCHI	TEC	rs (I	P) LT	D, KATHI	MAND	U, N	EPAL
		115					-	1										_	/	
	1						1	/		1	e						<	V		
		/	(Comments !!					V		0,	1.							0		
	Checked		L'ann					ted By		Verifie								App	roved	By
	Engine	er				Co	ntract	Manage	T	QTY E	ngineer	/CSE							m Lea	-



	REGI	ONAL U	JRBA	N DI	EVELO	PME	NT PRO	DJECT	
			Biratn	agar N	letropolit RUDP/ICI	tan Cit	y		
					t of Field Den				
						/	Month	April	
		Loca	tion:-B3	1-3			Year Type of Material	2018 Base	
		2000	lon be		e content %		ity(gm/cc)	Compacti	-
Sn.	Lab.Ref.no	Testing Date	Chainage	OMC%	Field MC%	Max.Dry density	Comment of the Commen	Compaction	Specifie %
1	RUDP-B-FD-1, L/S	20-Apr-18	0+625	6.00	5.54	2.244	2.229	1 99.35	98
2	RUDP-B-FD-1, R/S	20-Apr-18	0+650	6.00	5.02	2.244	2.208	98.42	98
3	RUDP-B-FD-1, L/S	20-Apr-18	0+675	6.00	5.57	2.244	2.207	98.37	98
4	RUDP-B-FD-1, R/S	20-Apr-18	0+700	6.00	5.05	2.244	2.224	/ 99.12	98
7									
	1								
		1),		1					
		1							
			1						
-			1						
-			-	1					
-			1	1					
-									
-									
-						\			
+						1			
+									
+									
+									
+			-				1		
1								1	
1									
								1	
							1		Z
	0						200		
	Contract	Service Control of the Control of th		BUILDE	NG DESIGN A	UTHORIT	Consultant	OINT VENTURE V	VITHRN
	ZHONGHENG CONSTR NTERNATIONAL ENGIN			CONSU	LTANCY PV	T. LTD AN	D PLUS ENGIN	EERS & ARCHIT	ECTS (P)
- 6		1		-		LTD, KA	THMANDU, NE	EPAL	Y
1	/,			10	/			0	
X		1/2/		4-1					
	ed By	Submitted By		Verified B	у		18	Approved By	
ngine		ontract Manage	r	Qty Enginn				Team Leader	



			KI	EGION	(AL	Bir	atna	N DE gar M No: R	etrop	olitan	City	NII	PRO)JE(СТ						
						Summ	ary S	heet of	Mont	bly Te	st Rep	ort	_								
											1	/				Me	onth		Apri	11	_
																Y	ear		2018		_
						Lo	cation	1:- R28								Type of	Material		Base		
		Location of		Date of				e in may/		ie By We	icit										
S.N.	Lab.Ref no.	Sample	Source of Sample	Testing	40	31.5	20	. 30	4.75	2.36	0.6	0.075	MDD	OMC	P1%	LAA	Fland El%	ALV.	CBR	Remercia	
1.	RUD9-B-03	R28. 0+300	Chisang Khola	2-Apr-18	109	I	76.33	57.58	45.11	33.88						-	S. Carrie		76		
2		R28. 0+400		5-Apr-18	100	90.72	75.13	54.62	41.29	29.54		7.44 5.82	2.239	5.30			16.87/18.21				
3	RUDP-B-05	R28 0+500			f 100	90.56	75.31		42.10		15.28	5.31	2.239	2.30			18.48/17.65 22.59/20.55	21.09	85.0		
4	RUDP-B-96	FR28, 0+600	Chisang Khola		[100	89.39		51.59		28.24		5.27	2.246	5.60			21.46/19.27	20.59	02.0		
			İ				-	1			[J	I	1		30.40	21/40/17/27	20.91	82.0		
					1																
			1		1	1							1								
																				(
															l						
								1												- 1	
																Í					
i				TT-SI-SI																11	
			- 54	ee. Limit:	100	85-100]	62-92	40-70	26-55	21-53	12-28	2-10		,		<45	< 35	<35	>80	W.	
			Contr	ractor										-	NAME OF THE OWNER, OWNE	\$400.0					
			0114						-					(onsu	ltant					
	ZHONO	SHENG C	ONSTRUCTIO ENGINEERI	ON GROUNG CO. I	P IN	TERN	ATIO	NAL		YEN	TURE	WITI	HB.N.	CON	SUL	TAN	Y (P) LTE CY PVT, I D, KATHN	TD A	ND P	LUS	
	Checked Engine	Ву						ted By		Verifie QTY E	d By	/CSE							roved m Lea	- 11	



	REGIO	NAL UI Bi <u>Co</u>	ratnag	ar Met	ELOP ropolitan DP/ICB/B	City	PROJ	ECT	
					Field Density				
							Month		April
			T	ocation:	D 10		Year	1	2018
					e content %	Density	pe of Material		Base
Sn.	Lab.Ref.no	Testing Date	Chainage	Wioistan	Content 76	Max.Dry			action %
		Testing Date	Chamage	OMC%	Field MC%	density	Field Dry density,	Compac	3 33
1	RUDP-B-FD-1, L/S	9-Apr-18	0+350	5.30	5.76	2.239	2.208	98.63	98
2	RUDP-B-FD-1, C/L	9-Apr-18	0+400	5.30	5.98	2.239	2.227	/99.47	98
3	RUDP-B-FD-1, L/S	9-Apr-18	0+450	5.30	5.76	2.239	2.227		
4	RUDP-B-FD-1, L/S	9-Apr-18	0+500	5.30	6.19	2.239		/ 98.31	98
5	RUDP-B-FD-1, C/L	9-Apr-18	0+550	5.30	5.83		2.234	99.76	98
6	RUDP-B-FD-1, R/S	9-Apr-18	0+600	5.60	6.50	2.239	2.207	98.59	98
	1001 010 1,100	7-Apr-10	0+000	3.00	0.50	2.246	2.216	/98.65	98
1			-						
-									
-									
-									
\dashv			/					5	
-			1						
-									
_									
					1				
						1			
							1		
							-		
								1	
1								-	
								1	
-	Contract			ALUX PAR		Consu	tant		
	ZHONGHENG CONSTR NTERNATIONAL ENGIN		TD E	B.N.	DESIGN AUTONSULTAN ARCHITECT	CY PVT. LT	D AND PLUS	ENGINEE	RS &
	1/10	1		0	acciniec	IS (F) LID, F	ATHMAND	O, NEPAL	
1	/118/ 1	11 //	,	1 4	,			4	
X		W		4,,)	(
ecke	d By	Submitted By Intract Manager	V	erified By			A	pproved B	v
	LLI Co			ty Enginner					



				EGION		Bir	atnag	gar M No: R	etrop	olitan	City		RO	UL	~ 2					
						Summ	ary Sh	ieet of	Montl	hly Tes	st Repo	ort								
																	onth		Apri	
						Loc	cation	:- B3-	2	/							Material		Base	
		Lecation of		Date of				ie mm /		2 By We	ight					-				_
.N.	Lab.Ref no.	Sample	Source of Sample	Testing	40	31.5	20	10	4.75	2.36	0.6	0.075	MDD	OMC	PP%	LAA.	Fl and El %	ALV.	CBR.	Remark
1	RUDP-B-01	B3-2,0+100	Chisang Khola	3-Apr-18	100	89.03	73.15	52.73	39.27	30.42	18.62	8.94	2:246	5.60	NP	31.78	20.24/13.47	24.22	88.80	
2	RUDP-B-02		Chisang Khola	3-Agr-18	100	89.09	72.29	50.52	36.21	28.98	17.51	7.33			NP	32.04	19:57/15:91	24.13		
3	RUDP-B-03		Chisang Khola	6-Agr-18	100	87.46	71.66	53.85	38.89	28.94	15.89	7.30	2:242	5.00	NP	30.24	20.72/17.96	23.75	86.80	
4	RUDP-B-04	B3-3,0+400	Chisang Khola	6-Apr-18	100	87.98	72.89	52.57	38:65	27.44	13.64	5.78			NP	32.10	21.98/15.14	21.62		
		01.5			-	-									1					
			S	pec. Limit :	100	85-100	62-92	40-78	26-55	21-53	12-28	2-10				<45	<35	<35	>80	
_			-																	
	ZHONGHENG CONSTRUCTION GROUP INTERNATIONA ENGINEERING CO. LTD									VEN	TURE	WITI	HB.N.	GN AI	UTH	TAN	TY (P) LTI CY PVT. I D, KATHI	LTD A	AND	PLUS
	Checked By Submitted Engineer Contract Mar									Verifie	ed By	100E							proved	



			RF	EGION		Bir Co	ratna; ontract	DE gar M No: R heet of	etrop UDP/I	olitan CB/BI	City		PRO	JE(CT					
									T-IOII C	11.5	st Itep					Mo	onth	1	Apri	
																Y	ear		2018	
						L	ocation	1:- R26	,							Type of	Material		Base	
SN	Lab Ref no.	Location of	60	Date of	Į.		Sieve Siz	e in mm /	% passir	g By We	ight		1						CDD	
aus.	Eath Rel Inc.	Sample	Source of Sample	Technique	46	31.5	20	10	1 4.75	2.36	0.6	0.075	MDD	OMC	P8%	70	Fland Et %	ALV.	CBR	Remarksil
T.	RUDP-B-01	R26, 0+100	Chisang Khola	5-Apr-18	£ 300	94.71	69.45	53.95	35.36	28.13	13.87	3.56			NP	31.62	21.46/19.27	21.15		
2		R26, 0+200	Chisang Khola	5-Apr-18	100	94.34	70.45	57.40	49.88	1	20.44	5.39	12.240	5.55			22.59/20.55	20,64	85.20	В
3	RUDP-B-03	R26. 0+300	- 4	5-Apr-18:	199	88.72	74.37	SI.12	31.39	24:10	18.24	3.70						20.40	33.20	
_	RUDP-B-04			7-Apr-18	190	90.95	76.54	50.17	37.13	27.29	19.81	4.31	2:244	5.40		/		20.06	85.90	
5	RUDP-B-05	R26, 0+500	Chisang Khola	7-Apr-18	100	89.13	75.01	50.97	35.74	31.20	19.49	4.63						20.34		
5	RUDP-B-06	R26.0+600	Chisang Khola	7-Apr-18	100	88.35	68.82	44.99	30.19	26.33	16.08	4.13	2.249	5.60	NP	32.40	19.59/19.34	20.30	85.00	
							Ì													
																Ţ				
			SI	ec. Limit :	1.00	85-100	62-92	40-70	26-55	21-53	12-28	2-16				<45	< 35	<35	>85	
			Contr	ractor										(Consu	ltant			-	
/	ZHONO Checked Engine	By	ONSTRUCTIC ENGINEERI				Submit	ted By		VEN	TURE NEER	WITI S & A	H B.N.	CON	SUL	TAN	Y (P) LTI CY PVT. I D, KATHI	App	ND I	PLUS EPAL By



	REG	IONAL	Birati Contra	nagar N	Metropoli RUDP/IC	itan Ci B/BRT-	02	OJECT	
			Sumn	nary Shee	t of Field De	nsity Test			
							Month	Apri	
		1	L	ocation:	-R-26		Year Type of Material	2018	
					e content %	Dens	sity(gm/cc)	Compact	
Sn.	Lab.Ref.no	Testing Date	Chainage	омс%	Field MC%	Max.Dr density	y Field Dry	Compaction	Specifie
1	RUDP-B-FD-1, L/S	11-Apr-18	0+050	5.55	5.36	2.240	2.222	99.17	98
2	RUDP-B-FD-1, C/L	11-Apr-18	0+100	5.55	5.89	2.240	2.211	(98.70	98
3	RUDP-B-FD-1, L/S	11-Apr-18	0+150	5.55	5.07	2.240	2.205	98.44	98
4	RUDP-B-FD-1, L/S	11-Apr-18	0+200	5.55	5.05	2.240	2.196	98.06	98
5	RUDP-B-FD-1, C/L	11-Apr-18	0+250	5.55	4.94	2.240	2.237	99.87	98
6	RUDP-B-FD-1, R/S	11-Apr-18	0+300	5.55	5.51	2.240	2.233	99.67	98
7	RUDP-B-FD-1, L/S	11-Apr-18	0+350	5.55	6.03	2.240	2.226	99.37	98
8	RUDP-B-FD-1, C/L	11-Apr-18	0+400	5.40	5.51	2.244	2.220	98.91	98
9	RUDP-B-FD-1, R/S	11-Apr-18	0+450	5.40	6.60	2.244	2.230	(99.36	98
10	RUDP-B-FD-1, L/S	11-Apr-18	0+500	5.40	4.84	2.244	2.236	99.62	98
11	RUDP-B-FD-1, C/L	11-Apr-18	0+550	5.40	5.55	2.244	2.228	/ 99.26	98
12	RUDP-B-FD-1, R/S	11-Apr-18	0+600	5.60	5.86	2.249	2.213	/ 98.42	98
K						21217	2.215	(70.42	90
									-
			- 1						
						\			
						1			
							1		
1					-				,
									A
		-					1		
	2	i i							
IN	Contract ZHONGHENG CONSTR TERNATIONAL ENGIN	UCTION GROU	UP LTD	BUILDE	NG DESIGN A	LTD AND	Consultant TY (P) LTD IN J PLUS ENGINE HMANDU, NEP	OINT VENTURE VERS & ARCHITEC	VITH B.N. TS (P) LTD
hecke		Submitted By ontract Manager		/erified By			Ä	pproved By cam Leader	



			RI	EGION		Bir	atnag ntract	gar M No: R	etrop UDP/I	olitar CB/BI	City RT-02		PRO	JE(T					
						Summ	ary Si	ieet of	MIOHI	ny res	и керс)rt				Mo	onth		Apri	
											-					Y	ear		2018	1
				Loc	eation	n:- R21	(East	of Som	bare l	iativa)						Type of	Material		Base	
		Location of	1	Date of		S	ieve Size	in mm /	% nassin	g By We	ight					LAA		A.L.V.	CBR	
N.	Lab.Ref to.	Sample	Source of Sample	Testing	‡ 0	31.5	20	10	4.75	2.36	0.6	0.075	MDD	OMC	P1%	0. <u>z</u>	Fland El %	24	94	Remarks
1	RUDP-8-01	R21, 0=600	Chisang Khola	13-Apr-18	168	89.61	71.72	55.74	38.60	28.63	14.95	5.62			NP.	29.12	22.23/16.16	23.13	-	
2	RUDP-9-02	R21, 0=700	Chisang Khola	13-Apr-18	100	88.16	68.78	51.89	34.37	24.28	14,44	6.53	2.241	5.55	NP.		27.51/21.98	21.44	84.0	
3	RUDP-B-G	R21, 0=850	Chisang Khela	13-Apr-18	108	87.05	67.38	50.53	35.05	24.76	14.73	6.66	1		NP	30.30	25.46/17.64	22.13	با	
4	RUIDP-B-04	R21, 0=950	Chisang Khola	13-Apr-18	100	89.91	73.88	52.70	39.60	29:21	17.06	7.65			NP I	34.24	23.53/16.52	20.00		
_													-							
П																				
		10	j																	
			S	pec. Limit :	100	85-100	62-92	46-70	26-55	21-53	22-28	2-10		_		< 5	< 35	<35	>80	
			Cont	ractor										(Consi	ıltant				
	ZHONGHENG CONSTRUCTION GROUP INTERNATIONAL ENGINEERING CO. LTD									VEN	TURE	WIT	H B.N	. COI	ISUI	TAN	TY (P) LT CY PVT. D, KATH	LTD	AND I	PLUS
	A,		WOHZ *	UP: OF			R)		di	12							5	7	
	Checked						Submit ontract	-		Verifi	ed By	1							prove	



		ONAL U	Biratna	gar M	etropolit RUDP/ICB	an City			
					of Field Dens				
				.,	or rela Della	The state of the s	Month	I A	oril
							Year		18
-		Location:-	R-21(Son				ype of Material		ise
C-	I I D C		or 1		e content %		(gm/cc)		ction %
Sn.	Lab.Ref.no	Testing Date	Chainage	OMC%	Field MC%	Max.Dry	Field Dry	Compaction	
1	DUDD D ED 1 1/6	25 A 10	01610	5.55	506	density	density,	%	%
2	RUDP-B-FD-1, L/S	25-Apr-18	0+610	5.55	5.26	2.241	2.230	99.50	98
3	RUDP-B-FD-1, C/L	25-Apr-18	0+660	5.55	5.05	2.241	2.213	98.74	98
-	RUDP-B-FD-1, R/S	25-Apr-18	0+710	5.55	5.61	2.241	2.220	99.06	98
4	RUDP-B-FD-1, L/S	25-Apr-18	0+760	5.55	5.62	2.241	2.222	99.15	98
5	RUDP-B-FD-1, C/L	25-Apr-18	0+810	5.55	5.81	2.241	2.224	99.24	98
6	RUDP-B-FD-1, R/S	25-Apr-18	0+860	5.55	5.89	2.241	2.147	95.78	98
7									
-									
-									
-			1						
-									
_									
						1			
						1			
						1			
			-61						
\neg									
					-		1		
1									
-									
-								-	
_									7
	Contract ZHONGHENG CONSTR		UP			UTHORITY		DINT VENTUR	
	NTERNATIONAL ENGI			CONSUI	LTANCY PVT		PLUS ENGINI IMANDU, NE	EERS & ARCH	ITECTS (P)



				/							
				-				Month Year		Ap	_
	Gran	:-7.50	EH/um2				Decario	rear otion of San	anla	Duint.	
				D 1				Testing		Brick h, N/mm2	
S.N.	Location	Lab Ref.no.	Type of Cement	Brand of Cement	Source of Sand	Date of Casting	7 Days	28 Days		28 Days	Type of Grade
1	R-113	MR-115	Salimar	OPC	Chisang Khola	5-Mar-18	12-Mar-18	2-Apr-18		(8.27	(75
2	R-76	MR-116	Salimar	OPC	Chisang Khola	6-Mar-18	13-Mar-18	3-Apr-18		7.60	(7.5
3	R-76	MR-117	Salimar	OPC	Chisang Khola	7-Mar-18	14-Mar-18	4-Apr-18		(8.14	7.5
4	R-7	MR-118	Salimar	OPC	Chisang Khola	7-Mar-18	14-Mar-18	4-Apr-18		(8,00	7.5
5	R-9	MR-119	Salimar	OPC	Chisang Khola	7-Mar-18	14-Mar-18	4-Apr-18		(9.20	7.5
6	R-113	MR-120	Salimar	OPC	Chisang Khola	7-Mar-18	14-Mar-18	4-Apr-18		(8.27	7.5
7	R-18	MR-121	Salimar	OPC	Chisang Khola	8-Mar-18	15-Mar-18	5-Apr-18		(8.67	7.5
8	Rani-site	MR-122	Salimar	OPC	Chisang Khola	10-Mar-18	17-Mar-18	7-Apr-18		18,14	7.5
9	R-76	MR-123	Salimar	OPC	Chisang Khola	10-Mar-18	17-Mar-18	7-Apr-18		7.60	7.5
10	R-88	MR-124	Salimar	OPC	Chisang Khola	12-Mar-18	19-Mar-18	9-Apr-18		(7.74	7.5
11	Rani-site	MR-125	Salimar	OPC	Chisang Khola	15-Mar-18	22-Mar-18	12-Apr-18		8.54	7.5
12	R-76	MR-126	Salimar	OPC	Chisang Khola		24-Mar-18			7.60	7.5
13	R-17	MR-127	Salimar	OPC	Chisang Khola		24-Mar-18			(8.54	7.5
14	Rani-site	MR-128	Salimar	OPC	Chisang Khola					8,14	7.5
15	R-17	MR-129	Salimar	OPC			27-Mar-18			8,14	7.5
16	N-4	MR-130	Salimar	OPC	Chisang Khola					(8.00	7.5
17	R-7	MR-131	Salimar	OPC			30-Mar-18			17.74	7.5
18	R-9	MR-132	Salimar	OPC			30-Mar-18			8.80	7.5
19	R-40	MR-133	Salimar	OPC	Chisang Khola					(8.40	7.5
20	N-4	MR-134	Salimar	OPC	Chisang Khola				-	(8,14	7.5
21	Rani-site	MR-135	Arghakhachi	OPC	Chisang Khola			22-Apr-18	(5.87	8.54	7.5
22	R-7	MR-136	Arghakhachi	OPC	Chisang Khola		Part De Royal	22-Apr-18		(8.14	7.5
23	N-3	MR-137	Arghakhachi	OPC	Chisang Khola		2-Apr-18	23-Apr-18	-	814	7.5
24	R-86	MR-138	Arghakhachi	OPC	Chisang Khola		2-Apr-18	23-Apr-18	-	(821	7.5
25	N-5	MR-139	Arghakhachi	OPC	Chisang Khola			24-Apr-18	1/	(8/14	7.5
26	R-183	MR-140	Arghakhachi	OPC	Chisang Khola			24-Apr-18		7,60	7.5
27	R-36	MR-141	Arghakhachi	OPC	Chisang Khola		1	24-Apr-18	-	/8,80	7.5
28	R-36	MR-142	Arghakhachi	OPC	Chisang Khola			25-Apr-18	-	(8.80	7.5
29	R-9	MR-143	Arghakhachi	OPC	Chisang Khola			25-Apr-18	1575	(8,40	7.5
30	R-122	MR-144	Arghakhachi	OPC	Chisang Khola			25-Apr-18		6,20	7.5
31	R-21	MR-145	Arghakhachi	OPC	Chisang Khola	28-Mar-18	4-Apr-18	25-Apr-18		8.54	7.5
32	Xenial Hotel	MR-146	Arghakhachi	OPC	The second second	29-Mar-18	5-Apr-18	26-Apr-18		18.40	7.5
33	Rani Site (Hadtali Hatt)	MR-147	Arghakhachi	OPC	Chisang Khola			26-Apr-18	/	(8.27	7.5
34	Rani Site (Mahendra Chowk)	MR-148	Arghakhachi	OPC	Chisang Khola	29-Mar-18	5-Apr-18	26-Apr-18	(5.60	(8.14	7.5
	zao maj										
	/	Contracto	Fu.				Consu	ltant			
	HONGHENG FERNATIONA		SAN WILLIAM BURGANIA	2000	BUILDING VENTURE PLUS	WITH B. ENGINE		ULTANO RCHITE	CY PV CTS (F	r. LTD	



		KLGI	C	iratna; ontract	gar Metropo No:- RUDP/IC theet of Mortan	litan City CB/BRT-02		OJECI			
								Month		Ap	ril ,
		n . w	- 11 1. 2	_				Year		201	_
	Can	de: - +	5 H June				Descr	iption of San	inle	Brick	_
				Brand				Testing		N/mm2	
S.N.	Location	Lab Ref.no.	Type of Cement	of Cement	Source of Sand	Date of Casting	7 Days	28 Days		28 Days	Type of Grade
35	R-7	MR-149	Arghakhachi	OPC	Chisang Khola	30-Mar-18	6-Apr-18	27-Apr-18	15.87	17.60	7.5
36	R-9	MR-150	Arghakhachi	OPC	Chisang Khola	30-Mar-18	6-Apr-18	27-Apr-18	15.87	8.54	7.5
37	N-3	MR-151	Arghakhachi	OPC	Chisang Khola	1-Apr-18	8-Apr-18	29-Apr-18	(5.60	(7.87	7.5
38	R-7	MR-152	Arghakhachi	OPC	Chisang Khola	1-Apr-18	8-Apr-18	29-Apr-18	15.60	6.87	7.5
39	R-186	MR-153	Arghakhachi	OPC	Chisang Khola	1-Apr-18	8-Apr-18	29-Apr-18	6,14	(8.94	7.5
40	N-5	MR-154	Arghakhachi	OPC	Chisang Khola	1-Apr-18	8-Apr-18	29-Apr-18	15.60	(8.27	7.5
41	R-36	MR-155	Arghakhachi	OPC	Chisang Khola	1-Apr-18	8-Apr-18	29-Apr-18	-	-	_
42	R-122	MR-156	Arghakhachi	_			-		(6,14)	(9,28	7.5
43				OPC	Chisang Khola	2-Apr-18	9-Apr-18	30-Apr-18	(627	18.14	7.5
-	R-122	MR-157	Arghakhachi	OPC	Chisang Khola	2-Apr-18	9-Apr-18	30-Apr-18	(627	(8.14	7.5
44	R-21 Rani Site(Hadtali	MR-158 MR-159	Arghakhachi Arghakhachi	OPC	Chisang Khola Chisang Khola	3-Apr-18 3-Apr-18	10-Apr-18	1-May-18	(5.33		7.5
46	Rani Site(Hadtali	MR-160	Arghakhachi	OPC OPC	Chisang Khola	3-Apr-18	10-Apr-18	1-May-18	(5.74		7.5
47	Hatt) R-33	MR-161	Arghakhachi	OPC	Chisang Khola	3-Apr-18	10-Apr-18	1-May-18	6.40	-	7.5
48	Rani Site (Mahendra Chowk)	MR-162	Arghakhachi		Chisang Khola	4-Apr-18	11-Apr-18	2-May-18	6.54		7.5
49	Rani Site (Mahendra Chowk)	MR-163	Arghakhachi	OPC	Chisang Khola	4-Apr-18	11-Apr-18	2-May-18	6.54		7.5
50	Rani Site	MR-164	Arghakhachi	OPC	Chisang Khola	5-Apr-18	12-Apr-18	3-May-18	(5.60)		7.5
51	R-186	MR-165	Arghakhachi	OPC					11		
52	N-5	MR-166		_	Chisang Khola	5-Apr-18	12-Apr-18	3-May-18	/640		7.5
53	N-9		Arghakhachi	OPC	Chisang Khola	6-Apr-18	13-Apr-18	4-May-18	(5.74		7.5
54		MR-167	Arghakhachi	OPC	Chisang Khola	6-Apr-18	13-Apr-18	4-May-18	(6.14		7.5
55	R-21 Rani Site(Hadtali	MR-168 MR-169	Arghakhachi Arghakhachi	OPC	Chisang Khola Chisang Khola	6-Apr-18 7-Apr-18	13-Apr-18	4-May-18 5-May-18	5.87		7.5
56	Hatt) R-33	MR-170	Arghakhachi	OPC OPC	Chisang Khola	7-Apr-18	14-Apr-18	5-May-18	(6,40		7.5
57	Rani Site (Mahendra Chowk)	MR-171	Arghakhachi	OPC	Chisang Khola	7-Apr-18	14-Apr-18	5-May-18	(5.60		7.5
58	R-75	MR-172	Arghakhachi	OPC	Chisang Khola	7-Apr-18	14 Apr 19	5-May-18	(5/14		7.6
59	R-86	MR-173	Arghakhachi	OPC		9-Apr-18	14-Apr-18		1		7.5
60		MR-174			Chisang Khola		16-Apr-18	7-May-18	(8.07	-	7.5
	R-75 R-9		Arghakhachi	OPC	Chisang Khola	12-Apr-18	19-Apr-18	10-May-18	15,83	/	7.5
61		MR-175	Arghakhachi	OPC	Chisang Khola	13-Apr-18	20-Apr-18	11-May-18	(8.00/		7.5
62	R-86 Rani Site (Mahendra Chowk)	MR-176 MR-177	Arghakhachi Arghakhachi	OPC	Chisang Khola Chisang Khola	14-Apr-18	21-Apr-18 21-Apr-18	12-May-18 12-May-18	(5,60		7.5
64	R-75	MR-178	Arghakhachi	OPC OPC	Chisang Khola	15-Apr-18	22 4 - 10	13 Mar. 10	(571)	/	2.5
65	Rani Site(Hadtali	MR-179	Arghakhachi		Chisang Khola	15-Apr-18	22-Apr-18	13-May-18 13-May-18	(5.74		7.5
66	Hatt) R-86	MR-180	Arghakhachi	OPC	Chisang Khola		1000000	100	1//		
67				OPC	-	16-Apr-18	23-Apr-18	14-May-18	(627)		7,5
-	R-36	MR-181	Arghakhachi	OPC	Chisang Khola	16-Apr-18	23-Apr-18	14-May-18	6.40		7.5
68	R-9	MR-182	Arghakhachi	OPC	Chisang Khola	17-Apr-18	24-Apr-18	15-May-18	(5.87		7.5
	ZHONGHENG NTERNATION		CTION GRO		VENTURE V	NG DESIG VITH B.N. ERS & ARG	CONSUL	ORITY (P) FANCY P S (P) LTD	VT. LTI	O AND I	PLUS
-1-	cked By	NOH!	Submitted By Contract Mana	ger	Verified By Qty Engineer/0	CSE				proved I	

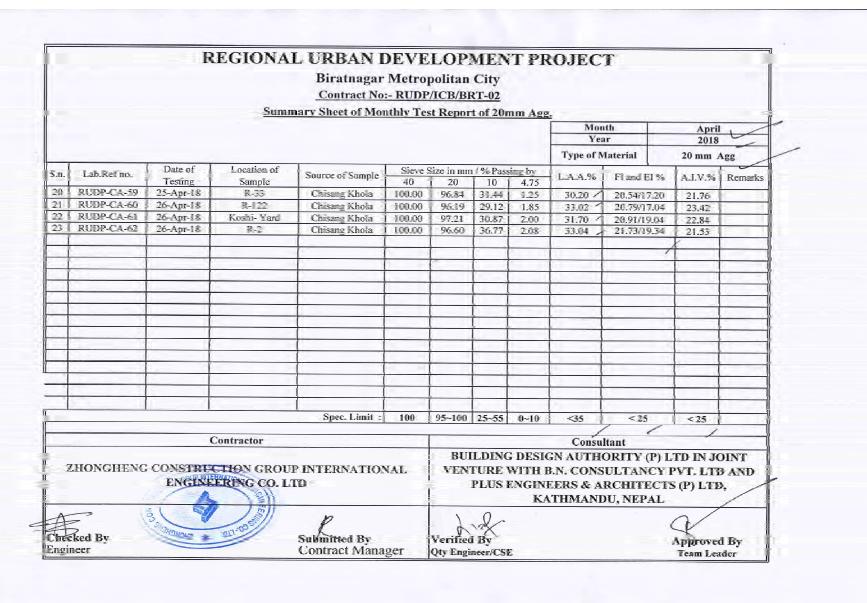


		REGIO	Cor	atnaga atract N	r Metropol lo:- RUDP/IC eet of Mortar	itan Cit B/BRT-0	y 2	COJEC	1			
					0111101111	restrep						
							100	Month		Ap	ril 🗸	
								Year		201	18 -	
_		_					Descri	ption of Sam	ple	Brick	Wall	
S.N.	Location	Lab Ref.no.	Type of Cement	Brand of Cement	Source of Sand	Date of Casting	Date of 7 Days	Testing 28 Days		h, N/mm2 28 Days	Type	
69	R-75	MR-183	Arghakhachi	OPC	Chisang Khola	10 Ama 10	25 4 10	16.16-10	/	Con a second	Grad	
70	R-75	MR-184	Arghakhachi								7.5	
71	R-86	MR-185	Arghakhachi	OPC	Chisang Khola						7.5	
72	N-9	MR-186	Arghakhachi	OPC	Chisang Khola			17-May-18			7.5	
73	R-2			OPC	Chisang Khola				+/		7.5	
74	R-86	MR-187	Arghakhachi Arghakhachi	OPC	Chisang Khola			17-May-18	(6.14)		7.5	
75	R-86	MR-188		OPC	Chisang Khola				10/		7.5	
76		MR-189	Arghakhachi	OPC	Chisang Khola				(6,14		7.5	
-	R-75 Rani Site	MR-190	Arghakhachi	OPC	Chisang Khola				(5.87		7.5	
77		MR-191	Arghakhachi	OPC	Chisang Khola						7.5	
78	R-183	MR-192	Arghakhachi	OPC	Chisang Khola						7.5	
79	R-183	MR-193	Arghakhachi	OPC	Chisang Khola						7.5	
80	R-86	MR-194	Arghakhachi	OPC	Chisang Khola						7,5	
81	R-21 R-86	MR-195 MR-196	Arghakhachi Arghakhachi	OPC OPC	Chisang Khola Chisang Khola						7.5 7.5	
INT	ERNATION	AL ENGIN	EERING CO.	LTD	Consultant BUILDING DESIGN AUTHORITY (P) LTD IN JOINT VENTURE WITH B.N. CONSULTANCY PVT. LTD AND PLUS ENGINEERS & ARCHITECTS (P) LTD, KATHMANDU, NEPAL Verified By Approved By							



			REGIONAL	L URBAN I	DEVI	LOP	MEN	T PF	ROJEC	T		
				Biratnagar	Metro	politar	City					
				Contract No	:- RUD	P/ICB/B	RT-02	1				
			Cumm	nary Sheet of Mo	nthle T-	st Rona	rt of 70	mm Acre				
			Summ	Idi y Sheet of Mo	Bunny 16	st Kepu	11 01 20	mm Agg				
								U	Mon	0,755	Apri	
									Ye		2018	W
									Type of M	Material	20 mm .	Agg
n.	an Ref po.	Date of	Location of	Source of Sample	Sieve!	Size in mn	1 / % Pass	sing by	LAA.	SEL and Film	AFACOC	Remarks
.11.		Testing	Sample	Source of Saulbin	40] 20] 10	4.75	ESA.A.7	Fl and El %	A.I.V.3%	i Kemarks
1	RUDP-CA-40	1-Apr-18	N-3	Chisang Khola	00.000	97.21	32.25	2.59	26.10	21.25/18.97	22.64	
2	RUDP-CA-41	2-Apr-18	₩5	Chisang Khola	100,00	97.41	33.64	1.88	30.10	22.76/21.67	20.25	
3	RUDP-CA-42	5-Apr-18	Koshi-Yard	Chisang Khola	100.00	95.96	33.92	2.47	29.62	22.08/20.87	21.13	
4-1	RUDP-CA-43	6-Apr-18	R-7	Chisang Khola	100,00	95.47	34.62	2.82	29.64	20.12/19.36	20.85	
5	RUDP-CA-44	7-Apr-18	R-86	Chisang Khola	100,00	95.82	31.00	3.65	30.40 -	20.1978.75	21.17	
6	RUDP-CA-45	\$-Apr-18	R-183	Chisang Khola	D00.00	97.07	32.81	3.80	27.64	21.26/17.52	21.86	
7	RUDP-CA-46	1	DDC-Yard	Chisang Khola	100.00	95.93	34.25	2.00	30.20	29.83/18.48	20.59	
}	RUDP-CA-47	11-Apr-18	CN2CN3	Chisang Khola	100.00	96.78	33.93	1.54	29.68	20.35/18.56	21.73	
4	RUDP-CA-43		33-3	Chisang Khola	100.00	96.78	34.00	1.54	30.04	19.64/16.50		
)	RUDP-CA-49	13-Apr-38	329	Chisang Khola	100.00	97.09	34.93	2.77	32.22	21.67/19.82		
H		16-Apr-18		Chisang Khola	100.00	97.24	34.98	3.03	30.98	21.47/(7.7)		i
2	RUDP-CA-51	17-Apr-18	3-75	Chisang Khola	100.00	97.11	34.76	2.77	30.98	21.97/20.95		
3	RUDP-CA-52			Chisang Khola	100.00	97.47	33.79	2.32	29.68	20.84/18.65		
#	RUDP-CA-53	T	3-111	Chisang Khola	100.00	97.02	31.52	2.20	30.98	21.91/17.34		
5	RUDP-CA-54	25-Apr-13	DDC-Yard	Chisang Khola	100.00	97.22	30.38	2.05	29.42	19.56/18.14	1	
6	REIDP-CA-55	24-Apr-15	Rani-Sine	Chisang Khola	100.00	97.15	36.25	2.45	30.84	19.0015.86		
7	RUDP-CA-56		R-2 i(Somoze tatiya)	Chisang Khola	100.00	97.86	32.11	2.14	30.84	20.10/19.59		
8	RUDP-CA-57	25-Apr-18	CN2CNU	Chisang Khola	100.00	96.96	29.88	3,04	29.56	22.30/21.17	-	
Ģ.	RUDP-CA-58	25-Apr-18	DDC-Yani	Chisang Khola	100.00	96.76	35,49	2.33	30.30	20,03715,77		
				Spee. Limit :	100	95~100	25-55	0~10	<35	< 25	<25	
			Contractor						Consu			
						BU	ILDING	DESIG	SN AUTH	ORITY (P)	LTD IN J	OINT
2	HONGHENG	CONSTRI	CTION GROUP	PINTERNATIO	NAT.					SULTANCY		
			EERING CO. LT			T .				RCHITEC		
		197	EMING COLL			Ţ	11031				. /	1
		1 500	القال القال				-	KA	LHMAN	DU, NEPAI		1
		1100	BTM 9U0AO NOTO	10		1	X/				K	
1	=	NOITAMS	ETMI 9UO.90	1/2		di	KX				V	
	ked By			Submitted By		Verifie	d By				Approve	d By
ngi	neer			Contract Mana	ger	Oty Eng	incer/CSI	E			Team Le	







		R	EGIO		Biratnagar M Contract No:-	EVELOPN Metropolitan (RUDP/ICB/BR Concrete CubeTo	City T-02	PROJEC	T	e!	
								Month			pril 018
							T	ype of Materia	1		. Cube
S.N.	Location	Lab Ref.no.	Type of	Brand of	Source of	Date of Casting	Date	of Testing	Strength	, N/mm2	Concrete
1	DDC-vard	RUDP-137	Cement Salimar	Cement	Sand+Agg.		7 Days	28 Days	7 Days	28 Days	Grade
2	R-114	RUDP-137	Salimar	OPC	Chisang Khola Chisang Khola	4-Mar-18	11-Mar-18	1-Apr-18		22.65	M20
3	Koshi-yard		Salimar	OPC		4-Mar-18	11-Mar-18	1-Apr-18		23.18	M20
4	R-76	RUDP-140	Salimar	OPC	Chisang Khola	6-Mar-18	13-Mar-18	3-Apr-18		22.73	M20
5	ALCO YES	IVEC.V.	The state of the s		Chisang Khola	8-Mar-18	15-Mar-18	5-Apr-18		22.73	M20
6	Koshi-yard CN2CN3	RUDP-141	Salimar	OPC	Chisang Khola	9-Mar-18	16-Mar-18	6-Apr-18		22.80	M20
7	Koshi-yard	RUDP-142 RUDP-143	Salimar	OPC	Chisang Khola	9-Mar-18	16-Mar-18	6-Apr-18		18.00	M15
8			Salimar	OPC	Chisang Khola	11-Mar-18	18-Mar-18	8-Apr-18		22.41	M20
_	CN2CN3	RUDP-144	Salimar	OPC	Chisang Khola	11-Mar-18	18-Mar-18	8-Apr-18		22.73	M20
9	DDC-yard	RUDP-145	Salimar	OPC	Chisang Khola	11-Mar-18	18-Mar-18	8-Apr-18		22.58	M20
10	Koshi-yard	RUDP-146	Salimar	OPC	Chisang Khola	13-Mar-18	20-Mar-18	10-Apr-18		23.33	M20
11	Koshi-yard	RUDP-147	Salimar	OPC	Chisang Khola	13-Mar-18	20-Mar-18	10-Apr-18		22.95	M30
12	R-76	RUDP-148	Salimar	OPC	Chisang Khola	13-Mar-18	20-Mar-18	10-Apr-18		23.03	M20
13	DDC-yard	RUDP-149	Salimar	OPC	Chisang Khola	14-Mar-18	21-Mar-18	11-Apr-18		22.65	M20
14	Rani-Site	RUDP-150	Salimar	OPC	Chisang Khola	14-Mar-18	21-Mar-18	11-Apr-18		22.67	M20
15	CN2CN3	RUDP-151	Salimar	OPC	Chisang Khola	14-Mar-18	21-Mar-18	11-Apr-18		26:19	M25
16	R-88	RUDP-152	Salimar	OPC	Chisang Khola	14-Mar-18	21-Mar-18	11-Apr-18		23.41	M20
17	R-17	RUDP-153	Salimar	OPC	Chisang Khola	15-Mar-18	22-Mar-18	12-Apr-18		23.63	M20
18	R-76	RUDP-154	Salimar	OPC	Chisang Khola	15-Mar-18	22-Mar-18	12-Apr-18		22.58	M20
19	R-88	RUDP-155	Salimar	OPC	Chisang Khola	15-Mar-18	22-Mar-18	12-Apr-18		22.73	M20
20	R-40	RUDP-156	Salimar	OPC	Chisang Khola	16-Mar-18	23-Mar-18	13-Apr-18		22.80	M20
21	R-18	RUDP-157	Salimar	OPC	Chisang Khola	16-Mar-18	23-Mar-18	13-Apr-18		23.10	M20
22	B-1	RUDP-158	Salimar	OPC	Chisang Khola	16-Mar-18	23-Mar-18	13-Apr-18		23.41	M20
23	Rani-Site	RUDP-159	Salimar	OPC	Chisang Khola	16-Mar-18	23-Mar-18	13-Apr-18		23.03	The Property
24	DDC-yard	RUDP-160	Salimar	OPC	Chisang Khola	16-Feb-18	100000000000000000000000000000000000000		-	Printer Company	M20
25	CN2CN3	RUDP-161	Salimar	OPC			23-Feb-18	16-Mar-18		22.73	M20
26			Salimar		Chisang Khola	16-Mar-18	23-Mar-18	13-Apr-18		16.41	M15
27	DDC-yard CN2CN3	RUDP-162 RUDP-163	Salimar	OPC OPC	Chisang Khola	16-Mar-18	23-Mar-18	13-Apr-18		3379	M30
28	Koshi-yard	RUDP-164	Salimar	OPC	Chisang Khola Chisang Khola	16-Mar-18	23-Mar-18	13-Apr-18		23.18	M20
29	Rani-Site	RUDP-165	Salimar	OPC	240-240-5	72.00	23-Mar-18	13-Apr-18		22,73	M20
30	CN2CN3	RUDP-166	Salimar	OPC	Chisang Khola	16-Mar-18	23-Mar-18	13-Apr-18		22.73	M20
31	R-17	RUDP-166		29.5	Chisang Khola	17-Mar-18	24-Mar-18	14-Apr-18		22.95	M20
	1000	100000000000000000000000000000000000000	Salimar	OPC	Chisang Khola	17-Mar-18	24-Mar-18	14-Apr-18		23.71	M20
32	R-76	RUDP-168	Salimar	OPC	Chisang Khola	17-Mar-18	24-Mar-18	14-Apr-18		22.73	M20
33	CN2CN3	RUDP-169	Salimar	OPC	Chisang Khola	18-Mar-18	25-Mar-18	15-Apr-18		16.93	M15
34	CN2CN3	RUDP-170	Salimar	OPC	Chisang Khola	18-Mar-18	25-Mar-18	15-Apr-18		23.10	M20
35	DDC-yard	RUDP-171	Salimar	OPC	Chisang Khola	18-Mar-18	25-Mar-18	15-Apr-18		32.20	M30
36	Koshi-yard	RUDP-172	Salimar	OPC	Chisang Khola	19-Mar-18	26-Mar-18	16-Apr-18		22.73	M20
		CHENG CO				VENTURE '	WITH B.N.	Consultant AUTHORIT CONSULTARS & ARCHI	ANCY P	VT. LTD	AND
heck	ed By	ONGHEWG CONSTR	12 * '01		Submitted By	Verified By Qty Engineer/C				proved E	



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

								Month		Ap	ril
								Year		20	
							Typ	e of Materi	al	Conc.	Cube
S.N.	Location	Lab Ref.no.	Type of	Brand of	Source of	Date of	Date of	of Testing	Strengt	h, N/mm2	1000
			Cement	Cement	Sand+Agg.	Casting	7 Days	28 Days	7 Days	28 Days	Grade
37	CN2CN3	RUDP-173	Salimar	OPC	Chisang Khola	19-Mar-18	26-Mar-18	16-Apr-18		24.16	M20
38	R-17	RUDP-174	Salimar	OPC	Chisang Khola	19-Mar-18	26-Mar-18	16-Apr-18		23.41	M20
39	DDC-Yard	RUDP-175	Salimar	OPC	Chisang Khola	20-Mar-18	27-Mar-18	17-Apr-18		23.56	M20
40	Koshi-yard	RUDP-176	Salimar	OPC	Chisang Khola	20-Mar-18	27-Mar-18	17-Apr-18	1	23.10	M20
41	B3-3	RUDP-177	Salimar	OPC	Chisang Khola	20-Mar-18	27-Mar-18	17-Apr-18	1	22.65	M20
42	Rani Site	RUDP-178	Salimar	OPC	Chisang Khola	21-Mar-18	28-Mar-18	18-Apr-18	1	23.04	M20
43	Koshi-yard	RUDP-179	Salimar	OPC	Chisang Khola	21-Mar-18	28-Mar-18	18-Apr-18	1	23.26	M20
44	Koshi-yard	RUDP-180	Salimar	OPC	Chisang Khola	22-Mar-18	29-Mar-18	19-Apr-18	1	22.81	M20
45	R-86	RUDP-181	Salimar	OPC	Chisang Khola	22-Mar-18	29-Mar-18	19-Apr-18	1	22.73	M20
46	N-4	RUDP-182	Salimar	OPC	Chisang Khola	23-Mar-18	30-Mar-18	20-Apr-18	1	23.26	M20
47	B-1	RUDP-183	Salimar	OPC	Chisang Khola	23-Mar-18	30-Mar-18	20-Apr-18	- 1	22.73	M20
48	CN2CN3	RUDP-184	Salimar	OPC	Chisang Khola	24-Mar-18	31-Mar-18	21-Apr-18	1	23.71	M20
49	B-1	RUDP-185	Salimar	OPC	Chisang Khola	24-Mar-18	31-Mar-18	21-Apr-18		23.71	M20
50	CN2CN3	RUDP-186	Arghakhachi	OPC	Chisang Khola	25-Mar-18	1-Apr-18	22-Apr-18	15.52	23.56	M20
51	Koshi-yard	RUDP-187	Arghakhachi	OPC	Chisang Khola	25-Mar-18	1-Apr-18	22-Apr-18	16.19	23.63	M20
52	DDC-Yard	RUDP-188	Arghakhachi	OPC	Chisang Khola	27-Mar-18	3-Apr-18	24-Apr-18	15.44	23.56	M20
53	N-9	RUDP-189	Arghakhachi	OPC	Chisang Khola	27-Mar-18	3-Apr-18	24-Apr-18	15.44	23.56	M20
54	N-3	RUDP-190	Arghakhachi	OPC	Chisang Khola	27-Mar-18	3-Apr-18	24-Apr-18	14.55	21.83	M20
55	R-7(A)	RUDP-191	Arghakhachi	OPC	Chisang Khola	27-Mar-18	3-Apr-18	24-Apr-18	15.74	22.65	M20
56	Rani Site(Hadtali	RUDP-192	Arghakhachi	OPC	Chisang Khola	28-Mar-18	4-Apr-18	25-Apr-18	16.26	21.83	M20
57	R-86	RUDP-193	Arghakhachi	OPC	Chisang Khola	28-Mar-18	4-Apr-18	25-Apr-18	15.74	22.35	M20
58	R-183	RUDP-194	Arghakhachi	OPC	Chisang Khola	28-Mar-18	4-Apr-18	25-Apr-18	14.77	22.95	M20
59	R-75	RUDP-195	Arghakhachi	OPC	Chisang Khola	29-Mar-18	5-Apr-18	26-Apr-18	15.37	22.65	M20

ZHONGHENG CONSTRUCTION GROUPINTERNATIONAL ENGINEERING CO. LTD

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

Checked By Engineer

Submitted By

Verified By Contract Manager Qty Engineer/CSE



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

S.N. 60 61 62 63 64 65	N-9 R-7(A) R-86 R-75 N-9	Lab Ref.no. RUDP-196 RUDP-197 RUDP-198 RUDP-199	Type of Cement Arghakhachi Arghakhachi	Brand of Cement OPC	Source of Sand+Agg. Chisang Khola	Date of Casting	Date o	Year oe of Materia of Testing		Conc.	Conc
60 61 62 63 64 65	N-9 R-7(A) R-86 R-75	RUDP-196 RUDP-197 RUDP-198	Cement Arghakhachi Arghakhachi	Cement	Sand+Agg.		Date o				Conc
61 62 63 64 65	R-7(A) R-86 R-75	RUDP-196 RUDP-197 RUDP-198	Arghakhachi Arghakhachi	OPC		Casting	100000		_		
61 62 63 64 65	R-7(A) R-86 R-75	RUDP-197 RUDP-198	Arghakhachi	- 2 10/12	Chisana Khola		7 Days	28 Days	7 Days	28 Days	Grad
62 63 64 65	R-86 R-75	RUDP-198		OPC	emanig renota	29-Mar-18	5-Apr-18	26-Apr-18	15.89	23.71	M20
63 64 65	R-75	EAST-CASE	Arghakhachi		Chisang Khola	29-Mar-18	5-Apr-18	26-Apr-18	15.52	22.28	M20
64 65		RUDP-199		OPC	Chisang Khola	29-Mar-18	5-Apr-18	26-Apr-18	14.62	23.78	M20
65	N-9		Arghakhachi	OPC	Chisang Khola	30-Mar-18	6-Apr-18	27-Apr-18	14.1	23.18	M20
		RUDP-200	Arghakhachi	OPC	Chisang Khola	30-Mar-18	6-Apr-18	27-Apr-18	15.29	21.98	M20
	N-3	RUDP-201	Arghakhachi	OPC	Chisang Khola	30-Mar-18	6-Apr-18	27-Apr-18	15.89	24.01	M20
66	R-7(A)	RUDP-202	Arghakhachi	OPC	Chisang Khola	1-Apr-18	8-Apr-18	29-Apr-18	14.77	23.10	M20
67 S	Rani Site(Hadtali Hatt)	RUDP-203	Arghakhachi	OPC	Chisang Khola	1-Apr-18	8-Apr-18	29-Apr-18	14.69	23.18	M20
68	Rani-Site	RUDP-204	Arghakhachi	OPC	Chisang Khola	1-Apr-18	8-Apr-18	29-Apr-18	14.69	21.30	M20
69	CN2CN3	RUDP-205	Arghakhachi	OPC	Chisang Khola	1-Apr-18	8-Apr-18	29-Apr-18	14.55	22.88	M20
70	N-9	RUDP-206	Arghakhachi	OPC	Chisang Khola	1-Apr-18	8-Apr-18	29-Apr-18	14.92	22.20	M20
71	CN2CN3	RUDP-207	Arghakhachi	OPC	Chisang Khola	1-Apr-18	8-Apr-18	29-Apr-18	14.10	22.20	M20
72 I	Koshi-yard	RUDP-208	Arghakhachi	OPC	Chisang Khola	2-Apr-18	9-Apr-18	30-Apr-18	14.1	22.80	M20
73 Sit	Rani- ite(Mahendra Chwok)	RUDP-209	Arghakhachi	OPC	Chisang Khola	2-Apr-18	9-Apr-18	30-Apr-18	14.92	21.83	M20
74 I	DDC-Yard	RUDP-210	Arghakhachi	OPC	Chisang Khola	2-Apr-18	9-Apr-18	30-Apr-18	15.66	22.73	M20
75	R-7(A)	RUDP-211	Arghakhachi	OPC	Chisang Khola	2-Apr-18	9-Apr-18	30-Apr-18	15.81	23.78	M20
76	N-9	RUDP-212	Arghakhachi	OPC	Chisang Khola	2-Apr-18	9-Apr-18	30-Apr-18	14.77	23.56	M20
77	R-75	RUDP-213	Arghakhachi	OPC	Chisang Khola	2-Apr-18	9-Apr-18	30-Apr-18	15.14	22.73	M20
78	R-86	RUDP-214	Arghakhachi	OPC	Chisang Khola	2-Apr-18	9-Apr-18	30-Apr-18	14.77	622.80	M20
79	N-3	RUDP-215	Arghakhachi	OPC	Chisang Khola	3-Apr-18	10-Apr-18	1-May-18	15.29		M20
80 (CN2CN3	RUDP-216	Arghakhachi	OPC	Chisang Khola	3-Apr-18	10-Apr-18	1-May-18	15.14		M20
81	R-86	RUDP-217	Arghakhachi	OPC	Chisang Khola	3-Apr-18	10-Apr-18	1-May-18	14.92		M20
82 K	Koshi-yard	RUDP-218	Arghakhachi	OPC	Chisang Khola	3-Apr-18	10-Apr-18	1-May-18	14.69		M20

ZHONGHENG CONSTRUCTION GROUP INTERNATIONAL ENGINEERING CO. LTD

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

Checked By Engineer

Submitted By

Verified By Contract Manager Qty Engineer/CSE



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

								Month		Ap	ril
								Year		201	8
S.N.							Ty	e of Materi	al	Conc.	Cube
S.N.	Location	Lab Ref.no.	Type of	Brand of	Source of	Date of	Date of	of Testing	Strengtl	h, N/mm2	Conc
			Cement	Cement	Sand+Agg.	Casting	7 Days	28 Days	7 Days	28 Days	Grad
83	DDC-Yard	RUDP-219	Arghakhachi	OPC	Chisang Khola	3-Apr-18	10-Apr-18	1-May-18	14.92		M20
84	DDC-Yard	RUDP-220	Arghakhachi	OPC	Chisang Khola	3-Apr-18	3-Apr-18	1-May-18	14.55		M20
85	Rani Site(Hadtali Hatt)	RUDP-221	Arghakhachi	OPC	Chisang Khola	3-Apr-18	10-Apr-18	1-May-18	14.62		M20
86	R-75	RUDP-222	Arghakhachi	OPC	Chisang Khola	4-Apr-18	11-Apr-18	2-May-18	14.55		M20
87	R-7(A)	RUDP-223	Arghakhachi	OPC	Chisang Khola	4-Apr-18	11-Apr-18	2-May-18	14.69		M20
88	N-9	RUDP-224	Arghakhachi	OPC	Chisang Khola	4-Apr-18	11-Apr-18	2-May-18	14.4		M20
89	R-86	RUDP-225	Arghakhachi	OPC	Chisang Khola	4-Apr-18	11-Apr-18	2-May-18	15.14		M20
90	Rani Site	RUDP-226	Arghakhachi	OPC	Chisang Khola	4-Apr-18	11-Apr-18	2-May-18	14.25		M20
91	CN2CN3	RUDP-227	Arghakhachi	OPC	Chisang Khola	5-Apr-18	12-Apr-18	3-May-18	15.22		M20
92	Koshi-yard	RUDP-228	Arghakhachi	OPC	Chisang Khola	5-Apr-18	12-Apr-18	3-May-18	14,47		M20
93	N-9	RUDP-229	Arghakhachi	OPC	Chisang Khola	5-Apr-18	12-Apr-18	3-May-18	14.47		M20
94	R-86	RUDP-230	Arghakhachi	OPC	Chisang Khola	5-Apr-18	12-Apr-18	3-May-18	14.10		M20
95	CN2CN3	RUDP-231	Arghakhachi	OPC	Chisang Khola	5-Apr-18	12-Apr-18	3-May-18	14.25		M20
96	Koshi-yard	RUDP-232	Arghakhachi	OPC	Chisang Khola	6-Apr-18	13-Apr-18	4-May-18	15.22		M20
97	Rani Site	RUDP-233	Arghakhachi	OPC	Chisang Khola	6-Apr-18	13-Apr-18	4-May-18	14.99		M20
98	N-9	RUDP-234	Arghakhachi	OPC	Chisang Khola	6-Apr-18	13-Apr-18	4-May-18	14.92		M20
99	R-75	RUDP-235	Arghakhachi	OPC	Chisang Khola	6-Apr-18	13-Apr-18	4-May-18	15.37		M20
100	R-86	RUDP-236	Arghakhachi	OPC	Chisang Khola	6-Apr-18	13-Apr-18	4-May-18	15.66		M20
101	DDC-Yard	RUDP-237	Arghakhachi	OPC	Chisang Khola	6-Apr-18	13-Apr-18	4-May-18	14.77		M20
102	Rani Site (Mahendra Chowk)	RUDP-238	Arghakhachi	OPC	Chisang Khola	6-Apr-18	13-Apr-18	4-May-18	14.55		M20
103	CN2CN3	RUDP-239	Arghakhachi	OPC	Chisang Khola	6-Apr-18	13-Apr-18	4-May-18	15.29		M20
104	R-75	RUDP-240	Arghakhachi	OPC	Chisang Khola	6-Apr-18	13-Apr-18	4-May-18	14.17		M20
105	DDC-Yard	RUDP-241	Arghakhachi	OPC	Chisang Khola	7-Apr-18	14-Apr-18	5-May-18	14.10		M20
106	DDC-Yard	RUDP-242	Arghakhachi	OPC	Chisang Khola	7-Apr-18	14-Apr-18	5-May-18	20.96		M30

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

Checked By Engineer

Submitted By

Verified By

Contract Manager | Qty Engineer/CSE



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

								Month		Ap	ril /
								Year		20	18
S.N. Location	T					Typ	e of Materi	al	Conc.	Cube	
S.N.	Location	Lab Ref.no.	Type of	Brand of	Source of	Date of	Date o	of Testing	Strengt	h, N/mm2	Conc
			Cement	Cement	Sand+Agg.	Casting	7 Days	28 Days	7 Days	28 Days	V
107	CN2CN3	RUDP-243	Arghakhachi	OPC	Chisang Khola	7-Apr-18	14-Apr-18	5-May-18	14.55		M20
108	Koshi Yard	RUDP-244	Arghakhachi	OPC	Chisang Khola	7-Apr-18	14-Apr-18	5-May-18	15.74		M20
109	N-9	RUDP-245	Arghakhachi	OPC	Chisang Khola	7-Apr-18	14-Apr-18	5-May-18	14.84		M20
110	R-86	RUDP-246	Arghakhachi	OPC	Chisang Khola	7-Apr-18	14-Apr-18	5-May-18	14.32		M20
111	R-75	RUDP-247	Arghakhachi	OPC	Chisang Khola	7-Apr-18	14-Apr-18	5-May-18	14.99		M20
112	R-7(A)	RUDP-248	Arghakhachi	OPC	Chisang Khola	7-Apr-18	14-Apr-18	5-May-18	14.84		M20
113	R-183	RUDP-249	Arghakhachi	OPC	Chisang Khola	8-Apr-18	15-Apr-18	6-May-18	15.44		M20
114	CN2CN3	RUDP-250	Arghakhachi	OPC	Chisang Khola	8-Apr-18	15-Apr-18	6-May-18	14.47	-	M20
115	Koshi Yard	RUDP-251	Arghakhachi	OPC	Chisang Khola	8-Apr-18	15-Apr-18	6-May-18	14.84		M20
116	DDC-yard	RUDP-252	Arghakhachi	OPC	Chisang Khola	8-Apr-18	15-Apr-18	6-May-18	14.99		M20
117	N-9	RUDP-253	Arghakhachi	OPC	Chisang Khola	8-Apr-18	15-Apr-18	6-May-18	14.92		M20
118	R-86	RUDP-254	Arghakhachi	OPC	Chisang Khola	8-Apr-18	15-Apr-18	6-May-18	15.37		M20
119	Rani Site	RUDP-255	Arghakhachí	OPC	Chisang Khola	8-Apr-18	15-Apr-18	6-May-18	15.44		M20
120	R-86	RUDP-256	Arghakhachi	OPC	Chisang Khola	8-Apr-18	15-Apr-18	6-May-18	15.07		M20
121	Xenial Hotel	RUDP-257	Arghakhachi	OPC	Chisang Khola	8-Apr-18	15-Apr-18	6-May-18	15.44		M20
122	CN2CN3	RUDP-258	Arghakhachi	OPC	Chisang Khola	8-Apr-18	15-Apr-18	6-May-18	15.52		M20
123	CN2CN3	RUDP-259	Arghakhachi	OPC	Chisang Khola	8-Apr-18	15-Apr-18	6-May-18	14.99		M20
124	R-86	RUDP-260	Arghakhachi	OPC	Chisang Khola	8-Apr-18	15-Apr-18	6-May-18	15.29		M20
125	R-7 (A)	RUDP-261	Arghakhachi	OPC	Chisang Khola	8-Apr-18	15-Apr-18	6-May-18	15.74		M20
126	CN2CN3	RUDP-262	Arghakhachi	OPC	Chisang Khola	9-Apr-18	16-Apr-18	7-May-18	15.07		M20
127	DDC-yard	RUDP-263	Arghakhachi	OPC	Chisang Khola	9-Apr-18	16-Apr-18	7-May-18	15.07		M20
128	N-5	RUDP-264	Arghakhachi	OPC	Chisang Khola	9-Apr-18	16-Apr-18	7-May-18	14.69		M20
129	Rani Site (Mahendra Chowk)	RUDP-265	Arghakhachi	OPC	Chisang Khola	9-Apr-18	16-Apr-18	7-May-18	14.99		M20
130	Rani Site	RUDP-266	Arghakhachi	OPC	Chisang Khola	9-Apr-18	16-Apr-18	7-May-18	14.69		M20

ZHONGHENG CONSTRUCTION GROUP INTERNATIONAL ENGINEERING CO. LTD

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

Checked By Engineer

Submitted By Contract Manager | Qty Engineer/CSE

Verified By

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

								Month		Ap	ril
								Year		20	18
							Ty	pe of Materi	al	Conc.	Cube
S.N.	Location	Lab Ref.no.	Type of Cement	Brand of	Source of	Date of	Date	of Testing	Strengtl	h, N/mm2	Conc
			Cement	Cement	Sand+Agg,	Casting	7 Days	28 Days	7 Days	28 Days	
131	R-86	RUDP-267	Arghakhachi	OPC	Chisang Khola	9-Apr-18	16-Apr-18	7-May-18	14.25		M20
132	R-122	RUDP-268	Arghakhachi	OPC	Chisang Khola	10-Apr-18	17-Apr-18	8-May-18	15.29		M20
133	N-9	RUDP-269	Arghakhachi	OPC	Chisang Khola	10-Apr-18	17-Apr-18	8-May-18	14.25		M20
134	Rani Site (Hadtali Hatt)	RUDP-270	Arghakhachi	OPC	Chisang Khola	10-Apr-18	17-Apr-18	8-May-18	15.29		M20
135	CN2CN3	RUDP-271	Arghakhachi	OPC	Chisang Khola	10-Apr-18	17-Apr-18	8-May-18	14.55		M20
136	DDC-yard	RUDP-272	Arghakhachi	OPC	Chisang Khola	10-Apr-18	17-Apr-18	8-May-18	15.14		M20
137	R-36	RUDP-273	Arghakhachi	OPC	Chisang Khola	10-Apr-18	17-Apr-18	8-May-18	15.81		M20
138	N-5	RUDP-274	Arghakhachi	OPC	Chisang Khola	10-Apr-18	17-Apr-18	8-May-18	14.47		M20
139	Xenial Hotel	RUDP-275	Arghakhachi	OPC	Chisang Khola	11-Apr-18	18-Apr-18	9-May-18	14.55		M20
140	R-21	RUDP-276	Arghakhachi	OPC	Chisang Khola	11-Apr-18	18-Apr-18	9-May-18	15.14		M20
141	R-21	RUDP-277	Arghakhachi	OPC	Chisang Khola	11-Apr-18	18-Apr-18	9-May-18	15.14		M20
142	R-75	RUDP-278	Arghakhachi	OPC	Chisang Khola	11-Apr-18	18-Apr-18	9-May-18	14.84		M20
143	CN2CN3	RUDP-279	Arghakhachi	OPC	Chisang Khola	11-Apr-18	18-Apr-18	9-May-18	15.07		M20
144	DDC-yard	RUDP-280	Arghakhachi	OPC	Chisang Khola	11-Apr-18	18-Apr-18	9-May-18	14.4		M20
145	Rani Site (Mahendra chwok)	RUDP-281	Arghakhachi	OPC	Chisang Khola	12-Apr-18	19-Apr-18	10-May-18	14.84		M20
146	R-86	RUDP-282	Arghakhachi	OPC	Chisang Khola	12-Apr-18	19-Apr-18	10-May-18	14.47		M20
147	R-122	RUDP-283	Arghakhachi	OPC	Chisang Khola	12-Apr-18	19-Apr-18	10-May-18	14.84		M20
148	CN2CN3	RUDP-284	Arghakhachi	OPC	Chisang Khola	12-Apr-18	19-Apr-18	10-May-18	14.17		M20
149	N-9	RUDP-285	Arghakhachi	OPC	Chisang Khola	12-Apr-18	19-Apr-18	10-May-18	14.69		M20
150	R-86	RUDP-286	Arghakhachi	OPC	Chisang Khola	13-Apr-18	20-Apr-18	11-May-18	14.92		M20
151	Rani Site (Mahendra chwok)	RUDP-287	Arghakhachi	OPC	Chisang Khola	13-Apr-18	20-Apr-18	11-May-18	14.99		M20
152	N-9	RUDP-288	Arghakhachi	OPC	Chisang Khola	13-Apr-18	20-Apr-18	11-May-18	14.84		M20
153	R-122	RUDP-289	Arghakhachi	OPC	Chisang Khola	13-Apr-18	20-Apr-18	11-May-18	15.14		M20
154	DDC-yard	RUDP-290	Arghakhachi	OPC	Chisang Khola	13-Apr-18	20-Apr-18	11-May-18	16.04		M30

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 | Qty Engineer/CSE

Verified By



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

								Month		Ap	ril
								Year		201	
S.N. Location 155 DDC-yard 166 Rani Site						Ty	e of Materia	al	Conc.	Cube	
S.N.	Location	Lab Ref.no.	Type of	Brand of	Source of	Date of	Date of	of Testing	Strengtl	n, N/mm2	
			Cement	Cement	Sand+Agg.	Casting	7 Days	28 Days	7 Days	28 Days	ete Grad
155	DDC-yard	RUDP-291	Arghakhachi	OPC	Chisang Khola	14-Apr-18	21-Apr-18	12-May-18	16.04		M20
156	Rani Site (Hadtali Hatt)	RUDP-292	Arghakhachi	OPC	Chisang Khola	14-Apr-18	21-Apr-18	12-May-18	15.22		M20
157	Rani Site	RUDP-293	Arghakhachi	OPC	Chisang Khola	14-Apr-18	21-Apr-18	12-May-18	16.11		M20
158	N-9	RUDP-294	Arghakhachi	OPC	Chisang Khola	14-Apr-18	21-Apr-18	12-May-18	15.52		M20
159	R-86	RUDP-295	Arghakhachi	OPC	Chisang Khola	14-Apr-18	21-Apr-18	12-May-18	15.74		M20
160	Rani Site (Mahendra chwok)	RUDP-296	Arghakhachi	OPC	Chisang Khola	15-Apr-18	22-Apr-18	13-May-18	15.44		M20
161	Rani Site (Mahendra chwok)	RUDP-297	Arghakhachi	OPC	Chisang Khola	15-Apr-18	22-Apr-18	13-May-18	15.44		M20
162	CN2CN3	RUDP-298	Arghakhachi	OPC.	Chisang Khola	15-Apr-18	22-Apr-18	13-May-18	14.62		M20
163	R-75	RUDP-299	Arghakhachi	OPC	Chisang Khola	16-Apr-18	23-Apr-18	14-May-18	14.84		M20
164	R-33	RUDP-300	Arghakhachi	OPC	Chisang Khola	17-Apr-18	24-Apr-18	15-May-18	14.69		M20
165	R-36	RUDP-301	Arghakhachi	OPC	Chisang Khola	17-Apr-18	24-Apr-18	15-May-18	15.14		M20
166	R-21	RUDP-302	Arghakhachi	OPC	Chisang Khola	17-Apr-18	24-Apr-18	15-May-18	15.37		M20
167	Rani Site (Hadtali Hatt)	RUDP-303	Arghakhachi	OPC	Chisang Khola	18-Apr-18	25-Apr-18	16-May-18	14.17		M20
168	R-75	RUDP-304	Arghakhachi	OPC	Chisang Khola	18-Apr-18	25-Apr-18	16-May-18	15.14		M20
169	DDC-yard	RUDP-305	Arghakhachi	OPC	Chisang Khola	19-Apr-18	26-Apr-18	17-May-18	15.37		M20
170	DDC-yard	RUDP-306	Arghakhachi	OPC	Chisang Khola	19-Apr-18	26-Apr-18	17-May-18	15.37		M20
171	CN2CN3	RUDP-307	Arghakhachi	OPC	Chisang Khola	19-Apr-18	26-Apr-18	17-May-18	14.40		M20
172	R-36	RUDP-308	Arghakhachi	OPC	Chisang Khola	19-Apr-18	26-Apr-18	17-May-18	14.4		M20
173	R-21	RUDP-309	Arghakhachi	OPC	Chisang Khola	20-Apr-18	27-Apr-18	18-May-18	15.14		M20
174	N-5	RUDP-310	Arghakhachi	OPC	Chisang Khola	20-Apr-18	27-Apr-18	18-May-18	14.99		M20
175	R-33	RUDP-311	Arghakhachi	OPC	Chisang Khola	21-Apr-18	28-Apr-18	19-May-18	14.99		M20
176	R-36	RUDP-312	Arghakhachi	OPC	Chisang Khola	21-Apr-18	28-Apr-18	19-May-18	14.32		M20
175	N-5	RUDP-313	Arghakhachi	OPC	Chisang Khola	21-Apr-18	28-Apr-18	19-May-18	15.29	_	M20
176	R-86	RUDP-314	Arghakhachi	OPC	Chisang Khola	21-Apr-18	28-Apr-18	19-May-18	14.69	-	M 3 0
											~

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

Cheeked By Engineer

Submitted By Contract Manager Qty Engineer/CSE

Verified By

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

								Month		Ap	ril
								Year		20	18
							Тур	e of Materi	al	Conc.	Cube
S.N.	Location	Lab Ref.no.	Type of	Brand of	Source of	Date of	Date o	of Testing	Strengt	h, N/mm2	100000
			Cement	Cement	Sand+Agg.	Casting	7 Days	28 Days	7 Days	28 Days	ete Grade
177	Rani Site (Hadtali Hatt)	RUDP-315	Arghakhachi	OPC	Chisang Khola	22-Apr-18	29-Apr-18	20-May-18	15.74		M20
178	CN2CN3	RUDP-316	Arghakhachi	OPC	Chisang Khola	22-Apr-18	29-Apr-18	20-May-18	14.32		M20
179	CN2CN3	RUDP-317	Arghakhachi	OPC	Chisang Khola	22-Apr-18	29-Apr-18	20-May-18	14.32		M20
180	Rani Site (Mahendra chwok)	RUDP-318	Arghakhachi	OPC	Chisang Khola	22-Apr-18	29-Apr-18	20-May-18	15.29		M20
181	R-2	RUDP-319	Arghakhachi	OPC	Chisang Khola	23-Apr-18	30-Apr-18	21-May-18	14.62		M20
182	R-33	RUDP-320	Arghakhachi	OPC	Chisang Khola	23-Apr-18	30-Apr-18	21-May-18	14.92		M20
183	Rani Site (Hadtali Hatt)	RUDP-321	Arghakhachi	OPC	Chisang Khola	23-Apr-18	30-Apr-18	21-May-18	15.07	/	M20
									U		M20
											M20
											M20
_											M20
_											M20
					1						M20
-											M20
_											M20
-										1	M20
-											M20
											M20
											M20
-											M20
											M20
-		-									M20
-											M20
-											M30

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

SOUP INTERMATIO Checked By Engineer

Submitted By

Verified By Contract Manager | Qty Engineer/CSE



			Project:	Regio	nal Ur	aban [Develo	pmen	t Proje	ect	(RUD	P) -		- 200		
			SUMMARY	OF HO	XIM TC	ASPHA	LT CO	NCRE	E WE	ARING	COU	RSE	5 1			
				FOR	THE	HTMO	OF MA	RCH //	APRIL	2018	1	1	W C.3			
			Test R	esult	BY MAI	RSHAL	LMETH	IOD	(AASH	TO T 2	45-78)	-				
				C	ontract	Packa	ge:RUI	P-DSC	BRT/	02					Naz z	
	LAS	Duit of	Location of Work ch:			Mix A % Passir	lgg Grad g Sieve !		1		Eleanen Content From	Max *	Air Voids	VMA A	Standily	Flow to
li	NO.	Laying	:	20	16	9.5	4.75	2.36	9.6	0.075	Fetrucian Test %	gravee		10'	N	I F No W CO
1	1	26/3/2018	Sample FromB2-1, 1+235 to 1+120	100	100	82.07	57.46	34.75	16.19	7.28	5.74	2.372	3,24	16.52	10871	2.55
2	2	28/3/2018	Sample From B2-1,0+745 to 0+290	100	100	82.41	58.04	35.58	16.30	7.93	5.62	2.381	3.05	16.1	10742	2.53
3	,	31/3/2018	Sample From B1,1+106 to 0+748	100	100	82.18	58.01	35.74	16.22	7.85	5.7	2.378	3.03	16.26	19737	2,42
4	4	6402618	Sample From B2-3,0+600 to 0+0740	100	100	93.38	59.78	38.58	15.68	6.77	5.67	2.373	3.28	16.41	10619	2.28
5	5	12/4/2018	Sample From R-16, 0+558 to 0+350	160	100	80.91	56.72	33.81	15.78	6.87	5.73	2.371	3.27	16.52	11091	2.48
6	6	13/4/2018	Sample From R-16,0+380 to 0+000	100	100	80,70	56.73	34.04	16.01	6.99	5.71	2.375	3.16	16.39	11109	2,53
7	7	15/4/2018	Sample From R-28,0+639 to 0+302	100	100	79.96	56.31	33.51	15.69	6.79	5.70	2.376	3.10	16.32	11217	2.48
8	8	26/4/2018	Sample from B3-3 Line 0+500 to 0+704	100	100	81.36	57.42	35.17	17.37	6.78	5.80	2.378	3.19	16.18	13473	2.22
9	9	26/4/2018	Sample from S13-C Line 0+320 to 0+660.	100	109	81.44	57.25	35.19	17.58	7.18	5.73	2.375	(3.10	16.38	13594	2.40
			Specifacations	500	100-100	76-82	54-59	33-37	16-19	6 to 9	5.703	Min2.358	3-6%	≥15	≥ 8500	2-3
	Joë	Mix Toleran	ces from RUCP Specifacation Table2-4-10	15%	Sill	15%	23%	±2%	±1%	100	±0.3%	For (25-51 jann	Thicknes	s W/C Co	urse
R	EMA	RKS:														
Te	est (1;	Contracto	r Reps		itted By:	0			<	B.		by/ Chec			
2	1		Technician	1995		t Manager	1			BUILDING						
		Kalika (Construction Sitee Lab JUDI		300	nstruction gineering			Ī	With			PVT .LTF I) LTD Kai		IS Engine NEPAL	ers

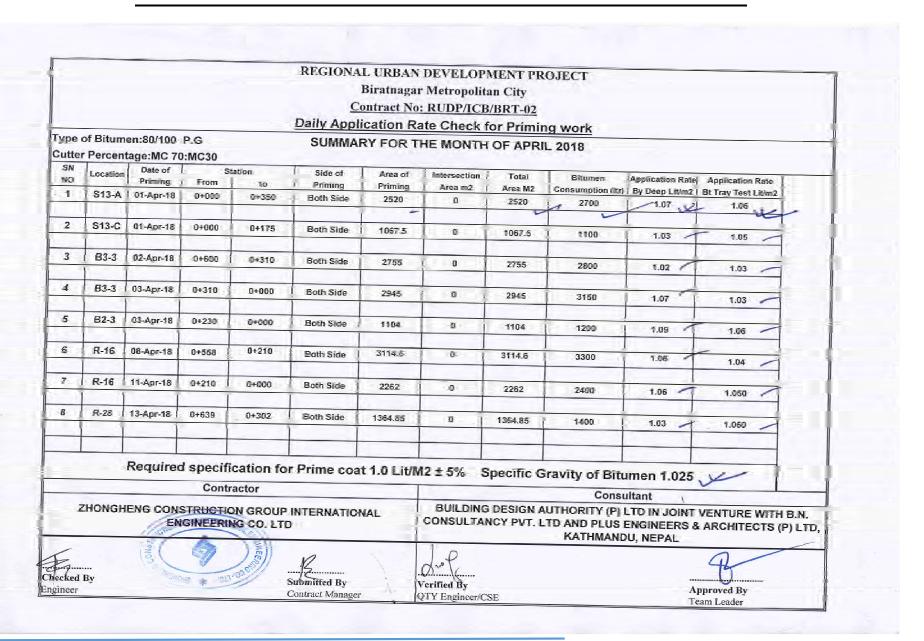


			REGIO	ONAL URI	BAN	DEVE	LOPN	MENT	PRO	JECT			
						r Metro							
				Summary Sheet	of Mon	thly Test	Report o	f Cancre	te Sand				
										Mon	th I	Ap	ell I
										Yea		20	
										Type Mate	of	Cancret	
	Lab.Ret no.	Date of	Location of			Si	ieve Size in	mm / % Pa	ssine by w	eight	-] Lav	
32	Lab.kei no.	I Test I	Sample	Source of Sample	10	4.75	2.36	j	j .	0.300	0.150	Consent	Remarks
9	RUDP-CS-40	3-Apr-18	N.S	Chisane Khola	100.00	95.56	72.29	41.71	0.600	1			
2	RUDP-CS-41	3-Apr-18	N.S	Chisang Khola	100.00	93.30	69.09	33.85	24.75	9.69	3.38	1.63	
3	RUDP-CS-42	3-Apr-18	Kosh-vand	Chisane Khola	100.00	92.96	68,22	41.55	19.68	8.83	3.61	1.31 ,	
4	RUDP-CS-43	3-Apr-18	R-T	Chisang Khola	100.00	95.59	63.03	40.80	23.68 21.26	10.84	4.22	j 1.13	
5	RUDP-CS-44	5-Apr-18	D_86	Chisang Khola	100.00	1 95.63	64.3	1 38.75	18.10	10.15 8.04	4.92 3.71	1 1.32	
5	RUDP-CS-45	6-Apr-18	DOC-Yard	Chisang Khola	100.00	93,49	66	1 36.80	22.82		4.42	1.36	
7		8-Apr-18	R-33	Chisang Khola	[100:00	95.38	64,34	41.26	24.31	12.37 15.36	4.92	1.61	
3	RUDP-CS-47	11-Apr-18	CN2CN3	and the same of th	100.00	93.53	64.22	39.22	21.57	13.48	3.92	1 1.45	
	RUDP-CS-48	11-Apr-18	34.9	Chisang Khola	100.0	93.7	64.55	41.46	21.88	12.64	3.92	1 100	
O I	RUDP-CS-49	12-Apr-18	Madhumara-Yard	Chisang Khola	100.0	93.15	68.26	50.10	24.12	13.85	3.42	1.38	
1 [RUDP-CS-50		R-75	Chisang Khola	T00.00	92.34	66.85	41.68	25.36	16.57	6.21	2.12	
2 1	RUDP-CS-51	15-Apr-18	R-183	Chisang Khola	100.00	92.92	65.09	42.47	28.24	16.79	5.55	1 1.29	
3. 1	RUDP-CS-52	19-Apr-18	R-2	Chisang Khola	100,00	91.43	63.23	36.77	18.35	14.38	7.48	1 1.11	
4.1	RUDP-CS-53	22-Apr-18	R-111	Chisang Khola	100,00	93.48	61.53	37.09	18.23	13.35	6.14	1.11	
5 1	RUDP-CS-54	23-Apr-18	Kosh-vard	Chisang Khola	100.0	93.47	61.11	36.55	17.26	12.52	5.39	1.03	
6	RUDP-CS-55	23-Apr-18 [DDC-Yard	Chisang Khola	E00.00	92.16	67.89	42.40	17.40	9.46	4.31	1.76	
1		1					211.02	12	12.10	2.40	7.71	1.70	
1							İ					1	
				Spee. Limit:	100	90~100	85~100	75~100	60-79	12~40	0~10	<5%	
_												V	
-			Contractor						C	Consultant			147
ZÆ	IONGHENG		CTION GROU EERING CO. L	P INTERNATIO TD	ONAL		N. CON	SULTAN	CYPVI	LTDA	ND PLU	DINT VENTO S ENGINEE DU, NEPAL	
1		Comer	WHITE WILLIAM STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STAT) R		die						8/	
	eked By	0.17		Verified By Approved By							Ву		
וצח	ncer			Contract Manag	zer	Qty Engineer/CSE Team Leader							

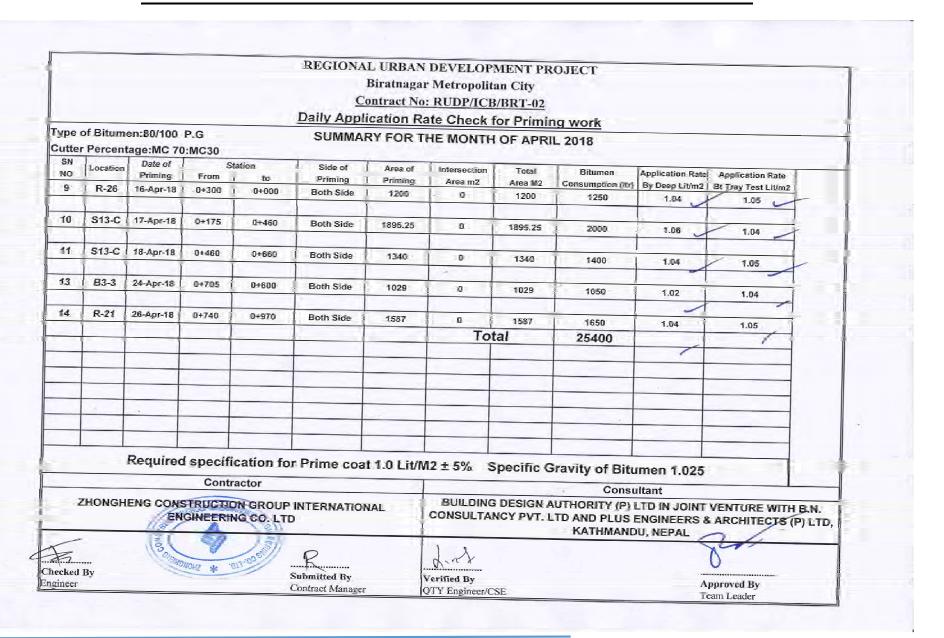


			REGI(ONAL URB	AN I	EVE	LOPM	IENT	PRO.	JECT			
				Bira Cont	tnagar ract No:	Metrop	olitan (ICB/BR)	City Γ-02					
				Sammary Sheet o					e Sand				
										Mon	th	Ap	ril 🗸
										Yea	r	20	
										Type Mater		Cancret	e Sand
S.n.	Lah.Ref no.	Date of	Location of	Source of Sample		59	eve Säze in	mm/%Pa	ssing by w	eight		Clav	
		I Test I	Sample	Source or sample	10	4.75	2.36	1.18	0.600	0.300	0.150	Content%	Remarks
17	RUDP-CS-56		Rani- Site	Chisang Khola	100,00	92.59	78.57	44.51	19.67	9.25	4,86	1 (151	
18	RUDP-CS-57		Koshi-yard	Chisang Khola	100.00	95.52	79.29	41.42	20.71	8.35	4.25	1 (0.75	
19	RUDP-CS-58	24-Apr-18 [CN2CN3	Chisang Khola	100.00	94.89	77.23	46.95	22.21	7.89	3.35	1 108	
20 i	RUDP-CS-59	125-Apr-181	R-21 (Sembare hatiya)	Chisang Khola	100.00	95.19	70.78	1 41.32	20.48	8.63	3.90	1/ 1.69	
21	RUDP-CS-60		R-35	Chisang Khola	100.00	96.06	67.06	1 41.41	22.08	9.81	3.79	1/ 1.35	
22	RUDP-CS-61	126-Apr-181	R-122	Chisang Khola	100.00	95.69	72.78	54.20	26.98	13.67	3.65	1 (1.22	
23 [RUDP-CS-62	126-Apr-181	B.2	Chisang Khola	100.00	94.42	69.13	52,40	23.50	11.33	2.87	1/ 1.44 (
-													
-1		1										1	
- (1						-					
					-								
	¥												
				Spec. Limit :	100	90~100	85~100	75~100	60~79	12~40	0~10	/<5%	
							30 100	.5 100	30-10	12-10	0~10	11/2001	
			Contractor						C	onsultant	V		
_						RIIII N	NC DEC	TON ATO				CARACTE FIRM	
L	HONGHENG			P INTERNATIO	NAL	DOLLIN	M. COM	HUIN AU.	CURI	IPL	DENK	OINT VENT	UKE WIT
		ENGIN	EFRING CO. LT	FD		В.	a. CON	DULIAN	CYPVT	LTD A	ND PLU	S ENGINEE	RS &
							ARC	CHITEC	FS (P) L7	ID, KAT	HMAN	DU, NEPAL	/
		5/)) 0		. 3	1					- /	
4	_	3		1) 10	-	A10.	Χ.					2	
	·	1				11,						***************************************	****
nec	ked By			Submitted By		Verified	By					Approved l	Bv
inc.	200			0-4-3-									-3
11211	neer			Contract Manag	rer	Oty Engine	er/CSE					Team Leade	











			-			Biratna Contract	AN DEVEL gar Metrop No: RUDP/ n Rate Che	olitan City	0.2			
ype o	of Bitum	en:80/100	P.G		SUN	MARY FOR	THE MONTH	OF APRIL	2018			
S.N.	Location	Date of Tack coat	St	ation	Side of Tack coat	Area of Tack coat	Intersection Area m2	Total	2 Phumen	Application Rate		
1	8-1	1-Apr-18	9+740	0+480	LHS	260*4.75	Area m2	Area M2 1235.00	Consumption	By Dip Lixim2	Bt Tray Test Litim2	
			0+690	0+480	RHS	210*4.75	0	997.50	1750	0.73		
	*1		0+470	0+435	LHS -	35*4.75	0	166.25	1100	0.73	0.73	
						To	otal	2398.75				
2	8-1	2-Apr-18	0+375	0+240	BHS	1 135*9.5	1 0 1	1282.50	925	0.72		
								,1101	723	0.72	0.73	
3	B-1	3-Apr-18	0+170	0+060	RHS	110*4.75	0	522.50	1	1	-	
			0+240	0+185	RHS	55*4.75	0	261.25	575	0.73	0.73	
						То	otal	783.75				
4	8-1	4-Apr-18	0+060	0+000	LHS	60*4.75	300	585.00		1	-	
			0+170	0+000	RHS	170"4.9		833.00	1025	0.72	6.73	
						To	tal	1418.00				
								1418.00				
	Re	nuired	tack co	at in O Al	0.4-0.001							
	110	Quileu	tack cu	at 15 0.41	U to U.SUL	IUNIZ AC	cording t	to Road	Note -3,S	ection 711	.2	
					Specific	Gravity of	Bitumen 1	.025			-	
				Contractor						Consul	tant	
ONG	HENG C	ONGTON	TEOUO				Į,	BUILDING I	DESIGN AUT	HORITY (P) L	TD IN JOINT VEN	ITURE WITH B.N.
	TENG C			GUY IN ER	NATIONAL E	NGINEERIN	G CO. LTD	CONSULTA	INCY PVT. L	TD AND PLUS TD, KATHMAN	ENGINEERS &	ITURE WITH B.N. ARCHITECTS (P)
1		1	None Control of the C	Tone		P	A Probati	1.0			(
cked	Bv		Minany	THE TOOKS			•••	15, 16				7
neer						ubmitted By Contract Manag		erified By	CCT		A	pproved By
						American stated	,u JQ	TY Engineer/	USE		Te	am Leader



					Daily A	Contract	gar Metro No: RUDP Rate Ch	politan City /ICB/BRT- eck for TA	02 CK COAT			
ype o	of Bitume	en:80/100	P.G		SUN	MARY FOR	THE MONT	H OF APRIL	2018			
S.N.	Location	Date of		ation	Side of	Area of	Intersection	Total	Situation	Application Rate	Application Rate	
5	B3-3	Tack coat 6-Apr-18	0+600 I	0+443	Tack coat	Tack coat	Area m2	Area M2	Consumption		Bt Tray Test Lit/m2	
		- 1 qui 10	0+443	0+290	LHS	157*9.6 153*4.8	Ū	1507.20				
	i i			01430	Lina	1	otal	734.40	1625	0.72	0.73	
							Tial	2241.60				
6	B3-3	7-Apr-18	0+443	0+290	RHS	163*4.8	. 0	782.40				
			0+290	0+000	BHS	290'9.6		2784.00	2550	0.72	0.73	
						То	otal	3566.40				
								1 1111111				
7	B3-3	8-Apr-18	0+230	0+000	BHS	230*4.8	0	1104.00	800	0.72	0.72	
	6.3											
8	B-1	10-Apr-18	0+470	0+380	BHS	50'9.5	9	570.00	410	0.72	0.73	
9	R-16	10.0										
1	2-10	12-Apr-18	0+558	0+350	BHS	208*8.95	0	1861.60	1350	0.73	0.73	
				N 4 10 2								
	Re	quired	tack co	at is 0.4	0 to 0.60L	.it/M2 Ac	cording	to Road	Note -3,S	ection 71	1.2	
						Gravity of			~			
				Contractor						Consul	tant	
								BILLI DING	DECION ALS	III ADITE CONTRACTOR		
ONG	HENG C	ONSTRUC	CTION GR	OUP INTER	NATIONAL E	NGINEERIN	G CO. LTD	CONSULT	ANCY PVT. L	TD AND PLUS	ENGINEERS &	TURE WITH B.N. ARCHITECTS (P)
		115		181	26 Z 1				L	TD, KATHMAN	IDU, NEPAL	
F		No.	Manual II	ONO NOW OND		R		2.2				R
ecked	Ву					Submitted By		Verified By				V
ineer						Contract Manag		QTY Engineer			A	proved By



						ONAL URBA Biratna Contract Application	gar Metrop	olitan City	02			
Type	of Bitume	en:80/100	P.G		SUI	MMARY FOR	THE MONTH	OF APRIL	2018			
	Location	Date of Tack coat	St From	ation to	Side of Tack coat	Area of	Intersection Area m2	Total Area M2	Bitumen I Consumption	Application Rate	Application Rate	
10	R-16	13-Apr-18	0+350	0+00	BHS	350-6.5	ø	2275.00	1650	0.73	Bt Tray Test Lit/m2 0.72	
11	R-28	15-Apr-18	0+639	0+302	BHS	1337*4.05	т	1364.85	1000 -	0.73	0.73	
12	B3-3	24-Apr-18	0+705	0+600	BHS	105*9.8		1029.00	750	0.73	0.73	
13	S13-C	27-Apr-18	0+660	0+320	BHS	340*6.7	0	2278.00	1650	0.72	0.73	
							To	tal	11785			
						1						
	Re	auired	ack co	at is 0.4	0 ಕನ 0 601	i+/0.80 A o	a a wallia a s	- D - 2		ection 71		
		201102		ut 13 0.4	Specific	Gravity of	Bitumen 1	.025	Note -3,S	ection 71	1.2	
				Contractor						Consu	tant	
								RIHI DING I	DECICN AUT			
HONG	SHENG C	ONSTRUC	HONGR	OUP INTER	NATIONAL I	Engineerin	G CO. LTD	CONSULTA	ANCY PVT. L	TD AND PLUS D, KATHMAN	ENGINEERS &	NTURE WITH B.N. ARCHITECTS (P)
Z		Clark American	TAMPI HE TOWN	MOHOMA		R		July	11.30		9	
hecked Igineer	d By Submitted By							Verified By Approved By QTY Engineer/CSE Team Leader				



15. ANNEX-4: Social Safeguard 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

Month/Year: April-2018

Name of Contractor: -ZHONGGHENG

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

Source & Status	Camp-1	Camp-2	Camp-3	Camp-4	Camp-5	Camp-6	Camp-7	Camp-8	Camp-9	Camp-10	Remarks
a.Source1											
b.Legal Status2											
Code 1.Source: Comr 2.Legal Status: 7. Type and Ow	Legal Ag	reement	t-1, Verb	al Agree	ment -2		es				

Type & Owners	Camp-1	Camp-2	Camp-3	Camp-4	Camp-5	Сатр-6	Camp-/	Camp-8	Camp-9	Camp-10	
a.Type1	2	2	1	2	11	1	1	1	2	1	1
h Ownershin?	1	1	1	1	1	1		1	1	1	

Code

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

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

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

First Aid & Safety	Camp-1	Camp-2	Camp-3	Camp-4	Camp-5	Camp-6	Camp-7	Camp-8	Camp-9	Camp-10	Remarks
a. First-Aid Kit	-	V	V	V	1	V	V	V	~	V	Some Co
b.Helmet	-	V	1-	V	V	V	V	~	V	-	are ad
c. Gloves	V	V	V	1	V	V		V	/	~	aid bix
d.Boots	1	V	V	V	V	V	V	-	~	V.	provi
e.Masks										~	sufety
f							~		V	-	el que



Monitored by



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

Subproject Road : -RUDP/ICB/BRT/2

Month/Year: April- 2018.

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

Contract Package: RUDP/ICB/BRT/2

		Co	mpliance St	atus	Laure Could	De la constant	
S.N	Key Social Issuse	Full	Partial	None	Implementing Agency	Note of Remarks	Deadline
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	~	y.				
7	Basic wage rate to construction workers	~					
8	Equal wage rate to male and female workers		~				
9	Compensation of temporarily occupied land	\sim					
10	Compensation of temporarily occupied buildings	/					
11	Legal document of temporarily occupied assets	<u></u>					
12	www.use of child labour in construction activities			-			



Verified by:

Monitored by:



Regional Urban Development Project(RUDP)

Social Safeguard Monitoring

Inventory of Social Facilities

1.General information

Subproject: -RUDP/ICB/BRT/2

Month/Year: February- 2018.

2.Total num	hers of	ontractor	worker	s involv	od in ro	ad cons	truction	Jurita	down th	o numb	orl		
Type of Wor		ontractor	Camp-1	Camp-2	Camp-3	Camp-4	Camp-5			Camp-8	Camp-9	Camp-10	Remarks
Loca	al .	Male											10641
Loca		Female											people/1
New Co	2221	Male	5	21	38	18	29	19	17	11	17	12.	lives
Non-Lo	ocai	Female	2	1									intheir
1 July 1		Male											own hom
Child La	bour												0.000
	Nez-	Female											
3. Source an	d adequ	acy of drin	king wa	ater fac	ility in t	he labor	ır camp	(use co	de)				
Sourc	es	Camp-1	Camp-2	Camp-3	Camp-4	Camp-5	Camp-6	Camp-7	Camp-8	Camp-9	Camp-10	Re	emarks
a. Piped wat	er			2	10		2	2	2	2			Hundpyn
b.Handpump)	2	2	2	2	2					2		PPIPE bes
c.Tanker													שובל וג
d													C47 P3
Code:													
Insufficient-	1	Sufficient	-2	Plenty-	3								
4. Type and	number	of toilets i	n the la	bour ca	mp (wr	ite dow	n the nu	ımber)					
Туре	Camp-1	Camp-2	Camp-3	Camp-4	Camp-5	Camp-6	Camp-7	Camp-8	Camp-9	Camp-10		Remark	/c
	comp 2	Comp 2	cump 5	Camp 4	Camp-3	Camp-o	Camper	Camp-o	Camp-3	Camp-10		Remain	G
a.Pit Latrine													
b.Pan	2	2	4	J		1	1	3	1				
c.Open													
d													
5. Energy us		our camp	tick ma	ark)									
Sources of E	Camp-1	Camp-2	Camp-3	Camp-4	Camp-5	Camp-6	Camp-7	Camp-8	Camp-9	Camp-10		Remark	rs.
a. Firewood											NEW		
												ker.sc.	fire wood
o.Kerosene		1									und	Kereit	h C





Monitored by:-



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: April 2018

Checklist

SN	Activity	Description/Present Status	Provided Complete and the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state
		(Compliance/Partially Compliance/Non Compliance	Remarks/ Corrective actions for Non- Compliance
1	Training		
11	Health, Safety and EMP trainings and awareness	ites	Conducted last month (reference March 2018 check list)
1.2	Others awareness and skill trainings	Yes	Conducted last month (reference March 2018 check list)
	Occupational health and safety		
2.1	Insurance for workers	Yes	
22	Personal Protective Equipment (PPE) provided to labour sand are using (helmet, facemasks, muffles, gloves, boots, jacket, goggles etc.)	Yes (distributed to labour but partially used)	Orient or award to labour
2.3	Public notification Safety and warning signs and informative signboards in working sites for work safety	Yes	Provided at the working site immediately before work starts





24	Use of barricades, caution tape and flag	Yes	Provided at the working site immediately before work starts
3	Camp site management		
3.1	Location	DDC, Koshi Project, CN, Rani, Shantichowk,	
3.2	First aid facilities available at camp and worksites	Yes	Provided to all the camps
3.3	Drinking water supply and sanitation facilities/ pit latrines	Yes (Water quality not tested)	
3.4	Waste Disposal and Management facilities	Yes	Decaying and Non- decaying dustbin provided at the camp sites
3.5	Type of fuel used for cooking	LP Gas	provided at the camp sites
4	Spoil and Construction material Management		
4.1	Cut and fill balance maintained or not, Reuse of spoil materials	Reused in Backfilling	Į.
4.2	Use of safe spoil disposal locations	Yes	
4.3	Disturbance to Pedestrian and traffic movement	Yes(Diversion are created)	Į.
4.4	Use of private land and agreement with land owners	Yes	Į T
5	Air ,Noise and Water Pollution		
5.1	Dust emission and Noise pollution sites	Water has been sprinkled to minimize dust pollution	
5.2	Water quality monitoring result and locations	No water quality test	Contractor instructed to test immediately



5.3	Blockage of natural drainages, waterlogging, drain water	No	
	discharge into farmland/ risky areas		
6	Quarrying of construction materials and Plants Installment		
6.1	Quarry/borrow operation sites	No	
6.2	Cousher plant and Asphalt plant operation restoration	Yes(Asphalt plant is operated)	
7	Impact/Disruption of Private properties	1	
7.1	Building structures	No	
7.2	Other utilities	No	
8	Impact/disruption of public infrastructures		
8.1	Irrigation canal	No	
8.2	Water supply pipe	Disturbed but repair as required	Repairing immediately from provisional sum
8.3	Access road	No (Traffic diversion with sign board)	
84	Electric/Telephonepole	Poles within RoW	Some are relocated and some are in the process of relocating
8.5	Others		
9	Sites for cultural and religious values		
9.1	Cultural and religious sensitive spots (if any)	. N/A	



44

10	Forest and vegetation	N/A	
10.1	Number of trees removal	N/A	
10.2	No of tree plantation(Roadside)		
11	Accident cases and records		One of the labours from B2-2 named Mohmmad Raja from Forbesgunj, india was hit by Roller during work. The victim was immediately taken to Novel medical College No serious injury and victim was discharged providing simple treatment. One of the Engineers from Contracto Er. Ajad Yadav was encountered with Bike accident while visiting to site with local person, Anjan Bhattarai . He was immediately taken to Life Guard Hospital. No serious injury was found by X-ray report Now he is at site.
12	Employment to local people		Record of labour maintained
12.1	Men and women	Men 219-, Women -12	
122	Child labour (if any)	No	Immediate action against child labour
13	Establishment of Safeguard desk and meeting	Yes	
14	Grievances from local people and addressed	Yes	GRM recorded and addressed

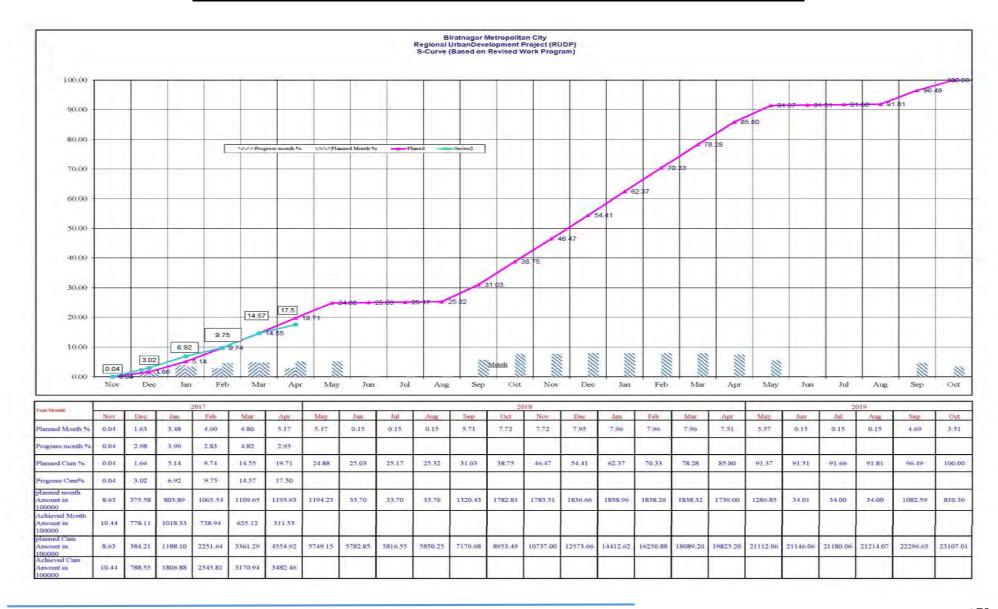
Prepared By

Er. Dhiraj Sardar(Safety In charge RUDP Biratnagar)





16. ANNEX-5: S-Curve Attached





17. ANNEX- 6: MASTER PLAN OF RUDP PROJECT Attached

RUDP PROJECT (Road)

