

Building Design Authority (P) Ltd

in joint Venture with

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

Monthly Progress Report

for

Secondary Towns Integrated Urban Environmental Improvement Project (STIUEIP), Biratnagar, Nepal



June 2018

Biratnagar Metropolitan City (BMC), Nepal

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1. SALIENT FEATURE OF CONTRACT PACKAGE: STIUEIP/W/BRT/ICB-01

General Features				
Name of Project	Secondary Towns Integrated Urban Environmental Improvement Project(STIUEIP)			
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	Sewerage and Drainage Network, Wastewater Treatment Plant and Road and Lanes Improvement Sub Project			
Contract No.	STIUEIP/W/BRT/ICB-01			
Location	Biratnagar Metropolitan City, Biratnagar			
	SMEC in association with Brisbane/AQUA/BDA/CEMAT			
Consultant	March 2018 onwards Building Design Authority (P) Ltd in joint Venture with B.N. Consultancy Pvt. Ltd and PLUSH Engineering & architects (P) Ltd Kathmandu			
Contractor	CTCE-KALIKA Joint Venture			
Date of Commencement	08 December, 2013			
Original Completion Date	26 May, 2016			
Date of Completion as per EOT-04 (approved)	31 March, 2018			
Revised date of completion as EOT-05 (proposed)	30 June, 2018			
Revised Contract Amount including PS and VAT w.r.t. VO-04	NRs. 2,956,290,542.71			
Recommended Amount (Up to IPC-30)	NRs. 2,786,105,509.81 (including PS & VAT)			
Physical Progress till June, 2018	98.07% wrt VO-04			
Financial Progress	94.24% (wrt VO-04 including VAT+PS+PA)			

The outstanding/remaining works and defect remedial works are also under progress. IPC - 30 is sent to concerned authorities to peruse and disburse.



Physical progress of works: Components wise

S.No.	Particulars	Unit	Quantity as per VO-4	Quantity completed till date	%age of work done till date	Quantity of remaining works	%age of work remained
1	Storm water drain	m	34,592.83	34,592.83	100.00	-	-
2	Road side drain	m	36,050.00	35,721.65	99.09	328.35	0.91
3	Sewer lines	m	43,668.50	43,638.55	99.93	29.95	0.07
3.a	HDPE sewer line	m	24,476.90	24,452.25	99.90	24.65	0.10
3.b	Hume pipe sewer line	m	19,191.60	19,186.30	99.97	5.30	0.03
4	Roads & Lanes	m	44,643.00	40,293.50	90.26	4,349.50	9.74
5	Waste Water Treatment Plant (WWTP): Overall	m	100.00	91.15	91.15	8.85	8.85
6	Sewer Manholes	Nos.	1,434.00	1,432.00	99.86	2.00	0.14
7	Sewer Inlets	Nos.	2,924.00	1,764.00	60.33	1,160.00	39.67
8	House connections	Nos.	4,500.00	1,279.00	28.42	3,221.00	71.58

Note: Remaining works in Road and Lanes are asphalt at WWTP and some lanes where the road side drains were not constructed thus sub base isn't laid.

2. INTRODUCTION / BACKGROUND

- a) SMEC International Pty (Australia)in association with Brisbane City Enterprise Pty Ltd (Australia), AQUA Consultant and Associates Ltd (Bangladesh), Building Design Authority (Nepal) and CEMAT Consultants(Nepal) have entered for a Contract of Consulting Services with Secondary Towns Integrated Urban Environmental Improvement Project (STIUEIP), Project Implementation Unit(PIU), Biratnagar Sub Metropolitan City on 7th December 2011. This monthly Progress Report of **June**, 2018 has been submitted to the PIU as per the Work Program proposed in the consultant's technical proposal as well as TOR of the consultant.
- b) Secondary Towns Integrated Urban Environmental Improvement Project(STIUEIP), 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 2650-NEP. As per PAM contribution from GoN is 3.99 million USD, Asian Development Bank (ADB) 18.86 million USD and Biratnagar Sub-Metropolitan City (BSMC) 1.99 million USD while contingency is 2.88 million USD for Secondary Towns Integrated Urban Environmental Improvement Project (STIUEIP), Biratnagar. The cost sharing has been revised in April, 2013 as: Government of Nepal (GoN) is 5.960 Million USD, Asian Development Bank(ADB)24.214 Million USD, TDF loan 4.098 Million USD and Biratnagar Sub-Metropolitan City(BSMC)2.980 Million USD and in total 37.252 Million USD.
- c) 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 proposed project Secondary Towns Integrated Urban Environmental Improvement Project (STIUEIP) is another step forward to promote healthy cities by creating healthier urban environments and was formulated under the PPTA 2010.
- Contract of consulting services signed on 07 December 2011.
- Design works commenced on 01 January 2012.
- Final design works submitted to the Client on March 2013
- Contract of construction works signed on 02 December 2013
- Construction works commenced on 08 December 2013
- The revised work Programme -3 with S-curve and Resource plan is submitted by the Contractor along with EOT-2.
- After approval of EOT-3 as of 30 November, 2017, Contractor has submitted the draft revised work Programme without S-curve and resource plan.
- EOT-04 is approved till 31 March, 2018.
- Taking over certificate has been issued on 6th Feb 2018 according to *clause 10.1, 10.2 and 17.2* of the FIDIC Conditions of Contract for completed sections/works except Waste Water Treatment Plant (WWTP), Dedicated electricity line for WWTP, Jatuwa, R6 (Sahi Marg), R3 (Dharambandh road) and R4 (Jatuwa Marg) and DLP will start except above works on 6 Feb 2018 and will be completed on 5 Feb 2019 except Waste Water Treatment Plant (WWTP), Dedicated electricity line for WWTP, Jatuwa, R6 (Sahi Marg), R3 (Dharambandh road) and R4 (Jatuwa Marg) as decided in the meetings of dated 22 Nov 2017 and 02 Jan 2018. On request from the contractor to finish the above remaining works will take about three months more thus the EOT No.: -05 is approved till 30th June 2018.
- It is decided and agreed by the employer to supervise the STIUEIP, Biratnagar by the of RUDP, Biratnagar from 1st March, 2018 till the completion of the project including DLP and Operation and Maintenance.



3. SUB PROJECT COMPONENTS

3.1.SEWER LINES

d) The prioritized sewer lines for Final Detailed Engineering Report of BMC are as follows:

Table 1: PROPOSED SEWER LINES in BMC

S. NO.	Description	Unit	Original Quantity	Revised Quantity as per VO-3
1	Sewerage Pipe Supply and Installation	m	63,964.00	43,668.50
	Reinforced Concrete Pipe laying and jointing		16,612.00	19,191.60
	Line T1 (Secondary	m	3,788.00	5,026.80
	Line T2 (Trunk)	m	8,370.00	9,488.00
	Line T3 (Trunk)	m	4,136.00	4,493.30
	Line T4 (Secondary)	m	318.00	183.50
	HDPE laying and jointing	m	47,352.00	24,476.90
	Line T1 (Secondary	m	7,124.00	3,817.10
	Line T2 (Trunk)	m	19,410.00	13,595.40
	Line T3 (Trunk)	m	18,606.00	6,947.10
	Line T4 (Secondary)	m	2,212.00	117.30
2	Manhole (Brick / RCC)	no.	2,036.00	1,434.00
3	Sewer Inlet	no.	3,766.00	2,924.00
4	House Connection	no.	5,930.00	4,500.00
5	Reinstatement of Roads	Km	66.06	44.683

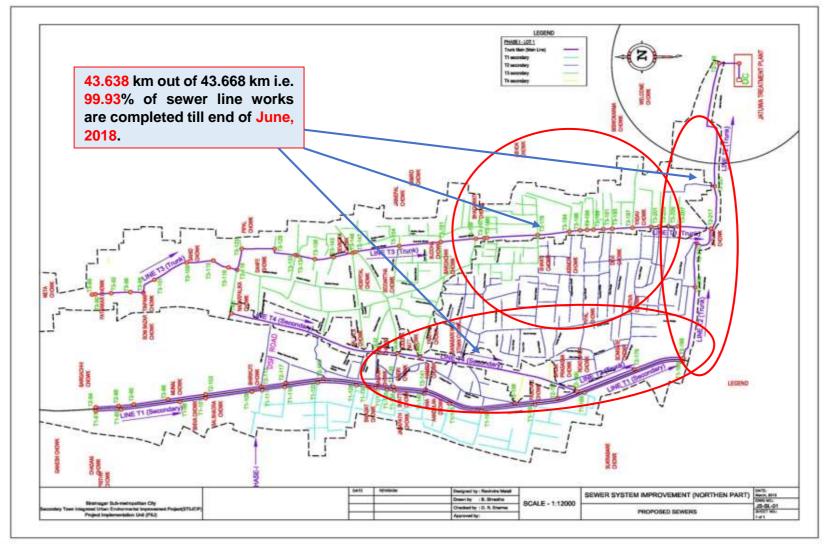


Figure 1: PROPOSED SEWER LINES IN BMC

3.2.STORM WATER DRAIN

e) Most of the storm drains (S13, S11, S9, S5, B1, B2, B3, CN2, CN3 and southern parts) have been provisioned as Phase I priority works. The major storm drain outlets as planned are 14 numbers and catchment areas and discharges are respectively 1,324.2 Ha and 73.21 cum/sec.

Table 2: PROPOSED STORM WATER DRAINS in BMC

S.No.	Description	Unit	Original Quantity	Revised Quantity as per VO-3
A	Storm Drain for Northern Parts		28,491.00	27,678.00
I	Storm Drain Lines	m	28,491.00	
II	Culvert	No.	41.00	
III	Outfall	No.	15.00	
IV	Rain Inlet	No.	30.00	
V	Manhole	No.	30.00	
VI	Canal Crossing	No.	11.00	
В	Storm Drain for Southern Part			
I	Brick Masonry Drain	m	8,483.00	6,487.00
II	Cleaning and Maintenance of Existing Drain	m	7,273.00	
III	Culverts	No.	38.00	
С	Rehabilitation of Existing Drain			
I	Drain Cover	m	30,467.00	
II	Cleaning and Maintenance of Existing Drain	m	33,601.00	

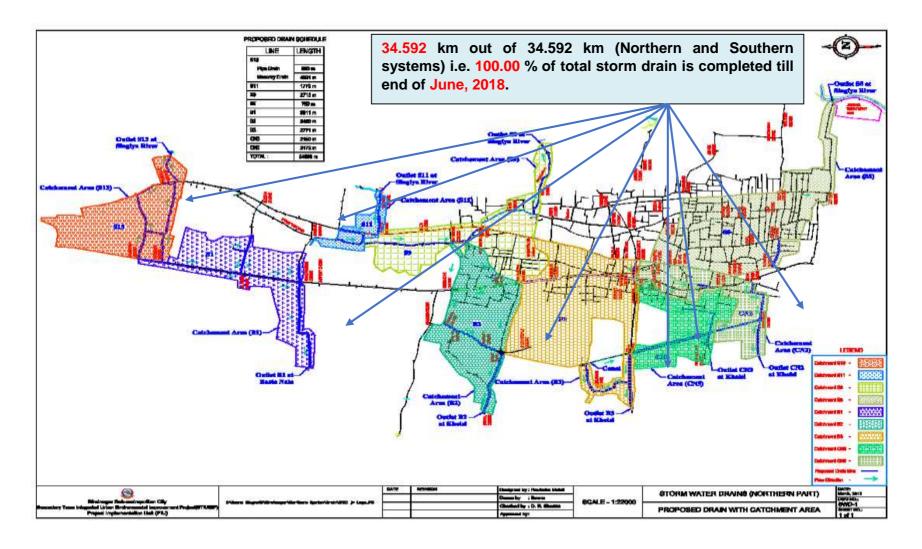


Figure 2: PROPOSED STORM WATER DRAINS IN BMC (Northern Drainage System)



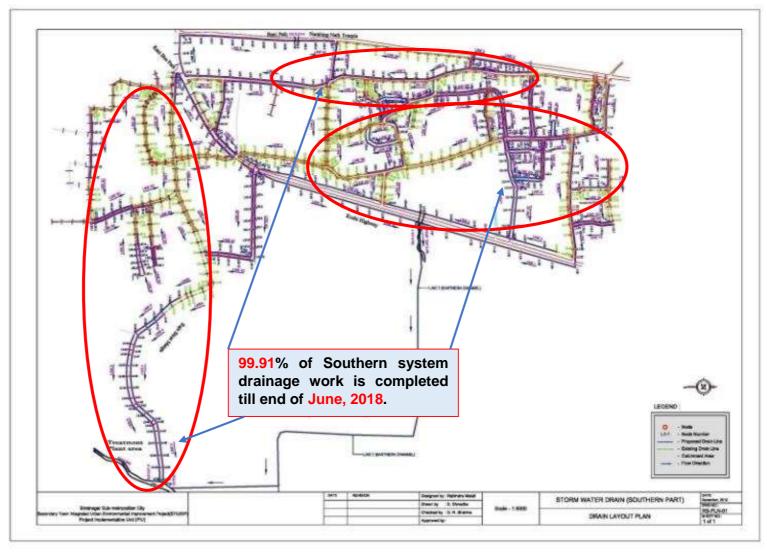


Figure 3: PROPOSED STORM WATER DRAINS IN BMC (Southern Drainage System)



3.3. WASTE WATER TREATMENT PLANTS

f) The quantity of domestic waste water is calculated using water supply rate at 90 liters per person per day in the design year 2035, out of which 80% is converted into waste water. Maximum quantity of waste water is calculated taking peak factor of 1.99 to 2.5. Minimum quantity of sewage is taken as 30% of the average quantity. Commercial / Institutional / Industrial waste water quantity is calculated as 0.10 LPS/ha. While infiltration quantity is calculated as 0.14 LPS/ha in the design year 2035. The total quantity of commercial / institutional / industrial and infiltration waste water estimated as 237.79 LPS in the design year 2035 which is very large in comparison with domestic waste water quantity of 207.18 LPS. The maximum quantity (peak flow) of waste water in the design year 2035 for both Phase I and Phase II are as is estimated at 650.08 LPS. The maximum quantity of the waste water for Phase I is estimated as 213.97 LPS only. The capacity of the Phase I WWTP has been adopted as 214 LPS. The capacity of the Phase II WWTP will be thus 436 LPS. Features of WWTP at Jatuwa are as follows:

Table 3: PROPOSED WASTE WATER COMPONENTS in BMC

S. No.	Description	Unit	Nos.
	Waste Water Treatment Plant Components		
1	By Pass Chamber	No	1
2	Distribution Chamber	No	1
3	Bar Screen Chamber	No	2
4	Sump well with Pumping Station	No	2
5	Collection Chamber1	No	1
6	Oil &Grease Chamber	No	2
7	CollectionChamber2	No	1
8	Grit Chamber	No	2
9	CollectionChamber3	No	1
10	Anaerobic Pond	No	3
11	Facultative Pond	No	3
12	Collection Chamber4	No	1
13	Outfall Structure	No	1
14	Sludge Drying Bed	No	10
15	Enclosure Chamber Shed	No	1
16	Guard House	No	1
17	Office Cum Lab Building	No	1
18	Workshop Building	No	1
19	Generator/Changing House	No	1
20	Entrance Gate	No	1
21	Boundary wall	m	1,340
22	Shallow Tube Well with water Tank	set	1
23	Landscaping and Plantation works	Sq.m.	99,915

24	Site clearance, grubbing, surface dressing	Sq.m.	99,915
25	Road construction	m	1,440
26	Road side drain construction	m	2880
26	River training works	m	600
27	Electromechanical works	Set	1
28	Lab Equipment and installation	Set	1

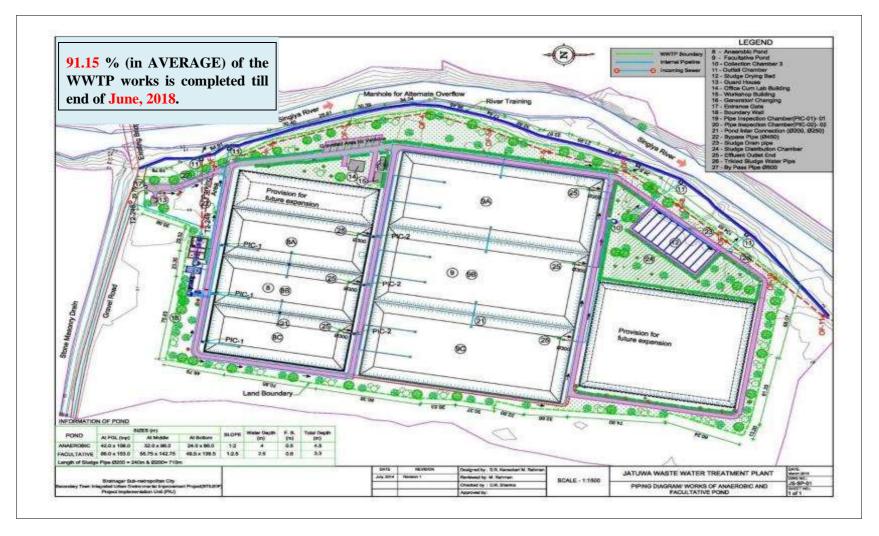


Figure 4: PROPOSED WASTE WATER TREATMENT PLANT at JATUWA in BMC



3.4.ROADS AND LANES

g) 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 3.224 Km road improvement with Asphalt from Pushpalal Chowk to Pani Tanki Chowk is completed where as in other roads 37.069 Km Sub-grade and Sub-base is completed till this month and hence the Project has considered on design based on reinstatement, rehabilitation and upgrading of existing roads and lanes.

Table 4: PROPOSED ROADS in BMC

Description of Item	Quantity
Main Road Improvements (Road from Pushpalal Chowk to Pani Tanki)	3.224 Km
Reinstatement and Road Improvements (under Sewer line installation) and WWTP	41.358 Km

3.5.ENVIRONMENTAL ASPECT

- h) 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
- i) had approved the IEE on May14, 2013.
- j) Installation of functioning sewers and functioning drainage system including roads/lanes improvement in BSMC 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.
- k) DSC has prepared and submitted Environmental Progress Reports (Semi-Annual) October 2014 March 2015 and Quarterly Updated Environmental Report, January March on 27 May 2015.Recently, the DSC has received comments from PCO to revise semi-annual environmental report. The next Quarterly Updated Environmental Report for the months of April, May and June 2016 and semi annual report has been submitted in July, 2016. The Updated Environmental Annual Report for the months of January 2017 to June 2017 and July 2017 to December 2017 has been submitted in Dec, 2017.

3.6.SOCIAL ASPECT

l) Secondary Towns Integrated Urban Environmental Improvement Project (STIUEIP) in Biratnagar has commenced from 2010 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 STIUEIP in Biratnagar Metropolitan City (BMC). Besides this, community development and institutional strengthening components, the two other objective focused components of STIUEIP Biratnagar are running various social development programs and activities.

Social development component is one of the major components of STIUEIP Biratnagar that comprises of various social development programs and activities like community development program (CDP), awareness raising, skill development, health and sanitation. Social Development Specialist (SDS) in Design and Supervision Consultant (DSC) is deputed to assist the Project Implementation Unit (PIU) in implementing effectively the social activities to achieve the project goal as envisaged by the project. Monitoring of ongoing social development activities and consultation meetings with community people are the general tasks to be accomplished as regular basis.

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.

Based on the poverty indicators, all details have been documented and shown in the social map. The program area for community development programs has been extended to most poverty stricken area scattered across several wards of the BSMC. The Community Development Program includes meetings, orientation, awareness activities, skill development trainings and health, hygiene and sanitation activities which are conducted and organized by the NGO (Fri PAD).

The updated Semi- Annual Report for the period of January 2017 to June 2017 and July 2017 to December 2017 has been submitted in Dec. 2017.

3.7.FINANCIAL PLAN

m) The Sub-project cost will be disbursed in three years starting from FY2013/14 to 2015/16. It has estimated that 20 percent of the Sub-project cost will be disbursed in first year. Similarly, in second year, 50 percent will be disbursed. Finally, remaining 30 percent of Sub-project cost will be disbursed in third year. Actual disbursement in the first fiscal year was 4.3 % (up to July 2014); 34.3% (up to July 2015 inclusive VO1) in second fiscal year was 56.72% so total was 88.53% (up to August, 2017). Hence the remaining disbursement 11.47 % will be done in fourth year.

3.8.DISBURSEMENT RECORDS IN CONSTRUCTION

Table 5: DISBURSEMENT RECORDS in CONSTRUCTION

S. No.	Description of Payment	Total Bill Amount with VAT & PS	Remark
1	IPC 01		
2	IPC 02	29,553,479.92	
3	IPC 03	50,406,775.75	
4	IPC 04	44,819,505.68	
5	IPC 05	23,380,168.96	



S. No.	Description of Payment	Total Bill Amount with VAT & PS	Remark
6	IPC 06	90,796,339.68	
7	IPC 07	80,854,600.52	
8	IPC-08	122,334,488.86	
9	IPC-09	116,092,187.14	
10	IPC-10	132,327,417.89	
11	IPC-11	169,853,829.07	
12	IPC-12	23,121,515.46	
13	IPC-13	85,563,926.44	
14	IPC-14	163,562,505.71	
15	IPC-15	139,008,112.96	
16	IPC- 16	137,640,413.95	
17	IPC-17	135,118,714.02	
18	IPC-18	39,288,088.98	
19	IPC-19	76,081,596.87	
20	IPC-20	74,522,638.96	
21	IPC-21	152,577,081.94	
22	IPC-22	140,477,295.40	
23	IPC-23	66,139,814.38	
24	IPC-24	110,913,194.49	
25	IPC – 25	169,428,867.45	
26	IPC-26	129,978,851.94	
27	IPC-27	65,357,880.77	
28	IPC-28	84,960,602.31	
29	IPC-29	131,945,614.31	
30	IPC-30	199,717,420.90	
	Grand Total =	2,985,822,930.71	
	Total payment to date including PS, PA & VAT and excluding mobilization =	2,985,822,930.71	
	Total payment to date including PS & VAT and excluding mobilization and PA =	2,779,191,341.00	Total PA amount with VAT = 206,555,373.18



4. OBJECTIVES AND SCOPE OF WORKS

4.1.OBJECTIVES

- n) The following are the expected physical infrastructure improvement outputs of the project in Biratnagar Metropolitan City:
 - Drainage and sewerage systems improvement.
 - Urban roads and lanes improvement.
- o) Reference to the deliverables identified in the Project, indicates that there are a number of deliverables related specifically to the design aspects of the above infrastructure improvements with construction works.

4.2.SCOPE OF WORKS

- p) The scope of works for consultant's services is fairly detailed in the TOR attached with contract Agreement. The main points are summarized below:
 - A. Detailed Design and Procurement Assistance Phase
 - 1. Surveys verification of Feasibility Studies and GIS Base Maps
 - 2. Finalization of Design Criteria, Preparation of Manuals, Guidelines and Systems.
 - 3. Specific design requirements for the sub-projects
 - Improvement and development of drainage and sewerage systems
 - Improvement of urban roads and lanes
 - 4. Project Planning and Management Support to PIU
 - 5. Detailed Engineering Design
 - B. Construction and Post Construction Management Phase
 - 1. Construction Management and Contract Administration
 - 2. Environmental and Social Compliance Monitoring
 - 3. Implementation of Community Development Program, Community Mobilization and GESI Action Plan
 - 4. Capacity Building of the Municipality and Service Providers for Operational Sustainability
 - C. Communications, Reporting and Deliverables (Inception Report, Monthly Progress Reports, Interim Report for each of the outputs, Annual Progress Report, Draft Final Report for each of the outputs and Final Report).

5. PROGRESS OF SUB – PROJECT COMPONENTS

5.1.STORM WATER DRAINS

q) The Contractor has resumed the works from mid-December 2015 in difficult situation due to Madhesh Strikes and partial fuel supply. But, again they have started the works of Storm drains at S9, CN3L1A, B2, S11 and A1, which are completed.



The contractor has completed storm water drain about 34.592 km out of 34.592 km, 100% till June, 2018.

5.2.SEWER LINES

r) The Contractor has resumed the sewer works from mid-December 2015 in difficult situation due to Madhesh Strikes and partial fuel supply. No work in this month due to rain. Almost, all sewer lines have been disturbed by high flood occurred on 12th August, 2017. The settled portion of R3 lane has been rectified and the cleansing work of sewer manholes and placement of Sewer inlets & House connection chamber are going on.

The Contractor has completed sewer lines with HDPE and RCC pipes about 43.638 km out of 43.668 km which is 99.93%, till June, 2018.

The proposal of the precast concrete manholes, sewer inlets and house connection chambers had been submitted for review and approval. Approval in consultation with the Employer has been given to the Contractor to execute at site because the proposal comes out to be economical, time effective and environmental friendly and structurally strong enough to carry out the function of their respective items.

The precast concrete house connection chambers, sewer inlets and manholes were installed at sites and found to be effective and we were able to open traffic at the shortest possible time. Especially where the business center with crowds (in R5 and R65 Roads) were very efficient and effective. This has reduced disturbances to the local people and road users, dumping of construction materials, workers and working for long period. This is found to be environment friendly too. Hence, the adaptation of precast units for sewer lines found to be effective and efficient.

During the site visit of delegate at different time in the construction period from BSMC, PMSC, ADB, PCO, local political representatives, TLO, Executive Director of TDF and the Secretary of Ministry of Urban Development have commended.

The payment for the respective item of works as appropriate is being paid under each IPCs for the cash flow and to account disbursement in ADB's disbursement book.

5.3. WASTE WATER TREATMENT PLANT

s) Office cum laboratory building, workshop building and generator / changing house at WWTP, Jatuwa are almost completed. The Contractor has been continued all activities of WWTP.

Now the Contractor is carrying out Sump well, remaining boundary wall at WWTP from mid-December 2016. Structure work in Sump well has been revised as per site condition and work started as per revised drawing. Rip Rap stone masonry for Anaerobic & Facultative Ponds and Bioengineering works are in progress. Pipe system, sand & gravel packing is in progress for sludge drying bed. And the average progress of WWTP is recorded as 91.15%. High flood occurred on 12th August, 2017 by which, there were damage of compound wall, drains, gravel roads, Sump well, stone rip-rap and also sludge drying bed works at WWTP. The civil works of sump well, enclosure chamber, oil & grease chamber and grit chamber work are completed. Lab equipment has been purchased and the dedicated feeder electricity line is in progress (civil works completed and most of the accessories are purchased).



5.4. ROAD AND LANES IMPROVEMENT WORKS

t) The Contractor has completed the rehabilitation / repair of existing drain of about 6.6 km in R2 road. The Contractor has completed the shifting/ relocating electric poles up to Pani Tanki both sides.

The Contractor has been completed sub-grade preparation, sub-base, base course, prime and Tack coat and asphalt concrete in R2 road up to Pani Tanki Chowk. Road works have been frequently disturbed due to the existing water supply network and house connection pipes. The Contractor has completed road works with Sub Base along the sewer lines about 40.293 km out of 44.643 km, 90.26% till June, 2018.

5.5. CONSTRUCTION MATERIALS

u) The fabrication of steel moulds for precast units- manholes, sewer inlets and house connection chamber are continuing in this month also. Similarly, other item of works inside the Contractor's yard is also going on smoothly.

The Contractor has resumed to produce the precast items (drain cover slabs) at the Contractor's Camp, Katahari from end of October 2017.

5.6. CONSTRUCTION MATERIAL TESTING LAB

v) Construction material testing laboratory has been set up at the Contractor's camp at Katahari. Cube Test, Brick Compressive Strength, Cement Test is conducted in the Laboratory. Besides these tests, Aggregate Crushing Value (ACV), Flakiness Index (FI), Los Angeles Abrasion (LAA), CBR tests are also conducted.

As regular, Three Edge Bearing Test for RCC pipes of different diameter has been conducted on 20 January 2016 at Itahari in presence of Consultant (TL, CSE) and PM/PIU. And results were found satisfactory.

Now, construction material testing lab is working in full swing for testing of sub grade material, sub base material, base material, Bituminous items, concrete, brick, sand and aggregates.

5.7. PHYSICAL PROGRESS TILL June, 2018

w) Total physical progress till June, 2018 is about 98.07% w.r.t vo-4.

Table 6: PLAN vs ACTUAL PROGRESS till June, 2018

Secondary Towns	Integrated Urbai	n Environmental Im	provement Project	(STIUEIP), Biratnagar

Plan Vs. Progress

Month	Sep-14	Oct-14	Nov-14	Dec-14	Jan-15	Feb-15	Mar-15	Apr-15	May-15	Jun-15	Jul-15	Aug-15	Sep-15	Oct-15	Nov-15	Dec-15
Cumulative Planned work Rev 01 (%)	17.098	18.514	26.588	36.398	46.281	56.947	67.003	76.728	86.593	94.037	95.75	95.99	96.16	96.3	96.45	96.59
Cumulative Planned work Rev 02 (%)				14.04	20.11	28.74	37.22	44.94	51.60	57.295	59.33	60.92	60.99	61.07	64.65	71.29
Cumulative Planned work Rev 03 (%)													41.847	45.447	47.767	58.037
Cumulative Actual Achievements (%)	5.81	5.98	9.29	10.77	12.57	17.57	21.82	25.25	27.85	34.317	34.317	34.317	34.317	34.317	34.317	34.94
Progress lagging to date wrt the work plan rev 03 (%)	revised	(12.53)	(17.30)	(3.27)	(7.54)	(11.17)	(15.40)	(19.69)	(23.75)	(22.98)	(22.98)	(22.98)	(7.53)	(11.13)	(13.45)	(23.09)

Secondary Towns Integrated Urban Environmental Improvement Project (STIUEIP), Biratnagar

Plan Vs. Progress

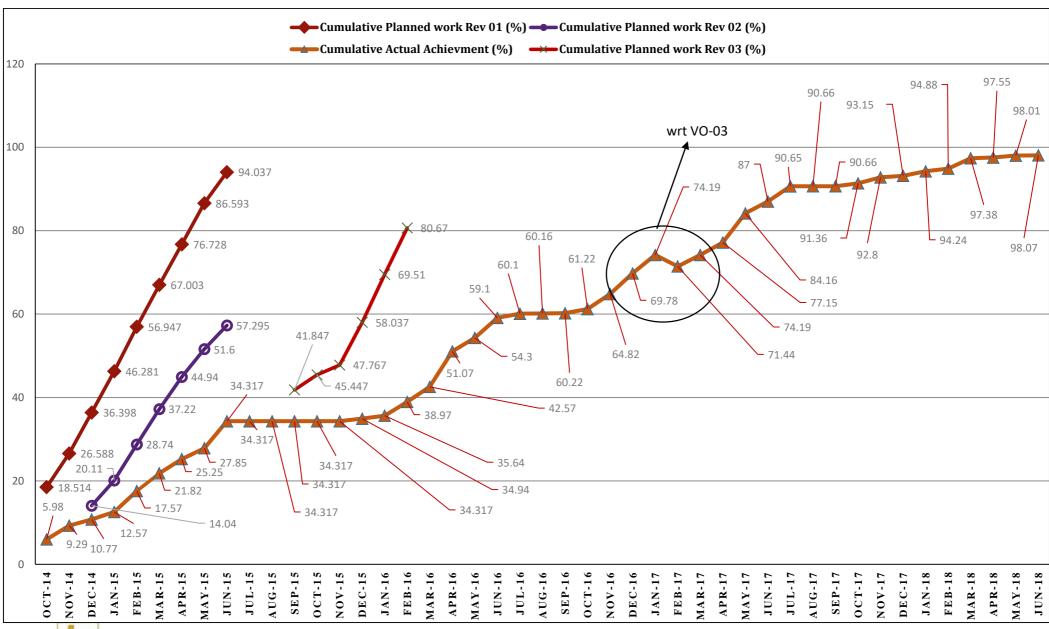
Month	Jan-16	Feb- 16	Mar-16	Apr-16	May-16	June-16	July- 16	Aug- 16	Sep-16	Oct-16	Nov- 16	Dec-16	Jan-17	Feb-17	Mar-17
Cumulative Planned work Rev 01 (%)	96.74	97.38	97.18												
Cumulative Planned work Rev 02 (%)	79.29	88.71	96.41												
Cumulative Planned work Rev 03 (%)	69.51	80.67	91.46	97.82	100.00										74.83
Cumulative Actual Achievements (%)	35.64	38.97	42.57	51.07	54.30	59.10	60.10	60.16	60.22	61.22	64.82	69.78/63.12	74.19/67.53	71.44 (wrt Vo-03)	74.19
Progress lagging to date versised work plan rev 03 ((33.87)	(41.70)	48.89	46.75	45.70										(0.64)

Secondary Towns Integrated Urban Environmental Improvement Project (STIUEIP), Biratnagar Plan Vs. Progress

Month	Apr-17	May-17	June-17	July-17	Aug-17	Sept-17	Oct-17	Nov-17	Dec-17	Jan-18	Feb-18	Mar-18	Remarks
Cumulative Planned work Rev 01 (%)													
Cumulative Planned work Rev 02 (%)													
Cumulative Planned work Rev 03 (%)	83.39	93.05	99.62	100.00									
Cumulative Actual Achievements (%)	77.15	84.16	87.00	90.65	90.66	90.66	91.36	92.80	93.15	94.24	94.88	97.38	VO-04 has been submitted to the concerned authorities for approval
Progress lagging to date wrt the revised work plan rev 03 (%)	(6.24)	(8.89)	(12.62)	(9.35)	(9.34)	(9.34)	(8.64)	(7.20)	(6.15)	(5.76)	(5.12)	(2.62)	

Secondary Towns Integrated Urban Environmental Improvement Project (STIUEIP), Biratnagar Plan Vs. Progress

Month		Apr-18	May-18	June-18	July-18	Aug-18	Sept-18	Oct-18	Nov-18	Dec-18	Jan-19	Feb-19	Mar-19	Remarks
Cumulative Planned work Rev 01 (%)														
Cumulative Planned work Rev 02 (%)														
Cumulative Planned work Rev 03 (%)														
Cumulative Actual Achievements (%)		97.55	98.01	98.07										
Progress lagging to date wrt revised work plan rev 03 (%)	the	(2.45)	(1.99)	(1.93)										



6. SUMMARY OF ACTIVITIES CARRIED OUT UP TO PREVIOUS MONTHS

6.1.ORGANIZATION AND STAFFING

The Project has involvement of different organization and the staffing as shown below.

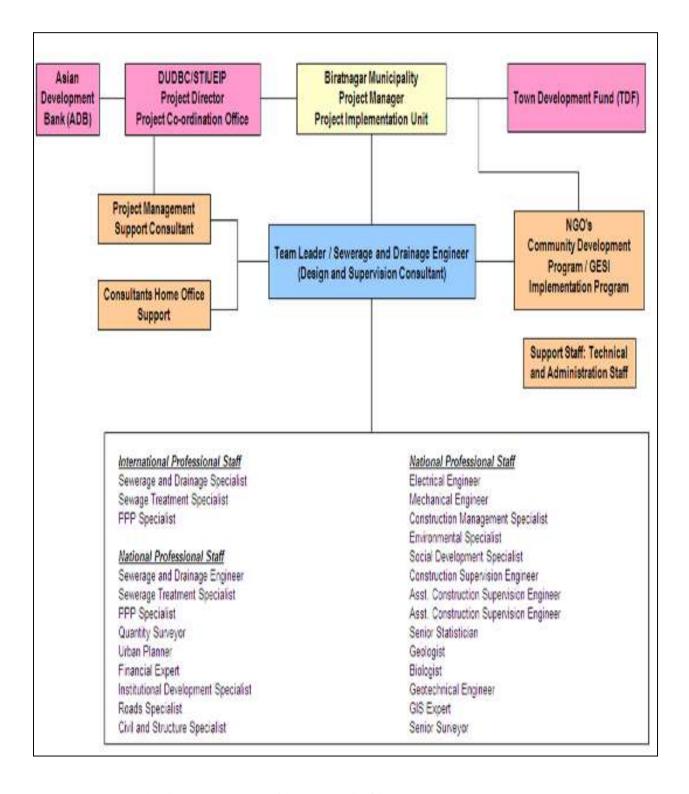


Figure 5: ORGANIZATION and STAFFING of STIUEIP, Biratnagar



6.2.INCEPTION REPORT

x) The Inception Report was prepared and submitted on 29 February, 2012.

6.3. CONCEPTUAL CATCHMENT PLAN AND DESIGN CRETERIA

y) The Conceptual Catchment Plan and Design Criteria was prepared and presented in PCO on 30 March, 2012.

6.4.SURVEY

z) The survey was completed in August, 2012.

6.5.DESIGN

- aa) The design of sewer lines, storm drains, WWTPs and appurtenances and final detailed design and estimates were submitted in March 2013.
- bb) During construction B2, B3 and S5 alternate design was also submitted. Similarly, CN2 and CN3 were submitted as the community request to reduce the size. The size was reviewed with 1 year return period as per the suggestion made by PMSC during field visit. Minor modifications in drawings are being carried out for considering the site condition and progress.

6.6.PRE – CONSTRUCTION ACTIVITY

cc) After successful completion of one stage two envelope bidding procedure the construction contract for STIUEIP/W/BRT/ICB-01 was signed on December 2, 2013 with M/S CTCE-Kalika JV, Baluwatar, Kathmandu.

6.7.DRAFT REPORT

- dd) The construction / contract timing schedule was needed to incorporate some additional time of about 4 5 months to account for decision re-making process, tender award procedures.
- ee) The total cost as per PPTA and earlier designs increased drastically and came to be

NRs. 7,274,465,206.69 and therefore needs curtailments and revisions had to be made as per suggestions by PIU in final report.

ff) The overall works proposed in the PPTA and the area coverage with connection was thus needed to be phased out.

6.8.FINAL REPORT

gg) The DSC submitted the Final Reports adopting cost reduction exercise by phasing out of the works. The estimated cost of the Project was reduced and kept as NRs. 3,278,140,000.00 with a



lot of exercises in March 2013.

hh) The sharing of cost by concerned institutions is as follows

Table 7: AGENCY-WISE FINANCIAL CONTRIBUTION to BMC

Contributors	Amount(US\$)	Amount (NRs.)	%
Government of Nepal (GoN)	5,960,256.00	524,502,513.00	16.00%
Asian Development Bank (ADB)	24,213,539.00	2,130,791,460.00	65.00%
Biratnagar Sub-Metropolitan City (BSMC)	2,980,128.00	262,251,257.00	8.00%
Town Development Fund (TDF)	4,097,676.00	360,595,478.00	11.00%

6.9. CONSULTANT'S ACTIVITIES IN CONSTRUCTION PHASE

Note: March 2018 onwards, DSC's team of RUDP will take care of STIUEIP, Biratnagar.

- ii) 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
 - ii. Quality control, cost control and time control
- iii. Measurement and Certification of Interim Payment Certificates (IPC)
- iv. Modification and design of storm drainage and sewer lines, manholes etc. as per site condition and approve working drawings
- 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. Meet obligation of reporting requirement Updated Environmental Progress Report, Updated Resettlement Progress Report, Monthly Progress Report, Semi-Annual Updated Resettlement Progress Report
 - ix. Prepare Due Diligence Report of the Project
 - x. Maintain correspondences with the Employer and the Contractor
 - xi. Assist to PIU



6.10. KEY DATES

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

Table 8: KEY DATES of EVENTS / ACTIVITIES

S. No	Date	Activities/Events	Remarks
1		Frequent visit by client and concerned authorities.	

7. DETAILS OF ACTIVITIES CARRIED OUT IN THIS MONTH 7.1.PHYSICAL PROGRESS IN THIS MONTH

The Employer has discussed/agreed/decided to curtail (base and Asphalt) from the scope of the work except R2 stretch to meet other items which are essential for the projects. Those are as below:

some works were missed in original contract itself, some works were not foreseen in original contract, some works due to local demand etc.

Therefore, following are the physical progress with respect to variation order No-03 which has been already approved:

Table 9: PHYSICAL PROGRESS in STORM WATER DRAINS till June, 2018

			Progr	ess		
S.N.	Location	Proposed Length in (m)	Up to previous month (m)	This Month in (m)	Total to Date in (m)	Progress (%)
1	B1	3848.00	3848.00	0.00	3848.00	In VO-4
2	B2	4374.00	3893.60	480.40	4374.00	In VO-4
3	В3	3463.00	3463.00	0.00	3463.00	In VO-4
4	S5	1201.00	1201.00	0.00	1201.00	In VO-4
5	S 9	2930.00	2930.00	0.00	2930.00	In VO-4
6	S11	1552.60	1440.60	112.00	1552.60	In VO-4
7	S13	4864.00	4864.00	0.00	4864.00	In VO-4
8	CN2	2197.30	2197.30	0.00	2197.30	In VO-4
9	CN3	2238.15	2238.15	0.00	2238.15	In VO-4
10. a	A1LINE1	624.80	621.88	2.92	624.80	In VO-4



			Progr	ess		
S.N.	Location	Proposed Length in (m)	Up to previous month (m)	This Month in (m)	Total to Date in (m)	Progress (%)
10. b	A1LINE2	694.90	694.90	0.00	694.90	In VO-4
11	A1 - Lanes	-	8.80	0.00	8.80	Crossing
12	Rani	6596.28	6596.28	0.00	6596.28	In VO-4
	Total	34,592.83	33,997.51	595.32	34,592.83	100.00%



Table 10: PHYSICAL PROGRESS in ROAD SIDE DRAINS (till June, 2018)

		T (1	(T) 4 1	Progress (l meter	_	m 4 1		
S.No	Location	Length (m)	Total Length (m)	Up to previous month	This Month	Total Till Date	%age	Remarks
1	R2	3,420.00	6,840.00	6,680.70	-	6,680.70		Pushpalal chowk to Bhatta chowk
2	R3	2,233.00	2,993.00	2,925.00	-	2,925.00		Dharma Banda Marga (Devkota chowk to Jatuwa chowk)
3	R4	1,246.00	2,212.00	892.20	-	892.20		Jatuwa Marga (Koshi highway to Jatuwa chowk to Singhiya river)
4	R5	1,068.00	2,136.00	1,993.00	-	1,993.00		Satya Narayan Marga and College Road
5	R6	1,280.00	2,560.00	1390.00	1100.00	2490.00		Shahi Marga
	R7	485.00	615.00	615.00	-	615.00		Manakamana Marga
6	R7			249.00	-	249.00		Chakabhara Marga to Mankamana Marga
	R8	370.00	740.00	740.00	-	740.00		Madhumara Marga
7	R8			602.00	1	602.00		Madhumara Marga
8	R9D	116.00	232.00	235.40	-	235.40		Phanindra Marga
9	R13	220.00	440.00	400.00	-	400.00		Dewalaya Marga
10	R16	580.00	1,160.00	1,150.00	-	1,150.00		Satya Marga
11	R21	2,420.00	2,420.00	1,985.20	-	1,985.20		Prativa Marga



		Length	Total	Progress (l	_	Total		
S.No	Location	(m)	Length (m)	Up to previous month	This Month	Till Date	%age	Remarks
12	R22	359.00	718.00	676.00	-	676.00		Krishna Marga
13	R24	390.00	780.00	768.00	-	768.00		Bina Marga
14	R25	594.00	1,188.00	1,131.10	-	1,131.10		Devi Marga
15	R26	620.00	1,240.00	1,258.00	-	1,258.00		Pasang Marga
16	R27	977.00	1,954.00	2099.00	-	2099.00		Pipal Marga
17	R28	620.00	1,240.00	950.00	-	950.00		Pustakalaya Marga
18	R29	620.00	1,240.00	1265.00	-	1265.00		Shanti Marga
19	R30	328.00	656.00	357.00	-	357.00		Phanindra Marga
20	R31	187.00	374.00	350.00	-	350.00		Bindabasini Marga (West Side)
21	R32	189.00	378.00	370.00	-	370.00		Tintoliya Marga
22	R37	785.00	1,570.00	892.80	-	892.80		Bishav Marga
23	R64	120.00	120.00	121.00	-	121.00		Satya Narayan Marga
24	R78	92.00	184.00	82.00	-	82.00		Binayak Marga
25	T2L19 R	177.00	354.00	329.75	-	329.75		Bindabasini Marg
26	T2L19 P	103.00	206.00	226.20	-	226.20		Bindabasini Marg



S.No	Location	Length (m)	Total Length (m)	Progress (length in meter)		Total		
				Up to previous month	This Month	Till Date	%age	Remarks
27	T2 19 U	81.00	162.00	144.20	-	144.20		Bindabasini Marg
28	R107	157.00	314.00	288.00	-	288.00		Near to Saptakoshi school
29	R108	96.00	192.00	192.00	-	192.00		Near to Saptakoshi school
30	R109	90.00	360.00	355.00	-	355.00		Near to Saptakoshi school
31	T3L26E	93.00	186.00	177.80	1	177.80		Near to Saptakoshi school
32	T2L18O	143.00	286.00	268.00	-	268.00		Bina Marga
33	R42			271.60	-	271.60		Jahada Marga
34	R104			290.93	-	502.88		VIP Marga
35	T2L26F	Additional Road Side Drains		110.60	-	110.60		Budhabihar Marga
36	R73			263.20	-	453.20		Bhanubhakta Marga
37	T3L29			80.70	-	80.70		
38	WWTP		2880.00	1934.62	700.00	2634.62		
	Total	20,259.00	36,050.00	33,921.65	1800.00	35,721.65	99.089%	

Table 11: PHYSICAL PROGRESS in SEWER LINES (till June, 2018)

	Location	As per	VO-4	Up to Previo	Up to Previous Month		nonth	Total to	date	Progress	s % age	Remarks
S.N.		Distance	Manhole No	Distance	Manhole No	Distance	Manhole No	Distance	Manhole No	Distance	Manhole No	
1	HDPE (T1)	3,817.10	127	3819.50	125	0.00	2.00	3819.50	127			
2	HDPE (T2)	13,595.40	485	13540.65	459	90.00	26.00	13630.65	485			
3	HDPE (T3)	6,947.10	258	6890.10	247	0.00	9.00	6890.10	256			
4	HDPE (T4)	117.30	3	112.00	3	0.00	0.00	112.00	3			
5	Sub Total (HDPE)	24,476.90	873	24,362.25	834	90.00	37.00	24,452.25	871	99.53	99.77	
6	Hume pipe(T1)	5,026.80	144	4761.20	125	0.00	19.00	4761.20	144			
7	Hume pipe(T2)	9,488.00	276	9344.40	236	159.30	40.00	9503.70	276			
8	Hume pipe(T3)	4,493.30	136	4736.40	106	0.00	30.00	4736.40	136			
9	Hume pipe(T4)	183.50	5	185.00	5	0.00	0.00	185.00	5			
10	Sub Total (Hume pipe) =	19,191.60	561	19,027.00	472	249.30	89.00	19,186.30	561	99.97	100.00	
11	Total (HDPE + Hum pipe) =	43,668.50	1434	43,389.25	1306	249.30	126.00	43,638.55	1432	99.93	99.86	

Table 12: PHYSICAL PROGRESS in MANHOLES, SEWER INLETS & HOUSE CONNECTION CHAMBER (till June, 2018)

S.N.	Description Quantity Previ		Up to Previous Month	This Month	Total to Date	Progress (%)
1	Sewer inlet	2924.00	2015.00	(251.00)	1764.00	60.33
2	House connection chamber	4500.00	2104.00	(825.00)	1279.00	28.42

Note: Quantity of SI and HCC corrected as per actual measurement during IPC -30.

Table 13: PHYSICAL PROGRESS in ROADS & LANES (till June, 2018)

	D IN (Progress le	ength in (m)		
SN	Road Name / Location	Proposed length (m)	Previous this month		Total to date	Progress %age
1	R2	3,050.00	3,044.00	-	3,044.00	
2	R2	130.00	130.00	-	130.00	
2	R2	50.00	50.00	-	50.00	
3	R2	177.00	166.00	-	166.00	
4	R3	2,233.00	2,233.00	-	2,233.00	
5	R4	2,163.00	1,218.00	-	1,218.00	
6	R5	370.00	370.00	-	370.00	
7	R5	600.00	604.00	-	604.00	
8	R6	460.00	460.00	-	460.00	
10	R6	820.00	-	-	-	
11	R6	539.00	-	-	-	
12	R7	624.00	407.00	-	407.00	
13	R7	190.00	187.00	-	187.00	

			Progress le	ngth in (m)		
SN	Road Name / Location	Proposed length (m)	Previous month	this month	Total to date	Progress %age
14	R7	95.00	95.00	-	95.00	
15	R7	414.00	414.00	-	414.00	
16	R8	600.00	670.00	-	670.00	
17	R8	355.00	355.00	-	355.00	
18	R8	427.00	427.00	-	427.00	
20	R9	116.00	107.00	-	107.00	
21	R9	210.00	220.00	-	220.00	
22	R9	123.00	117.00	-	117.00	
23	R9	116.00	116.00	-	116.00	
24	R9	84.00	84.00	-	84.00	
25	R10	120.00	120.00	-	120.00	
26	R10	180.00	185.00	-	185.00	
27	R10	320.00	320.00	-	320.00	
28	R10	220.00	220.00	-	220.00	
29	R10	182.00	172.00	-	172.00	
30	R11	160.00	160.00	-	160.00	
31	R11	205.00	205.00	-	205.00	
32	R12	140.00	140.00	-	140.00	
33	R12	280.00	280.00	-	280.00	
34	R12	680.00	480.00	-	480.00	
35	R12	340.00	340.00	-	340.00	
36	R13	220.00	220.00	-	220.00	
37	R13	224.00	224.00	-	224.00	
38	R14	261.00	256.00	-	256.00	
39	R15	210.00	210.00	-	210.00	
40	R16	40.00		-	-	
41	R16	540.00	540.00	-	540.00	



	.		Progress le	ngth in (m)		
SN	Road Name / Location	Proposed length (m)	Previous month	this month	Total to date	Progress %age
42	R16	215.00	221.00	-	221.00	
43	R17	375.00	375.00	-	375.00	
44	R17	222.00	225.00	-	225.00	
45	R18	464.00	464.00	-	464.00	
46	R19	236.00	232.00	-	232.00	
47	R20	108.00	108.00	-	108.00	
48	R21	600.00	600.00	-	600.00	
49	R21	140.00	140.00	-	140.00	
50	R21	580.00	580.00	-	580.00	
51	R22	358.00	358.00	-	358.00	
52	R23	226.00	223.00	-	223.00	
53	R24	384.00	384.00	-	384.00	
54	R25	599.00	594.00	-	594.00	
55	R26	617.00	617.00	-	617.00	
56	R26	244.00	244.00	-	244.00	
57	R27	810.00	810.00	-	810.00	
58	R27	177.00	183.00	-	183.00	
59	R28	635.00	635.00	-	635.00	
60	R28	158.00	158.00	-	158.00	
61	R29	620.00	477.00	-	477.00	
62	R29	263.00	257.00	-	257.00	
63	R30	212.00	212.00	-	212.00	
64	R31	187.00	187.00	-	187.00	
65	R32	190.00	190.00	-	190.00	
66	R33	285.00	285.00	-	285.00	



			Progress le	ngth in (m)		
SN	Road Name / Location	Proposed length (m)	Previous month	this month	Total to date	Progress %age
67	R34	160.00	161.00	-	161.00	
68	R35	160.00	160.00	-	160.00	
69	R36	218.00	220.00	-	220.00	
70	R37	220.00	226.00	-	226.00	
71	R37	200.00	200.00	-	200.00	
72	R38	120.00	120.00	-	120.00	
74	R40	332.00	200.00	-	200.00	
76	R42	218.00	218.00	-	218.00	
77	R64	121.00	121.00	-	121.00	
78	R65	282.00	282.00	-	282.00	
79	R71	100.00	100.00	-	100.00	
81	R73	220.00		-	-	
83	R75	136.00	136.00	-	136.00	
84	R76	272.00	273.00	-	273.00	
85	R77	97.00		-	-	
86	R78	92.00	93.00	-	93.00	
87	R82	280.00	280.00	-	280.00	
88	R82	114.00	114.00	-	114.00	
89	R83	369.00	369.00	-	369.00	
90	R84	120.00	120.00	-	120.00	
91	R86	60.00	60.00	-	60.00	
92	R86	140.00	140.00	-	140.00	



			Progress le	ngth in (m)		
SN	Road Name / Location	Proposed length (m)	Previous month	this month	Total to date	Progress %age
93	R90	320.00	316.00	-	316.00	
94	R91	180.00	180.00	-	180.00	
95	R102	62.00	72.00	-	72.00	
96	R103	173.00	147.00	-	147.00	
97	R104	273.00	276.00	-	276.00	
98	R105	168.00	65.00	-	65.00	
101	R107	167.00	185.00	-	185.00	
102	R108	97.00	36.00	-	36.00	
103	R109	200.00		-	-	
104	R110	252.00	245.00	-	245.00	
105	R111	191.00	191.00	-	191.00	
106	R112	216.00	216.00	-	216.00	
107	R114	320.00	326.00	-	326.00	
108	R121	121.00	121.00	-	121.00	
109	R122	280.00	280.00	-	280.00	
110	T3 Line 23C	145.00	145.00	-	145.00	
111	T3 Line 23	58.00	55.00	-	55.00	
112	T3 Line 24A	63.00	63.00	-	63.00	
113	T3 Line 24B	81.00	77.00	-	77.00	
114	T3 Line 24	33.00	33.00	-	33.00	



			Progress le	ngth in (m)		
SN	Road Name / Location	Proposed length (m)	Previous month	this month	Total to date	Progress %age
115	T3 Line 25A	133.00	123.00	-	123.00	
116	T3 Line 25 B	194.00	188.00	-	188.00	
117	T3 Line 25C	148.00	140.00	-	140.00	
118	T3 Line 25	52.00	52.00	-	52.00	
119	T3 line 27	61.00	50.00	-	50.00	
120	T3 Line 26 E	96.00	90.00	-	90.00	
121	T3 Line 26	128.00	126.00	-	126.00	
122	T3 Line 29	87.00	90.00	-	90.00	
123	T3 Line 30	205.00	205.00	-	205.00	
124	T3 line 31A	177.00	170.00	-	170.00	
125	T3 Line 32	235.00	231.00	-	231.00	
126	T3 Line 33B	170.00	164.00	-	164.00	
127	T3 Line 33A	134.00	134.00	-	134.00	
128	T2 Line 20	320.00	320.00	-	320.00	
129	T2 Line 19	225.00	225.00	-	225.00	
130	T2 Line 18Y	119.00	119.00	-	119.00	
131	T2 line 19S	100.00	100.00	-	100.00	
132	T2 Line 19 o	71.00	71.00	-	71.00	
134	T2 line 18X	154.00	154.00	-	154.00	
135	T2 Line 18O	143.00	143.00	-	143.00	
138	T2 Line 19	153.00	153.00	-	153.00	
140	T2 Line 19W	56.00	56.00	-	56.00	
141	T2 Line 19V	93.00	82.00	-	82.00	
142	T2 Line 19V	138.00	138.00	-	138.00	
143	T2 line 19X	56.00	57.00	-	57.00	
144	T2 line 19Z	48.00	61.00	-	61.00	
145	T2 Line 19Y	106.00	109.00	-	109.00	
						_



	D. IN		Progress le	ngth in (m)		
SN	Road Name / Location	Proposed length (m)	Previous month	this month	Total to date	Progress %age
146	T2 line 19P	107.00	109.00	-	109.00	
148	Bindabasini Marga T2Line19 R,P,Q	350.00	350.00	-	350.00	
150	T2 line 19N	160.00	165.00	-	165.00	
151	T2 Line 19K	205.00	96.00	-	96.00	
155	T3 Line 12	54.00		-	-	
158	T3 Line 13C	285.00	285.00	-	285.00	
159	T2 line 19G	63.00		-	-	
160	T2 line 19H	90.00	70.00	-	70.00	
164	T2 Line 19C	50.00	66.00	-	66.00	
165	T2 Line 19B	134.00	138.00	-	138.00	
168	T3 Line 11A	142.00	137.50	-	137.50	
171	T3 Line 11F	67.00	67.00	-	67.00	
176	T2 Line 26 F	68.00	68.00	-	68.00	
177	T1 Line 16A	140.00	140.00	-	140.00	
178	T1 Line 16C	200.00	200.00	-	200.00	
179	T1 line 17	86.00	86.00	-	86.00	
180	T1 Line 17	82.00	82.00	-	82.00	
181	T1 Line 17A	96.00	96.00	-	96.00	
182	T1 Line 16 B	205.00	205.00	-	205.00	
183	T1 Line 15	224.00	224.00	-	224.00	
184	T1 Line 14	60.00	60.00	-	60.00	
187	T1 Line 13	165.00	165.00	-	165.00	
188	T1 Line 17	115.00		-	-	



			Progress le	ength in (m)	5 7	_
SN	Road Name / Location	Proposed length (m)	Previous month	this month	Total to date	Progress %age
189	T1 Line 17C	97.00		-	-	
192	T2 Line 19H	80.00	80.00	-	80.00	
193	T1 Line 5	290.00	290.00	-	290.00	
194	T1 Line 12	140.00	140.00	-	140.00	
202	S13 (Storm Line)	203.00	203.00	-	203.00	
203		389.00	1	-	-	
204	WWTP	1,440.00	800.00	640.00	1440.00	
205	WWTP	750.00	640.00	110.00	750.00	
	Total	44,643.00	39,543.50	750.00	40,293.50	90.26

Table 14: PHYSICAL PROGRESS in WASTE WATER TREATMENT PLANT (WWTP), JATUWA till June, 2018

	Physical Progress till June, 2018												
		Proposed		Progr	ess	T . 1 .							
S.N.	Description	Quantity as per VO-03	unit	Up to Previous month	This Month	Total to Date	Progress in %age	Remarks					
1	Anaerobic Pond	3.00	Nos.	3.00	0.00	3.00	100.00						
2	Facultative Pond	3.00	Nos.	2.99	0.01	3.00	100.00						
3	River Training Work	600.00	m	600.00	0.00	600.00	100.00	Additional gabion work to protect the boundary wall at River side face : completed					
4	Boundary Wall	1330.00	m	1283.00	0.00	1283.00	96.46						
5	Office cum Lab Building	1.00	Nos.	1.00	0.00	1.00	100.00						
6	Workshop Building	1.00	Nos.	1.00	0.00	1.00	100.00						
7	Generator / Changing House	1.00	Nos.	1.00	0.00	1.00	100.00						
8	Sump Well	1.00	Nos.	0.85	0.03	0.88	88.00	First floor shuttering, formwork and re bar works are in progress					
9	Sludge Drying Bed	1.00	Nos.	0.97	0.02	0.97	97.00	Filter materials laying in progress					
10	Bio-engineering	1.00	Job	0.50	0.40	0.90	90.00						
10	Road Side Drain	2880.00	m	1731.00	770.00	2501.00	86.84	Progressing					

				Physical Pro	ogress till <mark>June</mark>	, 2018		
		Proposed		Progr	· ·			
S.N.	Description	Quantity as per VO-03	unit	Up to Previous month	This Month	Total to Date	Progress in %age	Remarks
11	Guard House	1.00	Nos.	0.90	0.00	0.90	90.00	
12	Enclosure chamber including bar screen chamber	1.00	Nos.	0.55	0.25	0.80	80	Retaining wall is completed, roof truss works are in progress
13	Distribution chamber	1.00	Nos.	0.60	0.20	0.80	80	
14	Collection chamber - 2	1.00	Nos.	1.00	0.00	1.00	100	Pipe laying is in the progress
15	Interconnection chamber	4.00	Nos.	3.50	0.30	3.80	95.00	progressing
16	Oil & Grease chamber	1.00	Nos.	0.90	0.03	0.93	93	
17	Grit chamber	1.00	Nos.	0.80	0.10	0.90	90	Average Progress – 91.15%

Note: Dedicated feeder electricity line is in progress (Civil works almost finished and the accessories have been purchased).

Table 15: PHYSICAL PROGRESS in PRODUCTION OF PRECAST ITEMS at KATAHARI till June, 2018

		I	Physical Progress	till June, 20	18	
			Progre	ess		
S.N.	Description	Unit	Up to Previous month (nos.)	This Month (nos.)	Total to Date (nos.)	Remarks
1	Precast Slab	No	131,713.00	0.00	131,713.00	
2	Precuts	No	11,209.00	0.00	11,209.00	
3	Kerb Stone	No	23,135.00	0.00	23,135.00	
4	Manhole	No	2,200.00	0.00	2,200.00	
5	Sewer Inlet	No	2,524.00	0.00	2,524.00	
6	House Connection Chamber	No	2,287.00	0.00	2,287.00	

Table 16: PHYSICAL PROGRESS in PRODUCTION OF RCC PIPES at ITAHARI till June, 2018

		Physic	al Progress till	June, 2018		
			Progr	ess		
S.N.	Description	Diameter (mm)	Up to Previous month (nos.)	This Month (nos.)	Total to Date (nos.)	Remarks
1	RCC Pipe	200	2,123	0	2,123	
2	RCC Pipe	300	508	0	508	
3	RCC Pipe	350	216	0	216	
4	RCC Pipe	400	430	0	430	
5	RCC Pipe	450	84	0	84	
6	RCC Pipe	500	551	0	551	
7	RCC Pipe	600	963	0	963	
8	RCC Pipe	700	1,296	0	1,296	
9	RCC Pipe	900	278	0	278	
10	RCC Pipe	1000	1,011	0	1,011	
11	RCC Pipe	1600	373	0	373	
	Total		7,853	0.00	7,853	

8. CONTRACTOR'S MANPOWER

Table 17: CONTRACTOR'S KEY STAFFS in June, 2018

DESIGNATION	NO	REMARKS
Project / Contract Manager	1	
Planning Engineer/Construction Engineer	1	
Construction Engineer	1	
Site Engineers	2	
Quality Control Manager	1	
Office/Bill Engineer	0	
Junior Engineer	2	
Sub Overseers	2	
Safety Manager / Senior Site Supervisor	1	
Accountant / Office Manager	1	
Lab Assistant	2	
Store Keeper	3	
Light Drivers	4	
Machine Operator	4	
Site Supervisor	2	
Other Supporting Staff	10	
Skilled Labor at Site	>30	
Unskilled Labor at Site	>50	

9. CONTRACTOR'S EQUIPMENT

Table 18: CONTRACTOR'S EQUIPMENT at JUDI CAMP

EQUIPMENT	NO	REMARKS
Excavator	6	
Back Hoe JCB	9	
Grader	2	
Crane / Teller	1	
Water Tanker	3	
Tractor	6	
Tipper	4	
Light Vehicle	4	
Motorbike	10	
Kerb Stone Machine Set	1	
Generator	4	
Welding Machine	3	
Diesel Tank with Pump	1	
Stand Drill Machine	1	
Gas Cutter Set	1	
Pipe Cutter	1	
Hand Grinder	1	
Plate Compactor	2	
Monkey Jumper	1	
Concrete Batching Plant	1	
Electric Vibrator	3	
Bar Bending Machine	3	
Bar Cutter Machine	3	
Transit Mixer	0	
Concrete Mixer (Hydraulic)	2	
Concrete Mixer (Manual)	2	
Asphalt Concrete Plant	1	
Asphalt Paver Machine	1	

10.DETAILS OF SAFEGUARD ACTIVITIES (SOCIAL, ENVIRONMENTAL AND RESETTLEMENT ACTIVITIES AND ISSUES)

10.1. SOCIAL ISSUES

OPERATION GUIDELINES FOR COMMUNITY MOBILIZATION AND IMPLEMENTATION OF CDP

VISIT, INTERACTION AND CONSULTATION WITH COMMUNITY PEOPLE

jj) Social Development Specialist (SDS) of the DSC is closely monitoring the social issues resulted due to the project activities. Visiting and interacting with people, Tole Lane Organizations (TLOs) and formal and informal consultation meetings are going on in this regard.

The project is regularly disseminating the information and message to community people about the project features, its purpose, methods of use and functionality of infrastructure under construction by the project through such consultation meetings. These meetings are fruitful to provide prior information regarding the project construction activities before execution at the community level.



It is an appropriate platform to interact and make dialogue among 4 Cs (The Client, Consultant, Contractor and Community) about the project features, prime objectives, purpose, work methodology and potential threats/ cautions to be adopted during the project implementation.

The visits, meetings and consultations with community people at TLOs have provided many opportunities to obtain people's views and perception towards the project. Community people of those particular localities used to discuss extensively in the project features and have been provided some suggestions for efficient carryover of the project components and assured cooperation and coordination in the project execution in their localities.

Social Development Specialist (SDS) / DSC along with PIU, NGO staffs have been actively participated in the meetings. SDS/DSC as usual facilitate the consultation meetings, support to prepare meeting minutes and obtain decisions.

Apart from this, many field visits and observations with community are also important to disseminate project message and monitor project features in the community. Monitoring visits along with Project Manager (PM) and TL/DSC to the core project area, community development program area and construction sites have been beneficial to make insight to the project progress, its effectiveness and challenges.

SAFEGUARD DESK

kk) A Safeguard Desk established in the project has been effective in planning, monitoring and follow up of all social development/ safeguard issues including the resettlement plan. It has been started as a functional mechanism consisting of PIU, NGO and DSC for this purpose. The desk consists of the Social Development Chief of PIU, Team Leader of CDP/ NGO and SDS of DSC with close consultation and guidance of PM/ PIU. It is in compliance with the Aide Memoire of last ADB Mission (21 April - 12 May 2014). It is decided that the desk will review, update and discuss the progress, issues, constraints and challenges of social aspects, Community Development Program and implementation of resettlement plan as well as monitoring of social development activities.

• TOT ON GENDER AND SOCIAL INCLUSION (GESI) MAINSTREAMING

II) The project has been envisaged a 'Training of Trainers (ToT) on GESI Mainstreaming' for Biratnagar Sub Metropolitan City (BSMC) Office and STIUEIP project staff. The Aide Memoir Report of the ADB Review Mission has also noted about the training to be conducted in Biratnagar for the staff of municipality and related agencies. The Mission has recommended for conducting GESI training relating to urban infrastructure development to staff of municipality, municipal steering committee, PlU, local stakeholder agency and make them accountable for the better results. In line with this, the project is going to conduct Gender and Social Inclusion (GESI) Sensitization Training when it is approved. The revised ToT has been submitted to PIU, STIUEIP, Biratnagar incorporating the comments from PMSC and PCO.

Safeguard desk members discussed and reviewed the proposed 'ToT on GESI Mainstreaming' proposal. Social Development Specialist (SDS) of DSC has reviewed the detail proposal and



adjusted budget accordingly for the 'Training of Trainers (ToT)' model. The training arrangement will be decided after the approval of this proposal by the project authority. Primarily it will be a 5 days training focusing mainly on Gender and Social Inclusion Action Plan (GESIAP) comprising other project elements. About 35 participants from Biratnagar Metropolitan City (BMC) office and project staffs will participate in the training.

Update of Small Facilities Construction and other Activities in CDP/STIUEIP

mm) The latest safeguard desk meeting has reviewed all ongoing and completed small facilities infrastructure and other activities implemented under the Community Development Program (CDP), a component of STIUEIP. It provided a common understanding and status information of infrastructures and activities under the CDP program to all safeguard desk members.

A glimpse of community development program has been obtained by the presentation in the appraisal and interaction meeting. Total 7,417.36 m. roads and 13,246.32 m drains are under construction through small facilities infrastructure by CDP/STIUEIP. Regarding on the household toilet, total 458 nos. such toilets has been built by May 2015. Similarly, 10 hand pumps have been installed, 45 hands pump platforms built and 5 public toilets are complete.

• Employment in Project

nn) The core activities of the project i.e. sewerage pipe laying, drain construction and road/ lane improvement provided employment to about 270 in a day this month. The employed human resources varied from skilled engineer/ project manager to general labor, supervisor, (sub) overseers and mechanics. However, a very few women (16%) are working in the construction activities as skilled and unskilled labor but they are paid equal to men for similar type of work. Three women Assistant Sub-Engineers are also working at construction sites after completing OJT (on the job training) successfully at the same sites from different CTEVT affiliated institutes of nearby districts. The contractor has been suggested to increase the work opportunity to women in different types of works.

General

oo) Sewer/ Drainage lines are being laid in the public rights of way (RoW). During construction, if any trees or crops or structures demolished, it shall be properly addressed with compensation. Private individuals or shopkeepers will also be looked into if their livelihood is affected by the disturbance during constructions/ pipe laying works. Apart from this, the project did not encounter any resettlement or re-location and any compensation issue.



11.KEY ISSUES AND REMARKS / REASON FOR DEVIATION (IF ANY) AFFECTING PROGRESS

pp) Following are the key issues affected in progress:

- Disturbance due to underneath existing water supply pipe lines network, under-ground cables, electric poles shifting etc.
- Settlement at various stretches due to heavy rain falls (monsoon) and high flood.
- Insufficient manpower's at site from the contractor side.
- Unseasonal monsoon.
- House connection and sewer inlet placement works.

12.WORK PLAN FOR THE NEXT MONTH

- qq) Following are the Contractor's works in the next month (**Please refer to the contractor's progress report for quantitative plan works for next month**) the revised work program for remaining works after Variation order no-03 as discussed/agreed between three parties 3C.
 - Defect remedial works and outstanding works as per schedule.
 - Repair as well as maintenance work in different lanes as per instruction /or/ required as per site condition.
 - Remaining works at WWTP.
 - Dedicated electricity supply to WWTP, Jatuwa.
 - Laying of new line and relocation of existing water supply pipe lines.
 - Sewer pipe lines laying for remaining portion.
 - Inlet and house connection chamber placement.
 - RCC drain work and sub base work at R6.
 - Relocation of electrical poles in R3, R6 & R29.
 - Repairing of sewer line.



ANNEX-1: Photographs of June, 2018



A view of WWTP, Jatuwa from the entrance gate



A view of WWTP, Jatuwa





Painting work is progressing at Lab building, WWTP, Jatuwa



A view of laboratory room after fixation of rack



A view of an Anaerobic pond



A view of inner road at WWTP, Jatuwa

ANNEX-2: Minutes of Meeting & letters June, 2018



ANNEX-3: Laboratory Test Results of June, 2018

		THE RESERVE OF THE PERSON NAMED IN COLUMN 2 AND THE PERSON NAMED IN COLUMN 2 AND THE PERSON NAMED IN COLUMN 2	hly Laborato The Month	Maria Ma	**************************************				
Consul	tants:SMEC-Brisbane-AQUA-CE			01 00111	2010)	Contr	actors: CT	CE-KALIKA J	/V
5. No.	Description of Material	Tono editori	Total No. of Test		Test Performed	THE RESERVE	THIRMS	Total No. of Test	
W. 1744		Type of test	upto previous month	No. of Tests	Passed	Falled	Retest. Recommended	upte This month	Remarks
1	Granular Material/Gravel material	Sieve analysis	90	0	0	0		90	
2	SUB GRADE Preparation	MDO & OMC	103	1	1	0	Marin -	104	
	asPere Specification	Field density	797	16	15	1		813	
		CRR	103	1	1	0		104	
3	BRICK WORK	Water Absorption	445	0	0	0		445	
	Required Test	Compressive Strength	3546 -	0	0	0		3546	
4	Masonry Morter (CM 7.06)	Compressive strength	4789	0	0	0		4789	
6	CONCRETE AGGREGATE Goarse aggregate (20 mm)	Serve analysis (25 mm)	473	0	0	0		473	
		LAA	377	0	0	0		377	
		Specific Gravity	17	0	0	0		17	
			376	0	0	0		376	
		ACV	424	0	0	0		424	
	Fine appregate (Sand)	Sieve analysis	539	0	0	0		539	
6	CONCRETE MIX DESIGN	Concrete mis (leeign	77	0	0	0	1	77	
	CenereteM15/20,M25/20	Congressive strength	471	0	0	0		471	
	M25/20, 8/M30/20	Stump teet	75	0	0	0		75	



	SECONDA	(For	hly Laborato The Month			THE REAL PROPERTY.	Toronto.		
Consu	Itants:SMEC-Brisbane-AQUA-CEM	ALC: TO THE REPORT OF THE PARTY				CUrbridge	THE RESERVE OF THE PERSON NAMED IN	CE- KALIKA J	v
S. No.	Description of Material	Type of test	Total No. of Test upto previous		Test Performed	for this month		Total No. of Test	
100		25522000	moeth	No. of Tests	Passed	Palled	Recommended	upto This month	Remarks
7	CEMENT Required Yest								
	QPC Cement	Setting time	458	0	0	0		458	
		Mormal Consistency	458	0	0	0		458	
8	CONCRETE		/10						
	Work Mix Test M15,M20,M25,M30	Compressive strength	15237	48	48	0		15285	
	PERFORCEMENT.	Required Test	-						
	Reinforcement tons steel	As per Specification	81	0	0.	0		81	
10	PAVEMENT MATERIALS								
	Sub-Ruse Materials	Sleve analysis	319	10	10	0		329	
		MOD & OWC	65	3	3	0		68	
		CHR	71	3	3	0		74	
		Field density	504	13	13	0		517	
11	CS Base	Sieve enalysis	142	7	7	0		149	
	Crushed Stone Base	MOD & OMC	14	1	1	0		15	
	Material Laying	C.B.R	35	1	1	0		36	100
	100000000000000000000000000000000000000	Pl & C.Ratio	136	7	7	0		143	
		LAA	122	7	7	0		129	
		555	64	7	7	0			
		AN	136	7	7	0		71	
		Field Density & OMC	197	0	0	0		143	
		10-	101		u	0		197	



4440		THE RESERVE OF THE PERSON NAMED IN COLUMN 2 IN COLUMN	ly Laborato	NAME OF TAXABLE PARTY OF TAXABLE PARTY.	10000116-12-5211-252-599	1000000		To be seen of	
CONTRACTOR OF THE PERSON		CONTRACTOR OF THE PARTY OF THE	he Month	OF-JUNE	2018)		Later and the same of the same		
Consu	Itants:SMEC-Brisbane-AQUA-CEI	MAT-BDA				Contr	actors: C	TCE- KALIKA	VJ/V
S. No.	Description of Material	Type of test	Total No. of Test upto previous month	No. of Tests	Passed	for this month	Ratest Recommender	Total No. of Test upto This month	Remarks
12	ASHPHALT CONCRETE	Rieve analysis	39	0	0	0	Procumenae	39	
	Combine Mixed	n	24	0	0	0		24	
	Market Mark	ACV	24	0	0	0		24	
	Individual Co&FA Test Mix Design	LAA	24	0	0	0		24	
		Sp gravity	4	0	0	0		4	
		8.6.9	43	0	0	0		43	
13	BITUMEN TEST 60/100 Othurnen	Penetration st28.6	4	0	0	0		4	
	60/100 Diturnem	Softeing point(ring ball)	4	0	0	0		4	
	As per DORbsok section	Flash point/Fire Point	4	0	0	0		4	
	800 Tatric 6.14/le 73	Ductility at26.s	4	0	0	0		4	
		Specific at 26.6	4	0	0	0		4	
		Water Content	4	0	0	0		4	
		Loss on Heating for 5 hrs	4	0	0	0		4	
		Pen-of residue afte loss on Heating	4	0	0	0		4	
		Solubility to triclomethylese	4	0	0	0		4	
14	Humpipe Test	Three Edge Bearing Load Test	7	0	0	0		7	200mm to 1600mm 1 each
15	NARSHALL HIS DESIGN	WEARING COURSE	2	0	0	0		2	
16	Marshall Statistry Test	Bulk density	108	0	0	0		108	
		Statisty	108	0	0	0		108	
		Flow	108	0	0	0		108	
		Air voides	108	0	0	0		108	



Militer	1000		NAGAR Sub-N hly Laborato	fetropolita	nt City	10000		ALC: The second second	IUEIP				
			The Month	OF-JUNI	2018)								
Consu	Itants:SMEC-Brisbane-AQUA-CE	MAT-BDA				Contr	actors: CT	CE-KALIKA J	N.				
8. No.	Description of Material	Type of test	Total No. of Test upto previous month	No. of Texts	Tost Performe	ed for this month	Retast	Total No. of Test upto This month	Remarks				
		Bitumen extraction	38	0	0	0	Recommended						
		Volds in Mineral Agg	108	0	0	0		38					
		Job mix in AC Plant	70	0	0	0		108					
17	DITUMEN SPREAD TEST Prime cost	Application rate	57	0	0	0		70					
	Tack cust	Application rate	44	0	0	0		44					
18	18 Machines/Equipment Caliberation of compressive 1000001 Manual Testing machine 500 KN Manual C.B.R Machine 50KW25KN Marshall Stability Machine 50KW25KN		3 3 2 2	0 0 0	0 0 0	0 0		3 3 2 2					
19	MISCELLANEOUS		-				9	-					
	G.I Wire(Gation Boxes)		5	0	0	0		5					
	Factory Test Report of Cemeral		9	0	0	0		9					
	Factory Test Report of Iron Steel		35	0	0	0		35					
	Factory Test Report of 89/100 Bitumen		2	0	0	0		2					
	Featury Test Report of UPVCRIDP Pipe		2	0	0	0		2					
	UPVCHOP Pipe Test Result		2	0	0	0		2					
	Adminture & Carbon steel Fiber		3	0	0	0		3					
	= Max Dry Dennisity Moisture Contint	LAA = Los Angeles Abrasio SE=Sand Equivolent	The state of the s	STORY	AlveAggreen	e Impact Value			hing Ratio				
SSS = So ACV = Ag	dium Sulphate Soundmess gregteb Crusting Value rola Rearing Ratio	BDA-CEMAT CTCE-KALIKA J/V Submitted by Project Manager Prepald by Q.C Manager											



	Sec	onda	ly IOW	n Integrated Biratna	gar Sub-Met			ement P	roject				
	100				ckage: STIUE								
	2	Section 1	1						13/3				
					Y WEATHE	CONTRACTOR OF STREET			100				
		1		FOR THE	MONTH	of JUNE	2018						
Date	45			WEATHER R			Temp.c						
-	Sunny	Foggy	Cloudy	Morning Rain HRS	Night Rain Hrs.	Day Rain Hrs.	9:00 AM	5:00 PM	Rain Fall MM				
1_	-		Cloudy				23	20.8					
2			Cloudy	Morning Rain HRS			24	21.5	82				
3	Sunny						25	21					
4	Sunny	_					24.5	20.5					
5	Sunny	_					23.5	21					
6	Sunny		1020111				23	21.5					
7			Cloudy	Morning Rain HRS			23	21	50				
8			Cloudy				24.5	20.5					
9	-		Cloudy				25	22.5					
10			Cloudy	Morning Rain HRS			25.5	21.5					
11			Cloudy	Morning Rain HRS			24.5	20.5	52				
12	-	_	Cloudy	Morning Rain HRS			23.5	21.5	50				
13		_	Cloudy	Morning Rain HRS	Night Rain Hrs.		23	20.5	355				
14		-					24.5	21,5					
15		-			- A		24.5	20.5					
16	-		Cloudy	Morning Rain HRS	Morning Rain HRS		23	21.5	960				
17							24.5	20.5	200				
18		-					25.25.5	21.5					
19	Sunny	-			Night Rain Hrs.		25.5	22.5	150				
	Sunny	-			Night Rain Hrs.		25	20.5	60				
21	-	-					25	21					
22	-	-					24.5	20.5					
23	-	-					24.5	20.5					
	Sunny					Day Rain Hrs.	24.5	21.5	10				
	Sunny					Day Rain Hrs.	25.5	22	10				
26							24.5	21.5					
27	-		- Control				25	21.5	64				
28			Cloudy	Morning Rain HRS		Day Rain Hrs.	25.5	22	220				
29			Cloudy	Morning Rain HRS			25.5	20.5	86				
30	Sunny						25	22					
	Sl wed By (C.S.E	X	QUA-CEMAT-BDA		Submitted By		nage					
Conen	Itant Rej	10				Contractor R			1				



SECONDARY TOWNS INTEGRATED URABAN ENVIRONMENTAL IMPROVEMENT PROJECT Biratnagar Sub-Metropolitant City SUMMARY OF FIELD DENSITY TES (IS:2720:-PART-28) FOR THE MONTH OF JUNE 2018 CH: 0+320 to 0+670,0+400 to 0+500,0+000 to 0+080,0+000 to 0+180 & 0+000 to 0+130 WWTP INNER ROAD SUB GRADE L/Ref. S.N. No. Date Location/ Area MDD Gm/CC Degree of Compaction, % Remarks 0+350 LHS 1 1.90 96.07 4.00 0+410 CL 2 1.92 96.85 6.00 0+500 RHS 1.91 96.49 3 6.00 FDT-139 5/6/2018 0+580 LHS 4 1.90 96.07 5.00 0+660 RHS (83.49 5 1.65 5.00 Fail Retest 0+660 RHS 6 1.92 96.85 5.00 After compaction 0+410 LHS 1.92 97.00 5.00 FDT 140 5/6/2018 2 0+450 CL 1.91 96.65 5.00 0+490 RHS 3 1.93 97.61 5.00 0+020 LHS 1.90 95.73 5.00 **FDT 141** 5/6/2018 2 0+075 RHS 1.90 95.73 5.00 0+020 LHS 1.89 95.35 5.00 **FDT 142** 5/6/2018 0+080 CL 2 1.91 96.68 5.00 0+160 RHS 1.90 3 96.05 5.00 0+030 LHS 1.91 96.68 4.00 **FDT 143** 5/6/2018 0+110 RHS 2 1.90 96.05 5.00 Specification Requirement OMC <9.0 1.980 >95 SMEC-Brisbane-AQUA-CEMAT-BDA CTCE-KALIKA J/V Approved By C.S.E Submitted by Project Manager Test Checked by A.C.S.E. Test Conducted by Q.C Manager Consultant Reps Contractors Reps

SECONDARY TOWNS INTEGRATED URABAN ENVIRONMENTAL IMPROVEMENT PROJECT Biratnagar Sub-Metropolitant City

SUMMARY OF FIELD DENSITY TES (IS:2720:-PART-28)

FOR THE MONTH OF JUNE 2018

CH: 0+320 to 0+670,0+400 to 0+500,0+000 to 0+080,0+000 to 0+180 & 0+000 to 0+130

WWTP INNER ROAD

SUB BASE

S.N.	L/Ref. No.	Date	Location/ Area	MDD Gm/CC	Degre	ee of Compaction, %	Remarks
1			0+340 LHS	2.16	97.52	5.00	
2			0+420 CL	2.16	97.52	6.00	
3	FDT 95	10/6/2018	0+510 RHS	2.14	96.37	6.00	
4			0+570 LHS	2.15	96.87	5.00	
5			0+660 RHS	2.17	97.52	5.00	
1			0+420 LHS	2.12	95.65	5.00	
2	FDT 96	12/6/2018	0+460 CL	2.15	96.81	6.00	
3	*		0+495 RHS	2.15	96.81	6.00	
1	FDT-97	12/6/2018	0+020 LHS	2.12	95.65	5.00	
2	101-01	12/0/2010	0+070 RHS	2.15	96.81	6.00	
1			0+020 LHS	2.14	96.37	5.00	
2	FDT98	22/6/2018	0+080 CL	2.13	96.14	6.00	
3			0+165 RHS	2.15	96.75	6.00	
250	Sne	cification Rec	uirement	2.220	NOE	OMC <6.60	to the same of the

SMEC-Brisbane-AQUA-CEMAT-BDA

Approved By C.S.E

Test Checked by A.C.S.E.

Consultant Reps

CTCE-KALIKA J/V

Submitted by Project Manager

Test Conducted by Q.C Manager

Contractors Reps



			MONTHLY Test R	esult Su	mmarv	Sheet	For	he Mo	nth of	JUN	E 2018				
	Windles			SUB E	THE RESIDENCE OF THE PARTY OF T	Annual Contract of the Contrac	CONTRACTOR OF THE PARTY OF THE								
			n 6A-Technical Specifacations&D	OR Spec	ifacatio	n Sectio	on 1201	(3)C Ph	ysical I					.G-1	
SN No	LAB Ref	Date Tested	d Location/ Chainage/Station				ding sie passin		decourage.			Lab. MDD	Soaked CBR	Lab. OMC	Remarks
	NO			63 37.5 20 10 5 2.360 1.18 0.00									(%)	(%)	
1	321	7/6/2018	WWTP JATUWA INNER ROAD	100	84.34	70.65	56.28	45.85	32.56	23.75	6.73	2.220	48.00	7.60	
2	322	7/6/2018	WWTP JATUWA INNER ROAD	100	86.48	73.07	55.79	46.41	30.02	21.11	5.77				
3	323	7/6/2018	WWTP JATUWA INNER ROAD	100	86.78	73.11	56.55	46.71	30.63	21.50	5.40				
4	324	7/6/2018	WWTP JATUWA INNER ROAD	100	87.01	72.19	55.99	46.82	31.09	22.03	6.44				
5	325	17/6/2018	WWTP JATUWA INNER ROAD	100	88.22	73.39	58.00	48.02	31,93	22.86	6.68				
6	326	17/6/2018	WWTP JATUWA INNER ROAD	100	87.94	73.55	58.30	48.75	32.82	22.63	6.36	2.220	48.00	7.60	
7	327	17/6/2018	WWTP JATUWA INNER ROAD	100	88.66	74.81	60.48	50.40	33.65	24.19	6.03				7
8	328	26/6/2018	WWTP JATUWA INNER ROAD	100	87.52	73.86	57.58	47,18	31.78	22.40	5.90	2.220	48.00	7.60	
9	329	26/6/2018	WWTP JATUWA INNER ROAD	100	87.99	73.39	56,57	45.82	30.95	22.20	5.23				
10	330	26/6/2018	WWTP JATUWA INNER ROAD	100	90.11	75.64	58.15	47.20	32.16	23,41	5.99				
HEADERS Lineares	in men			100	65-95	50-85	40-75	30-60	20-45	15-37	4 to 15	(demonstrated by	> 30	-01	
prov st Ch	ed by C	by A.C.S.E	BDA A							Submit Test Co	ALIKA J by Project nducted ant Reps	t Manag by Q.C N		1	THE STATE OF THE S



XIII		75662776	AND THE RESERVE OF THE PARTY NAMED IN	-	Mary.	E	3iratn	agar S	ub-Me	etropol	litant	City					MILL			
111			Page 1	HTHON	LY Te	st Res	ult St	ımmaı	ry She	et Fo	r The I	Month	of	JUNE	2018				(Maria)	384/339
			Graded Crush	ned St	one E	3ase	Cour	se (P	roces	s Co	ntrol)						P.G-1			
AN	DAR	D SPECIFICAT	TION FOR ROAD AND BE	IDGE W	ORKS S	SECTIO	N 1200	Table	12.3 Ph	ysical F	equire	nent o	f Grade	d Crus	hed St	one Base		1	227	Town Town Town
N N	LAB REF	Date Tested	Location/ Chainage					eve siz		9.		FI	FI CR		AIV	888	Socked	Lab.	Lab.	
	No			40	31.5	20	10	4.75	2.36	0.60	0.075	%	(%)	(%)	(%)	5 cycle (%)	CBR (%)	(g/cc)	OMC (%)	Romarks
1	129	11/6/2018	WWTP Inner Road	100	94.4	82.8	62.3	42.8	30.3	15.6	5.9	17,33	85.8	34.20	19.14	1.64	95	2.320	6.00	
2	130	11/6/2018	WWTP Inner Road	100	94.0	82.3	62.2	44.2	31,8	16.8	6.3	17.95	84.7							
3	131	11/6/2018	WWTP Inner Road	100	93.5	81.2	61.4	46.8	33.3	16.8	6.6	18.23	86.2	-						
4	132	21/6/2018	WWTP Inner Road	100	94.0	81.1	61.1	46.6	33.6	18.6	6.8	17.61	85.7	34.32	21.43	1.84				
5	133	21/6/2018	WWTP Inner Road	100	94.6	81.5	61.6	46.8	33.6	17.1	5.4	17,49	85,5							
6	134	28/6/2018	WWTP Inner Road	100	93.5	79.3	59.3	44.1	30.4	16.1	5.9	19.16	85.3	34.40	20.57	2.12				
7	135	28/6/2018	WWTP Inner Road	100	93.4	79.4	60.2	45.4	31.9	15.8	5.9	19.67	85.2	34.44	20.50	1.80				
	Sp	ecifacation L	imits	100	85-100	62-92	40-70	26-55	21-53	12 to28	2 to 10	≤ 25	≥ 80	≤ 35	≤ 25	Max 12%	≥ 80			
ppr est	Oved	isbane-AQU I by C.S.E cked by A.C nt Reps	A-CEMAT-BDA							CTCE Subm Test C	it by P	roject	Mana			4	. (THE STATE OF THE S		1



ANNEX-4:

Contractor's Progress Report for June, 2018

Government of Nepal Biratnagar Metropolitan City, Biratnagar, Nepal Secondary Towns Integrated Urban Environment Improvement Project (STIUEIP)

Project Implementation Unit (PIU) Biratnagar, Nepal

Project Directorate (ADB)

Sewerage and Drainage Network, Wastewater Treatment Plant, and Road and Lanes Improvement Subproject STIUEIP/W/BRT/ICB-01

Monthly Progress Report -55

June 2018



Consultants:



in association with Brisbane City Enterprise Pty Ltd – Australia AQUA Consultant and Associates Ltd – Bangladesh Building Design Authority – Nepal CEMAT Consultants – Nepal

Submitted by:

CTCE/KALIKA JOINT VENTURE



June 2018

TABLE OF CONTENTS

- 1. Introduction
- 2. Project Component
- 3. Salient Feature
- 4. Scope of Work
- 5. Physical Progress (Achievement in up to this Month)
 - a. Storm Drainage and Road Side Drain
 - b. Sewerage
 - c. Road and lane
 - d. Waste Water Treatment Plant
 - e. Production of Precast Slab at yard
 - f. Production of precast chamber element at yard
 - g. Hume pipe Production
- 6. Financial Progress and Cash Flow
- 7. Details of Safeguard Activities
- 8. Key Issues and Remarks
- 9. Resource Plan
 - a. Details of Contractor's Personnel's at site
 - b. Equipment's at Site
 - c. Material at Site
- 10. Conclusion

ANNEX

- i. Organization Chart
- ii. Site Photographs



June 2018

1.INTRODUCTION

Secondary Towns Integrated Urban Environmental Improvement Project (STIUEIP), 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 2650-NEP. STIUEIP includes construction of Sewerage and Drainage Network, Wastewater Treatment Plant, Road and Lanes Improvement and additional of road side drain & water supply work. The main purpose of this project is to fascinate with better improvement of greenery urban city.

2.PROJECT COMPONENTS

The Town Integrated Urban Environmental Improvement Project (STIUEIP) consists of following Sub-Project Components:

Drainage Network

The main aim of drainage network is to drain out storm water to the river side during the monsoon season and minimized the water pounding in the city

Sewerage Network

Management of household sewerage project to the treatment plant in connection with chambers, manhole and pipes

Wastewater Treatment Plant Subproject

Treatment of sewer product in plant located at Jatuwa. The treated water is drain out to Singhiya river and solid waste project used as fertilizer in farming.

Road and Lanes Improvement Subproject

Existing road sections at different part of Biratnagar will be upgraded by extending road width and providing footpath.

Road Side Drain and Water Supply Network (Additional)

Road side drain and water supply network is addition of scope of work in this project. Road side drain is proposed to discharge the rain water. Whereas water supply work is for relocation of existing water pipe lines to appropriate location as well as repair of damaged pipe lines during construction



June 2018

3. SALIENT FEATURE

A. General Features	
Employer	Government of Nepal(GoN), Ministry of Urban Development Department of Urban Development and Building Construction
Funded By	Asian Development Bank & Government of Nepal
Project	Biratnagar Metropolitan City Secondary Towns Integrated Urban Environmental Improvement Project(STIUEIP)
Contract No.	STIUEIP/W/BRT/ICB-01
Location	Biratnagar Metropolitan City
Consultant	SMEC-Brisbane-AQUA-BDA-CEMAT
Contractor	CTCE-KALIKA JV.
Commencement Date	December 8th, 2013
Original Completion Date	25 May 2016
Revised Completion Date after EOT-02	2 July 2017
Revised Completion Date after EOT-04	30 June 2017
Original Contract Period	900 Days
Original Contract amount with PS & VAT	NRs 2,391,332,117.06
Revised Contract amount after VO # 04. with PS & VAT	NRs 2,956,290,542.71



June 2018

4. SCOPE OF WORKS

The activities to be undertaken according to the Contract Agreement are as follows:

- To carry out all necessary topographic surveys, soils investigations, laboratory analysis or related investigations where necessary to supplement the data provided by the Employer.
- b. To prepare working drawings for all elements of the Works.
- To undertake all steps necessary for upgrading of roads and bridges, all related to access to the Site, or other related matters, where his opinion differ significantly from
- d. Preparation of stockyards for pipes, fittings and other materials and equipment.
- e. To take all steps necessary for the temporary or permanent diversion of services and the maintenance of services during the execution of the Works, including diversion of overhead with underground power lines, telephone ducts, water supply mains and distribution lines (pipes), sewers and other underground services as required along the route of the pipelines.
- f. To supply all pipes, valves, fittings and other materials and equipment required for construction of the Works. The Contractor's supply items may include manufacture, collection, transportation and delivery to Site. The Contractor will be responsible for ensuring that all procedures are adequately covered and that the materials fully confirm to the Contract requirements. These responsibilities will include all necessary charges or dues related to insurance, freight, taxes (including customs and excise duties, surcharges etc.) and all testing and inspections for quality control.
- g. To provide all necessary staff (including civil engineers, specialists, administrators, site supervision personnel) and workmen (including all necessary specialists, operators, tradesmen, artisans etc. in addition to semi-skilled and unskilled workers) necessary for execution of the Works through to completion.
- To provide all equipment, machinery, tools etc. and related spares maintenance and consumables necessary for implementation of the Works.
- To provide all site offices, stores, workshops and facilities necessary for use by the Employer, Engineer and support staff and for the Contractor himself and his supporting staff.
- j. To undertake all operations necessary to complete the Works. These operations shall include: excavation, provision, haulage and installation of suitable bedding and backfill material and disposal of surplus excavated material; distribution, laying adjoining of pipes; installation of all special pipework, valves etc. and construction of all related concrete or other activities together with all testing and disinfection of completed Works. The Contractor's attention is drawn to the restricted working space between Rajbangsi Chowk to Rani, Biratnagar where the sewer pipes, drains and road/lane is to be laid in a narrow road. In this section work in addition to that associated with the trunk main, will include but not be limited to, removal and replacement of a sewer laid in the road and reinstatement of road surface.
- k. To liaise with other contractors on the site and to ensure harmonious co-operation with them so that conflicts are avoided and areas of common interest, constructional interface or potential overlaps are addressed without cost to the Employer or delays in completion.
- To prepare documentary records of the Works in the form of "as-built" drawings and GIS data, schedules
 etc., and to train staff of the Employer in the procedures for laying pipes, valves and fittings.
- m. All the above activities shall be performed in a professional way and with good engineering and/or constructional practice. Upon completion of the Works the scheme shall be fully operational with minimum disruption or inconvenience to interested parties, including land owners, and there shall be no outstanding matters requiring attention.



June 2018

5. PHYSICAL PROGRESS (ACHIEVEMENT TILL THE MONTH) A. STORM WATER DRAIN AND ROAD SIDE DRAIN SUB-PROJECT (WORK PROGRESS TILL THE DATE)

SN	Location	Final Proposed Length	Up to previous (m)	This Month	Total To Date	Progress %
1	B1	3848	3848		3848	100%
2	B2	4374	4374		4374	100%
3	B3	3463	3463		3463	100%
4	S5	1201	1201		1201	100%
5	59	2930	2930		2930	100%
6	511	1552.6	1552.6		1552.6	100%
7	513	4864	4864		4864	100%
8	CN2	2197.3	2197.3		2197.3	100%
9	CN3	2238.15	2238.15		2238.15	100%
10	Rani	6596.28	6596.28		6596.28	100%
11	A1	1328.5	1328.5		1328.5	100%
Т	otal	34592.83	34592.83		34592.83	100%



June 2018

6.Physical Progress in Road Side Drains:

1.1	CERTIFICATION	NOS ACADEMS S	Progress	P0200015		- Magnetine of the Columns
SN	Locatio n	Total Length(m)	Up to Previous(m)	This Month(m	Total to Date(m)	Progress(%
1	R2	6840	6840	-	6840	100.00%
2	R3	3044	3044		3044	100.00%
3	R4	933.3	933.3		933.3	100.00%
4	R5	2136	2136		2136	100.00%
- 5	R6	1600	1448	147	1595	99.699
6	R7	825	825		825	100.00%
7	R8	1267.1	1267.1		1267.1	100.00%
8	R9D	232	232		232	100.00%
9	R13	433.85	433.85		433.85	100.00%
10	R16	1160	1160		1160	100.00%
11	R21	2420	2420		2420	100.009
12	R22	718	718		718	100.009
13	R24	784	780	4	784	100.009
14	R25	1216	1180	36	1216	100.009
15	R26	1240	1240		1240	100.00
16	R27	1971	1954	17	1971	100.00
17	R28	908.35	908.35		908.35	100.00
18	R29	1885.1	1855.1	15	1870.1	99.20
19	R30	600	600		600	100.00
20	R31	374	374		374	100.009
21	R32	450	450		450	100.00
22	R37	1570	1570		1570	100.009
23	R64	120	120		120	100.009
24	R78	82	82		82	100.009
25	R107	315	315		315	100.009
26	R108	190	190		190	100.00%
27	R109	355	355		355	100.00
28	T2L180	268	268		268	100.00
29	T3L26E	48	48		48	100.009
30	T3L19R	350	350		350	100.00%
31	T2L19P	468.05	468.05		468.05	100.009
32	T2L19U	162	162		162	100.009
33	T3L28	145	145		145	100.009
34	R42	281.6	281.6		281.6	100.00%
35	R104	590.7	590.7		590.7	100.009
36	R73	468.9	468.9		468.9	100.00%
37	T2-L26F	110	110		110	100.00%
	Total	36561.95	36322.95	219	36541.95	99.95%



June 2018

B. SEWERAGE SUB-PROJECT (WORK PROGRESS TILL THE DATE)

Table 12: Physical progress in sewer line: June 2018

		As per	VO-3	Upto Presid	vesious Month This month		Update work		% work			
5.N.	.N. Location	Distance	Manhole No.	Distance	Mathole No.	Distance	Mimbale No	Distance	Manhole No	Distance	Manhale No	Remark
1	HDPE (T1)	3817.100	127	3817.00	127.00			3817.000	127			
2	HDPE (T2)	13595:400	485	13595.40	485.00			13595.400	485			
3	HDPE (T3)	6947.100	258	6857:10	256.00			6857.100	256		j l	
4	HDPE (T4)	117,300	3	117.00	3.00			117.000	3			
5	Sub Total (HDPE)	24476.900	873	24386.500	871	0.000	0	24386.500	871	99.63%	99.77%	
6	Hume pipe(T1)	5026.800	144	5026.80	144.00			5026.800	144			
7	Hume pipe(T2)	9488,000	276	9483.00	276.00			9483.000	276		1	
8	Hume pipe(T3)	4493.300	136	4478.00	136.00	15.000		4493.000	136			
9	Hume pipe(T4)	183.500	5	183.50	5:00			183.500	5			
10	Sub Total (Hume pipe)	19191 600	561	19171.300	561	15.000	0	19186.300	561	99.97%	100.00%	Î
11	Total (HDPE+Hum pipe)	43668,500	1434	43557.800	1432	15.000	0	43572.800	1432	99.78%	99.86%	

90.400	HDPE Pipe (Remaining Quantity)
5.300	Hume Pipe (Remaining Quantity)
95.700	HDPE Pipe +Hume pipe (Remaining Quantity)

B. SEWER INLET & HOUSE CONNECTION (WORK PROGRESS TILL THE DATE)

SN	Description	Unit	Proposed	Total Upto Previous Month	This Month	Total Up to this Month	Percentage	Remarks
1	Sewer Inlet	Nos.	1855	1764	30	1794	96.7%	
2	House Connection	Nos.	1434	1279	50	1329	92.7%	

C. 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	Asphalt pavement in R2 Road with access road	Rm		3601	0	3601	
2	Gravel road	Rm		38940	2102	41042	
	Total	RM	44643	42541	2102	44643	100.00%



June 2018

D. Waste Water Treatment Plant Sub-Project (Work Progress till the date)

Table 15: Physical progress in waste water tretment plant (WWTP), Jatuwa, June 2018

	13		Physical progress	till June	2018	g	
933	2 204	As per VO-4	Progress		100 C	20 a)	2
S.N.	Description	Quantity (Nos,m.)	Upto Previous Month	This month	Update work	% work	Remarks
1	Anaerobic Pond	3	3	0	3	100	
2	Facultative Pond	3	2.62	0.38	3	100.00	
3	River Training Work	600	600	0	600	100	
4	Boundary Wall	1330	1283	0	1283	96.47	
5	Office cum Lab Building	1	1	0	1	100	Painting WIP
6	Workshop Building	1	1	0	1	100	Painting WIP
7	Generator/Changing House	1	1	0	1	100	Painting WIP
8	Sump well & Structure (1-7)	1	0.65	0	0.65	65	Door Window Work WIP 8 Pump work in Procruemer process
9	Sludge Drying Bed	1	0.92	0.08	1	100	Fine Sand & Course Sand filling WIP
10	Road Side Drain	2880	1441,1	1438.9	2880	100.00	
11	Road Works						
	Sub Grade	1500	500	1000	1500	100.00	
	Sub Base	1500	500	1000	1500	100.00	
	Base	1500	500	1000	1500	100.00	
	Asphalt	1500	500		500	33.33	
12	Land Scaping	1	0.5	0.45	0.95	95.00	WIP
13	Gurd House	1	0.9	0.1	1	100.00	Painting WIP



June 2018

E. PRODUCTION OF PRECAST ITEMS FROM SLAB CASTING CONTRACTOR'S YARD, KATAHARI

SN	Description	Unit	Total Up to Previous Month	This Month	Total Up to this Month	Remarks
1	Slab	Rm	129213	4500	133713	
2	Precuts	Rm	11209	0	11209	
3	Kerb stone	Rm	23135		23135	
4	Manhole	Nos	2200	0	2200	
5	Sewer inlet	Nos	2524	0	2524	
6	House chamber	Nos	2287	0	2287	

F.HUME PIPE PRODUCTION FROM HUME PIPE PRODUCTION FACTORY, ITAHARI

SN	- 1	2	3	4	5	- 6	7	8	9	10	11
Diameter	200mm nos	300mm nos	350mm nos	400mm nos	450mm nos	500mm nos	600mm nos	700mm nos	900mm nos	1000mm nos	1600mm nos
No of Moulds	38	3	2	2	2	3	8	8	2	4	2
Production Til Previous Month	2123	508	216	370	84	551	963	1296	278	1011	373
This Month Production	0	0	0	0	0	0	0	0	0	0	0
Total Production	2123	528	216	430	84	551	963	1296	278	1011	373

G.Next month program

- 1. Completion of Outstanding work & Defect Work.
- 2. Minor reaming work including Dedicated line in WWTP, Jatuwa.
- 3. Inlet and House Connection laying



June 2018

FINANCIAL PROGRESS AND CASH FLOW

Financial Progress

SN	Installment Number	Total Bill Amount With Vat and PS(NRs)	Net Payable Amount (NRs.)	%	Remarks
1	IPC 01		200,940,000.00		Advance Payment 01
2	IPC 02	29,553,479.92	27,853,500.98		IPC 2
3	IPC 03	50,406,775.75	47,507,270.95		IPC 3
4	IPC 04	44,819,505.68	42,241,392.52		IPC 04
5	IPC 05	23,380,168.96	22,035,291.99		IPC 05
6	IPC 06	90,796,339.68	85,573,541.38		IPC 06
7	IPC 07	80,854,600.52	76,203,672.17		IPC 07
8	IPC 08	122,334,488.86	115,297,549.23		IPC 08
9	IPC 09	116,092,187.14	109,414,317.97		IPC 09
10	IPC 10	132,327,417.89	124,715,663.77		IPC 10
11	IPC 11	169,853,829.07	160,083,476.07		IPC 11
12	IPC 12	23,121,515.46	16,931,906.24		IPC 12
13	IPC 13	85,563,926.44	62,658,539.06		IPC 13
14	IPC 14	163,562,505.71	119,776,967.67		IPC 14
15	IPC 15	139,008,112.96	101,795,764.14		IPC 15
16	IPC 16	137,640,413.95	100,794,196.94		IPC 16
17	IPC 17	135,118,714.02	98,947,553.85		IPC 17
18	IPC 18	39,288,088.98	28,770,702.32		IPC 18
19	IPC 19	76081596.87	55,714,620.72		IPC 19
20	IPC 20	74,522,638.96	54,572,994.46		IPC 20
21	IPC 21	152,577,081.94	118,075,775.83		IPC 21
22	IPC 22	140,477,295.40	132,396,742.98		IPC 22
23	IPC 23	66,139,814.38	62,335,311.79		IPC 23
24	IPC 24	110,913,194.49	104,533,231.98		IPC 24
25	IPC 25	169,428,867.45	159,682,959.15		IPC-25
26	IPC-26	129,978,851.94	122,502,192.32		IPC-26
27	IPC-27	65,357,880.77	61,598,356.67		IPC-27



June 2018

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28	IPC-28	84960602.31	80,073,488.03		IPC-28
28	IPC-29	131869397.3	124,355,822.35		IPC-29
29	IPC-30	199717420.9	188,229,250.68		IPC-30
Total a	mount of Ipc=	2,985,746,714	2,805,612,054		
Deduc	t PA upto IPC-30	206,555,373.18			
Total a	amount of IPC without	2,779,191,341		94.01%	

Physical Progress

SN	Installment Number	Total Bill Amount With Vat and PS(NRs)	Net Payable Amount (NRs.)	%	Remarks
1	IPC 01		200,940,000.00		Advance Payment 01
2	IPC 02	29,553,479.92	27,853,500.98		IPC 2
3	IPC 03	50,406,775.75	47,507,270.95		IPC 3
4	IPC 04	44,819,505.68	42,241,392.52		IPC 04
5	IPC 05	23,380,168.96	22,035,291.99		IPC 05
6	IPC 06	90,796,339.68	85,573,541.38		IPC 06
7	IPC 07	80,854,600.52	76,203,672.17		IPC 07
8	IPC 08	122,334,488.86	115,297,549.23		IPC 08
9	IPC 09	116,092,187.14	109,414,317.97		IPC 09
10	IPC 10	132,327,417.89	124,715,663.77		IPC 10
11	IPC 11	169,853,829.07	160,083,476.07		IPC 11
12	IPC 12	23,121,515.46	16,931,906.24		IPC 12
13	IPC 13	85,563,926.44	62,658,539.06		IPC 13
14	IPC 14	163,562,505.71	119,776,967.67		IPC 14
15	IPC 15	139,008,112.96	101,795,764.14		IPC 15
16	IPC 16	137,640,413.95	100,794,196.94		IPC 16
17	IPC 17	135,118,714.02	98,947,553.85		IPC 17
18	IPC 18	39,288,088.98	28,770,702.32		IPC 18
19	IPC 19	76081596.87	55,714,620.72		IPC 19
20	IPC 20	74,522,638.96	54,572,994.46		IPC 20
21	IPC 21	152,577,081.94	118,075,775.83		IPC 21
22	IPC 22	140,477,295.40	132,396,742.98		IPC 22
23	IPC 23	66,139,814.38	62,335,311.79		IPC 23
24	IPC 24	110,913,194.49	104,533,231.98		IPC 24



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Progress Report No. 55 25 IPC 25 169.428.867.45 159.682.959.15 IPC-25 IPC-26 122,502,192.32 IPC-26 26 129,978,851.94 27 IPC-27 65,357,880.77 61,598,356.67 IPC-27 28 IPC-28 84960602.31 80,073,488.03 IPC-28 28 IPC-29 131869397.3 124,355,822.35 IPC-29 199717420.9 29 IPC-30 188,229,250.68 IPC-30 30 WIP 120000000 Total amount of lpc= 3,105,746,714 2,805,612,054 Deduct PA upto IPC-30 206,555,373.18 Total amount of IPC without 2,899,191,341 98.07%

7. DETAILS OF SAFEGUARD ACTIVITIES

Contractor's is fascinating to apply safety measure at site during construction phase. Safety board, Diversion board, safety barriers, personnel's protection equipment to worker, spraying of water to minimize dust pollution.

8. KEY ISSUES AND REMARKS

Following issues were raised in this month

Submitted Claim No.01 to 07 has not addressed up to this month.

9. Mobilized Resource

A. Details of Contractor's Personnel at Site

SN	Contractor's Personnel's	Position
1	Ujjwal Prasai	Project Manager
2	Mahesh Subedi	Sr. Engineer
3	Bishesh Prasai	Sr. Engineer
4	Gaurav Bikram Shah	Engineer
5	Sagar Chand	Engineer
6	Narayan Rijal	Sr. Supervisor
7	Uttar Karki	Supervisor
8	Ajay Rai	Supervisor
9	Yog Raj Kafle	Supervisor
10	Saroj Adhikari	Overseer
11	Sushmita Lepcha	Overseer



12	Report No. 55	Overseer
	Sanjay Shrestha	- CS1072-11 (CS1071)
13	Prakash Bhattarai	Sub Overseer
14	Sandesh Sunam	Sub Overseer
15	Pritam Sunrait	Sub Overseer
16	Vishwa Bandhu Mainali	Finance Officer
17	Anil Pokharel	Safety In Charge / PRO
18	Sunil Chaudhary	Quality Control Manager
19	Shanker Chaudhary	Lab Technician
20	Dipesh Dahal	Lab Assistant
21	Rabin Pandit	Lab Assistant
22	Mahesh Pandit	Store Keeper
23	Saroj Bhattarai	Store Keeper
24	Sailesh Paudel	Store Keeper
25	Dipendra Karki	Store Assistant
26	Rabin BdrGurung	Store Keeper
27	Dhurba Raj Bhattarai	Store Keeper
28	Nil Prasad Neupane	Store Keeper
29	Ananda Rajbansi	Electrician
30	Ajay Chaudhary	Welder
31	Mechanics	4
32	Plumber	6
33	Light Vehicle Driver	4
34	Tipper Driver	16
35	Water Tanker Driver	5
36	Tractor Driver	15
37	Heavy Equipment operator	32
38	Helper	54
39	Cook (Casting yard and Jatuwa)	8
40	Security Guard (casting yard and Jatuwa)	4
41	Skilled Labor	30
42	Unskilled Labor	60



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G. Details of Equipment at Site / Contractor's yard

	Equipment	Capacity	Nos			
A.1	Excavators					
	Komatsu PC 200 "B" (long boom)	148HP /0.97m3	1			
	Cat Excavator 320DL "A"	148HP /0.97m3	1			
A.3	Back Hoe Loader	92HP/0.30m3	9			
A.4	Grader		1			
	Komatsu GD405A-2	115HP	1			
	CAT 140G	115HP	1			
A.5	Jeep/Pickup					
	Pajero-Na2Cha 1086	5 door	1			
	Tata Sumo Gold	5 door	2			
	Pickup - Ko1Cha 2544	4 door	1			
A.6	Water Browser					
	Water Tanker Na1Kha 2595	Up to 12KL	1			
	Water Tanker Na1Kha 101	Up to 12KL	1			
	Tractor Water Tanker	Up to 4KL	3			
A.7	<u>Motorbikes</u>					
	Shine Bike Ko 17 Pa-3394	125cc	1			
	Shine Bike Ko 17 Pa-3395	125cc	1			
	Shine Bike Ko 20 Pa-215	125cc	1			
	Shine Bike Ko 20 Pa-230	125cc	1			
	Shine Bike Ko 20 Pa-1155	125cc	1			
	Shine Bike Ko 20 Pa-1167	125cc	1			
	Shine Bike Ko 11 Pa-8157	125cc	1			



	Honda Shine Ve 1 Pa 8845	125cc	1
	Glamor (Ko 24 3802	100 cc	1
70	Glamor (Ko 24 3804)	100 cc	1
9	Tractors		
	Tractor Ko 1Ta 5868	85HP/ Hydraulic	1
	Tractor Na 3 7936	85HP/ Hydraulic	1
	Tractor Ko1Ta 4145	85HP/ Hydraulic	1
Ĩ	Tractor Ko 2 Ta 4065	85HP/ Hydraulic	1
ľ	Tractor Ko1Ta 7655	85HP/ Hydraulic	1
	Tractor Ko1Ta 8882	85HP/ Hydraulic	1
g	Tractor Na1Ta 6204	85HP/ Hydraulic	1
	Tractor Ko1Ta 1755	85HP/ Hydraulic	1
	Tractor Ko1Ta 3440	85HP/ Hydraulic	1
9	Roller & Compactor		
	JCB Roller		1
	Case Compactor 450 DX	Upto 5Ton	1
	Single Drum Hand Roller [Honda GX160]	4Kw	2
	Monkey Jumper[Honda GX 160]	6.5Ps/10000N	2
	Plate Compactor		3
	Heavey Duty Tapping Rammer	4.4km	1
10	Tipper Truck		
20	AMW Tipper-Na1Ka 3489	150HP/10m3	1
	AMW Tipper-Na1Ka 3494	150HP/10m3	1
	AMW Tipper-Na1Ka 3491	150HP/10m3	1
	AMW Tipper-Na1Ka 3493	150HP/10m3	1
	Bituminous Plant/Crane & Others		
	Asphalt Hot Mix Plant Set -Keshar DM45	40 to 60 Ton/Hr	1
	Asphalt Paver Machine-Na1Ka 3135	105HP	1
	Mobile Unique Crane with Teller Ba1Ka 4423	10Ton	1
	JCB Hydra Lift all	15Ton	1



-	Concreting Unit			\dashv		
	Manual Mixture Machine[Everest]		10	H		
	Manual Mixture Machine [Ashoka]		2	J.		
	Hydraulic Mixture Machine[Universal]		3	K. L.		
	Hydraulic Mixture Machine[Kirloskar]		2	N.		
	Bar Bending Machine Set	4Ton/Hrs	3	0		
	Bar Cutter Machine Set	4Ton/Hrs	3			
	Concrete Vibrator with Needle	Diesel/3PHs/Pneumatic	10			
,	Work Shop Equipment and Tools					
	Generator-Kirloskar/Jackson	20Kva	2			
	Generator [Kirloskar]	125Kva	1			
	Generator	62.5Kva	1			
	Generator[Honda]	2.5Kva	1			
	Generator[Super]	5KVA	1			
	Generator[Lutian] [LT3600]	2.5KVA	1			
	Welding Machine Set	4Ton/Hrs	1			
	Concrete Cutter		1			
	Kerb Stone Machine Set	41+00				
	Concrete Cutter		1			
	Water Tank (Joined with Tractor)	10KI	1			
	Survey Equipment					
	Total Station		2			
	Level Machine		15			
	Lab Equipment		1 Set			

10. Conclusion

The total progress up to this month was 98.07%. But we would complete 99.5% of total BOQ quantity works. The remaining works are minor finishing civil work and Provisional sum of Sewer cleaning equipment supply & Dedicated line. Even these item we also inform you that we have completed procurement work.



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Road Maintenance at R-4



House connection at Dharambad Road



Placing of Sewer Inlet



Excavation for house connection

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June 2018



Placing of panels above the Bar Screen Chamber



Distribution of gravel in Sludge Drying Bed



Catchpit Construction in WWTP



Pipe Valve Fitting in Pipe Inspection Chamber

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Progress Report No. 55 Sewer cleaning work using jetting machine June 2018 Laying of Hume pipe

Humepipe installation using shoring

Disposal of silt by suction machine

			Length	Total Length(m)	Progress			
-	SN	Location			Up to Previous(m)	This Month(m)	Total to Date(m)	Prog
-	1	R2	3240	6840	6840		6840.00	-
	2	R3	2233	2993	2964		2964.00	
	3	R4	1246	2212	933.3		933.30	
	4	R5	1068	2136	2136		2136.00	
	5	R6	1280	2560	0		0.00	
	6	R7	485	615	825		825.00	
	7	R8	370	740	1267.1		1267.10	
	8	R9D	116	232	232		232.00	
	9	R13	220	440	433.85		433.85	
Page xxi	10	R16	580	1160		tractor: CTCE-KALIKA		
Decosts/VIV/s	11	R21	2420	2420	2420	Site Office: Katahari, .	udi 2420.00	
	12	R22	359	718	718		718.00	