

# **Building Design Authority (P) Ltd**

in joint Venture with

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

# **Monthly Progress Report**

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



February 2018

Biratnagar Metropolitan City (BMC), Nepal

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### 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.

- Design and Supervision consulting services signed on 28<sup>th</sup> August 2017.
- Design and supervision works commenced on 6<sup>th</sup> September 2017.
- Contract of construction works signed on 10<sup>th</sup> October 2017.
- Construction works commenced on 2<sup>nd</sup> Nov 2017.



# 2 SALIENT FEATURE OF CONTRACT PACKAGE: - RUDP/ICB/BRT/2

Gen	eral Features				
Name of Project	Regional Urban Development Project(RUDP)				
Executing Agency	Government of Nepal, Ministry of Urban Development Department of Urban Development and Building Construction (DUDBC)				
Implementing Agency	Biratnagar Metropolitan City, Biratnagar				
Funded By	Asian Development Bank & Government of Nepal				
Package	Construction and Completion of Sewerage, Drainage, Road, Footpath and Road furniture works				
Contract No.	RUDP/ICB/BRT/2				
Location	Biratnagar Metropolitan City, Biratnagar				
Consultant	Building Design Authority (P) LTD in Joint Venture With B.N. consultancy Pvt and PLUS Engineers and Architects (P) Ltd Kathmandu.				
Contractor	ZHONGHENG Construction Group International Engineering co Ltd. Beijing, China.				
Date of Commencement	2 <sup>nd</sup> November2017				
Completion Date	1 <sup>st</sup> November 2019				
Contract Amount including PS and VAT	NRs. 2,611,092,249.63				
Physical Progress up to date	Planned: 9.74%, Actual: 9.75%; Lead by 0.01% S curve attached				



### 3 SUB PROJECT COMPONENTS

### 3.1 SEWER LINES

Surveying works going on after identifying the all sewer lines i.e. T1, T2, T3, and T4. Production of manhole cover and precut are also going on. Laying of RCC Hume pipe as well as HDEP have already been started on T2 Line 7, T2 line 27, Trunk line T4 and T4 Line 1.

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 (Secondry)	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 February, 2018** 

		Во	ρQ	Up to I	Up to Pre Month		This month		Total to date	
SN	Locations	Length (m)	Manhol e (no)	Lengt h(m)	Manhole (no)	Length (m)	Manhol e (no)	Lengt h (m)	Manhol e (no)	Progress %
1	Hume pipe(T2)	206	6							
2	Hume pipe(T3)	1905	58							
3	Hume Pipe (T4)	130	4			130	4	130	4	
	Subtotal in (m)	2241	68							
1	HDPE(T1)	1825	57	,						
2	HDPE(T2)	3927	147			120	5	120	5	
3	HDPE(T3)	9997	316			221	8	221	8	
4	HDPE(T4)	2092	68			170	6	374	6	
	Subtotal in (m)	17841	588			641	23	641	23	3.592%
	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							

# STORM WATER DRAIN

3.2 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 and piling works are going on simultaneously. The detail of the progress is shown in the table below:

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

		Proposed	Progre	ess			
SN	Location	Length in (m)	Up to previous month in (m)	This month in (m)	Total till date (m)	Progress %	
1	CN2-CN3	652.89			200 m	Construction of drain works going on	
2							
2	CN2-CN3	132 nos piles	50	88nos	138 nos	Piling works going on	

## **ROADS AND LANES**

3.3 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 February, 2018

SN	Road	Propose d	Progress Length in (m)		Total till date	Progress %
	Name	Length( m)	Upto previous month	This month		
1	R3A	600	600	0	600	(100%)Sub grade,
2	R42	218	127	91	218	(100%)Sub grade,
3	R104	273	271	0	271	(99.26%)Sub grade
4	Rani site	4023	2315	0	2315	(57.54%)Sub grade,
5	R37	477	477	0	477	(100%)Sub grade,
6	R29	620	343	277	620	(100%)Sub grade,
7	R30	212	207	0	207	(97.64%)Sub grade,
8	R9	570	117	333	450	(78.94%)Sub grade,
9	R5	603	603	0	603	(100%)Sub grade,
10	R16	604	580	0	580	(96.18%)Sub grade,
11	R21	1320	1320	0	1320	(100%)Sub grade,
12	R25	599	580	0	580	(96.82%)Sub grade,
13	R24	384.41	380	0	380	(98.71%)Sub grade,
14	R28	635	343	0	343	(54.54%)Sub grade,
15	R27	810	580	0	580	(71.54%)Sub grade,
16	R26	617	580	0	580	(94.00%)Sub grade
17	B1	1172.94	1120	30	1150	(98.04%)Sub grade,

18	B2	2777.83	2152	0	2152	(77.5%)Sub grade,
19	В3	1574	1574		1574	(100%)Sub Grade ,
20	S11	660	565	95	660	(100%)Sub Grade,
21	S13	1617	1470	147	1617	(100.00%)Sub Grade,
22	R114	320	240	80	320	(100.00%) Sub Grade,
23	R12	660	660	0	660	(100%)Sub Grade
24	R5	370	370	0	370	(100%)Sub Grade
25	R113	420	420	0	420	(100%)Sub Grade
26	R24	384.41	380	0	380	(99.00%)Sub Base
27	R25	599	580	0	580	(96.83%)Sub Base
28	R26	617	580	0	580	(94.00%)Sub Base
29	R27	810	580	0	580	(71.60%)Sub Base
30	R28	635	343	0	343	(54.00%)Sub Base
31	R29	620	343	277	620	(100%)Sub Base
32	R9	544	117	333	450	(61.21%)Sub Base
33	R30	212	207	0	207	(97.65%)Sub Base
34	R42	218	117	101	218	(100%)Sub Base
35	R104	273	273	0	273	(100%)Sub Base
36	B1	1172.94	1120	30	1150	(98.04%) subbase
37	B2	2777.83	2152	0	2152	(77.47%) Sub Base
38	S11	660	340	320	660	(100%) Sub Base
39	S13	1616.26	1470	146.26	1616.26	(100% )Subbase
40	R114	320	240	80	320	(100.00%)Sub Base
41	R12	660	660	660	660	(100%)Sub Base
42	R113	420	420	0	420	(100%)Sub Base

43	R5	603	603	0	603	(100.00%)Sub Base
44	R16	604	580	0	580	(96.10%)Sub Base
45	R21	1320	1320	0	1320	(100%)Sub Base
46	B1	1172.94	1120	30	1150	(98.04%) Base
47	B2	2777.83	2150	0	2152	(100%) Base
48	В3	1630	1630	0	1630	(100%) Base
49	S11	660	565	95	660	(100%) Base
50	S13	1751	1470	281	1751	(100%) Base
51	R114	320	240	80	320	(75.00%) Base
52	R12	660	660	0	660	(100%) Base
53	R113	420	420	0	420	(100%) Base
54	R5	603	603	0	603	(100%) Base
55	R16	604	580	24	604	(100%) Base
56	R21	1320	1320	0	1320	(100%)Base
57	R24	380	380	0	380	(100%) Base
58	R25	600	600	0	600	(100%) Base
59	R26	617	580	0	580	(94%) Base
60	R27	810	580	0	580	(71.61%) Base
61	R28	635	343	0	343	(54.44%) Base
62	R29	620	343	277	620	(100%) Base
63	R9	570	117	333	450	(78.95%) Base
64	R30	212	212	0	212	(100%) Base
65	R37	477	477	0	477	(100%) Base
66	R3A	600	600	0	600	(100%) Base
67	R42	218	127	91	218	(100%) Base

68	R104	273	273	0	273	(100%) Base
69	Rani	2870	2315	0	2315	(80.66%) 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	Remarks
1	Subgrade	m	21535	17820	927	18747	Under progress
2	Sub Base	m	18995	15280	927	16207	Under Progress
3	Base	m	21535	17820	0	17820	Under Progress

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

SN	Road Name/Location	Proposed Length(m)	Progress in (		Total to date	Progress %
	Name/Location	Lengui(m)	Previous month	This month		
1	B1	-	90	-	90	100%
2	R29	620	504	-	504	81.29%
3	N36	-	316	-	316	100%
4	R8	540	460	-	460	100%
5	R7	480	180	-	180	37.5%
6	R9	240	160	48	208	86.67%
7	S13	110	110	0	110	100%
8	N33	-	О	70	70	
9	R28	640	270	0	270	42.18
10	R90	620	466	154	620	100%
11	R114	530	200	330	530	100%

12	R18	762	0	762	762	100%
13	R17	680	0	340	340	50%
14	R113	-	0	200	200	
15	R77	160	0	160	160	100%
16	R76	540	0	100	100	18.51
		5922	2756	2164	4920	83.08%

## **ENVIRONMENTAL ASPECT**

3.4 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.

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.

## SOCIAL ASPECT

3.5 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.

A visit with PIU social Development Officer, Mr. Punam Dahal, PMSC Social Safeguard Expert, Mr. Chetan Dahal and DSC Social Expert Mr Prakash Bhakta Shrestha have visited Landfill site of Dhangraha ,Budhiganga VDC, Ward no 7. The preparation of Stalkholder analysis of communication plan Sanitation Landfill Site is going on.

### FINANCIAL PLAN

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

# 3.7 DISBURSEMENT RECORDS IN CONSTRUCTION

SN	Description of Payment	Total Bill Amount with VAT & PS	Remark					
Table:-5 DISBURSEMENT RECORDS in CONSTRUCTION								
1	IPC 01	339,106,000.00	Mobilization Advance.					
	Grand Total =	339,106,000.00						

### **OBJECTIVES AND SCOPE OF WORKS**

## **OBJECTIVES**

- 4.1 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.

# SCOPE OF WORKS

- 4.2 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.

# 5 PROGRESS OF SUB - PROJECT COMPONENTS CONSTRUCTION MATERIALS.

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

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

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

# 6.1 ORGANIZATION AND STAFFING

# **Attached**

#### ORGANIZATION CHART RUDP (ADB Loan No- 47252 Site Office, Biratnagar Er. Giresh Chand **Team Leader** Er. H.K. Mandal **Construction Supervision Construction Supervision** Engineer Engineer Expert/Oty Surveyor Er. Rajan Shrestha ACSE/Otv Surveyor Er. Sanjeev Yadav Mr.Rajesh Kr. Yadav Er. Pravesh Baral Ir. Engineer Ir. Engineer Oty. Surveyor Ir. Engineer Ir. Engineer Intermittent Expert Er. C. Ghimire - Deputy Team Leader Er. Ashok Ratna Tuladhar - I.S.W.M. Expert Er. Lokendra Raj K.C - Geotechnical Engineer Er. Manohar Rajbhandary - Structural Engineer Mr. Santosh Kr. Yadav - Office Administration/Account Manager Er. Ganesh Kumar Gautam - P. Expert C.M. Specialist Mrs.Neera Pradhan - CAD Operator/draft person - Finance/Economist Dr. Anoop Shresthacharya Er. Dwarika Phuval - Env. Specialist Mr. Ranjit Kr. Mandal - Receptionist/Co. Mr. P.B. Shrestha - Social Safeguard Ms. Hem Kumari Dahal (Muna Ghimire) - Office Attendant Er. Yam Nath Dallakoti - Electrical Engineer Er. Dhruba Bahadur Basnet - Mechanical Engineer



# 6.2 CONSULTANT'S ACTIVITIES IN CONSTRUCTION PHASE

The current staffing of the consultant at project site is as follow

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

SN	Name	Designation	Joining date	Remarks
1	Giresh Chand	Team Leader	6 <sup>th</sup> Sep 2017	
2	Ashok Ratna Tuladhar	ISWM ( Designer)	6 <sup>th</sup> Sep 2017	Intermittent
3	Dwarika Phuyal	Environmental Safeguard Expert	1 Nov 2017	Intermittent
4	Prakash Bhakata Shrestha	Social Safeguard Monitoring Expert	26 <sup>th</sup> dec-2017	Intermittent
5	Hare Krishna Mandal	Expert/Quantity surveyor	1 <sup>st</sup> Nov 2017	
6	Rajan Shrestha	ACSE/Quantity Surveyor	7 <sup>th</sup> Nov 2017	
7	Rajesh Kumar Yadav	Junior Engineer-1	6 <sup>th</sup> Sep 2017	
8	Sanjeev Yadav	Qty Surveyor	5 <sup>th</sup> Nov 2017	
9	Santosh Kumar Yadav	Office Administration/Account Manager	6 <sup>th</sup> Sep 2017	
10	Hem Kumari Dahal (Muna Ghimire)	Office Attendant	6 <sup>th</sup> Sep 2017	
11	Ranjit Kumar Mandal	Receptionist	10 <sup>th</sup> Dec 2017	
12	Pravesh Baral	Junior Engineer-2	10 <sup>th</sup> Dec 2017	
13	Neera Pradhan	CAD operator/Draft Person	10 <sup>th</sup> Dec 2017	
14	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

# 6.3 Key Events

The consultant has noted the following key dates for the month of December, 2017.

Table 8: KEY DATES of EVENTS / ACTIVITIES

S.N.	Date	Activities/Events	Remarks
1		<ul> <li>Deependra Nath Sharma, Secretary MOUD, Shiva Hari Sharma,DG, DUDBC have visited site on 22nd January 2018</li> <li>PIU Social Development Officer,Mr. Punam Dahal, PMSC Social Safeguard Expert Mr. Chetan Dahal and DSC Social Safeguard Expert Mr. Prakash Bhakta Shrestha visited the landfill site of Dangraha, Buddhiganga VDC, Ward No 7 on 12 Feb 2018.</li> <li>Nepal Bandha on dated 20 February 2018 by Netra Bikram Chand-led CPN Maoist</li> <li>Frequent site visit for surveying/supervision by the client and the experts, Engineer, Engineer's representative as required.</li> </ul>	

### 7 DETAILS OF PRE CAST ACTIVITIES.

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

	Physical Progress till February 2018							
				Progress				
S.N.	Description	Unit	BoQ	Up to Previous month (RM.)	This Month (RM.)	Total to Date (RM.)	Remarks	
1	Precast Slab	No		4988	4947	9935	Under progress	
3	Kerb Stone	Rm	147729.68	4500	5600	10100	6.836%	

Physical Progress till Jan- 2018

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

				Progress			
S.N.	Description	Diameter (mm)	BoQ (RM)	Up to Previous month (RM.)	This Month (RM.)	Total to Date (RM.)	Remarks
1	RCC Pipe	300	336	150	186	336	Undon
2	RCC Pipe	450	681	120	150	270	Under
3	RCC Pipe	500	842				process
4	RCC Pipe	600	382	50	180	230	
	Total						

	Physical Progress till Feb- 2018						
S.N.	Description	Diameter (mm)	BoQ (RM)	- I I I I I I I I I I I I I I I I I I I			Remarks
1	HDPE Pipe	110	1987.2				Under
2	HDPE Pipe	200	16656		465	465	process
3	HDPE Pipe	250	115				
	Total						

				Physic	cal Progress till Feb- 2	2018	
					Progress		
S.N.	L Description	Diameter (mm)	BoQ (RM)	Up to Previous month (RM)	This Month (Rm.)	Total to Date (RM.)	Remarks
1	UPVC Pipe	110	30272				Under process.
2	UPVC Pipe	160	5050				



# CONTRACTOR'S MANPOWER

SN NAME	DESIGNATION	NO	REMARKS
---------	-------------	----	---------

### Table 11: CONTRACTOR'S KEY STAFFS in January, 2018

<del>-</del>		Project / Contract Manager	1	
3	Mr. Pragati Nepal	Design Engineer	1	
4	Mr. Benu Shrestha.	Construction Engineer	1	
8	Mr. Dhirendra yadav.	Site Engineer	1	
9	Mr. Santosh Kr Lakhandal.	Site Engineer	1	
10	Mr. Dhirendra Sardar	Site Engineer	1	
11	Mr.Ajad Yadav	Site Engineer	1	
12	Mr.Suman Niraula	Site Engineer	1	
13	Mr.Randir Singh Yadav	Site Engineer	1	
14	Mr. Suman Devkota.	Sub - Engineer	1	
15	Mr.Kamal Limbu	Sub - Engineer	1	
16	Mr. Ambrish Mandal	Sub - Engineer	1	
17	Mr. Sandesh Tamang.	Sub - Engineer	1	
18	Mr. Aakrosh Bista.	Sub - Engineer	1	
19	Mr. Aariff Ali.	Sub - Engineer	1	
20	Mr. Rahul Kr Sharma.	Sub - Engineer	1	
21	Mr. Binod Kumar Das	Sub - Engineer	1	
22	Mr. Dhirendra Mandal	Sub-Engineer	1	
23	Mr. Sudip Chaudhary	Sub-Engineer	1	
24	Mr. Suman Katwal	Sub-Engineer	1	
25	Mr. Punish Yadav	Sub - Engineer	1	
26	Mr. Ganga Pd. Paudel	SLT	1	
27	Mr. Kiran Choudhary	SLT	1	
28	Mr. Aashish Khanal.	Assistant Accountant	1	
29	Mr. Basu Gauli.	Administrative Manager	1	
30	Mr. Bishnu Hari Khanal	Accountant.	1	
31	Operator		9	
32	Driver		23	
25	Skilled labor		124	Yard 1-16 Yard 2- 18
26	Unskilled labor		221	Yard 1-15 Yard 2-13



# CONTRACTOR'S EQUIPMENT

SN	EQUIPMENT	NO	REMARKS			

### Table 12: CONTRACTOR'S EQUIPMENT

1	Excavator	2	
2	Back Hoe JCB	2	
3	Grader	2	
4	Vibrator Roller (8-10 ) ton	2	
5	Water Tanker	8	
6	Tractor	6	
7	Tipper	11	
8	Light Vehicle	6	
9	Motorbike	6	
10	Generator	1	
11	Concrete Mixer (Manual)	6	
12	Plate Compactor	2	
13	Asphalt Paver	1	
14	Tamping Rammer	2	



### 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 B1/B2/B3.
- Pavement work of Rani Road.
- Storm water drainage (CN2-CN3).
- Laying of HDPE pipe for sewer line of T1/T2 secondary.
- Precast production works at contractor's yard.
- Side drain works.
- Laying of kerb Stone and cover slab.
- Sewer Line works



# **ANNEX-1: Photographs of February, 2018**



Pile Foundation works at Chyangbari Nala (CN3-CN2)



Water sprinkling on brick before laying (R18)





Sewer Line works at T4 Line 1



HDPE pipe 200mm dia laying at sewer line T4 Line 1





Drain works at R18



Kerbstone and slab cover at R29





CI cover production at DDC yard (Yard 1)



Cover slab production at DDC Yard





Base work at B1 Road



Cube crushing at Laboratory



# **ANNEX-2: Minutes of Meeting February, 2018**

# Building Design Authority (P) Ltd



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

Biratnagar Metropolitan city, Biratnagar

MINUTES OF MEETING NO. - 6

Contract: RUDP/ICB/BRT- 02

Date: February 06, 2018

Time: 2:00 PM

Venue: TL Office, Biratnagar

#### **Attendance**

### Employer:

1. Mr. Er. Bharat Kumar Neupane, Project Manager

#### Consultants:

1. Mr. Er. Giresh Chand, Team Leader

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

3. Mr. Er. Rajan Shrestha, Engineer/ Quantity Surveyor

4. Mr. Rajesh K Yadav, Jr. Engineer

#### Contractor:

1. Mr. R.K Thakur, Contract Manager

2. Mr. Pragati Nepal, Engineer

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

S.N.	Minutes	Action by
1.	TL briefed about the present status of the work progress.	Consultant
	PM appreciated the present work progress and advised to continue present momentum throughout the project period	Contractor
	Contractor assured to fulfill the same throughout the project period.	
2.	Contractor informed that he would start Asphalt Concrete work by 27 February 2018.He has made all the necessary preparation for the same.	
	PM and TL asked contractor to start Asphalt Concrete B1,B2, B3, S11,S13 Roads	Contractor Consultant

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



# Building Design Authority (P) Ltd



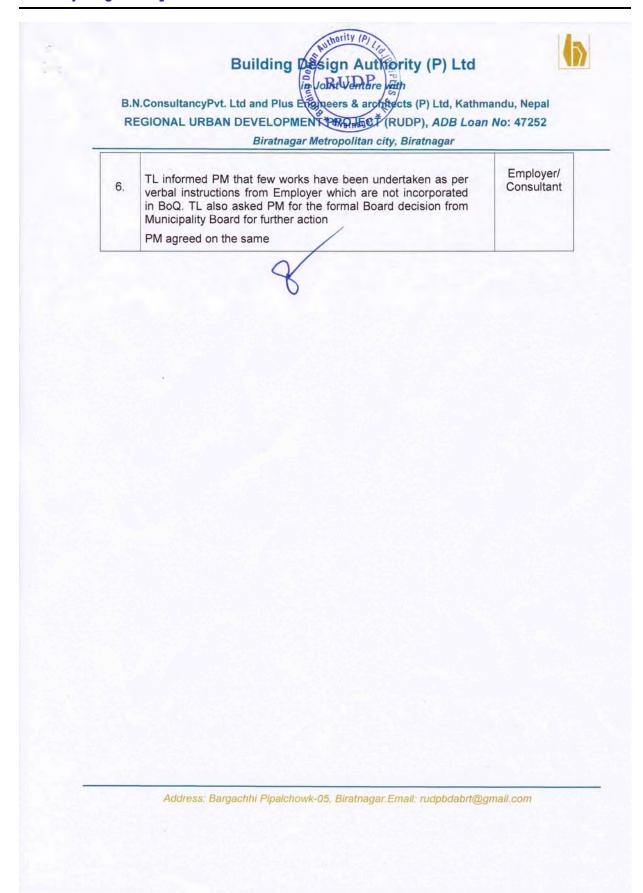
B.N.ConsultancyPvt. Ltd and Plus Engineers & aromitects (P) Ltd, Kathmandu, Nepal REGIONAL URBAN DEVELOPMENT PROJECT (RUDP), ADB Loan No: 47252

Biratnagar Metropolitan city, Biratnagar

Biratnagar Metropolitan city, Biratnagar	
Kerb Stones:  As suggested during ADB mission for flat footpath on road side, it has been decided that the three laying methodologies of Kerbstone have been adopted for existing drain for which the working drawing to the contractor has already been issued as per the advice from employer (PM) during site visit on 2 February 2018 with TL and his Project Engineer Mr. Ghanendra Katwal.  PM agreed on the same	Consultant Contractor
PM advised to keep sewer inlet at road having RoW less than 10m.He further insisted to keep sewer inlet in staggered position rather than placing them in same line with manhole as per site condition. He also further advised to omit sewer inlet at narrow road section and join house connnection direct with the manhole	Consultant Contractor
TL and contractor agreed on the same.	
TL also asked contractor to maintain the house connections constructed during STIEUP project which have been damaged during construction.	
Contractor agreed on the same.	
Electric poles and water supply pipes	Contractor
Contractor informed that he has been shifting electric poles and water supply pipes at the site as per requirement and facing problems for existing water supply pipes.	Contractor Consultant Employer
PM assured that the shifting of electric poles and water supply pipes will be made through provisional sum. He further added Mr. Birendra Yadav, representative of Nepal Water Supply Corporation will be transferred from STIEUP to RUDP for necessary coordination and payment will be made from PS.	
TL informed specification and quality for the same will be as per concerned authorities and requested to PM for the same.	
	As suggested during ADB mission for flat footpath on road side, it has been decided that the three laying methodologies of Kerbstone have been adopted for existing drain for which the working drawing to the contractor has already been issued as per the advice from employer (PM) during site visit on 2 February 2018 with TL and his Project Engineer Mr. Ghanendra Katwal.  PM agreed on the same  Sewer Inlet and House Connection:  PM advised to keep sewer inlet at road having RoW less than 10m.He further insisted to keep sewer inlet in staggered position rather than placing them in same line with manhole as per site condition. He also further advised to omit sewer inlet at narrow road section and join house connection direct with the manhole  TL and contractor agreed on the same.  TL also asked contractor to maintain the house connections constructed during STIEUP project which have been damaged during construction.  Contractor agreed on the same.  Electric poles and water supply pipes  Contractor informed that he has been shifting electric poles and water supply pipes at the site as per requirement and facing problems for existing water supply pipes.  PM assured that the shifting of electric poles and water supply pipes will be made through provisional sum. He further added Mr. Birendra Yadav, representative of Nepal Water Supply Corporation will be transferred from STIEUP to RUDP for necessary coordination and payment will be made from PS.  TL informed specification and quality for the same will be as

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







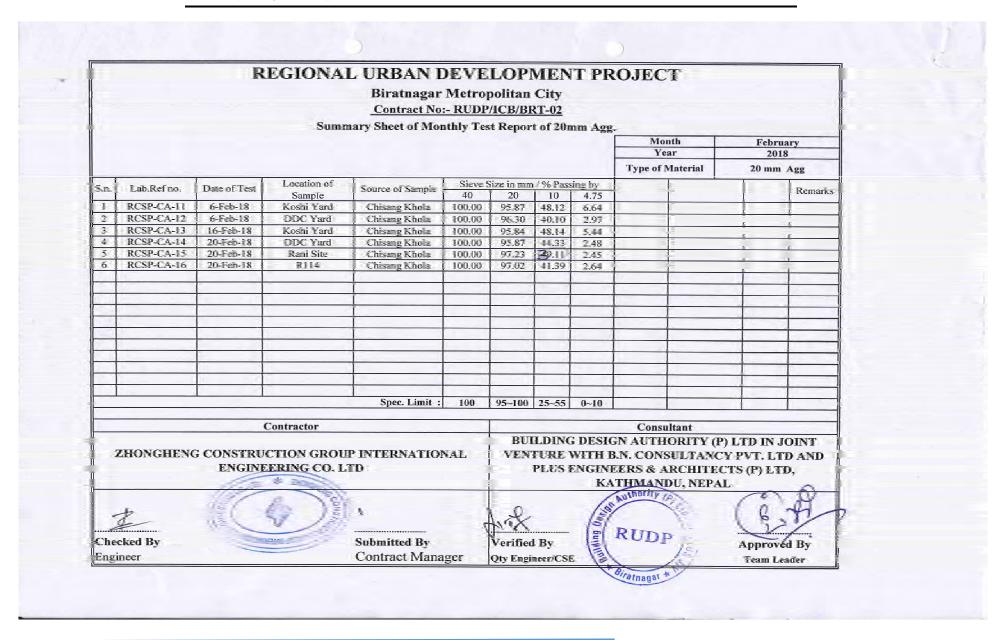
# ANNEX-3: Laboratory Test Results of February, 2018 Attached

			R	EGION		Bi	ratna Contra	gar M	letrop RCSP	olitai /ICB/E	City		PRC	)JE	CT							
	Summary Sheet of Monthly Test Report  Month February																					
																Y	ear		2018			
	Location:- S13-A																Type of Material			Base		
A.I	Lab Ref no.	Location of	Source of Sample	Date of		S	ieve Sizo	in sum /	% passin	g By We	ight-					LAA		ALV	CBR			
	Edit.NCI 80.	Sample	Some of Sample	Testing	40	38.5	26	10	4.75	2.36	0.6	0.075	MDO	OMC	PI%	%	Fl and El %	16	96	Remarks		
1	RUDP-B-01	0+100	Chisang Khola	24-Feb-18	100	94.01	76.74	59.30	39.50	30.95	15.30	5.91			NP	28.40	18,48/17.65	20.84				
2	RUD9-B-02	0+200	Chisang Khola	24-Feb-18	100	93.89	71.11	53.68	40.38	37.34	26.42	2.98	2.243	6.00	NP	25.84	21.46/19.27	2003				
3	RUDP-B-03	0+300	Chisang Khola	24-Feb-18	100	95.82	75.15	59.64	38.05	34.13	18.42	3.19			NP.	24.3%	22.59/20.55	19-98		1		
4	RUDP-B-04	D+350=	Chisang Khola	24-Feb-18	100	86.93	72.78	53:34	28.69	23.76	13.69	3.09	2.232	6.50	NP	2478	22,83/17.07	20.30		8		
				pec. Limit:	100	85-100	62-92	40-70	26-55	21-53	12-28	2-19				<45	<36	<35	>80			
	ZHONG Checked Enginee	By	CONSTRUCT				Submit	ONAL		VENG	TURE NEER	WITI S & A	H B.N.	GN AI	SUI	ORIT	CY (P) LTI CY PVT. D, KATH	MANE App	ND I	PLUS EPAL d By		

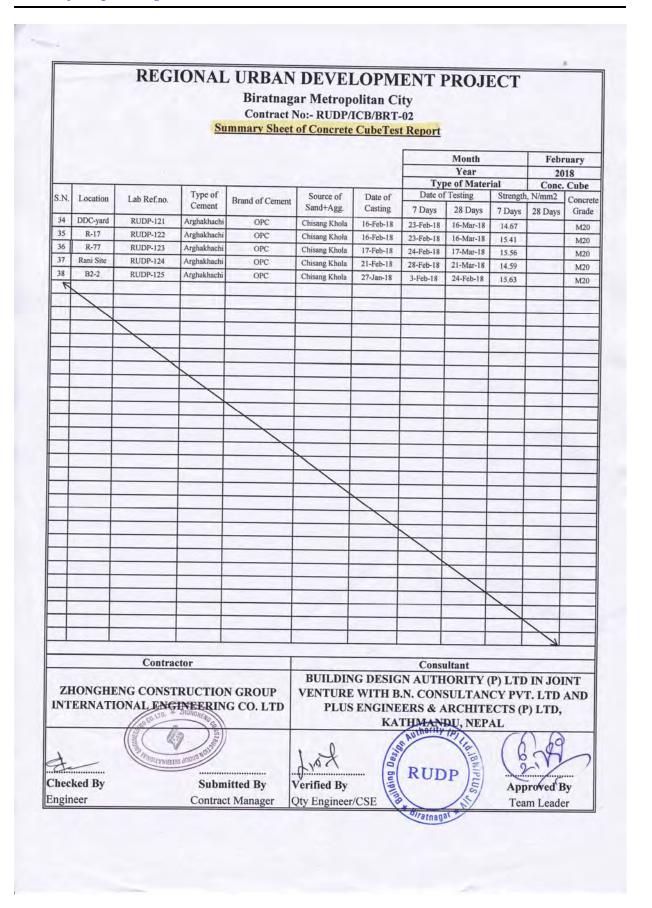


				AL URBAN D  Biratnagar N  Contract No:- mmary Sheet of Mon	Metrop RUDP	olitan C ICB/BRT	City <u>r-02</u>		ECT			
			Sui	mmary Sheet of Mon	st Kepart	of Fine 2	\gg.	Month Year Type of Material		February 2018 Fine Agg.		
S.n. 1	Lab.Ref no.	Date of Test	Location of	Source of Sample		Si	eve Size in	mm/%Pa	ssing by we		191	
Jilla			Sample	Source of Sample	100	4.75	2.36	1.18	0.600	0.300	0.150	Remarks
1	RUDP-FA-13	13-Feb-18	R114	Chisang Khola	100.00	94.25	76.93	30	32.95	14.21	3.04	
2	RUDP-FA-14	13-Feb-18	R113	Chisang Khola	100.00	93.92	75.51	50.42	32.90	14.24	3.58	
3.1		13-Feb-18 i	R90	Chisang Khoia	160.00	93.69	77.82	54.67	33.53	13.87	4.82	
4.3		13-Feb-18	R77	Chisang Khola	100.00	92.80	80.92	52.16	31.41	15.85	4.90	
5		15-Feb-18	\$43	Chisang Khola	100.00	92.8	71.54	48.03	27.00	14.52	5.81	
6		19-Feb-18	CN2-CN8	Chisang Khola	100.00	93.21	73.71	47.98	27.97	14.40	4.85	
7		19-Feb-18	DDC Yard	Chisang Khola	100.00	92.39	<b>等数</b> (	50.24	30.49	15.80	6.44	1
8	RUDP-FA-20	20-Feb-18	R17	Chisang Khola	100.00	93.18	74.06	48.42	28.37	12.92	3.62	
9	RUDP-FA-21	21-Feb-18	Rani Si	Chisang Khola	100.0	91.62	77.36	51.65	9200	16.86	7.27	
	RUDP-FA-22	21-Feb-18	R18 -	Chisang Khola	100.0	92.78	71.30	46.60	29.23	16.78	5.28	
				Spec. Limit :	100	90~100	85~100	75~100	69-79	12~40	0~10	
	ZHONGHE	ENGIN	Contractor  ECTION GROU  EERING CO. L	P INTERNATIONA TD	L	VENTU	RE WIT	H B.N. C	ONSUL HITECT NEP/	ORITY (I TANCY S (P) LT	PVT. LT	N JOINT D AND PLU HMANDU,
	cked By			Submitted By		No.X Verified		laing Dear	RUD	1	-	proved By
Engi	ncer			Contract Manage	अ	Qty Engin	eer/CSE	13	1	1	Te	am Leader











### REGIONAL URBAN DEVELOPMENT PROJECT

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

								Month		Febr	ruary
								Year		20	018
								pe of Mater			Cube
S.N.	Location	Lab Ref.no.	Type of	Brand of Cement	Source of	Date of	Date o	of Testing	Strength	h, N/mm2	Concrete
-		20200	Cement		Sand+Agg.	Casting	7 Days	28 Days	7 Days	28 Days	Grade
1	Koshi-yard	RUDP-89	Salimar	OPC	Chisang Khola	25-Jan-18	1-Feb-18	22-Feb-18	16,44	23.26	M20
2	CN2CN3	RUDP-90	Arghakhachi	OPC	Chisang Khola	26-Jan-18	2-Feb-18	23-Feb-18	17.04	28.59	M25
3	CN2CN3	RUDP-91	Arghakhachi	OPC	Chisang Khola	27-Jan-18	3-Feb-18	24-Feb-18	17.33	28.37	M25
4	Koshi-yard	RUDP-92	Arghakhachi	OPC	Chisang Khola	27-Jan-18	3-Feb-18	24-Feb-18	16.30	24.00	M20
5	B2-2	RUDP-93	Salimar	OPC	Chisang Khola	27-Jan-18	3-Feb-18	24-Feb-18	15.63	23.19	M20
6	CN2CN3	RUDP-94	Salimar	OPC	Chisang Khola	28-Jan-18	4-Feb-18	25-Feb-18	18.22	29.56	M25
7	CN2CN3	RUDP-95	Salimar	OPC	Chisang Khola	28-Jan-18	4-Feb-18	25-Feb-18	12.67	18.15	MI5
8	CN2CN3	RUDP-96	Salimar	OPC	Chisang Khola	29-Jan-18	5-Feb-18	26-Feb-18	19.26	29.48	M25
10	DDC-yard	RUDP-97	Salimar	OPC	Chisang Khola	29-Jan-18	5-Feb-18	26-Feb-18	17.11	23.85	M20
11	Koshi-yard	RUDP-98	Salimar	OPC	Chisang Khola	29-Jan-18	5-Feb-18	26-Feb-18	15.33	23.41	M20
12	R-40	RUDP-99	Salimar	OPC	Chisang Khola	30-Jan-18	6-Feb-18	27-Feb-18	14.59	23.11	M20
13	CN2CN3	RUDP-100	Salimar	OPC	Chisang Khola	31-Jan-18	7-Feb-18	28-Feb-18	15.04	23.7	M20
14	CN2CN3	RUDP-101	Salimar	OPC	Chisang Khola	31-Jan-18	7-Feb-18	28-Feb-18	19.63	28.44	M25
15	Koshi-yard	RUDP-102	Salimar	OPC	Chisang Khola	31-Jan-18	7-Feb-18	28-Feb-18	14.59	23.78	M20
16	R-40	RUDP-103	Salimar	OPC	Chisang Khola	1-Feb-18	8-Feb-18	1-Mar-18	14.67	25.76	M20
17	R-18	RUDP-104	Arghakhachi	OPC	Chisang Khola	1-Feb-18	8-Feb-18	1-Mar-18	15.04		M20
18	DDC-yard	RUDP-105	Arghakhachi	OPC	Chisang Khola	1-Feb-18	8-Feb-18	1-Mar-18	15.48		M20
19	Koshi-yard	RUDP-106	Arghakhachi	OPC	Chisang Khola	1-Feb-18	8-Feb-18	1-Mar-18	15.78		M20
20	S13-C	RUDP-107	Arghakhachi	OPC	Chisang Khola	2-Jan-18	9-Feb-18	2-Mar-18	15.78		M20
21	B2-2	RUDP-108	Arghakhachi	OPC	Chisang Khola	2-Feb-18	9-Feb-18	2-Mar-18	15.11		
22	CN2CN3	RUDP-109	Arghakhachi	OPC	Chisang Khola	3-Feb-18	10-Feb-18	3-Mar-18	15.41		M20
23	CN2CN3	RUDP-110	Arghakhachi	OPC	Chisang Khola	3-Feb-18	10-Feb-18	3-Mar-18	18.07		M20
24	Koshi-yard	RUDP-111	Arghakhachi	OPC	Chisang Khola	5-Feb-18	12-Feb-18	5-Mar-18	15.16	/	M25
25	CN2CN3	RUDP-112	Arghakhachi	OPC	Chisang Khola	5-Feb-18	12-Feb-18	5-Mar-18	12.00		M20
26	R-18	RUDP-113	Arghakhachi	OPC	Chisang Khola	7-Feb-18	14-Feb-18	7-Mar-18	15.26		M15
27	Koshi-yard	RUDP-114	Arghakhachi	OPC	Chisang Khola	7-Feb-18	14-Feb-18	7-Mar-18	16.67		M20
28	DDC-yard	RUDP-115	Arghakhachi	OPC	Chisang Khola	9-Feb-18	16-Feb-18	9-Mar-18		1	M20
29	DDC-yard	RUDP-116	Arghakhachi	OPC	Chisang Khola	9-Feb-18	16-Feb-18	9-Mar-18	15.7		M20
30	R-114	RUDP-117	Arghakhachi	OPC	Chisang Khola	9-Feb-18	16-Feb-18	9-Mar-18	22.81	-	M30
31	Rani Site	RUDP-118	Arghakhachi	OPC	Chisang Khola	9-Feb-18	16-Feb-18	9-Mar-18	15,04		M20
32	R-77	RUDP-119	Arghakhachi	OPC	Chisang Khola		2.154.14.15	100 (MIR. 1)	16.15		M20
33	CN2CN3	RUDP-119	Arghakhachi	OPC	Chisang Khola	12-Feb-18	19-Feb-18	12-Mar-18	13.63		M20
			- Smannaviii	Orc	Cinsung Knola	13-Feb-18	20-Feb-18	13-Mar-18	19.48		M25

Contractor Consultant

ZHONGHENG CONSTRUCTION GROUP INTERNATIONAL ENGINEERING CO. LTD

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

Authorit

Checked By

By Submitted By

Verified By

RUDP IS

Approved By Team Leader

6

Engineer

		F	REGIONAL	Biratn: Contra	N DEVEL agar Metropo ct No:- RUDP/IC Sheet of Mortan	litan City CB/BRT-02	2	ROJEC	T		
								Month		Febr	ruary
								Year		_	18
S.N.	Tanatan	Libra		Brand of		Date of	Desci	ription of Sar f Testing		27/	
5.IV.	Location	Lab Ref.no.	Type of Cement	Cement	Source of Sand	Casting	7 Days	28 Days	1	N/mm2	1 -71-
1	CN2,Cn3	MR-30	Salimar Cement	OPC	Chisang Khola	25-Jan-18	-		7 Days	-	1000
2	S13-C	MR-31	Salimar Cement	OPC	Chisang Khola	28-Jan-18		22-Feb-18 25-Feb-18	8.34 7.34	9.67	7.5
3	R-40	MR-32	Salimar Cement	OPC	Chisang Khola	1-Feb-18	8-Feb-18	1-Mar-18	6.34	11.00	7.5
4	R-18	MR-33	Arghakhachi Cement	OPC	Chisang Khola		14-Feb-18		7.40		7.5
5	Rani site	MR-34	Arghakhachi Cement	OPC	Chisang Khola		15-Feb-18		6.67		7.5
6	R-17	MR-35	Arghakhachi Cement	OPC	Chisang Khola		23-Feb-18				7.5
4						10 100 10	25-100-16	10-Mai-16	7.47		7.5
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hecl	ked By		Submitted I	Ву	Verified By	Building	PUDA	Sild P Ltd./D		oroved B	
ngiii	001		Contract Man	ager	Qty Engineer/CS	101	-	13	Tea	m Leade	r
						810	agar * NIC	SIL			



# ANNEX-4: Social Safeguard Monitoring /Environmental Monitoring Formats Attached



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

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

Sub-project Component: Road Lanes Improvement/ Sewerage Drainage

Month: February 2018

Checklist

SN	Activity	Description/Present Status (Compliance/Partially Compliance/Non Compliance	Remarks/ Corrective actions for Non-Compliance
1 1.1 1.2	Training Health, Safety and EMP trainings and awareness Others awareness and skill trainings	No No	Planned to organize Training. The consultant has already instructed for training letter reference-
2 2.1	Occupational health and safety	Yes	
2.2	Personal Protective Equipment (PPE) provided to labours and are using (helmet, facemasks, muffles, gloves, boots, jacket, goggles etc.)	Yes (distributed to labour but partially used)	Orient or aware to labour
2.3	Public notification Safety and warning signs and informative signboards in working sites for work safety	Partially complied	Enforced to fully complied
	Use of barricades, caution tape and flag	Partially complied	Enforced to fully complied
3	Camp site management		
3.1	Location		Contractor enforce to
3.2	First aid facilities available at camp and work sites	No	place first aid kit in working site
3.3	Drinking water supply and sanitation facilities/ pit latrines	Yes (Water quality not tested)	Enforce to test water quality prior to use for
3.4	Waste Disposal and Management facilities	No (No waste management provision)	drinking NDWQS
3.5	Type of fuel used for cooking	RUDP RUDP	Provide separate Bins to collect waste( Bio degradable and non-Bio degradable





4.1	Spoil and Construction material Management		
4.2	Cut and fill balance maintained or not, Reuse of spoil materials	Reused in Backfilling	Agreement in land
	Use of safe spoil disposal locations		owner
4.3			o i i i i
4.4	Disturbance to Pedestrian and traffic movement	N/A	
	Use of private land and agreement with land owners		
5	Air, Noise and Water Pollution	Water has been	
5.1	Dust emission and Noise pollution	sprinkled to minimize	
5.2	sites	dust pollution	Manager and the second
5.3	Water quality monitoring result and locations	No water quality test	Contractor instructed to test immediately
	Blockage of natural drainages, water logging, drain water discharge into farm land/ risky areas	No	
6	Quarrying of construction materials and Plants Installment		
6.1	Quarry/borrow operation sites	No	
6.2	Crusher plant and Asphalt plant operation restoration	No	
7	Impact/Disruption of Private properties		
7.1	Building structures	No	
7.2	Other utilities	No	
8	Impact/ disruption of public infrastructures		
8.1	Irrigation canal	No	Company Comment
8.2	Water supply pipe	Disturbed but repair as required	Contractor instructe to repair immediatel
8.3	Access road	No (Traffic diversion with sign board)	from provisional sun
8.4	Electric/Telephone pole	Poles within RoW	In the process of relocation
8.5	Others		relocation
9	Sites for cultural and religious values	NVA	
9.1	Cultural and religious sensitive spots (if any)	N/A	
10	Forest and vegetation		
10.1	Number of trees removal	N/A	
10.2	No of tree plantation (Roadside)	N/A	
11	Accident cases and records	No cases of accident	
<b>12</b> 12.1	Employment to local people Men and women	Men-40, Women -8	Record of labour



12.2	Child labour (if any)	No	Indian labour-115
13	Establishment of Safeguard desk and meeting	Yes	
14	Grievances from local people and addressed	Yes	GRM recorded and addressed

Prepared By:

Dwarika Phuyal

**Environmental Safeguard Expert** 

Checked By: Giresh Chand Team Leader



					rban De								
			So		Safe				ing				
				In	ventory	of Soci	al Facili	ties					
.General info ubproject: -R					CONS	Month/	Year: Fe	bruary-	2018.				
roupInternat			Co pvt	Beijing	17.75	NONCH!				*			
haina.							Co	ntract I	Package	: RUDP	/ICB/BI	RT/2	_
									aum the	numb	orl		
.Total numbe	ers of co	ntractor	workers	involv	ed in roa	W. A.					1.00		Damada
ype of Worke	ers		Camp-1	Camp-2	Camp-3	Camp-4	Camp-5	Camp-6	Camp-7	Camp-8	Camp-9		Remarks
Local		Male	12	23	5	12	12	31	24	25	Is	12	-
		Female				7			1		4		
Non-Loc	al	Male	15	8	23	0	8	21	44	6	0	0	
11011 200		Female											
017111		Male											
Child Labo	our	Female											
3. Source and	adagua	100000000000000000000000000000000000000	king wa	ater fac	ility in t	he labou	ır camp	(use cod	de)	*			
s. Source and	aucqua	cy or arm	1										
Source	s	Camp-1	Camp-2	Camp-3	Camp-4	Camp-5	Camp-6	Camp-7	Camp-8	Camp-9	Camp-10	Re	marks
a. Piped wate	r	V	V	~	V	~	~	V	V	~	~		
b.Well/Spring												12	
c.Tanker												1	
d													
Code:		2	2	2	2	2	2	2	2	2	2		
Insufficient-1		Sufficien	_	Plenty									
4. Type and n	umber	of toilets	in the la	abour c	amp (wr	ite dow	n the n	umber)					
Tymo	Comp 1	Camp-2	Camp-3	Camp-4	Camp-5	Camp-6	Camp-7	Camp-8	Camp-9	Camp-10		Remar	ks
Туре	Camp-1	Camp-2	Camp-3	Camp 4	Camp 5	Cump C				-			
a.Pit Latrine								V	./		-		-
b.Pan	/	V	~	V	~	~	~		_	-			
c.Open													
d													
5. Energy use	ed in lab	our camp	(tick m	ark)									
Courses of F	r	Carra 2	Camp-3	Camp-4	Camp-5	Camp-6	Camp-7	Camp-8	Camp-9	Camp-10		Rema	rks
Sources of E	Camp-1	Camp-2	Camp-s	Camp	Callip's	Camp.o	Comp (						
a. Firewood			-										
b.Kerosene						11	1/	1.	1.0	1	-		
c. L.P Gas			V	1	1	1	V	V	V				



#### Regional Urban Development Project(RUDP) Social Safeguard Monitoring

### Inventory of Social Facilities

1.General information

Subproject: -RUDP/ICB/BRT/2

Month/Year: Feb- 2018.

Name of Contractor: -ZHONGGHENG

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

6. Sources and	legal sta	tus of fi	rewood	used in i	abour ca	mp and i	s legal st	atus juse	+		
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											1

1.Source: Community Forest-1, Government Forest-2, Private Fores

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

7. Type and Ow	nership	of labor	ir camp	use cou	-					The same	Down a
Type & Owners	Camp-1	Camp-2	Camp-3	Camp-4	Camp-5	Camp-6	Camp-7	Camp-8	Camp-9	Camp-10	Remarks
		1	- 3	1	3	1	9	9	1	2	
a.Type1		1	1	1	1	1	-	-	1		
h Ownershin?	1	1	1	1		1		12	ı		1

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

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

8. Availability of first aid and safety (tick mark for 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	~	K	V	V	K	~	~	X	X	
b.Helmet	11	15	12	13	13	30	23	13	13	8	
c. Gloves	20	25	19	13	17	49	26	26	14	11	-
d.Boots	4	3	6	9	10	15	6	6	6	3	
e.Masks	8	9	12	11	9	8	2	8	+	15	
f									1		_
	9.Nu	mber of	locally e	mploye	d labour i	nvolved in	n constru	ction wo	rks (num	ber)	
Sex	4		Janajati			Mulle					Remarks
Male	0	0	88	11	62	14	111				
				174							

Prepared by

Monitored by



Female

11.Note of remarks

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

Subproject Road : -RUDP/ICB/BRT/2

Month/Year: Jan- 2018.

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

Contract Package: RUDP/ICB/BRT/2

		C	ompliance Sta	atus	200000000000000000000000000000000000000	200		
5.N	Key Social Issuse	Full	Partial	None	Implementing Agency	Note of Remarks	Deadline	
1	Availability of drinking water services	V				but plann	٨.	
2	Availability of toilet facility in campsite	~						
3	Legal source of fuel wood use				LP GW	MIA		
4	Legal document of fuel wood source				1V 1A.	HIA		
5	Use of safety accessories	~						
6	Availability of first aid facility		~			to bring	e	
7	Basic wage rate to construction workers	~				1 KS mite to prind Skilled - 8 V Willed	6500	
8	Equal wage rate to male and female workers	V				Yes		
9	Compensation of temporarily occupied land	~						
10	Compensation of temporarily occupied buildings	V						
11	Legal document of temporarily occupied assets	~				Yes.		
12	Non use of child labour in construction activities	V				yes.		

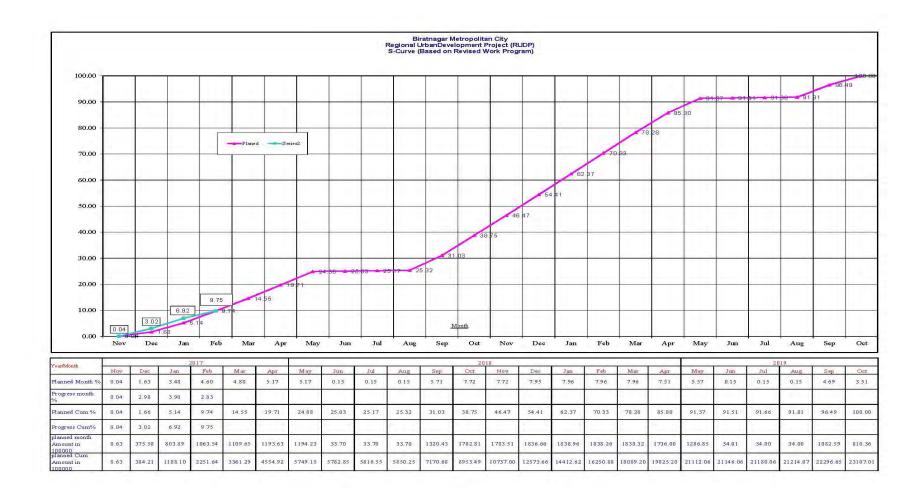
Prepared by Oak TO. ZHONGHO

Verified by:

Monitored by:

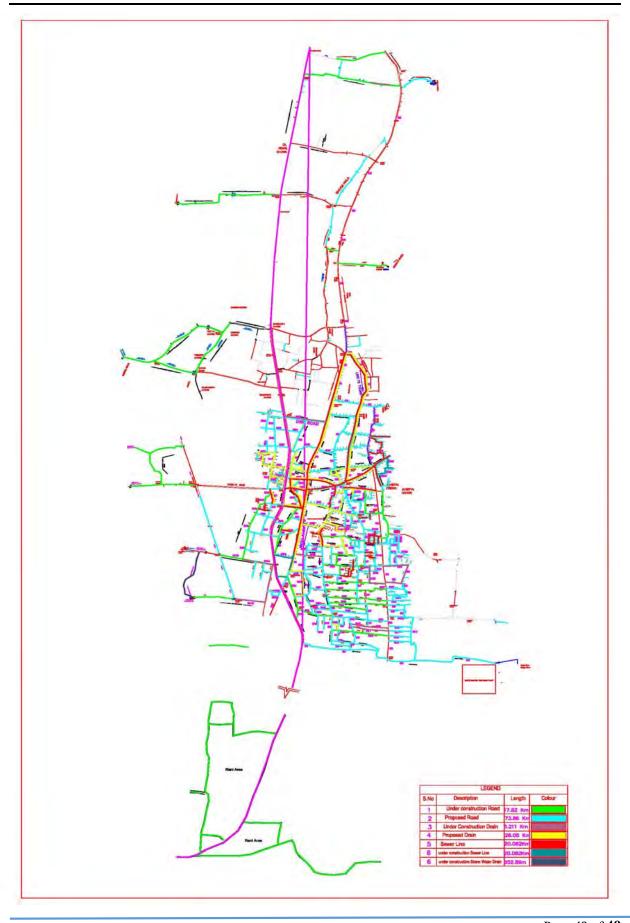


# ANNEX-5: S-Curve Attached





Master Plan of RUDP Project



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