In association with



Brisbane City Enterprise Pty Ltd, Australia AQUA Consultant and Associates Ltd, Bangladesh Building Design Authority, Nepal CEMAT Consultants, Nepal

Monthly Progress Report (FEBRUARY, 2018)

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



05 March, 2018

Biratnagar Metropolitan City (BMC), Nepal

AUSTRALIA | ASIA | MIDDLE EAST | AFRICA | PACIFIC

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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)			
	Government of Nepal,			
Executing Agency	Ministry of Urban Development			
Executing regency	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			
Consultant	SMEC in association with Brisbane/AQUA/BDA/CEMAT			
Contractor	CTCE-KALIKA Joint Venture			
Date of Commencement	08 December, 2013			
Original Completion Date	26 May, 2016			
Date of Completion as per EOT-03	30 Nov, 2017			
Revised date of completion as EOT-04 (approved)	⁰⁴ 31 March, 2018			
Revised Contract Amount including PS and VAT w.r.t. VO-03	nd NRs. 2,956,290,542.71			
Recommended Amount (Up to IPC-29)	NRs. 2,786,105,509.81 (Including PS & VAT)			
Physical Progress till March, 2018	94.88% (wrt to vo-03)			
Financial Progress	94.24% (wrt to vo-03)			

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 February, 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 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.



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



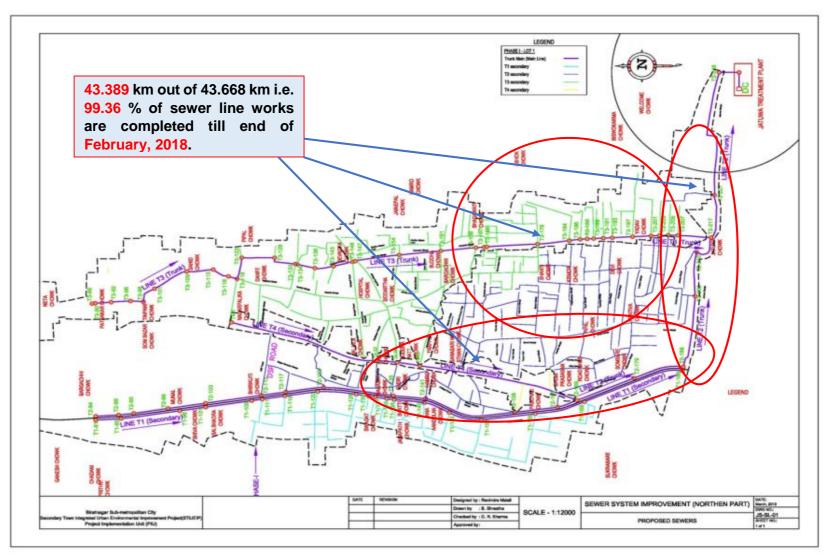


Figure 1: PROPOSED SEWER LINES IN BMC

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.

S.No.	Description	Unit	Original Quantity	Revised Quantity as per VO-3
А	Storm Drain for Northern Parts		28,491.00	27,678.00
Ι	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			
Ι	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			
Ι	Drain Cover	m	30,467.00	
II	Cleaning and Maintenance of Existing Drain	m	33,601.00	

Table 2: PROPOSED STORM WATER DRAINS in BMC

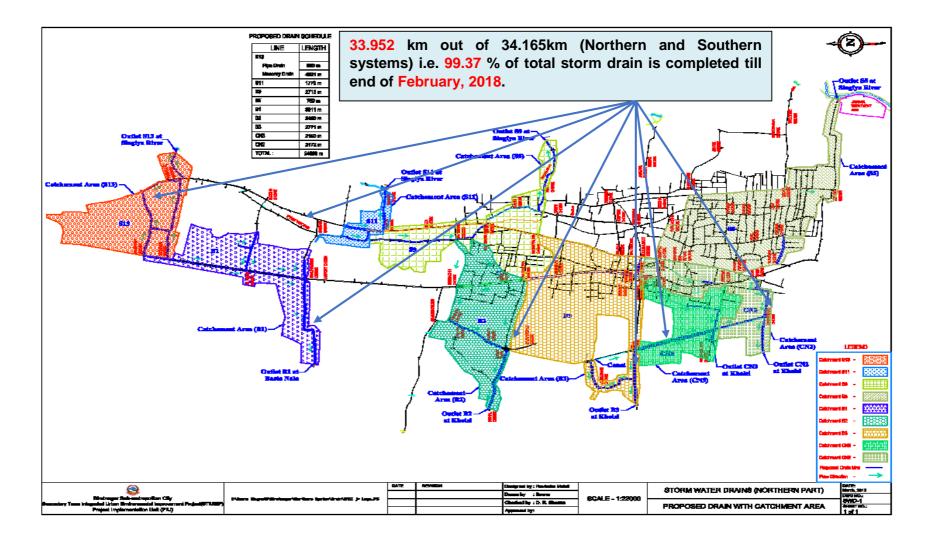


Figure 2: PROPOSED STORM WATER DRAINS IN BMC (Northern Drainage System)

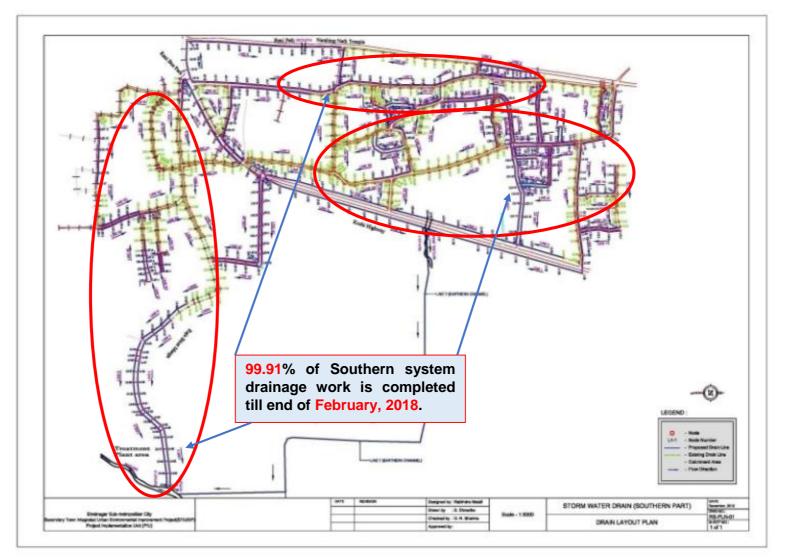


Figure 3: PROPOSED STORM WATER DRAINS IN BMC (Southern Drainage System)

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 I WWTP at Jatuwa are as follows:

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

Table 3: PROPOSED WASTE WATER COMPONENTS in BMC



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



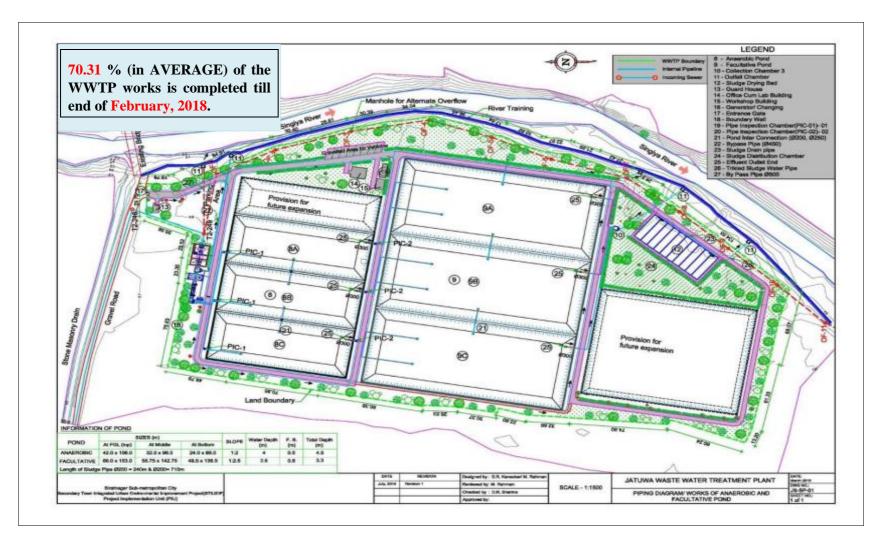


Figure 4: PROPOSED WASTE WATER TREATMENT PLANT at JATUWA in BMC

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 39.543 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

1) 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

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	

Table 5: DISBURSEMENT RECORDS in CONSTRUCTION



S. No.	Description of Payment	Total Bill Amount with VAT & PS	Remark
5	IPC 05	23,380,168.96	
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	
	Grand Total =	2,786,105,509.81	
	Total payment to date including PS & VAT and excluding mobilization =	2,786,105,509.81	



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 and A1, which are in progress. Nominal work in this month due to Festivals.

The contractor has completed storm water drain about 33.952 km out of 34.165 km, 99.37% till Feb, 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 Contractor has completed sewer lines with HDPE and RCC pipes about 43.389 km out of 43.668 km which is 99.36%, till Feb, 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 Bio-



engineering 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 70.31%. 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 Contractor started rectification/repair works in Sludge drying bed as well as Sump well as per instruction of our expert but still the work is very slow due to insufficient man powers.

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 39.5435 km out of 44.643 km, 88.58% till Feb, 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 February, 2018

w) Total physical progress till Feb, 2018 is about 94.88% w.r.t vo-3.

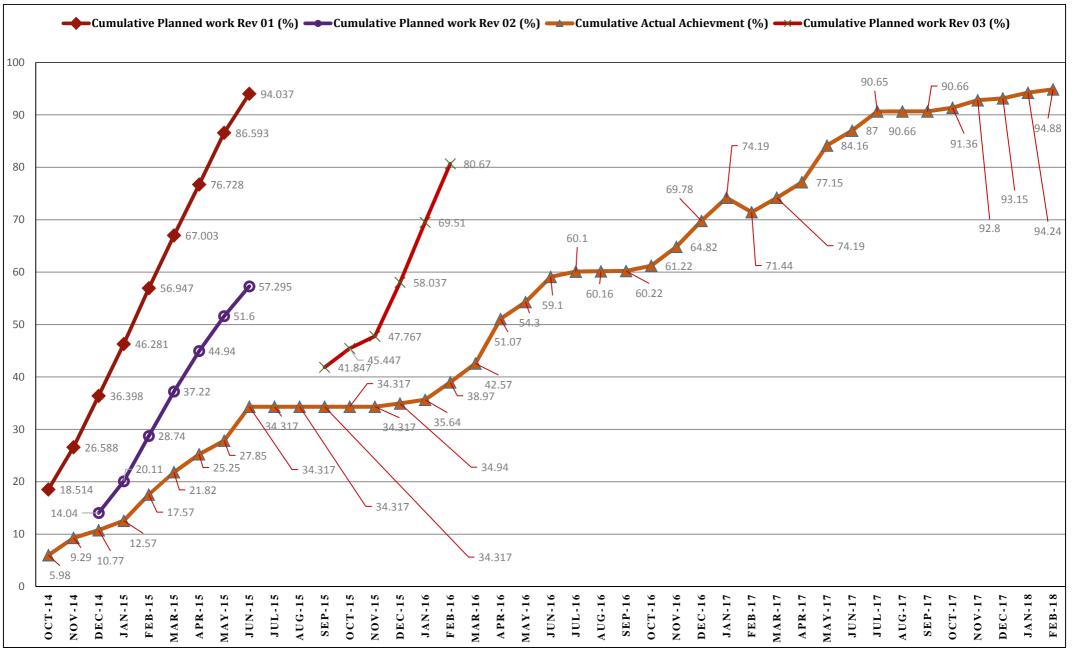
Table 6: PLAN vs ACTUAL PROGRESS till Feb, 2018

	Secondary Towns Integrated Urban Environmental Improvement 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 (%)	ogress lagging to date wrt the revised or wrt the revised (12.53) (17.30) (3.27) (7.54) (11.17) (15.40) (19.69) (23.75) (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 wr revised work plan rev 03 (%)	t the	(33.87)	(41.70)	48.89	46.75	45.70										(0.64)

(SMEC

	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	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	Preparation of VO-04 is in progress	
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)		



Secondary Towns Integrated Urban Environmental Improvement Project (STIUEIP) 5064023 Page 20 of Pages 91

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.

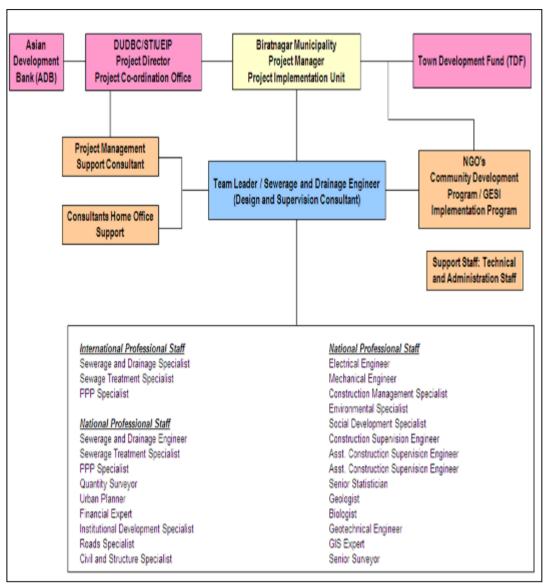


Figure 5: ORGANIZATION and STAFFING of STIUEIP, Biratnagar



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

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

Table 8: CONSULTANT'S STAFF at Project Site, Biratnagar

S. No	Name	Position
1	Ram Lakhan Mandal	Team Leader
2	Ganesh Gautam	Contract Management Specialist
3	Bhupal Khadka	Road Specialist
4	Jaya Prakash Yadav	Asst. Construction Supervision Engineer-1
5	Amit Kumar Gupta	Asst. Construction Supervision Engineer-2
6	Deepak Majhee	Junior Engineer-2
7	Arun Kumar Yadav	Junior Engineer-3
8	Jay Prakash Yadav	Junior Engineer-4 (Joined from 6 th Sept.2017)
9	Padam Poudel	Office Manager/Computer Operator
10	Yas Kumar Magar	Driver-1 (Joined from 10 th Dec, 2017)
11	Renuka Regmi	Office Assistant (Joined from 9 th Nov, 2017)

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



jj) 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 February, 2018.

Table 9: KEY DATES of EVENTS / ACTIVITIES

S.	No	Date	Activities/Events	Remarks
	1		Frequent site visit by the client and the experts as required.	



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:

			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	4003.55	3848.00	0.00	3848.00	
2	B2	3724.00	3732.60	116.00	3848.60	
3	B3	3505.02	3463.00	0.00	3463.00	
4	S 5	1201.00	1201.00	0.00	1201.00	
5	S 9	2933.22	2930.00	0.00	2930.00	
6	S 11	1350.60	1350.60	90.00	1440.60	
7	S13	5000.21	4864.00	0.00	4864.00	
8	CN2	2197.30	2197.30	0.00	2197.30	
9	CN3	2563.77	2238.15	0.00	2238.15	
10. a	A1LINE1	600.00	621.88	0.00	621.88	
10. b	A1LINE2	600.00	604.90	90.00	694.90	
11	A1 - Lanes	-	8.80		8.80	Crossing
12	Rani	6486.70	6596.28	0.00	6596.28	
	Total	34,165.37	33,656.51	296.00	33,952.51	99.37%

Table 10: PHYSICAL PROGRESS in STORM WATER DRAINS till Feb, 2018



Table 11: PHYSICAL PROGRESS in ROAD SIDE DRAINS (till Feb, 2018)

		Length	Total Length	Progress (met		Total		
S.No	Location	(m)	(m)	Up to previous month	This Month	Till Date	%age	Remarks
1	R2	3,420.00	6,840.00	6,680.70	-	6,680.70		
2	R3	2,233.00	2,993.00	2,925.00	-	2,925.00		
3	R4	1,246.00	2,212.00	892.20	-	892.20		
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	890.00	200.00	1090.00		
6	R7	485.00	615.00	615.00	-	615.00		
	R7			249.00	-	249.00		
	R8	370.00	740.00	740.00	-	740.00		As per VO 3
7	R8			602.00	-	602.00		Additional work is from Ch. 0+300 to Ch. 0+560 and Plus
8	R9D	116.00	232.00	235.40	-	235.40		
9	R13	220.00	440.00	400.00	-	400.00		
10	R16	580.00	1,160.00	1,150.00	-	1,150.00		
11	R21	2,420.00	2,420.00	1,985.20	-	1,985.20		



		Length	Total Length	Progress (met		Total		
S.No	Location	(m)	(m)	Up to previous month	This Month	Till Date	%age	Remarks
12	R22	359.00	718.00	676.00	-	676.00		
13	R24	390.00	780.00	768.00	-	768.00		
14	R25	594.00	1,188.00	1,131.10	-	1,131.10		
15	R26	620.00	1,240.00	1,258.00	-	1,258.00		
16	R27	977.00	1,954.00	2099.00	-	2099.00		
17	R28	620.00	1,240.00	950.00	-	950.00		
18	R29	620.00	1,240.00	1240.00	25.00	1265.00		
19	R30	328.00	656.00	357.00	-	357.00		
20	R31	187.00	374.00	350.00	-	350.00		
21	R32	189.00	378.00	50.00	140.00	190.00		
22	R37	785.00	1,570.00	892.80	-	892.80		Progress is as per site condition (Ch. 0+000 to Ch. 0+420)
23	R64	120.00	120.00	121.00	-	121.00		As per measurement
24	R78	92.00	184.00	82.00	-	82.00		
25	T2L19 R	177.00	354.00	329.75	-	329.75		
26	T2L19 P	103.00	206.00	226.20	-	226.20		



S.No	Location	Length	Total Length	Progress (met	-	Total		Remarks	
		(m)	(m)	Up to previous month	This Month	Till Date	%age		
27	T2 19 U	81.00	162.00	144.20	-	144.20			
28	R107	157.00	314.00	288.00	-	288.00			
29	R108	96.00	192.00	192.00	-	192.00			
30	R109	90.00	360.00	355.00	-	355.00			
31	T3L26E	93.00	186.00	177.80	-	177.80			
32	T2L18O	143.00	286.00	268.00	-	268.00		Proposed Length = 280 m	
33	R42			271.60	-	271.60		Proposed Length = 548 m	
34	R104			290.93	-	502.88		Proposed Length =120 m	
35	T2L26F		al Road Side Drains	110.60	-	110.60		Proposed Length = 410 m	
36	R73			263.20	-	453.20		Proposed Length = 80 m	
37	T3L29			80.70	-	80.70			
38	WWTP		2880.00	1934.62	-	1934.62			
	Total	20,259.00	36,050.00	33,076.65	365.00	33,441.65	92.76%		



 Table 12: PHYSICAL PROGRESS in SEWER LINES (till Feb, 2018)

S.N.	Location	As per VO-3		Up to Previous Month		This month		Total to date		Progress % age		Remarks
		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	0.00	3819.50	125			
2	HDPE (T2)	13,595.40	485	13490.65	459	50.00	0.00	13540.65	459			
3	HDPE (T3)	6,947.10	258	6890.10	247	0.00	0.00	6890.10	247			
4	HDPE (T4)	117.30	3	112.00	3	0.00	0.00	112.00	3			
5	Sub Total (HDPE)	24,476.90	873	24,312.25	834	50.00	0.00	24,362.25	834	99.53	99.53	
6	Hume pipe(T1)	5,026.80	144	4761.20	125	0.00	0.00	4761.20	125			
7	Hume pipe(T2)	9,488.00	276	8844.40	229	500.00	7.00	9344.40	236			
8	Hume pipe(T3)	4,493.30	136	4736.40	96	0.00	0.00	4736.40	96			
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	18,527.00	455	500.00	7.00	19,027.00	462	99.145	82.35	
11	Total (HDPE + Hum pipe) =	43,668.50	1434	42,839.25	1289	550.00	7.00	43,389.25	1296	99.36	90.37	



Table 13: PHYSICAL PROGRESS in MANHOLES, SEWER INLETS & HOUSE CONNECTION CHAMBER (till Feb, 2018)

S.N.	Description	Proposed Quantity (no.)	Up to Previous Month	This Month	Total to Date	Progress (%)
1	Sewer inlet	2924.00	1958.00	12.00	1970.00	67.37
2	House connection chamber	4500.00	2004.00	50.00	2054.00	45.64

Table 14: PHYSICAL PROGRESS in ROADS & LANES (till Feb, 2018)

			Progress le	ength in (m)		D
SN	Road Name / Location	Proposed length (m)	Previous this month 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)	Total to	Progress
SN	Road Name / Location	Proposed length (m)	Previous month			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		-	-	



			Progress le	ngth in (m)	Total to	_
SN	Road Name / Location	Proposed length (m)	Previous month			Progress %age
41	R16	540.00	540.00	-	540.00	
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	



			Progress le	ngth in (m)		Ducanag
SN	Road Name / Location	Proposed length (m)	Previous month	this month	Total to date	Progress %age
66	R33	285.00	285.00	-	285.00	
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	



				Progress le	ength in (m)		Progress %age
92 R86 140.00 140.00 - 140.00 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 - - 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	SN		-				
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 - - 103 R109 200.00 - - - 104 R110 252.00 245.00 - - 104 R110 252.00 245.00 - - 104 R111 191.00 191.00 - 191.00 105 R111 191.00 216.00 - 216.00 106 R121 121.00 121.00 - 121.00 108 R121 121.00 121.00	91	R86	60.00	60.00	-	60.00	
94 $R91$ 180.00 180.00 \cdot 180.00 95 $R102$ 62.00 72.00 \cdot 72.00 96 $R103$ 173.00 147.00 \cdot 147.00 97 $R104$ 273.00 276.00 \cdot 276.00 98 $R105$ 168.00 65.00 \cdot 65.00 101 $R107$ 167.00 185.00 \cdot 185.00 102 $R108$ 97.00 36.00 \cdot \cdot 103 $R109$ 200.00 \cdot \cdot \cdot 104 $R110$ 252.00 245.00 \cdot 216.00 105 $R111$ 191.00 191.00 \cdot 191.00 106 $R112$ 216.00 216.00 \cdot 226.00 108 $R121$ 121.00 121.00 \cdot 280.00 109 $R122$ 280.00 280.00 \cdot 280.00 110 $T3$ Line 23 58.00 \cdot $-$	92]	R86	140.00	140.00	-	140.00	
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 - - 104 R110 252.00 245.00 - - 104 R110 252.00 245.00 - 216.00 105 R111 191.00 191.00 - 191.00 106 R112 216.00 216.00 - 226.00 107 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	93	R90	320.00	316.00	-	316.00	
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 23 58.00 - 55.00	94	R91	180.00	180.00	-	180.00	
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 - 326.00 107 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	95	R102	62.00	72.00	-	72.00	
98R105168.00 65.00 $ 65.00$ 101R107167.00185.00 $-$ 185.00102R10897.00 36.00 $ 36.00$ 103R109200.00 $ -$ 104R110252.00245.00 $-$ 245.00105R111191.00191.00 $-$ 191.00106R112216.00216.00 $-$ 216.00107R114320.00326.00 $-$ 121.00108R121121.00121.00 $-$ 121.00109R122280.00280.00 $-$ 280.00110T3 Line 2358.00 $-$ 55.00	96	R103	173.00	147.00	-	147.00	
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102R10897.00 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 - 55.00	98	R105	168.00	65.00	-	65.00	
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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	03	R109	200.00		-	-	
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	04	R110	252.00	245.00	-	245.00	
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	05	R111	191.00	191.00	-	191.00	
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	06	R112	216.00	216.00	-	216.00	
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	07	R114	320.00	326.00	-	326.00	
110 T3 Line 23C 145.00 - 145.00 111 T3 Line 23 58.00 - 55.00	08	R121	121.00	121.00	-	121.00	
145.00 111 T3 Line 23 58.00 - 55.00	09	R122	280.00	280.00	-	280.00	
111 T3 Line 23 58.00 - 55.00	10 7	T3 Line 23C	145.00	145.00	-	145.00	
	11 '	T3 Line 23	58.00	55.00	-	55.00	
112 T3 Line 24A 63.00 63.00 - 63.00	12	T3 Line 24A	63.00	63.00	-	63.00	



			Progress le	ngth in (m)		Progress
SN	Road Name / Location	Proposed length (m)	Previous month	this month	Total to date	Progress %age
113	T3 Line 24B	81.00	77.00	-	77.00	
114	T3 Line 24	33.00	33.00	-	33.00	
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	



			Progress le	ngth in (m)		December
SN	Road Name / Location	Proposed length (m)	Previous month	this month	Total to date	Progress %age
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	
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 - 1		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	



		_	Progress le	ngth in (m)		Progress
SN	Road Name / Location	Proposed length (m)	Previous month	this month	Total to date	Progress %age
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		-	-	
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	-	-	-	
204	WWTP	1,440.00	800.00	-	800.00	
205	WWTP	750.00	640.00	-	640.00	
	Total	44,643.00	39,543.50	0.00	39,543.50	88.58



Table 15: PHYSICAL PROGRESS in WASTE WATER TREATMENT PLANT (WWTP), JATUWA till Feb, 2018

				Physical Pr	ogress till <mark>Feb</mark> ,	, 2018		
		Proposed		Progr	ess		D	
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.	2.92	0.05	2.97	99.00	
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 : in progress
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.	0.69	0.08	0.77	77.00	
9	Sludge Drying Bed	1.00	Nos.	0.94	0.00	0.94	94.00	
10	Bio-engineering	1.00	Job	0.50	0.00	0.50	50.00	
10	Road Side Drain	2880.00	М	1671.00	60.00	1731.00	60.10	



	Physical Progress till Feb, 2018										
		Proposed		Progr	ess						
S.N.	Description	-	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	Average Progress – 70.31%			

			Physical Progres	s till Feb, 201	8	
			Progre	ess		
S.N.	S.N. Description		Up to Previous month (nos.)	This Month (nos.)	Total to Date (nos.)	Remarks
1	Precast Slab	No	128,713.00	3000.00	131,713.00	
2	Precuts	No	11,209.00	0	11,209.00	
3	Kerb Stone	No	23,135.00	0	23,135.00	
4	Manhole	No	2,200.00	0	2,200.00	
5	Sewer Inlet	No	2,524.00	0	2,524.00	
6	House Connection Chamber	No	2,287.00	0	2,287.00	

Table 16: PHYSICAL PROGRESS in PRODUCTION OF PRECAST ITEMS at KATAHARI till Feb, 2018

Table 17: PHYSICAL PROGRESS in PRODUCTION OF RCC PIPES at ITAHARI till Feb, 2018

		Physic	cal Progress till	Feb, 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 18: CONTRACTOR'S KEY STAFFS in Feb, 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 19: 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

kk) 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

ll) 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

mm) 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

nn) 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

oo) 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

pp) 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

qq) 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 and materials at site from the contractor side.
- Delay in approval of estimate of dedicated electricity supply to WWTP, Jatuwa.
- House connection and sewer inlet affecting due to issue from local stakeholder and due to the structures of ongoing Highway structures.

12.WORK PLAN FOR THE NEXT MONTH

rr) 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.

- Repair & maintenance works and outstanding works.
- 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 repairing of water supply pipe lines.
- Sewer pipe lines laying.
- Inlet and house connection chamber laying.
- RCC and brick drain at R6, R29 & R32.
- Storm water drain at A1 & B2.
- Relocation of electrical poles.
- Sub base work in R6 and in the defectives lane, etc.



ANNEX-1: Photographs of Feb, 2018



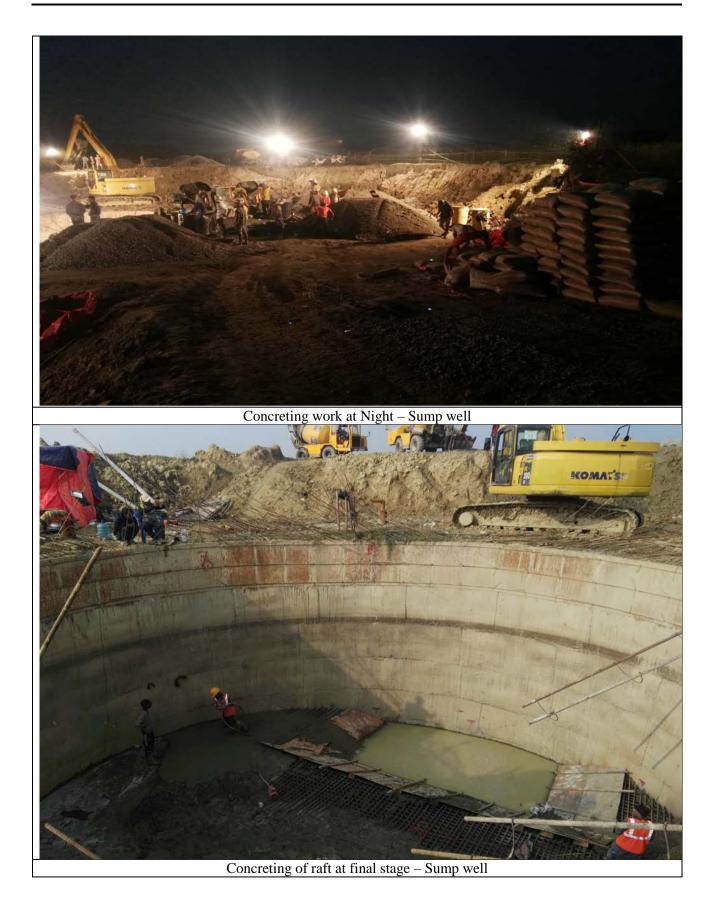


B2 – Storm water drain





SMEC





ANNEX-2: Minutes of Meeting Feb, 2018



ANNEX-3: Laboratory Test Results of Feb, 2018



BIRATINGAS SUb-Metropolitant Civ STUE BIRATINGAS SUb-Metropolitant Civ STUE Monthly Laboratory Testing Report (For The Month OF-FEBRUARY 2013) Containers SMEC-Eliferature Activity Laboratory Testing Report (For The Month OF-FEBRUARY 2013) Containers SMEC-Eliferature Activity Laboratory Testing Report Solution Discription of Montain Type of feat Test Activity Laboratory Solution Discription of Montain Type of feat Test Activity Laboratory Solution Discription of Montain Type of feat Test Activity Laboratory Solution Discription Discription Test Activity Laboratory Solution Discription Test Activity Laboratory Test Activity Laboratory Solution Discription Discription Test Acti	ity port	2018)	Contractors: CTCE- KALIKA J/V	Test Performed for this month Total No. of Test	Passed Falled Recommended U	0 0	0 0	0 0	0 0	0 0	75 0	0 0	0	12 0	12 0	0 0	12 0	12 0	12 0	0 0	0 0	0 0	
BIRATNAGAR Sub- Monthly Laborat Monthly Laborat For The Month OF Faba Faba Faba Faba Paba Faba Paba Faba Faba Faba Paba Steve analysis Steve analysis Compressive Strength Actv Actv Actv Actv Actv Steve analysis Steve analysis Steve analysis Compressive Strength Actv Acttr <td>Metropolitant Ci ory Testing Re</td> <td>-FEBRUARY</td> <td></td> <td></td> <td>No. of Tests</td> <td>0</td> <td>0</td> <td>0</td> <td>0</td> <td>0</td> <td></td> <td>0</td> <td></td> <td></td> <td></td> <td>0</td> <td>12</td> <td>12</td> <td>12</td> <td>0</td> <td>0</td> <td>0</td> <td></td>	Metropolitant Ci ory Testing Re	-FEBRUARY			No. of Tests	0	0	0	0	0		0				0	12	12	12	0	0	0	
American and the second	NAGAR Sub- hly Laborat	Month OF		Total No. of Tes	month month	90	100	677	100	445	3441	4759		464	356	17	355	403	518	11	471	75	
	BIRATI	(For The	I-BDA		1ype of test	Sieve analysis	MDD & OMC	Field density	C.B.R	Water Absorption	Compressive Strength	Compressive strength		Sieve analysis (20 mm)	LAA	Specific Gravity	E	ACV	Sieve analysis	Concrete mix Design	Compressive strength	Slump test	



(For The Month OF-FEBRUARY	DF-FEBR		18)	Contractors: CTCE-K	CTCE- KALIKA JN
Tuna of fast	Test	Test Perforr	Test Performed for this month	Tretal N	
	1	rests Passed	Failed	Recent upto Th Recommended	upto This month Remarks
Setting time 424	17	17	0	4	441
Normal Consistency 424	17		0	4	441
Compressive strength 15039			0	15.	111
Required Test					
As per Specification 81	0	0	0	00	81
Siove analysis 313	0	0	0	31	313
MDD & OMC 63	0	0	0	9	63
CBR 69	0	0	0	9	69
Field density 493	0	0	0	48	3
Sieve analysis 142	0	0	0	14	2
MDD & OMC 14	0	0	0	+	4
C.B.R 35	0	0	0	Ř	10
FI & C.Ratio 136	0	0	0	13	g
LAA 122	0	0	0	12	0
sss 64	0	0	0		
AIV 136	0	0	0	13	
Field Density & OMC 197	0	0	0	2 61	
		upto pervious 424 424 424 15039 81 81 81 81 81 81 81 81 81 81 81 81 81 81 81 81 81 142 136 136 136 137	uppo pervious month in 424 No. of Treats 424 17 424 17 424 17 313 0 81 0 81 0 81 0 81 0 81 0 81 0 81 0 81 0 81 0 133 0 142 0 142 0 136 0 136 0 136 0 136 0 136 0 136 0 137 0 138 0 137 0	uplo pervious month No. of Tests Passed 424 17 17 17 424 17 17 17 424 17 17 17 424 17 17 17 424 17 17 17 424 17 17 17 313 0 0 0 81 0 0 0 81 0 0 0 81 0 0 0 133 0 0 0 142 0 0 0 142 0 0 0 35 0 0 0 136 0 0 0 136 0 0 0 136 0 0 0 136 0 0 0 137 0 0 0 137 0 0 <	upto pervious No. of Teests Pessed railed Retext 424 17 17 0 Retext 313 0 0 0 0 81 0 0 0 0 81 0 0 0 0 81 0 0 0 0 81 0 0 0 0 0 913 0 0 0 0 0 0 142 0 0 0 0 0 0 0 142 0 0 0 0 0 0 1 136 0 0 0 0 0 0 1 135 0 0 0 0 0

(FOT The Month OF-FERVARY 2018) (FOT The Month OF-FERVARY 2018) contractors: TCE-KALKA ption of Material Type of test Tatal No. of Test Tatal Reference of reference		BIRATN	BIRATNAGAR Sub-Metropolitant City Monthly Laboratory Testing Report	etropolitar ry Testing	P F			BIRATNAGAR Sub-Metropolitant City STIUE Monthly Laboratory Testing Report	STIUEIP
Contractors: CTCE-KALIKA Type of test Test Performed for this month rank month month month work and month work and month rank month work and month work and month work and month and to be a set of the month month month work and month and to be a set of the month month and to be a set of the month month month and to be a set of the month month month and to be a set of the month month and to be a set of the month month month and to be a set of the month month month month month and to be a set of the month month and to be a set of the month month and to be a set of the month month and to be a set of the month and to be a set of the month and to be a set of the beat of the set			Nonth OF-F	FEBRUA					
International Length Type of test, reconstruction Upper of test, reconstruction Reset and second method in the construction of the	AEC-Brisbane-AQUA-CEMA		Total No. of Test		Test Performed	Contrac for this month		ICE- KALIKA	Nr
E Isone nethytal 39 0 0 0 0 39 NA Constant 7 24 0 0 0 0 24 MA Constant 24 0 0 0 0 24 MA Constant 1 24 0 0 0 24 24 MA Constant 1 24 0 0 0 24 24 MA Constant 24 0 0 0 0 24 24 State pointifing bain 4 0 0 0 24 24 State pointifing bain 4 0 0 0 24 24 State pointifing bain 4 0 0 0 24 24 State pointifing bain 4 0 0 0 24 24 State pointifing bain 4 0 0 0 24 24 State pointifing bain 4 0	Description of Material	Type of test	upto previous month	No. of Tests	Passed	_	Retest	Total No. of Test upto This month	Remarks
Induction 24 0 0 0 24 MCV 24 0 0 0 24 Spanity 4 0 0 0 43 Spanity 4 0 0 0 43 Preneticionatico 4 0 0 0 43 Muture protection 4 0 0 0 4 Meteority 4 0 0 0 4 Meteority 4 0 0 0 4 Undefine at Size 4 0 0 0 4 Meteority 4 0 0 0 4 Meteority 4 0 0 0 4 Meteority 4	ASHPHALT CONCRETE	Sieve analysis	39	0	0				
ACV 24 0 0 0 24 24 U.M. 24 0 0 0 0 24 24 Victorian 59 providy 4 0 0 0 0 24 24 Strand 59 providy 4 0 0 0 24 24 24 Strand point(mod alloc 4 0 0 0 0 44 24 <t< td=""><td>Combine Mixed</td><td>E</td><td>24</td><td>0</td><td>0</td><td>0</td><td></td><td>24</td><td></td></t<>	Combine Mixed	E	24	0	0	0		24	
International segmetry International segmetry 24 0 0 0 24 Segmetry Segmetry 4 0 0 0 0 4 Segmetry Segmetry 4 0 0 0 0 4 Segmetry Segmetry 4 0 0 0 4 4 Segmetry Penetretion attacs 4 0 0 0 4 4 Segmetry Penetretion attacs 4 0 0 0 4 4 Segmetry 4 0 0 0 0 4 4 Uncelling attacs 44 0 0 0 0 4 4 Uncelling attacs 44 0 0 0 0 4 4 Uncelling attacs 44 0 0 0 0 4 4 Uncelling attacs 44 0 0 0 0 4		ACV	24	0	0	0		24	
Signative 4 0 0 0 0 4 Siss 43 0 0 0 0 43 Siss 43 0 0 0 0 43 Permetricin atc. 43 0 0 0 43 43 Permetricin atc. 44 0 0 0 0 4 4 Soluting point/into builty 44 0 0 0 0 4 4 Uncellity atficio 44 0 0 0 0 4 4 Specific at 25.0 44 0 0 0 0 4 4 Mote Context 44 0 0 0 0 4 4 Instantione on heating for 5 fins 44 0 0 0 4 4 Instantione on heating for 5 fins 44 0 0 0 0 4 4 Instantione on heating for 5 fins <	Individual Ca&FA Test Mix Design	LAA	24	0	0	0		24	
SSS 43 0 0 0 0 43 Peneterion al350 4 0 0 0 0 4 Peneterion al350 4 0 0 0 0 4 4 Softwing point(rion al350 4 0 0 0 0 4 4 Softwing point(rion al350 4 0 0 0 0 4 4 Unatify at550 4 0 0 0 0 4 4 Value 4 0 0 0 0 4 4 Value 4 0 0 0 0 4 4 Value 4 0 0 0 4 4 Perof relation of 5 his 4 0 0 0 4 4 Value 4 0 0 0 4 4 4 Perof relation of 5 his 4 0 0		Sp gravity	4	0	0	0		4	
Penetration at2.5.c 4 0 0 0 0 4 Softwing point(ring hall) -4 0 0 0 0 4 Softwing point(ring hall) -4 0 0 0 0 4 Flash point(ring hall) -4 0 0 0 0 4 Specific at 26.c 4 0 0 0 0 4 Meter Content 4 0 0 0 0 4 Under Content 4 0 0 0 0 4 Uses of the afte loss on theating 4 0 0 0 4 Under Content 4 0 0 0 4 4 Meter Con		S.S.S	43	0	0	0		43	
Softwarp perint/reg bau) 4 0 0 0 4 Flash point/re Point 4 0 0 0 0 4 Plash point/re Point 4 0 0 0 0 4 Vertify al35c 4 0 0 0 0 4 Specific at 35c 4 0 0 0 0 4 Water Content 4 0 0 0 0 4 Uses on theating for 5 fms 4 0 0 0 4 Uses on theating for 5 fms 4 0 0 0 4 Uses on theating for 5 fms 4 0 0 0 4 Uses on theating for 5 fms 4 0 0 0 4 Uses on theating for 5 fms 4 0 0 0 4 Uses on theating for 5 fms 4 0 0 0 4 Uses on theating for 5 fms 5 0 0	BITUMEN TEST	Penetration al25.c	4	0	0	0		4	
Flash point/rise Foint 4 0 0 0 4 Ductitiy at26.c 4 0 0 0 0 4 Boucitiy at26.c 4 0 0 0 0 4 Boucitiy at26.c 4 0 0 0 0 4 Specific at 32.c 4 0 0 0 0 4 MoterContent 4 0 0 0 0 4 Loss on Heating for 5 hrs 4 0 0 0 4 4 Punce fracture after loss on Heating 4 0 0 0 4 4 Punce fracture after loss on Heating 4 0 0 0 4 4 Punce fracture after loss on Heating 4 0 0 0 4 4 Punce fracture after loss on Heating 4 0 0 0 4 4 Punce fracture after loss on Heating 7 0 0 4	80/100 Bitumen	Softeing point(ring ball)	. 4	0	0	0		4	
Ductify atZsc 4 0 0 0 0 4 Specific at 25.c 4 0 0 0 0 4 Specific at 25.c 4 0 0 0 0 4 Specific at 25.c 4 0 0 0 0 4 Water Centert 4 0 0 0 0 4 Loas on Heating for 5 hrs 4 0 0 0 0 4 Pen-of reactive after loas on Heating 4 0 0 0 4 4 Pen-of reactive after loas on Heating 4 0 0 0 4 4 Pen-of reactive after loas on Heating 4 0 0 0 4 4 Pen-of reactive after loas on Heating 4 0 0 0 4 4 Pen-of reactive after loas on Heating 7 0 0 7 4 Pen-of reactive after loas on Heating 7 0 0 <td>As per DORbook section</td> <td>Flash point/Fire Point</td> <td>4</td> <td>0</td> <td>0</td> <td>0</td> <td></td> <td>4</td> <td></td>	As per DORbook section	Flash point/Fire Point	4	0	0	0		4	
Specific at 26. 4 0 0 0 4 Water Content 4 0 0 0 4 Water Content 4 0 0 0 4 Loss on Heating for 5 hrs 4 0 0 0 4 Loss on Heating for 5 hrs 4 0 0 0 4 Loss on Heating for 5 hrs 4 0 0 0 4 House for the set on Heating 4 0 0 0 4 Setability in trick-reschytere 4 0 0 0 4 WEARING COURSE 2 0 0 0 7 7 WEARING COURSE 2 0 0 0 7 7 Using domating 108 0 0 0 7 7 WEARING COURSE 2 0 0 0 7 7 Using domating 108 0 0 0 7 7	600 Table 6.14fs 73	Ductility at25.c	4	0	0	0		4	
Water Control 4 0 0 0 4 Loss on heating for 5 hrs 4 0 0 0 4 Loss on heating for 5 hrs 4 0 0 0 4 4 Pen-of reactione after loss on heating 4 0 0 0 4 4 Pen-of reactione after loss on heating 4 0 0 0 4 4 Pen-of reactione after loss on heating 4 0 0 0 4 4 Stability intriducenthytere 4 0 0 0 0 4 4 Three Edge Bearing 7 0 0 0 0 7 7 Water Boot loss 7 0 0 0 7 7 7 Water Boot loss 7 0 0 0 0 7 7 7 Boot domain y 108 0 0 0 0 108 108 108 108		Specific at 25.c	4	0	0	0		4	
4 0 0 0 4 4 0 0 0 4 4 0 0 0 4 4 0 0 0 4 4 0 0 0 4 7 0 0 0 4 7 0 0 0 4 108 0 0 0 7 108 0 0 0 108 108 0 0 0 108		Water Content	4	0	0	0		4	1.1.5
Pencal relation after loss on feating 4 0 0 0 4 Pencal relation after loss on feating 4 0 0 0 4 Subbility in trickorethyters 4 0 0 0 4 Three Eagle Bearing 7 0 0 0 4 Wardense Course 2 0 0 0 7 Wardense Course 2 0 0 0 108 Build density 108 0 0 0 108 Stability 108 0 0 0 108 $fow 108 0 0 0 108 fow 108 0 0 0 108 $		Loss on Heating for 5 hrs	4	0	0	0		4	
abulality in trictorent/yine 4 0 0 0 4 These Edge Baring 7 0 0 0 7 4 These Edge Baring 7 0 0 0 0 7 7 We Edge Baring 7 0 0 0 0 7 7 We Antwo Course 2 0 0 0 0 7 7 Buik density 108 0 0 0 0 108 108 Flow 108 0 0 0 0 108 108 Air voldeat 108 0 0 0 0 108 108		Pen-of residue afte loss on Heating	4	0	0	0		4	T T T T T T
Three Edge Bearing Load Test 7 0 0 0 7 7 Wardensic Buik density 2 0 0 0 0 2 2 Buik density 108 0 0 0 0 108 108 Stability 108 0 0 0 0 108 108 Flow 108 0 0 0 0 108 108 Air voldea 108 0 0 0 0 108 108		Solubility in tricloroethylene	4	0	0	0		4	
WEARING COURSE 2 0 0 0 2 Built density 108 0 0 0 108 108 Stability 108 0 0 0 108 108 Stability 108 0 0 0 108 108 Flow 108 0 0 0 108 108 Alt voltes 108 0 0 0 108 108	ie Test	Three Edge Bearing Load Test	7	0	0	0			00mm to 1600mm
Bulk density 108 0	NDISED WITH WIX DESIGN	WEARING COURSE	2	0	0	0		2	-
108 0 0 0 0 10 <td>Il Stability Test</td> <td>Bulk density</td> <td>108</td> <td>0</td> <td>0</td> <td>0</td> <td></td> <td>108</td> <td></td>	Il Stability Test	Bulk density	108	0	0	0		108	
108 0 0 0 10 108 0 <td></td> <td>Stability</td> <td>108</td> <td>0</td> <td>0</td> <td>0</td> <td></td> <td>108</td> <td></td>		Stability	108	0	0	0		108	
108 0 0 0		Flow	108	0	0	0		108	
		Air voldes	108	0	0	0		108	





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				Contract Pag	kage: STIUE	EIP/W/BRT/IC	CB-01		
					WEATHER				
			FO	R THE MO				8	
Date			W	EATHER Re	cord		Temp.c		
	Sunny	Foggy	Cloudy	Morning Rain HRS	Night Rain Hrs.	Day Rain Hrs.	9:00 AM	5:00 PM	Rain Fall MM
1		Foggy					19	17	
2		Foggy					20	18	
3	*	Foggy					18	16	
4		Foggy					20	18	
5		Foggy					20	19	
6		Foggy					21	18	
7		Foggy			1		20	18	
8	Sunny						20	19	
9	Sunny						22	20	
10	Sunny						21	19	
11	Sunny						20	18	******
12	Sunny			A CONTRACTOR			21	19	-
13	Sunny						20	18	
14	Sunny						21	19	
	Sunny						21	20	
	Sunny						22	18	
	Sunny						21	19	
18	Sunny						20	18	
19		Foggy					22	19	
20		Foggy			11		21	19	11721 - C
21		Foggy					20	18	
22		Foggy					22	19	
23		Foggy				and the second second	21	18	
24	Sunny						20	17	
25	Sunny						20	18	
26	Sunny				Night Rain Hrs.		22	20	86
27 5	Sunny						23	20	
	Sunny						23	20	N
	ved By	C.S.E		UA-CEMAT-BDA	7	Submitted By	CTCE-K/	ALIKA J/V	
	l Check	ced By A.	C.S.E	KARN		Record Report		ALLEN CALLEN	2 Mar



Soluminatory OF CUBE COMPRESSIVE STRENGTH TEST M20 HOF FEBRUARY 2018 Ratio by Volume Emention Ratio by Volume tails of Mix Extructures water CementSand Aggregates Cement 0 Work Mix WWTP Slum Well Rcc Bottom 0.32 1 1 2 Shiv 0 Work Mix WWTP Slum Well Rcc Bottom 0.32 1 1 2 Shiv 0 Work Mix WWTP Slum Well Rcc Bottom 0.32 1 1 2 Shiv 0 Work Mix R-6 Line Shal Marga 0.50 1 2 3.5 Shiv 0 Work Mix R-6 Line Shal Marga 0.50 1 2 3.5 Shiv 0 Work Mix R-6 Line Shal Marga 0.50 1 2 3.5 Shiv 0 Work Mix R-6 Line Shal Marga 0.50 1 2 3.5 Shiv 0 Work Mix R-6 Line Shal Marga 0.50 1 2 3.5 Shiv 0 Work Mix R-6 Line Shal Marga 0.50 1 2 3.5 Shiv 0 Work Mix WWTP Top of Membrane	I OF FEBRUARY 2018 Is of Mix Location Work Mix Structure Work Mix WWTP Slum Well Rcc Bottom Work Mix WWTP Slum Well Rcc Bottom Work Mix A-1 Line Work Mix R-6 Line Shai Marga Work Mix R-3 Line Shai Marga Work Mix R-6 Line Shai Marga Work Mix A-1 Line Rcc Top Slab Work Mix R-6 Line Rcc Top Slab Mork Mix R-6 Line Rcc Top Slab	ONTH OF FEBRUARY 2018 Deatails of Mix Location Structure B M30 Work Mix VWMTP Slum Well Rcc Bottom B M30 Work Mix VWMTP Slum Well Rcc Bottom B M25 Work Mix A-1 Line B M20 Work Mix R-6 Line Shai Marga B M20 Work Mix R-3 Line Shai Marga B M20 Work Mix R-3 Line Shai Marga B M20 Work Mix R-3 Line Shai Marga B M20 Work Mix R-4 Line Shai Marga B M20 Work Mix R-6 Line Shai Marga M20 Work Mix R-6 Line Shai Marga M25 Work Mix A-1 Line Rcc Top Slab M25 Work Mix A-1 Line Rcc Top Slab M25 Work Mix R-6 Line Rcc Top Slab <th>ONTH OF FEBRUARY 2018 Deatails of Mix Location Structure B M30 Work Mix VWMTP Slum Well Rcc Bottom B M30 Work Mix VWMTP Slum Well Rcc Bottom B M25 Work Mix A-1 Line B M20 Work Mix R-6 Line Shai Marga B M20 Work Mix R-3 Line Shai Marga B M20 Work Mix R-3 Line Shai Marga B M20 Work Mix R-3 Line Shai Marga B M20 Work Mix R-4 Line Shai Marga B M20 Work Mix R-6 Line Shai Marga M20 Work Mix R-6 Line Shai Marga M25 Work Mix A-1 Line Rcc Top Slab M25 Work Mix A-1 Line Rcc Top Slab M25 Work Mix R-6 Line Rcc Top Slab </th>	ONTH OF FEBRUARY 2018 Deatails of Mix Location Structure B M30 Work Mix VWMTP Slum Well Rcc Bottom B M30 Work Mix VWMTP Slum Well Rcc Bottom B M25 Work Mix A-1 Line B M20 Work Mix R-6 Line Shai Marga B M20 Work Mix R-3 Line Shai Marga B M20 Work Mix R-3 Line Shai Marga B M20 Work Mix R-3 Line Shai Marga B M20 Work Mix R-4 Line Shai Marga B M20 Work Mix R-6 Line Shai Marga M20 Work Mix R-6 Line Shai Marga M25 Work Mix A-1 Line Rcc Top Slab M25 Work Mix A-1 Line Rcc Top Slab M25 Work Mix R-6 Line Rcc Top Slab
	MTH OF FF M30 Work Mix M30 Work Mix M25 Work Mix M20 Work Mix M20 Work Mix M20 Work Mix M20 Work Mix M25 Work Mix	HE MONTH OF FI Date of Casting Deatails of Mix 22/1/2018 M30 Work Mix 22/1/2018 M30 Work Mix 22/1/2018 M20 Work Mix 28/1/2018 M20 Work Mix 29/1/2018 M25 Work Mix	FOR THE MONTH OF FF Date of Deatails of Mix S.N. Ref Voit Date of Casting Deatails of Mix 1 914 22/1/2018 M30 Work Mix 2 915 22/1/2018 M30 Work Mix 3 916 24/1/2018 M20 Work Mix 4 917 28/1/2018 M20 Work Mix 5 918 29/1/2018 M20 Work Mix 6 919 29/1/2018 M20 Work Mix 7 920 29/1/2018 M20 Work Mix 8 921 29/1/2018 M20 Work Mix 9 922 29/1/2018 M20 Work Mix 17 920 29/1/2018 M25 Work Mix 9 921 29/1/2018 M25 Work Mix 10 923 31/1/2018 M25 Work Mix 11 924 1/2/2018 M25 Work Mix 12 925 1/1/2018 M25 Work Mix 12 923 1/1/2018 M25 Work Mix 11



		P.G-1	SCALE OF Sample From														1			anager
	RUARY 2018	ol Test)	Compressive Strength N/mm2	10.3	10.4	10.1	10.2	10.5	10.6	10.2	10.8	10.5	10.2	10.5	10.6	10.8	10.7	10.4	> 10N/MM2	CTCE-KALIKA J/V Submitted by Project Manager Test conducted by Q.C Manager Contractor Reps
птопписицая анира litant City	e Month of FEB	S (Process Contro	BRAND NAME 1 st class brick	AMBEY	IS1077,IS2180or NS1/2035	S I														
ry Towns Integrated Uraban Environmental Improvement Toyow	TEST RESULT SUMMARY SHEET For the Month of FEBRUARY	COMPRESSIVE STRENGTH OF BRICKS (Process Control Test)	Chanage	Brick Drainage		ur ngineer n Nuben														
lary Lowns Inte Riv	SULT SUMMA	ESSIVE STRE	Location	R-26 Line	R-26 Line	B-2 Line	B-2 Line	B-2 Line	B-2 Line	B-2 Line	B-2 Line	B-2 Line	B-2 Line	B-2 Line	B-2 Line	B-2 Line	B-2 Line	B-2 Line		SMEC-Brisbane-AQUA-BDA-CEMAT Approved by Construction Supervision Engineer Test Checked by A.C.S.E
Seconda	TEST RE	COMPR	Date of Testing	1/2/2018	2/2/2018	3/2/2018	4/2/2018	5/2/2018	7/2/2018	7/2/2018	10/2/2018	12/2/2018	14/2/2018	16/2/2018	18/2/2018	20/2/2018	21/2/2018	22/2/2018	Specification	SMEC-Brisbane proved by Constru Test Chec Consultantr Reps
			Ref. STIUEIP LAB/	637	638	639	640	641	642	643	644	645	646	647	648	649	650	651	Specifi	App
			SN No	-	2	3	4	v	6	7	8	6	10	11	12	13	14	15	-	

SECONDARY TOWNS INTEGRATED URABAN ENVIRONMENTAL IMPROVEMENT PROJECT BiratnagarSub-Metropolitant City			Remarks																		-	*	
TAL IMPR	ERY	RY 2018	Time	Final(min.)	300	305	300	290	295	290	280	285	280	270	275	285	295	290	290	295	285	10 Hrs	anager Manager
CONMEN itant City	SUMM	FEBRUARY	Consistency & Setting Time		140	130	125	120	135	130	140	145	140	130	120	120	120	130	135	145	140	> 45 Min.	A J/V r Project Ma ted by Q.C : Reps
RATED URABAN ENVIRONMEN BiratnagarSub-Metropolitant City	CEMENT TEST SUMMERY	onth of F	Consisten	Norm. Const. Intial(min.)	38.7	38.6	39.0	38.9	39.1	39.3	38.9	39.3	38.9	38.7	38.9	38.7	38.6	38.9	39.0	38.7	38.9		CTCE-KALIKA J/V Submitted by Project Manager Test Conducted by Q.C Manager Contractores Reps
rED URAB atnagarSu	CEMEN	For the Month of	Testing	Date	2/2/2018	4/2/2018	6/2/2018	8/2/2018	10/2/2018	12/2/2018	14/2/2018	15/2/2018	16/2/2018	18/2/2018	20/2/2018	22/2/2018	24/2/2018	26/2/2018	27/2/2018	27/2/2018	28/2/2017		
TOWNS INTEGRAT			Description of cement		SHIVAM OPC	Requirements in accordance with BS 12	UA-BDA C.S.E NAS																
NDARY T			Lab. Ref.	NO.	MR 421	MR 422	MR 423	MR 424	MR 425	MR 426	MR 427	MR 428	MR 429	MR 430	MR 431	MR 432	MR 433	MR 434	MR 435	MR 436	MR 437	rements in ac	SMCE-Brisbane-AQUA-BDA Approved by C.S.E Test Checked by A.C.S.E Consultant Reps
SECO			1	0.N.	-	2	6	4	20	9	7	8	6	10	11	12	13	14	15	16	17	Requi	SMCE-F Approv Test Ch Consul



FEBRUARY 2018	REMARKS	0.15	5.20 source	5.60 om shree	6.00 Crusher Plant	5.20 Chisang Morang	5.60	5.20	5.20	4.40	4.80	5.60	6.00	4.80	5.20	5.60	5.20	0-10	12
Ъ		0.3	18.80	18.40	17.60	17.20	18.00	17.20	18.00	17.60	17.60	17.60	18.80	16.80	16.80	17.60	17.60	8 to 30	Mathematic
MONTH	ribution	0.6	43.60	43.60	43.20	41.60	41.60	40.00	38.80	38.00	37.20	37.60	42.00	39.60	39.60	38.00	38.40	35-59	
Biratnagar Sub-Metropolitant City Aggregates Sand FOR THE	Grain Siza Distribution	1.18	66.40	66.00	66.00	64.80	63.20	62.00	61.20	60.80	59.60	60.40	65.60	63.60	63.20	61.20	60.80	55-90	CTCE-KALIKA J/V Submitted by Protect
odo	Grain S	2.36	86.40	86.40	86.00	85.20	83.20	82.80	82.40	81.60	81.20	82.40	86.40	85.20	85.20	82.00	82.40	75-100	CTCE-K Submitt Test Co Contrac
s Sand		4.75	96.80	96.40	97.60	96.00	93.60	92.80	93.20	92.80	93.20	94.40	96.80	96.00	95.60	95.20	95.60	90-100	
tnagar : regate		10	100.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00	100-100	
Concrete Aggregates Sand	LAB	REF. NO:	531	532	533	534	535	536	537	538	539	540	541	542	543	544	545		they a
Summary of Fine Conc	DESCRIPTION / SOURCE		From WWTP Stock Yard	From WWTP Stock Yard	From WWTP Stock Yard	From A-1 Concrete Works	From A-1 Concrete Works	From A-1 Concrete Works	From R-6 Concrete works	From B-2 Concrete Works	Specifacation Limit is 383-1970 Zone -2	SMEC-BRISBANE-AQUA-CEMAT-BDA Approved by C.S.E Test Checked by A.C.S.E							
	z		۲	2	e	4	S	9	7	80	6	10	11	12	13	14	15	Specif	SMEC Appro

-	SECONDART LOWINS INTE	IS IN LEGRALED URADAN ENVIRONMENTAL IMPROVEMENT FROJEGI Biratnagar Sub-Metropolitant City P.G	Birati	Biratnagar Sub-Metropolitant City	o-Metrop	olitant C	ity			P.G-1
Su	Summary of Concrete Crushed		gate 20	Aggregate 20mm down		The Mo	For The Month of FEBRUARY 2018	EBRUA	RY 2018	
Z V	DESCRIPTION / SOURCE	LAB	0	Grain Size Distribution	Distributio	u	H	LAA	ACV	REMARKS
5		REF. NO.	25	20	10	4.75	%	%	%	
-	From WWTP Stock Yard	532	100	97.34	38.38	4.83	12.59	34.12	22.9	Aggregates
2	From WWTP Stock Yard	533	100	97.24	35.39	4.68	12.22	34.24	22.6	Source
e	From WWTP Stock Yard	534	100	97.75	35.89	5.14	12.63	32.32	22.5	Om shree
4	From A-1 Concrete works	535	100	97.01	36.89	4.45	13.04	32.60	22.7	CRUSHER
2	From A-1 Concrete works	536	100	97.22	36.11	5.81	12.87	32.88	23.0	
9	From A-1 Concrete works	537	100	97.85	35.60	4.99	12.69	34.12	23.3	PLANT
7	From A-1 Concrete works	538	100	97.93	37.37	4.44	13.77	34.40	23.2	
80	From R-6 Concrete Works	539	100	97.92	36.36	4.88	13.31	34.20	24.0	
6	From R-6 Concrete Works	540	100	97.86	36.43	5.73	12.92	34.32	23.8	
10	From R-6 Concrete Works	541	100	97.59	37.34	5.57	12.54	34.44	23.6	
11	From B-2 Concrete works	542	100	98.04	34.73	4.33	12.54	34.31	23.5	
12	From B-2 Concrete works	543	100	97.28	34.23	4.38	13.08	34.52	25.4	
	Section 900:IS 383-1970 Required		100	95-100	25-55	0-10	Less 15%	Less 35%	Less 30%	
SME Appr Test	SMEC-Brisbane-AQUA-CEMAT-BDA Approved by CSE Test Checked by A.C.S.E				CTCE-KALIKA J/V Submitted by Proj Test conducted by	LIKA J/V LIKA J/V d by Proje	CTCE-KALIKA J/V Submitted by Project Manager Test conducted by Q.C Manager	ger	1.7	

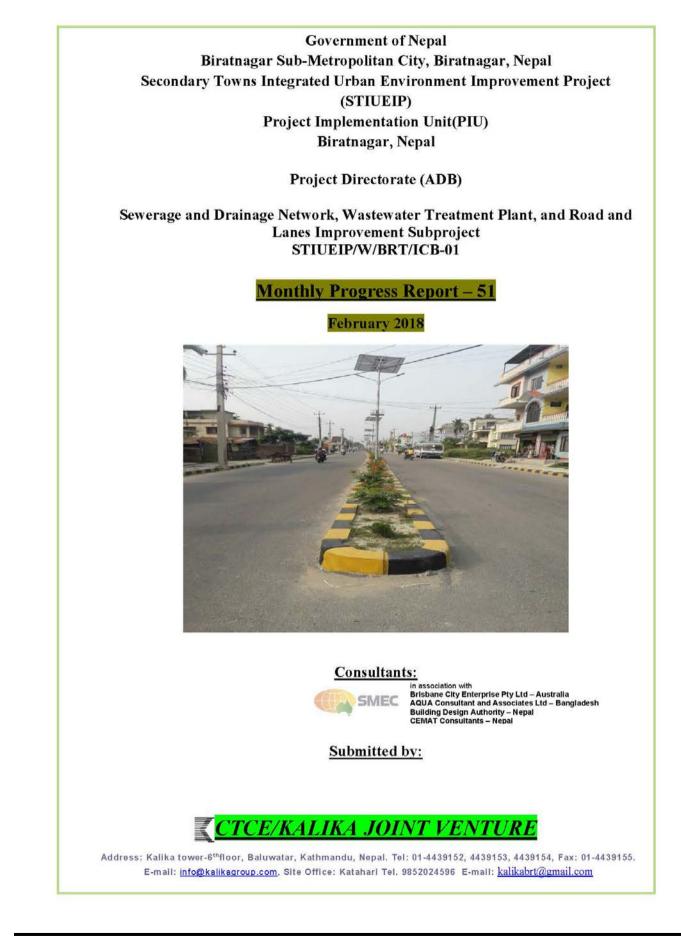
Secondary Towns Integrated Urban Environmental Improvement Project (STIUEIP) 5064023

			-	Remarks													-			5 N/MM2					-
		CUBE	P.G-1	28 day's cube crushing	Str. N/mm2	7.90	7.80	7.90	7.60	7.80	8.20	7.90	7.60	7.80	7.90	7.80	7.80	7.60	7.80	Required strength on 28 days not lees than 7.5 N/MM2		*	THE MAN	100 - 20 - 20 - 20 - 20 - 20 - 20 - 20 -	All PL
		WORK MIX C		7 day's cube Crushing	Str. N/mm2	5.70	5.60	5.40	5.30	5.40	5.40	5.30	5.40	5.30	5.20	5.30	5.20	5.30	5.40	Required strength		J.		IN THE MAN	9)
	City	SUMMARY OF MORTAR COMPRESSIVE STRENGTH TEST WORK MIX			Final(min.)	295	295	295	285	285	285	285	285	285	300	300	300	300	300	Max 600m	Max 600m		er	ager	6
INTEGRATED URABAN ENVIRONMENT IMPROVEMENT PROJECT	Biratnagar-Sub-Metropolitant City			Consistency & Setting Time	Intial(min.)	135	135	135	120	120	120	120	120	120	140	140	140	140	140	MIN 45m	MIN 45m		ect Manag	y Q.C Mana	8
				Consiste	Norm. Const. Intial(min.) Final(min.)	39.10	39.10	39.10	38.70	38.70	38.70	38.60	38.60	38.60	38.70	38.70	38.70	38.70	38.70			CTCE-KALIKA JN	Submitted by Project Manager	Test conducted by Q.C Manager	Contractore Reps
				Casting		29/1/2018	29/1/2018	29/1/2018	30/1/2018	30/1/2018	30/1/2018	31/1/2018	31/1/2018	31/1/2018	1/2/2018	1/2/2018	1/2/2018	1/2/2018	1/2/2018			CTCE-	Submi	Test c	Conti
				Details of MIX	Location/Structure		1:4 by volume					/													
			F FEBRUARY 2018				B2 Line		-	SDA	Ammoved hy Construction Supervision Engineer/CSE	N SK	X												
SECONDARY TOWNS			FOR THE MONTH OF FEBRUA	Name of	CEMENT	SHIVAM	SHIVAM	SHIVAM	SHIVAM	SHIVAM	SHIVAM	SHIVAM	SHIVAM	SHIVAM	SHIVAM	SHIVAM	SHIVAM	SHIVAM	SHIVAM			SMEC-Brisbane-AQUA-CEMAT-BDA	onstruction Supe	Test Checked by A.C.S.E	eps
0			TH TH			814	815	816	817	818	819	820	821	822	823	824	825	826	827			C-Brisban	D vd have	Checked	Consultants Reps
					S.N.	-	2	~	4	w	9	7	80	6	10	11	12	13	14			SMEC	Annr	Test	Cons

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ANNEX-4: Contractor's Progress Report for Feb, 2018







Progress Report No. 51

February 2018

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ANNEX

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Contractor: CTCE-KALIKA J.V. Site Office: Katahari, Judi

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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 Ioan 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

Contractor: CTCE-KALIKA J.V. Site Office: Katahari, Judi

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Progress Report No. 51

February 2018

3. SALIENT FEATURE

A. General Features	
	Government of Nepal(GoN),
	Ministry of Urban Development
Employer	Department of Urban Development and Building Construction
Funded By	Asian Development Bank & Government of Nepal
	Biratnagar Metropolitan City
	Secondary Towns Integrated Urban Environmental Improvement
Project	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	30 Nov 2017
Proposed Revised EOT	31 March 2018
Original Contract Period	900 Days
Original Contract amount with PS & VAT	NRs 2,391,332,117.06
Revised Contract amount after VO # 03. with PS & VAT	NRs 2,956,290,542.71



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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.
- c. 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. Where appropriate, the contractor shall provide all suitable facilities and accommodation for the staff and workmen and he shall make provision for all costs related to such provisions and for medical, re-location, taxes or other expenses.
- To provide all equipment, machinery, tools etc. and related spares maintenance and consumables necessary for implementation of the Works.
- i. 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.
- I. 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



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disruption or inconvenience to interested parties, including land owners, and there shall be no outstanding matters requiring attention.

5. PHYSICAL PROGRESS (ACHIEVEMENT TILL THE MONTH)

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

		Physic	al Progress Till Feb, 2	2018		
S.No.	Location	Final Proposed Length	Progr	ess	Total To Date	Progress (%)
5.110.	Location	rindi i roposed tengen	Upto Previous (m)	This Month (m)		
1	B1	3848	3848		3848	100
2	B2	3733	4213	116	4329	115.96
3	B3	3463	3463		3463	100
4	S5	1201	1201		1201	100
5	S9	2930	2930		2930	100
6	S11	1350.6	1462.6	90	1552.6	114.95
7	S13	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	1238.5	1238.5	90	1238.5	100
Тс	tal	33659.83	34251.83	296	34547.83	102.63

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6.Physical Progress in Road Side Drains:

1 - 1 - 1 - 1 - 1 - 1 - 1 - 1 - 1 - 1 -						Progress(%
n	h	Length(m)	Up to Previous(m)	This Month(m)	Date(m))
						100.00%
						99.03%
R4	1246		933.3		933.30	42.19%
R5	1068	2136	2136		2136.00	100.00%
R6	1280	2560	1500	200	1700.00	66.40%
R7	485	615	825		825.00	134.15%
R8	370	740	1267.1		1267.10	171.23%
R9D	116	232	232		232.00	100.00%
R13	220	440	433.85		433.85	98.60%
R16	580	1160	1160		1160.00	100.00%
R21	2420	2420	2420		2420.00	100.00%
R22	359	718	718		718.00	100.00%
R24	390	780	780		780.00	100.00%
R25	594	1188	1180		1180.00	99.33%
R26	620	1240	1240		1240.00	100.00%
R27	977	1954	1954		1954.00	100.00%
R28	620	1240	908.35		908.35	73.25%
R29	620	1240	1590.1	25	1615.1	130.25%
R30	328	656	600		600.00	91.46%
R31	187	374	374		374.00	100.00%
R32	189	378	110	140	250.00	66.13%
R37	785	1570	1570		1570.00	100.00%
R64	120	120	120		120.00	100.00%
R78	92	184	82		82.00	44.57%
R107	157	314	315		315.00	100.32%
R108	96		190		190.00	98.96%
R109	90	360	355		355.00	98.61%
T2L180		286	268		268.00	93.71%
	93	186	48		48.00	25.81%
			110001			98.87%
T2L19P	103	206	468.05		468.05	227.21%
T2L19U	81	162	162		162.00	100.00%
T3L28	74	148	145		145.00	97.97%
R42			281.6		281.60	
R104			590.70		590.70	
		36198		365		101.02%
	R					105.92%
ixcluding R6 ning of R4	&	31426			33288.65	
	Locatio n R2 R3 R4 R5 R6 R7 R8 R9D R13 R16 R21 R22 R24 R25 R26 R27 R26 R27 R28 R29 R30 R31 R32 R37 R64 R37 R32 R37 R32 R37 R30 R31 R32 R37 R31 R32 R37 R30 R31 R32 R37 R30 R31 R32 R37 R30 R31 R32 R37 R30 R31 R32 R37 R32 R37 R32 R37 R32 R37 R32 R37 R32 R37 R32 R37 R32 R37 R32 R37 R32 R37 R32 R37 R32 R37 R32 R37 R32 R37 R32 R37 R44 R78 R107 R108 R109 T2L180 T3L26E T3L19R T2L19P T2L19U T3L28 R42 R104 R73 T2-L26F Total xcluding R6	Locatio n Lengt h R2 3240 R3 2233 R4 1246 R5 1068 R6 1280 R7 485 R8 370 R9D 116 R13 220 R16 580 R21 2420 R22 359 R24 390 R25 594 R26 620 R27 977 R28 620 R30 328 R31 187 R32 189 R37 785 R64 120 R78 92 R107 157 R108 96 R109 90 T2L180 143 T3L19R 177 T2L19U 81 T3L28 74 R42 R104 <	Locatio n Lengt h Total Length(m) R2 3240 6840 R3 2233 2993 R4 1246 2212 R5 1068 2136 R6 1280 2560 R7 485 615 R8 370 740 R9D 116 232 R13 220 440 R16 580 1160 R21 2420 2420 R22 359 718 R24 390 780 R25 594 1188 R26 620 1240 R27 977 1954 R28 620 1240 R30 328 656 R31 187 374 R32 189 378 R37 785 1570 R64 120 120 R78 92 184 R107 1	Locatio n Lengt h Total Length(m) Progress Up to Previous(m) R2 3240 6840 6840 R3 2233 2993 2964 R4 1246 2212 933.3 R5 1068 2136 2136 R6 1280 2560 1500 R7 485 615 825 R8 370 740 1267.1 R9D 116 232 232 R13 220 440 433.85 R16 580 1160 1160 R21 2420 2420 2420 R22 359 718 718 R24 390 780 780 R25 594 1188 1180 R26 620 1240 1240 R27 977 1954 1954 R30 328 656 600 R31 187 374 374	n h Length(m) Up to Previous(m) This Month(m) R2 3240 6840 6840 R3 2233 2993 2964 R4 1246 2212 933.3 R5 1068 2136 2136 R6 1280 2560 1500 200 R7 485 615 825 1 R8 370 740 1267.1 1 R9D 116 232 232 1 R13 220 440 433.85 1 R14 580 1160 1160 1 R21 2420 2420 2420 2420 R22 359 718 718 1 R24 390 780 780 1 R25 594 1188 1180 1 R26 620 1240 908.35 1 R30 328 656 600 1 <td>Locatio n Lengt h Total Length(m) Progress Up to Previous(m) This Month(m) Total to Date(m) R2 3240 6840 6840 6840.00 R3 2233 2993 2964 2964.00 R4 1246 2212 933.3 933.30 R5 1068 2136 2136 2136.00 R6 1280 2560 1500 200 1700.00 R7 485 615 825 825.00 825.00 R8 370 740 1267.1 1267.10 1267.10 R9D 116 232 232 232.00 1180.00 R16 580 1160 1180 1180.00 1260.00 R21 2420 2420 2420.00 2420.00 2420.00 R22 359 718 718 718.00 780.00 R25 594 1188 1180 1180.00 1240.00 R26 620 1240 <t< td=""></t<></td>	Locatio n Lengt h Total Length(m) Progress Up to Previous(m) This Month(m) Total to Date(m) R2 3240 6840 6840 6840.00 R3 2233 2993 2964 2964.00 R4 1246 2212 933.3 933.30 R5 1068 2136 2136 2136.00 R6 1280 2560 1500 200 1700.00 R7 485 615 825 825.00 825.00 R8 370 740 1267.1 1267.10 1267.10 R9D 116 232 232 232.00 1180.00 R16 580 1160 1180 1180.00 1260.00 R21 2420 2420 2420.00 2420.00 2420.00 R22 359 718 718 718.00 780.00 R25 594 1188 1180 1180.00 1240.00 R26 620 1240 <t< td=""></t<>



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S.No.	Location	Asp	er VO-3	Upto Pre	vious Month	This	Month	Upda	ate Work	%	work	Remarks
		Distance	Manhole No.									
1	HDPE (T1)	3817	127	3819.5	125	C	0	3825	127			
2	HDPE (T2)	13595.4	485	13100.7	454	50	0	13100.7	460			
3	HDPE (T3)	6947.1	258	6720.1	242	C	0	6720.1	246			~
4	HDPE (T4)	117.3	3	112	3	C	0	112	3			
5	Subtotal (HDPE)	24476.9	873	23757.8	824	50	0	23757.8	836	97.15	95.76	2
6	Hume Pipe (T1)	5026.8	144	4761.2	125	C	0	4800.2	130		_	
7	Hume Pipe (T 2)	9488	276	9442.4	229	700	7	9442.4	236			
8	Hume Pipe (T3)	4493.3	136	3981.5	99			3981.5	99			
9	Hume Pipe (T 4)	183.5	5	185	5		0	185	5			
10	Subtotal (Hume Pipe)	19191.6	561	18409.1	458	700	7	18409.1	470	95.92	83.77	
11	Total (HDPE + Hume Pipe)	43668.5	1434	42089.35	1282	750	7	42166.9	1306	96.56	91.07	

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

SN	Description	Unit	Total Upto Previous Month	This Month	Total Up to this Month	Remarks
1	Sewer Inlet	Nos.	2358	12	2370	
2	House Connection	Nos.	2118	50	2168	

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		3601.00	0	3601.00	
2	Gravel road	Rm		38140.00	0	38140.00	
	Total	RM	44643.00	41341.00	0	41741.00	93.49%

Contractor: CT CE-KALIKA J.V. Site Office: Katahari, Judi

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

			Progru	ess			
S.No.	Description	As per VO-3 quantity	Upto Previous Month	This Montl	Update work n	: % work	Remarks
1	Anaerobic Pond	3	3		3	100	
2	Facultative Pond	3	2.67		2.9	96.6	
3	River Training Work	600	600		600	100	
4	Boundary Wall	1330	1283		1283	96.4	
5	Office cum Lab Building	1	1		1	100	
6	Workshop Building	1	1		1	100	
7	Generator/Charging Hou	se 1	1		1	100	
8	Sump Well	1	0.7		0.7	70	Remaining work under progr
9	Sludge Drying Bed	1	0.92		0.98	98	Plaster Work under progress
10	Road Side Drain	2880	1491.		1551.:	L 53.85	
11	Bio-engineering Works	1			0.5	50	
12	Guard House	1	0.9		0.9	90	

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	

Contractor: CTCE-KALIKA J.V. Site Office: Katahari, Judi

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F.Hume Pipe Production from Hume Pipe Production Factory, Itahari

SN	1	2	3	4	5	6	7	8	9	10	11
Diameter	200mm	300mm	350mm	400mm	450mm	500mm	600mm	700mm	900mm	1000mm	1600mm
	nos	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 on DLP .
- 2. Sump well Work and other structures in WWTP, Jatuwa.
- 3. Sewer pipe lines, Inlet and House Connection laying.
- 4. RCC Drain work in R6, Brick Work in R29 and R32.

Contractor: CT CE-KALIKA J.V. Site Office: Katahari, Judi

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FINANCIAL PROGRESS AND CASH FLOW

		Financial Pro	ogress		
SN	Installment	Total Bill Amount With	Net Payable Amount	%	Remarks
SIN	Number	Vat and PS(NRs)	(NRs.)	70	Remarks
					Advance
					Payment
1	IPC 01		200,940,000.00		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
28	IPC-28	84960602.31	80,073,488.03		IPC-28
29	IPC-29	131945614.3	124,355,822.35		IPC-29
Total amo	ount of lpc=	2,786,105,509.81	2,617,382,803.53	94.24%	

Contractor: CTCE-KALIKA J.V. Site Office: Katahari, Judi

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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
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
28	IPC-28	84960602.31	80,073,488.03		IPC-28
28	IPC-29	131945614.31	124,355,822.35		IPC-29
29	WIP	100,000,000			
	Total amount of Ipc=	2,886,105,509.81	2,617,382,804	97.63%	
			Cont	ractor: CTCE-K	A111/A 13/

Contractor: CTCE-KALIKA J.V. Site Office: Katahari, Judi

February 2018

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 Lepchan	Overseer
12	Sanjay Shrestha	Overseer
13	Bibekananda Yadav[Nikhil]	Overseer
14	Prakash Bhattarai	Sub Overseer
15	Sandesh Sunam	Sub Overseer
16	Pritam Sunrait	Sub Overseer
17	Vishwa Bandhu Mainali	Finance Officer
18	Anil Pokharel	Safety In Charge / PRO
19	Sunil Chaudhary	Quality Control Manager
20	Shanker Chaudhary	Lab Technician
21	Dipesh Dahal	Lab Assistant
22	Rabin Pandit	Lab Assistant
23	Mahesh Pandit	Store Keeper
24	Saroj Bhattarai	Store Keeper
25	Sailesh Paudel	Store Keeper



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26	Dipendra Karki	Store Assistant
27	Rabin Bdr Gurung	Store Keeper
28	Dhurba Raj Bhattarai	Store Keeper
29	Nil Prasad Neupane	Store Keeper
30	Ananda Rajbansi	Electrician
31	Ajay Chaudhary	Welder
32	Mechanics	4
33	Plumber	6
34	Light Vehicle Driver	4
35	Tipper Driver	16
36	Water Tanker Driver	5
37	Tractor Driver	15
38	Heavy Equipment operator	32
39	Helper	54
40	Cook (Casting yard and Jatuwa)	8
41	Security Guard (casting yard and Jatuwa)	4
42	Skilled Labor	30
43	Unskilled Labor	60

Contractor: CTCE-KALIKA J.V. Site Office: Katahari, Judi

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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		
	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	Motorbikes		
	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

rogre	ss Report No. 51		Februa
	Honda Shine Ve 1 Pa 8845	125cc	1
	Glamor (Ko 24 3802	100 cc	1
	Glamor (Ko 24 3804)	100 cc	1
A.8	Tractors		
	Tractor Ko 1Ta 5868	85HP/ Hydraulic	1
	Tractor Na 3 7936	85HP/ Hydraulic	1
	Tractor Ko1Ta 4145	85HP/ Hydraulic	1
	Tractor Ko 2 Ta 4065	85HP/ Hydraulic	1
	Tractor Ko1Ta 7655	85HP/ Hydraulic	1
	Tractor Ko1Ta 8882	85HP/ Hydraulic	1
	Tractor Na1Ta 6204	85HP/ Hydraulic	1
	Tractor Ko1Ta 1755	85HP/ Hydraulic	1
	Tractor Ko1Ta 3440	85HP/ Hydraulic	1
A.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
A.10	Tipper Truck		
	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
в	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		1



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SMEC

Lab Equipment

	JCB Hydra Lift all	15Ton	1	
С	Concreting Unit			н. I.
	Manual Mixture Machine[Everest]		10	J.
	Manual Mixture Machine [Ashoka]		2	К. L.
	Hydraulic Mixture Machine[Universal]		3	М. N.
	Hydraulic Mixture Machine[Kirloskar]		2	0.
	Bar Bending Machine Set	4Ton/Hrs	3	
	Bar Cutter Machine Set	4Ton/Hrs	3	
	Concrete Vibrator with Needle	Diesel/3PHs/Pneumatic	10	
D	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)	<u> </u>	1	
Е	Survey Equipment	-		
	Total Station		2	
	Level Machine		15	

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Contractor: CTCE-KALIKA J.V. Site Office: Katahari, Judi

1 Set

February 2018

10.CONCLUSION

The progress of outstanding work and Sump well work at WWTP was speed up to meet our targeted work progress.

Contractor: CTCE-KALIKA J.V. Site Office: Katahari, Judi

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<u>ANNEX</u>

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Contractor: CTCE-KALIKA J.V. Site Office: Katahari, Judi

SMEC

Secondary Towns Integrated Urban Environmental Improvement Project (STIUEIP) 5064023

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Road Crossing at R6



B2 – Backfilling

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Afte Raft Concreting at Sump well



During Raft Concreting Sump Well



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S11 Work

Capping in R32



Water Maintainence at R3



A1 Works

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