



Building Design Authority (P) Ltd

in joint Venture with

B.N. Consultancy Pvt. Ltd and

PLUSH Engineering & architects (P) Ltd Kathmandu.

Monthly Progress Report

Regional Urban Development Project (RUDP)

Project Implementation Unit

Biratnagar, Nepal



January 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 28th August 2017.
- Design and supervision works commenced on 6th September 2017.
- Contract of construction works signed on 10th October 2017.
- Construction works commenced on 2nd Nov 2017.



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

General Features	
Name of Project	Regional Urban Development Project(RUDP)
Executing Agency	Government of Nepal, Ministry of Urban Development Department of Urban Development and Building Construction (DUDBC)
Implementing Agency	Biratnagar Metropolitan City, Biratnagar
Funded By	Asian Development Bank & Government of Nepal
Package	Construction and Completion of Sewerage, Drainage, Road, Footpath and Road furniture works
Contract No.	RUDP/ICB/BRT/2
Location	Biratnagar Metropolitan City, Biratnagar
Consultant	Building Design Authority (P) LTD in Joint Venture With B.N. consultancy Pvt and PLUS Engineers and Architects (P) Ltd Kathmandu.
Contractor	ZHONGHENG Construction Group International Engineering co Ltd. Beijing, China.
Date of Commencement	2 nd November 2017
Completion Date	1 st November 2019
Contract Amount including PS and VAT	NRs. 2,611,092,249.63
Physical Progress	Planned -5.14% , Actual -6.92%; Lead by 1.78% S curve is 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 precast have also been started. Laying of RCC Hume pipe as well as HDPE will be started to accelerate the progress.

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 January, 2018

SN	Locations	BoQ		Up to Pre Month		This month		Total to date		Progress %
		Length (m)	Manhole (no)	Length (m)	Manhole (no)	Length (m)	Manhole (no)	Length (m)	Manhole (no)	
1	Hume pipe(T2)	206	6							Survey work going on
2	Hume pipe(T3)	1905	58							
3	Hume Pipe (T4)	130	4							
	Subtotal in (m)	2241	68							
1	HDPE(T1)	1825	57							
2	HDPE(T2)	3927	147			44		44		
3	HDPE(T3)	9997	316							
4	HDPE(T4)	2092	68							
	Subtotal in (m)	17841	588							
	Sewer Inlet	BoQ(no)		Up to Pre Month		This month		Total to date		Progress %
1	Sewer inlet	1010								
2	House connection	3784								

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 December, 2017.

SN	Location	Proposed Length in (m)	Progress		Total till date (m)	Progress %
			Up to previous month in (m)	This month in (m)		
	CN2-CN3	652.89		170m	170m	Construction of drian works going on
	CN2-CN3	132 nos piles		50nos	50nos	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 January, 2018

SN	Road Name	Proposed Length(m)	Progress Length in (m)		Total till date	Progress %
			Upto previous month	This month		
1	R3A	600		600	600	(100%)Sub grade,
2	R42	218		127	127	(58.25%)Sub grade,
3	R104	273		271	271	(99.26%)Sub grade
4	Rani site	4023		2315	2315	(57.54%)Sub grade,
5	R37	477		477	477	(100%)Sub grade,
6	R29	620		343	343	(55.32%)Sub grade,
7	R30	212		207	207	(97.64%)Sub grade,
8	R9	570		117	117	(20.52%)Sub grade,
9	R5	370		603	603	(100%)Sub grade,
10	R16	604	580		580	(96.18%)Sub grade,
11	R21	1320	1320		1320	(100%)Sub grade,
12	R25	599	580		580	(96.82%)Sub grade,
13	R24	384.41	380		380	(98.71%)Sub grade,
14	R28	635	343		343	(54.54%)Sub grade,
15	R27	810	580		580	(71.54%)Sub grade,
16	R26	617	580		580	(94.00%)Sub grade
17	B1	1172.94	1120		1120	(95.56%)Sub grade,
18	B2	2777.83	2152		2152	(77.5%)Sub grade,

19	B3	1574	1574		1574	(100%)Sub Grade ,
20	S11	660	565		565	(85.60%)Sub Grade,
21	S13	1617	1470		1470	(91.00%)Sub Grade,
22	R114	320		240	240	(75.00%) Sub Grade,
23	R12	660		660	660	(100%)Sub Grade
24	R5	370		370	370	(100%)Sub Grade
25	R113	420		420	420	(100%)Sub Grade
26	R24	384.41	380		380	(99.00%)Sub Base
27	R25	599	580		580	(96.83%)Sub Base
28	R26	617	580		580	(94.00%)Sub Base
29	R27	810	580		580	(71.60%)Sub Base
30	R28	635	343		343	(54.00%)Sub Base
31	R29	620		343	343	(55.33%)Sub Base
32	R9	544		117	117	(21.51%)Sub Base
33	R30	212		207	207	(97.65%)Sub Base
34	R42	218		117	117	(53.67%)Sub Base
35	R104	273		273	273	(100%)Sub Base
36	B1	1172.94	1171.8		1171.8	(99.00%) subbase
37	B2	2777.83	2152		2152	(77.47%) Sub Base
38	S11	660	340		340	(51.51%) Sub Base
39	S13	1616.26	1470		1470	(90.95%) Subbase
40	R114	320	240		240	(75.00%)Sub Base
41	R12	660	660	660	660	(100%)Sub Base
42	R113	420	420		420	(100%)Sub Base



43	R5	370		603	603	(99.00%)Sub Base
44	R16	604		580	580	(96.10%)Sub Base
45	R21	1320		1460	1460	(100%)Sub Base
46	B1	1172.94	1120		1120	(100%)Sub Base
47	B2	2777.83	2150		2152	(100%)Sub Base
48	B3	1630	1630		1630	(100%) Base
49	S11	660	565		565	(85.60%) Base
50	S13	1751	1470		1470	(83.95%) Base
51	R114	320		240	240	(75.00%)Sub Base
52	R12	660	660		660	(100%)Sub Base
53	R113	420	420		420	(100%)Sub Base
54	R5	603		603	603	(100%)Sub Base
55	R16	604		580	580	(96.03%)Sub Base
56	R21	1320		1320	1320	(100%)Sub Base
57	R24	380		380	380	(100%) Base
58	R25	600		600	600	(100%) Base
59	R26	617		580	580	(94%) Base
60	R27	810		580	580	(71.61%) Base
61	R28	635		343	343	(54.44%) Base
62	R29	620		343	343	(54.44%) Base
63	R9	570		117	117	(20.52%) Base
64	R30	212		212	212	(100%) Base
65	R37	477		477	477	(100%) Base
66	R3	600		600	600	(100%) Base
67	R42	218		127	127	(58.25%) Base



68	R104	273		271	273	(100%) Base
69	Rani	2870		2315	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	Sub Base	m	22842	5132	10280	15280	Under Progress
2	Sub grade	m	21905	5132	12800	17820	Under Progress
3	Base	m	16850	5132	12688	17820	Under Progress

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

SN	Road Name/Location	Proposed Length(m)	Progress Length in (m)		Total to date	Progress %
			Previous month	This month		
1	B1	-	90	-	90	100%
2	R29	620	466	38	504	81.29%
3	N36	-	316	-	316	100%
4	R8	540	460	-	460	85%
5	R7	480	180	-	180	37.5%
6	R9	240		160	160	66.67%
7	S13	110		110	110	100%
8	N33	-				Foundation under progress.
9	R28	640		270	270	42.18
10	R90	620		466	466	75.16%
11	R114	530		200	200	37.73%



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 fitted to 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.

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 Guidelines, 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 inhabitants 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. The Engineer has issued the format of Environmental Management plan which is attached here with

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.

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
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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, man whole etc) for better work progress of the project. The Contractor has established the production yard 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.

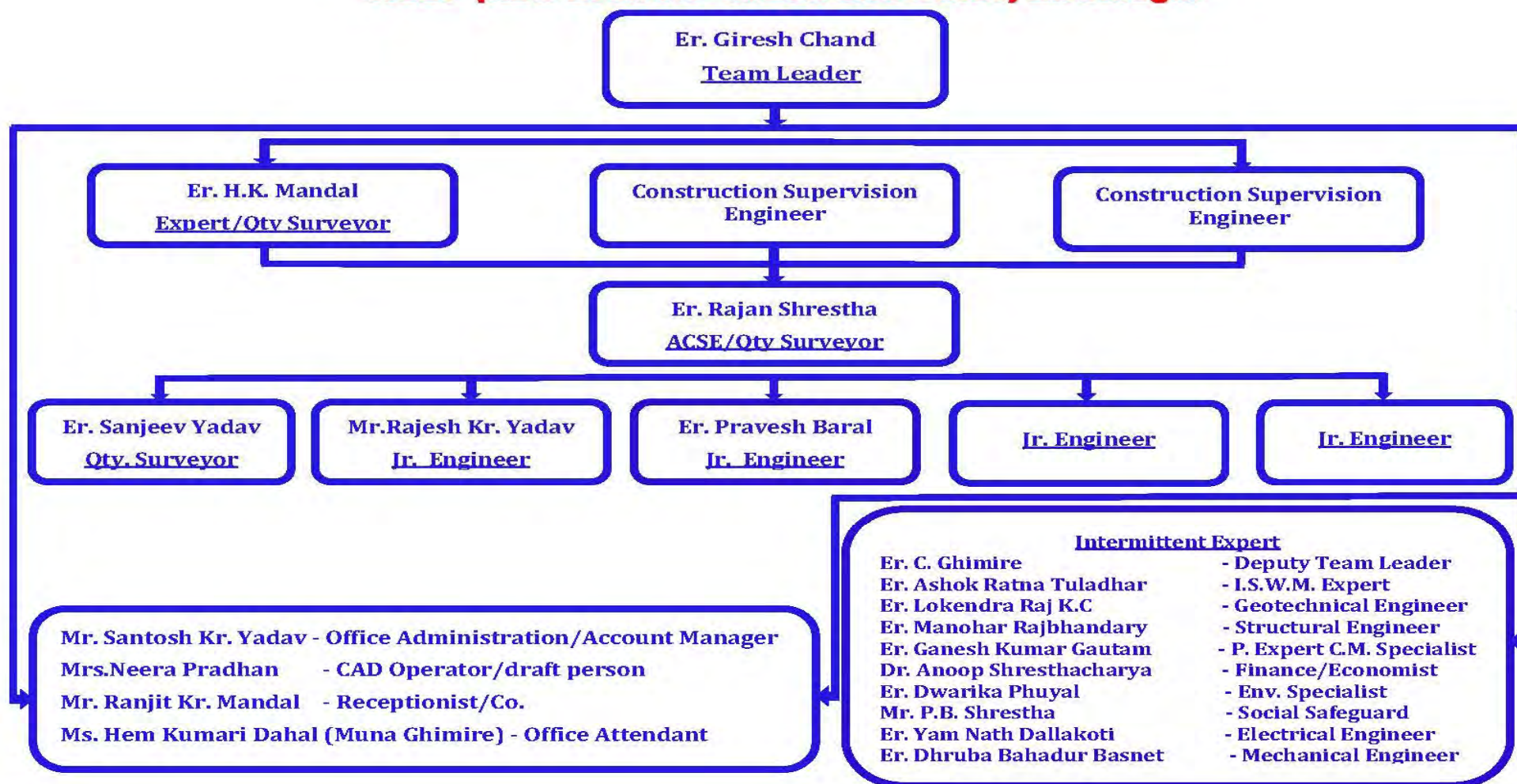
6.1 ORGANIZATION AND STAFFING

Attached



ORGANIZATION CHART

RUDP (ADB Loan No- 47252 Site Office, Biratnagar



6.2 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	1 st Nov 2017	
6	Rajan Shrestha	ACSE/Quantity Surveyor	7 th Nov 2017	
7	Rajesh Kumar Yadav	Junior Engineer-1	6 th Sep 2017	
8	Sanjeev Yadav	Qty Surveyor	5 th Nov 2017	
9	Santosh Kumar Yadav	Office Administration/Account Manager	6 th Sep 2017	
10	Hem Kumari Dahal (Muna Ghimire)	Office Attendant	6 th Sep 2017	
11	Ranjit Kumar Mandal	Receptionist	10 th Dec 2017	
12	Pravesh Baral	Junior Engineer-2	10 th Dec 2017	
13	Neera Pradhan	CAD operator/Draft Person	10 th 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 style="list-style-type: none"> <i>ADB Mission visited on 16-17 January 2018. Meeting with Mayor, Deputy Mayor, PCU, PIU, PMSC, DSC and contractor was held on 16 January 2018 at BMC and field visit was on 17 January 2018</i> <i>Frequent site visit for surveying/supervision by the client and the experts, Engineer, Engineer's representative as required.</i> 	

7 DETAILS OF PRE CAST ACTIVITIES.

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

Physical Progress till January 2018							
S.N.	Description	Unit	Progress			Total to Date (RM.)	Remarks
			BoQ	Up to Previous month (RM.)	This Month (RM.)		
1	Precast Slab	No			4988	4988	Under progress
3	Kerb Stone	Rm	147729.68		4500	4500	3.046%

Physical Progress till Jan- 2018

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

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

Physical Progress till Jan- 2018

S.N.	Description	Diameter (mm)	Progress			Total to Date (RM.)	Remarks
			BoQ (RM)	Up to Previous month (RM.)	This Month (RM.)		
1	HDPE Pipe	110	1987.2				Under process
2	HDPE Pipe	200	16656				
3	HDPE Pipe	250	115				
	Total						

Physical Progress till Jan- 2018

S.N.	Description	Diameter (mm)	Progress			Total to Date (RM.)	Remarks
			BoQ (RM)	Up to Previous month (RM)	This Month (RM.)		
1	UPVC Pipe	110	30272				Under process.
2	UPVC Pipe	160	5050				



CONTRACTOR'S MANPOWER

SN	NAME	DESIGNATION	NO	REMARKS
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Table 11: CONTRACTOR'S KEY STAFFS in January, 2018

1	Mr. Ravindra Thakur.	Project / Contract Manager	1	
3	Mr. Pragati Nepal	Design Engineer	1	
4	Mr. Benu Shrestha.	Construction Engineer	1	
8	Mr. Dharendra yadav.	Site Engineer	1	
9	Mr. Santosh Kr Lakhandal.	Site Engineer	1	
10	Mr. Dharendra 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. Dharendra 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		155	Yard 1-35 Yard 2- 20



SN	NAME	DESIGNATION	NO	REMARKS
26	Unskilled labor		208	Yard 1-61 Yard 2-45

CONTRACTOR'S EQUIPMENT

SN	EQUIPMENT	NO	REMARKS
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Table 12: CONTRACTOR'S EQUIPMENT

1	Excavator	2	
2	Back Hoe JCB	3	
3	Grader	2	
4	Vibrator Roller (8-10) ton	2	
5	Water Tanker	5	
6	Tractor	3	
7	Tipper	11	
8	Light Vehicle	5	
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.

ANNEX-1: Photographs of January, 2018





Meeting with ADB Mission at BMC



DDC yard visit by ADB Mission



Pile Foundation works at Chyangbari Nala (CN3-CN2)



Shear Wall Construction (Chyangbari Nala)



Rigid pavement works



Gradation check of M20 aggregates at site



Kerb stone laying works at R29



Brick Masonry work at S13



Road works at S13



Cover slab production at DDC yard



Demarcation of site by PIU



Field Monitoring by Mr. Lal Babu Pandit, Member of Parliament

ANNEX-2: Minutes of Meeting January, 2018






Building Design Authority (P) Ltd

in Joint Venture with

B.N.Consultancy Pvt. Ltd and Plus Engineers & Architects (P) Ltd, Kathmandu, Nepal

REGIONAL URBAN DEVELOPMENT PROJECT (RUDP), ADB Loan No: 47252

Biratnagar Metropolitan city, Biratnagar

MINUTES OF MEETING NO. – 5

Contract: RUDP/ICB/BRT- 02

Date: January 31, 2018

Time: 2:00 PM

Venue: TL Office, Biratnagar

Attendance

Consultants:

1. Mr. Giresh Chand , Team Leader
2. Mr.H K Mandal, Expert/Quantity Surveyor
3. Mr.Rajan Shrestha, Engineer/ Quantity Surveyor
4. Mr. Rajesh K Yadav, Jr. Engineer

Contractor:

1. Mr. R.K Thakur, Contract Manager
2. Mr. Benu Shrestha, Senior Engineer

The meeting was chaired by Mr. Giresh Chand, Team Leader. He welcomed all participants and following matters were discussed and decided:

S.N.	Minutes	Action by
1.	Contract Manager briefed about the present status of the work progress. He further added shifting of electric poles and kerbstones works are also going on. TL appreciated the work.	Contractor/ Consultant
2.	ADB Mission TL informed that mission is satisfied with the current works except minor comments (OSH gears, environmental issue safety board etc). TL asked contractor to follow instructions /advice by the ADB Mission.	Contractor/ Consultant



Giresh Chand

*Reviewed by
Giresh Chand*

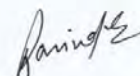
Address: Bargachhi Pipalchowk-05, Biratnagar Email: rudpbdbart@gmail.com



Building Design Authority (P) Ltd

Joint Venture with
B.N.Consultancy Pvt. Ltd and Plus Engineers & architects (P) Ltd, Kathmandu, Nepal
REGIONAL URBAN DEVELOPMENT PROJECT (RUDP), ADB Loan No: 47252
Biratnagar Metropolitan city, Biratnagar

3.	Sewer Line: Team Leader asked the contract Manager about his plan regarding Sewer Line. Contractor informed sewer line works will be resumed from 8 February 2018. He has been making all the necessary arrangements for the same. TL further emphasized on providing detailed program regarding sewer line. Contractor agreed on the same.	Contractor
4.	Asphalt plant: Team Leader asked the contract Manager about his plan for Asplant. Concrete The Contract Manager informed that he has already established 1 asphalt yard near Birat Eye Hospital. He also further added to start Asphalt Concrete works by 27 February 2018 TL advised to complete all works eg, Kerbstone, shoulders works etc. before Asphalt Concrete works Contractor agreed on the same.	Contractor/ Consultant
5.	Laboratory setup: TL asked contractor about his laboratory setup. Contractor informed that his site laboratory is fully operation except calibration of Compressive Strength Machine and CBR Machine	Contractor/ Consultant
6.	Work program TL informed that work program has already been approved and execute accordingly Contractor agreed on the same	Contractor/ Consultant
7.	Working Drawings: TL asked contract Manager about working drawing. The contractor informed that he has been submitting working drawing before execution of work.	Contractor

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




Building Design Authority (P) Ltd

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REGIONAL URBAN DEVELOPMENT PROJECT (RUDP), ADB Loan No: 47252

Biratnagar Metropolitan city, Biratnagar

8.	Monthly Progress Report and Material Testing Report: TL asked the contractor to submit MPR on time. He also further asked contractor to incorporate social and environmental data as per applicable format. He also emphasized on conducting tests eg, LA, ACV, flakiness as per the frequency provided on QAP Contractor agreed on the same.	Contractor
9.	Disposal/Tipping Site TL asked the contractor to take approval for the disposal of excess materials. Contractor agreed to submit it on the same.	Contractor/ Consultant








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

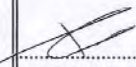
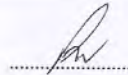
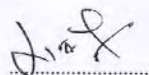
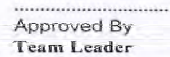
ANNEX-3: Laboratory Test Results of January, 2018
Attached



REGIONAL URBAN DEVELOPMENT PROJECT									
Biratnagar Metropolitan City									
Contract No:- RUDP/ICB/BRT-02									
Summary Sheet of Field Density Test									
Location:-R-25				Moisture content %		Density(gm/cc)		Compaction %	
Sn.	Lab.Ref.no	Testing Date	Change	OMC%	Field MC%	Max.Dry density	Field Dry density,	Compaction	Specified
26	RUDP-SB-FD-1, L/S	10-Jan-18	0+100	5.70	4.14	2.225	2.166	97.33	95
27	RUDP-SB-FD-1, R/S	10-Jan-18	0+200	5.70	5.06	2.225	2.155	96.84	95
28	RUDP-SB-FD-1, L/S	10-Jan-18	0+300	5.70	5.06	2.225	2.162	97.16	95
29	RUDP-SB-FD-1,C/L	10-Jan-18	0+400	5.70	4.15	2.225	2.167	97.40	95
30	RUDP-SB-FD-1, R/S	10-Jan-18	0+500	5.70	5.35	2.225	2.154	96.82	95
31	RUDP-SB-FD-1, L/S	10-Jan-18	0+600	5.70	4.25	2.225	2.164	97.24	95
Location:-R-24									
32	RUDP-SB-FD-1, R/S	10-Jan-18	0+100	5.23	4.42	2.230	2.161	96.92	95
33	RUDP-SB-FD-1,C/L	10-Jan-18	0+200	5.23	5.36	2.230	2.167	97.17	95
34	RUDP-SB-FD-1, L/S	10-Jan-18	0+300	5.23	5.60	2.230	2.162	96.94	95
35	RUDP-SB-FD-1, R/S	10-Jan-18	0+350	5.23	5.02	2.230	2.148	96.30	95
Location:-R-21									
36	RUDP-SB-FD-1, R/S	11-Jan-18	0+100	5.10	4.62	2.232	2.160	96.78	95
37	RUDP-SB-FD-1,C/L	11-Jan-18	0+200	5.10	5.02	2.232	2.161	96.80	95
38	RUDP-SB-FD-1, L/S	11-Jan-18	0+300	5.10	4.25	2.232	2.171	97.26	95
39	RUDP-SB-FD-1, L/S	11-Jan-18	0+400	5.10	4.52	2.232	2.146	96.16	95
40	RUDP-SB-FD-1,C/L	11-Jan-18	0+500	5.10	4.62	2.232	2.171	97.25	95
41	RUDP-SB-FD-1, R/S	11-Jan-18	0+550	5.10	5.70	2.232	2.167	97.11	95
Contractor									
ZHONGHENG CONSTRUCTION GROUP INTERNATIONAL ENGINEERING CO. LTD									
Consultant									
BUILDING DESIGN AUTHORITY (P) LTD IN JOINT VENTURE WITH B.N. CONSULTANCY PVT. LTD AND PLUS ENGINEERS & ARCHITECTS (P) LTD, KATHMANDU, NEPAL									
Checked By Engineer		Submitted By Contact Manager		Verified By Qty Enginner/CSE		Approved By Team Leader			

REGIONAL URBAN DEVELOPMENT PROJECT									
Biratnagar Metropolitan City									
Contract No:- RUDP/ICB/BRT-02									
Summary Sheet of Field Density Test									
Location:-R-27				Moisture content %		Density(gm/cc)		Compaction %	
Sn.	Lab.Ref.no	Testing Date	Change	OMC%	Field MC%	Max.Dry density	Field Dry density,	Compaction	Specified
1	RUDP-SB-FD-1, L/S	7-Jan-18	0+080	6.00	5.28	2.220	2.15	96.65	95
2	RUDP-SB-FD-1, R/S	7-Jan-18	0+150	6.00	5.30	2.220	2.16	97.52	95
3	RUDP-SB-FD-1,C/L	7-Jan-18	0+250	6.00	6.96	2.220	2.15	97.00	95
4	RUDP-SB-FD-1,R/S	7-Jan-18	0+320	6.00	5.47	2.220	2.19	98.71	95
5	RUDP-SB-FD-1,C/L	7-Jan-18	0+460	6.00	6.58	2.220	2.17	97.87	95
6	RUDP-SB-FD-1, L/S	7-Jan-18	0+500	6.00	5.10	2.220	2.13	96.09	95
7	RUDP-SB-FD-1, R/S	7-Jan-18	0+610	6.00	5.40	2.220	2.15	96.84	95
Location:-B3-3									
8	RUDP-SB-FD-1, R/S	8-Jan-18	0+100	6.00	5.28	2.227	2.146	96.35	95
9	RUDP-SB-FD-1,C/L	8-Jan-18	0+200	6.00	5.30	2.227	2.165	97.21	95
10	RUDP-SB-FD-1, L/S	8-Jan-18	0+300	6.00	6.96	2.227	2.153	96.69	95
11	RUDP-SB-FD-1, L/S	8-Jan-18	0+400	6.00	5.47	2.227	2.191	98.40	95
12	RUDP-SB-FD-1,C/L	8-Jan-18	0+500	6.00	6.58	2.227	2.178	97.92	95
13	RUDP-SB-FD-1, R/S	8-Jan-18	0+580	6.00	5.10	2.227	2.145	96.43	95
Location:-R-12									
14	RUDP-SB-FD-1, L/S	9-Jan-18	0+100	5.49	4.32	2.232	2.179	97.63	95
15	RUDP-SB-FD-1,C/L	9-Jan-18	0+200	5.49	4.43	2.232	2.144	96.07	95
16	RUDP-SB-FD-1, R/S	9-Jan-18	0+300	5.49	5.10	2.232	2.157	96.62	95
17	RUDP-SB-FD-1,C/L	9-Jan-18	0+400	5.49	5.33	2.232	2.149	96.30	95
18	RUDP-SB-FD-1, L/S	9-Jan-18	0+500	5.49	4.81	2.232	2.148	96.32	95
19	RUDP-SB-FD-1, R/S	9-Jan-18	0+600	5.49	6.00	2.232	2.179	97.62	95
Location:-R-26									
20	RUDP-SB-FD-1, R/S	9-Jan-18	0+100	5.75	4.42	2.229	2.165	97.12	95
21	RUDP-SB-FD-1, L/S	9-Jan-18	0+200	5.75	5.97	2.229	2.142	96.11	95
22	RUDP-SB-FD-1,C/L	9-Jan-18	0+300	5.75	6.04	2.229	2.140	96.01	95
23	RUDP-SB-FD-1, L/S	9-Jan-18	0+400	5.75	4.80	2.229	2.176	97.64	95
24	RUDP-SB-FD-1, R/S	9-Jan-18	0+500	5.75	4.04	2.229	2.160	96.89	95
25	RUDP-SB-FD-1, L/S	9-Jan-18	0+600	5.75	5.44	2.229	2.141	96.05	95
Contractor					Consultant				
ZHONGHENG CONSTRUCTION GROUP INTERNATIONAL ENGINEERING CO. LTD					BUILDING DESIGN AUTHORITY (P) LTD IN JOINT VENTURE WITH B.N. CONSULTANCY PVT. LTD AND PLUS ENGINEERS & ARCHITECTS (P) LTD, KATHMANDU, NEPAL				
 Checked By Engineer					 Submitted By Contact Manager				
 Verified By Qty Engineer/CSE					 Approved By Team Leader				



REGIONAL URBAN DEVELOPMENT PROJECT																	
Biratnagar Metropolitan City																	
Contract No:- RUDP/ICB/BRT-02																	
Summary Sheet of Monthly Test Report																	
													Month:		January		
													Year		2018		
													Type of Material		Sub-base		
Sn.	Lab.Ref.no.	Location of Sample	Source of Sample	Date of Testing	Sieve Size in mm / passing % By Weight								MDD	OMC	PI%	CBR %	Remarks
					63	40	20	10	4.75	2.36	1.18	0.075					
1	RUDP-SB-01	R-27	Chisang Khola	1-Jan-18	100	93.24	79.47	64.95	53.24	41.82	28.85	6.65	2.220	6.80			
2	RUDP-SB-02	R-27	Chisang Khola	2-Jan-18	100	93.95	80.16	65.09	52.84	40.44	23.04	6.44					
3	RUDP-SB-01	B3-3	Chisang Khola	2-Jan-18	100	93.81	79.49	66.04	55.28	42.35	27.46	7.76	2.227	6.00			
4	RUDP-SB-02	B3-3	Chisang Khola	3-Jan-18	100	93.74	78.85	65.19	53.74	42.13	26.83	5.76	2.224	5.49			
5	RUDP-SB-03	B3-3	Chisang Khola	4-Jan-18	100	94.47	79.94	66.34	56.15	40.18	26.43	6.10					
6	RUDP-SB-01	R-12	Chisang Khola	4-Jan-18	100	94.19	51.68	67.55	56.44	38.63	24.22	6.41	2.232	3.49			
7	RUDP-SB-02	R-12	Chisang Khola	5-Jan-18	100	91.30	82.02	65.44	54.12	39.69	24.42	8.14					
8	RUDP-SB-01	R-26	Chisang Khola	3-Jan-18	100	93.61	79.36	65.49	54.66	39.16	24.70	6.10	2.229	5.75			
9	RUDP-SB-02	R-26	Chisang Khola	4-Jan-18	100	93.73	79.49	64.39	53.29	37.41	23.23	6.06					
10	RUDP-SB-01	R-25	Chisang Khola	4-Jan-18	100	93.93	80.82	67.03	55.64	40.09	24.93	6.48	2.225	5.7			
11	RUDP-SB-02	R-25	Chisang Khola	5-Jan-18	100	94.22	81.14	66.84	55.22	37.46	20.81	6.40					
Spec. Limit :					100	70-100	50-85	40-75	30-60	20-45	15-37	4-15					
Contractor					Consultant												
ZHONGHENG CONSTRUCTION GROUP INTERNATIONAL ENGINEERING CO. LTD.					BUILDING DESIGN AUTHORITY (P) LTD IN JOINT VENTURE WITH R.N. CONSULTANCY PVT. LTD AND PLUS ENGINEERS & ARCHITECTS (P) LTD, KATHIMANDU, NEPAL												
 Checked By Engineer					 Submitted By Contact Manager					 Verified By Qty Engineer/CSE					 Approved By Team Leader		



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REGIONAL URBAN DEVELOPMENT PROJECT

Biratnagar Metropolitan City

Contract No: RCSP/ICB/BT-01

Summary Sheet of Monthly Test Report

														Month		January				
														Year		2018				
														Type of Material		Base				
S.N.	Lab.Ref.no.	Location of Sample	Source of Sample	Date of Testing	Sieve Size in mm / % passing By Weight								MDD	OMC	PI%	L.A.A. %	Fl and El %	A.I.V. %	CBR %	Remarks
					40	31.5	20	10	4.75	2.36	0.6	0.075								
1	RUDP-B-01	B1, 1+150	Chisang Khola	8-Jan-18	100	91.58	64.38	53.72	37.13	30.16	14.82	2.96	2.242	6.00	5.31		23.13/17.13	22.70		
2	RUDP-B-02	B1, 1+100	Chisang Khola	8-Jan-18	100	89.78	68.43	57.21	38.79	31.61	16.10	2.52			9.32		24.32/18.28	20.80		
3	RUDP-B-03	B1, 1+000	Chisang Khola	8-Jan-18	100	90.84	67.61	55.15	37.62	29.63	14.95	2.54	2.247	6.25	0.67		19.04/18.30	20.90		
4	RUDP-B-04	B1, 0+900	Chisang Khola	9-Jan-18	100	89.82	65.61	50.14	33.66	24.23	13.88	4.46			8.87		20.46/19.08	23.10		
5	RUDP-B-05	B1, 0+800	Chisang Khola	9-Jan-18	100	91.06	69.57	54.02	36.81	24.66	15.28	7.75	2.245	6.35	0.92		18.18/16.38	21.40		
6	RUDP-B-06	B1, 0+700	Chisang Khola	11-Jan-18	100	91.58	71.04	54.30	38.52	27.44	18.78	6.07			9.98		21.86/18.63	21.50		
7	RUDP-B-07	B1, 0+600	Chisang Khola	11-Jan-18	100	91.78	71.84	56.55	40.30	27.91	17.63	3.02	2.244	6.60	1.03		18.07/17.75	21.30		
8	RUDP-B-08	B1, 0+500	Chisang Khola	11-Jan-18	100	91.03	69.63	54.13	39.48	26.45	15.40	2.96			8.85		19.91/17.48	21.80		
9	RUDP-B-09	B1, 0+400	Chisang Khola	11-Jan-18	100	90.41	69.59	55.27	40.21	24.53	13.27	4.72	2.241	6.00	0.70		18.11/17.61	21.40		
10	RUDP-B-10	B1, 0+300	Chisang Khola	12-Jan-18	100	90.50	67.51	51.31	37.05	23.99	13.89	6.48			9.95		19.50/18.03	21.30		
11	RUDP-B-11	B1, 0+200	Chisang Khola	12-Jan-18	100	91.14	70.09	54.86	38.76	25.97	15.12	7.95	2.243	6.00	0.74		21.37/19.18	21.80		
12	RUDP-B-12	B1, 0+100	Chisang Khola	12-Jan-18	100	90.40	69.88	55.22	39.64	25.67	13.58	5.05			8.83		18.53/16.69	21.80		
				</																



REGIONAL URBAN DEVELOPMENT PROJECT

Biratnagar Metropolitan City

Contract No:- RUDP/ICB/BRT-02

Summary Sheet of Monthly Test Report of 20mm Agg.

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**ANNEX-4: Social Safeguard Monitoring
/Environmental Management Plan Formats January,
2018
Attached**



Regional Urban Development Project(RUDP)

Social Safeguard Monitoring

Inventory of Social Facilities

1.General information

Subproject: -RUDP/ICB/BRT/2

Month/Year: January- 2018.

Group/International Engineering Co pvt Beijing
China.

Contract Package: RUDP/ICB/BRT/2

2.Total numbers of contractor workers involved in road construction(write down the number)

Type of Workers		Camp-1	Camp-2	Camp-3	Camp-4	Camp-5	Camp-6	Camp-7	Camp-8	Camp-9	Camp-10	Remarks
Local	Male	3	5	7	6	4	5	8	9	5	5	
	Female											
Non-Local	Male	7	18	39	31	25	38	41	29	42	36	
	Female											
Child Labour	Male											
	Female											

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

Sources	Camp-1	Camp-2	Camp-3	Camp-4	Camp-5	Camp-6	Camp-7	Camp-8	Camp-9	Camp-10	Remarks
a. Piped water	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	
b. Well/Spring											
c. Tanker											
d.											
Code:	2	2	2	2	2	2	2	2	2	2	2
Insufficient-1	Sufficient-2	Plenty-3									

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

Type	Camp-1	Camp-2	Camp-3	Camp-4	Camp-5	Camp-6	Camp-7	Camp-8	Camp-9	Camp-10	Remarks
a. Pit Latrine											
b. Pan	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	
c. Open											
d.											

5. Energy used in labour camp (tick mark)

Sources of E	Camp-1	Camp-2	Camp-3	Camp-4	Camp-5	Camp-6	Camp-7	Camp-8	Camp-9	Camp-10	Remarks
a. Firewood											
b. Kerosene									✓		
c. L.P Gas	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	

Prepared by:-

Bena Suresha

verified by:-

A. R.

Monitored by:-



Regional Urban Development Project(RUDP)

Social Safeguard Monitoring

Inventory of Social Facilities

1.General information

Subproject: -RUDP/ICB/BRT/2

Month/Year: Jan- 2018.

Name of Contractor: -ZHONGGHENG

Construction Group International Engineering

Contract Package: RUDP/ICB/BRT/2

6. Sources and legal status of firewood used in labour camp and its legal status (use code)

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: Community Forest-1, Government Forest-2, Private Fore:

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

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

Type & Owners	Camp-1	Camp-2	Camp-3	Camp-4	Camp-5	Camp-6	Camp-7	Camp-8	Camp-9	Camp-10	Remarks
a.Type1	1	1	1	1	1	1	2	2	1	2	
b.Ownership2	1	1	1	1	1	1	2	2	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	✓	✓	✓	✓	✓	X	X	X	X	✓	
b.Helmet	10	23	46	37	29	43	48	34	43	39	
c. Gloves	9	14	38	35	25	36	37	29	33	31	
d.Boots	10	23	46	37	29	43	48	34	43	39	
e.Masks	10	22	46	37	29	43	48	34	43	39	
f.											

9.Number of locally employed labour involved in construction works (number)

Sex	Brahmin	Chhetri	Janajati	Dalits	Others	Remarks
Male	12	15	8	17	5						
Female											

11.Note of remarks

.....

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Benu Shrestha

Prepared by

Verified by

Monitored by



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
 Group/International Engineering Co pvt Beijing China.

Contract Package: RUDP/ICB/BRT/2

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

Benu Shrestha
 Prepared by:

Verified by: *DAY*

Monitored by:



**Environmental Monitoring Format
Regional Urban Development Project (RUDP)**

Name of Sub Project: RUDP/ Biratnagar

Contract Package: RUDP/ICB/BRT/2

Sub-project Component: Road Lanes Improvement/ Sewerage Drainage

Date/Month: 02/04/2018

SN	Activity	Description/Present Status	Remarks
1	Training		
1.1	Environment, Health and Safety awareness trainings	No	
1.2	Others skill trainings	No	
2	Occupational health and safety		
2.1	Insurance for workers	Yes	
2.2	Personal Protective Equipment (PPE) provided to labours and are using (helmet, facemasks, muffs, gloves, boots, jacket, goggles etc.)	Yes	
2.3	Public notification Safety and warning signs and informative signboards in working sites for work safety	Yes	
2.4	Use of barricades, caution tape and flag	Partially	
3	Camp site management		
3.1	Location	Konchobari-2, Shanti Check, CN, Raha, BZ,	
3.2	First aid facilities available at camp and work sites	Partially	
3.3	Drinking water supply and sanitation facilities/ pit latrines	Yes	
3.4	Waste Disposal and Management facilities	N/A	
3.5	Type of fuel used for cooking	Gas (except in one location)	
4	Spoil and Construction material Management		
4.1	Cut and fill balance maintained or not, Reuse of spoil materials	N/A	
4.2	Use of safe spoil disposal locations		
4.3	Disturbance to Pedestrian and traffic movement		
5	Air, Noise and Water Pollution		
5.1	Dust emission and Noise pollution sites	Water sprinkle using water tank	



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5.2	Water quality monitoring result and locations		
5.3	Blockage of natural drainages, water logging, drain water discharge into farm land/ risky areas	N/A	
6	Quarrying of construction materials and Plants Installment		
6.1	Quarry/borrow operation sites	No Quarry	
6.2	Crusher plant and Asphalt plant operation restoration	Yes	
7	Impact/Disruption of Private properties		
7.1	Building structures	No	
7.2	Other utilities		
8	Impact/ disruption of public infrastructures		
8.1	Irrigation canal	No	
8.2	Water supply pipe	No	
8.3	Access road	No	
8.4	Electric/Telephone pole	No	
8.5	Others	No	
9	Sites for cultural and religious values		
9.1	Cultural and religious sensitive spots (if any)	N/A	
10	Forest and vegetation		
10.1	Number of tree removal	Not Yet	
10.2	No of tree plantation (Roadside)		
11	Accident cases and records		
12	Employment to local people		
12.1	Men and women	Yes	
12.2	Child labour (if any)	No	
13	Establishment of Safeguard desk and meeting	Yes	
14	Grievances from local people and addressed	Yes	



 Zhongheng Construction Group

 International Eng. Co., Ltd.

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Master Plan of RUDP Project

