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 (June, 2016)

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



06 July, 2016

Biratnagar Sub - Metropolitan City, Nepal

AUSTRALIA | ASIA | MIDDLE EAST | AFRICA | PACIFIC

Project Name:	Secondary Towns Integrated Urban Environmental Improvement Project (STIUEIP)	
Project Number:	56064023	
Report for:	Biratnagar Sub Metropolitan City, Nepal	

PREPARATION, REVIEWand AUTHORISATION

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1. SALIENT FEATURE of Contract Package: STIUEIP/W/BRT/ICB-01

General Features	
Name of Project	Secondary Towns Integrated Urban Environmental Improvement Project(STIUEIP)
Executing Agency	Government of Nepal, Ministry of Urban Development Department of Urban Development and Building Construction (DUDBC)
Implementing Agency	Biratnagar Sub-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 Sub-Metropolitan City, Biratnagar
Consultant	SMEC in association with Brisbane/AQUA/BDA/CEMAT
Contractor	CTCE-KALIKA Joint Venture
Date of Commencement	8 th December, 2013
Original Date of Completion	25 th May, 2016
Original Contract Period	900 days from date of commencement
Original date of Completion	09 th March, 2017
Original Contract Amount with PS and VAT	NRs. 2,391,332,117.06
Variation Order No 01 with VAT	NRs 99,753,095.43
Total Contract Amount with VO 01 including PS and VAT	NRs. 2,491,085,212.49
Variation Order No 02 including PS and VAT)	
	NRs. 228,531,856.73
Revised Contract Amount including PS and VAT (After VO-2)	NRs 2,719,617,069.21
Paid Amount up to IPC 17	NRs. 1,544,433,982.01 (Including PS & VAT)
Financial Progress wrt VO-02 Physical Progress till June, 2016	56.79% 59.10%

2 INTRODUCTION/BACKGROUND

1. SMEC International Pty (Australia)in association with Brisbane City Enterprise Pty Ltd (Australia), AQUA Consultant and Associates Ltd (Bangladesh),Building Design Authority (Nepal) and CEMAT Consultants(Nepal) have entered for a Contract of Consulting Services with Secondary Towns Integrated Urban Environmental Improvement Project (STIUEIP),Project Implementation Unit(PIU), Biratnagar Sub metropolitan City on 7th December 2011. This monthly Progress Report of June, 2016 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.

2. 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 Ioan 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 Submetropolitan 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, 2013as: Government of Nepal (GoN) is 5.960 Million USD, Asian Development Bank(ADB)24.214 Million USD, TDF Ioan 4.098 Million USD and Biratnagar Sub-

3. In line with ADB's Strategy 2020 and based on Nepal's fundamental longterm 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 07December 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

• Contractor's Work Program (Revision 02) 05 December 2014, this has to be revised as the work progress is not consistent. The Contractor is advised to revise the work program and it is expected to receive by the end of August 2015. The Contractor has officially submitted the third (3rd) revised work program through the Contractor's letter in 15th September 2015 (received on 23rd September 2015). The third revised work program is under review.

3. SUB-PROJECTCOMPONENTS

3.1 Sewer Lines

4. The prioritized sewer lines for Final Detailed Engineering Report of BSMC are as follows:

SN.	Description	Unit	Quantity
1	Sewerage Pipe Supply and Installation	m	63,964.0
	Reinforced Concrete Pipe laying and jointing		16,612.0
	Line T1 (Secondary	m	3,788.0
	Line T2 (Trunk)	m	8,370.0
	Line T3 (Trunk)	m	4,136.0
	Line T4 (Secondary)	m	318.0
	HDPE laying and jointing	m	47,352.0
	Line T1 (Secondary	m	7,124.0
	Line T2 (Trunk)	m	19,410.0
	Line T3 (Trunk)	m	18,606.0
	Line T4 (Secondary)	m	22,12.0
2	Manhole (Brick / RCC)	no.	2,036
3	Sewer Inlet	no.	3,766.00
4	House Connection	no.	5,930.00
5	Reinstatement of Roads	km	66.06

Table1: Proposed Sewer Lines in BSMC



FIGURE. 1PROPOSED SEWER LINES IN BSMC



3.2 Storm Water Drains

4. 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 are14 numbers and catchment areas and discharges are respectively1, 324.2Ha and 73.21 cum/sec.

Table2: Proposed Storm Water Drains in BSMC

S.No.	Description	Unit	Quantity
А	Storm Drain for Northern Parts		28,491.00
-	Storm Drain Lines	m	28,491.00
=	Culvert	no	41
Ξ	Outfall	no	15
IV	Rain Inlet	no	30
V	Manhole	no	30
VI	Canal Crossing	no	11
В	Storm Drain for Southern Part		
I	Brick Masonry Drain	m	8,483
=	Cleaning and Maintenance of Existing Drain	m	7,273
III	Culverts	no	38
С	Rehabilitation of Existing Drain		
Ι	Drain Cover	m	30,467
II	Cleaning and Maintenance of Existing Drain	m	33,601



Figure 2: Proposed Storm Water Drains in BSMC (Northern Drainage System)



Figure 3: Proposed Storm Water Drains in BSMC (Southern Drainage System)



WASTE WATER TREATMENT PLANTS 3.3

5. 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 are as only is estimated at 213.97 LPS. The capacity of the Phase I WWTP has been adopted as 214 LPS. The capacity of the Phase II WWTP will be thus 436 LPS. Features of WWTP at Jatuwa are as follows:

Table 3: Proposed Waste Water Components in BSMC

S.N.	Description	Unit	No
	Waste Water Treatment Plant Component		
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	sqm	99,915
24	Site clearance, grubbing, surface dressing	sqm	99,915

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25	Road and Drain Improvement	m	1,440
26	River training works	m	600
27	Electromechanical works	Set	1
28	Lab Equipment and installation	Set	1

June 2016



Figure 4: Proposed Waste Water Treatment Plant at Jatuwa in BSMC

3.4 Roads and Lanes

6. 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. Almost necessary streets are already constructed and hence the Project has considered on design based on reinstatement, rehabilitation and upgrading of existing roads and lanes.

Table 4: Proposed Roads in BSMC

Description of Item	Quantity
Main Road Improvements(Road from Puspalal Chowk to Bhatta Chowk)	2.35 Km
Reinstatement and Road Improvements (under sewer line installation)	63.71Km

3.5 Environmental Aspect

7. The project is environmental improvement project and mainly constitutes works on sewerage and drainage improvement works in BSMC besides others. As per ADB guide lines on Environmental Assessment requirements, this project is classified as Environment Category B. According to Environmental Protection Guidelines, 2054BS, First Revised (2055BS) schedule-3, IEE is required for Operations of Sewerage Schemes under Schedule1.h.2.e (pertaining to Rule3). The final report on IEE was submitted and MoUD had approved the IEE on May14, 2013.

8. 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 in habitants and facilitate transportation. Nevertheless, it is imperative to look into positive as well as negative impacts of such infrastructure development works in the urban area.

10. 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 will be submitted soon.

3.6 SOCIAL ASPECT

11. 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 Sub-Metropolitan City (BSMC). 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).

12. As there is slack period of the construction due to monsoon, Currently, the drain work has been stopped due to rain water and construction materials.

3.7 Financial Plan

13. 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 and 56.79% (up to May, 2016). Hence the remaining disbursement 43.21 % will be done in third year.

3.8 DISBURSEMENT RECORDS IN CONSTRUCTION

.N.	Description of Payment	Total Bill Amount with VAT & PS	Amount in NRs.
1	IPC 01		209,400,000.00
2	IPC 02	29,553,479.92	27,853,500.98
3	IPC 03	50,406,775.75	47,507,270.95
4	IPC 04	44,819,505.68	42,241,392.52
5	IPC 05	23,380,168.96	22,035,291.99
6	IPC 06	90,796,339.68	85,573,541.38
7	IPC 07	80,854,600.52	76,203,672.17
8	IPC-08	122,334,488.86	115,297,549.23
9	IPC-09	116,092,187.14	109,414,317.97
10	IPC-10	132,327,417.89	124,715,663.77
11	IPC-11	169,853,829.07	160,083,476.07
12	IPC-12	23,121,515.46	16,931,906.24
13	IPC-13	85,563,926.44	62,658,539.06
14	IPC-14	163,562,505.71	119,776,967.67
15	IPC-15	139,008,112.96	101,795,764.14

Table 5: Disbursement Record in Construction to Date

June 2016

16	IPC- 16	137,640,413.95	100,794,196.94
17	IPC-17	135,118,714.02	98,947,553.85
	Total payment to date including PS & VAT and Excluding mobilization	1,544,433,982.01	1,311,830,604.92

4. OBJECTIVES AND SCOPE OF WORKS

4.1 **OBJECTIVES**

- 14. The following are the expected physical infrastructure improvement outputs of the project in Biratnagar:
 - Drainage and sewerage systems improved.
 - Urban roads and lanes improved.
- 15. 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

- 16. 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

17. The Contractor has resumed the works from mid December 2015 in difficult situation due to Madesh Strikes and partial fuel supply. Storm drains at B1, B2, B3, S9, S5 and Rani Area are being continued.

The contractor has completed storm water drain about 29.550 km out of 36.974km, 79.92% till June, 2016.

5.2 Sewer Lines

18. The Contractor has resumed the sewer works from mid December 2015 in difficult situation due to Madesh Strikes and partial fuel supply. Sewer lines with HDPE pipes are being continued as well as RCC pipes are also being continued with full strength.

The Contractor has completed sewer lines with HDP and RCC pipes about 29.207km out of 63.964 km which is 45.66%, till June, 2016.

The proposal of the precast concrete manholes, sewer inlets and house connection chambers has been submitted for review and approval. A conditional approval in consultation with the Employer has been given to the Contractor to prepare few numbers and to demonstrate at site. If 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. Now, the Consultant has been approved the same as revised design.

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

19. Office cum laboratory building, workshop building and generator / changing house at WWTP, Jatuwa are completed. The Contractor had stopped activities except compound wall of WWTP site.

Now the Contractor is carrying out landscaping, embankment filling, remaining boundary wall at WWTP from mid December 2015. Structure work in Sump well has been revised as per site condition.

5.4 ROAD AND LANES IMPROVEMENT WORKS

20. 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 Bhatta Chowk on both sides. During the monsoon, the Contractor has continued to excavate



the trenches for electric poles but the rate of the progress is in a very slow pace. The Contractor has assured that the road works on R2 road will not be affected due to delay in shifting of the electric poles.

The Contractor has been completed sub-grade preparation, sub-base, base course, prime and Tack coat and asphalt concrete in R2 road up to batta chowk. Road works have been frequently disturbed due to the existing water supply network and house connection pipes. The Contractor has completed 100% of road side drain of R2 road up to Pani tanki and along the sewer lines about 13.840km out of 127.138 km, 10.88% till June, 2016.

5.5 CONSTRUCTION MATERIALS

21. The fabrication of steel moulds for precast units- manholes, sewer inlets and house connection chamber are continuing after the strikes at Madesh / Tarai similarly, other item of works inside the Contractor's yard is also going on smoothly..

The Contractor has resumed to produce the precast items (manholes, sewer inlets, house connection chambers, kerb stones, drain cover slabs etc.) at the Contractor's Camp, Katahari from mid December 2015.

5.6 CONSTRUCTION MATERIAL TESTING LAB

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

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

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

5.7 PHYSICAL PROGRESS TILL JUNE, 2016

23. Total physical progress till June 2016 is about 59.10% whereas the cumulative planned progress till 25th May 2016 is 100%, wrt work program rev. no 03. The progress of the work is lagging behind by 40.90%. (After EOT, **Revised work scheduled has to be provided**).

Table 6: Plan vs. Actual Progress till June 2016

	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 (%)	umulative Actual chievements (%) 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 34.317 34.317 34.317 34.317															
Progress lagging to date wrt revised work plan rev 03 (%)	the	(12.53)	(17.30)	(3.27)	(7.54)	(11.17)	(15.40)	(19.69)	(23.75)	(22.98)	(22.98)	(22.98)	(7.53)	(11.13)	(13.45)	(23.09)



June 2016

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						
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							
Cumulative Actual Achievements (%)	Imulative Actual 35.64 38.97 42.57 51.07 54.30 59.10												
Progress lagging to date wro revised work plan rev 03 (%)	the	(33.87)	(41.70)	48.89	46.75	45.70							



Figure 5: Plan Vs Actual Progress till June, 2016



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 6: Organization and Staffing of STIUEIP, Biratnagar

6.2 Inception Report

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

6.3 CONCEPTUAL CATCHMENT PLAN AND DESIGN CRITERIA

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

6.4 SURVEY

26. The survey was completed in August, 2012

6.5 DESIGN

27. The design of sewer lines, storm drains, WWTPs and appurtenances and final detailed design and estimates were submitted in March 2013.

28. 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**

29. 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

30. 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.

31. The total cost as per PPTA and earlier designs increased drastically and came to beNRs.7, **274,465,206.69** and therefore needs curtailments and revisions had to be made as per suggestions by PIU in final report.

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

6.8 FINAL REPORT

33. 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.

34. The sharing of cost by concerned institutions is as follows

Table7: Agency-wise Financial Contribution to BSMC

Contributors	Amount(US\$)	Amount (NRs.)	%
Government of Nepal (GoN)	5,960,256	524,502,513	16.0%
Asian Development Bank (ADB)	24,213,539	2,130,791,460	65.0%
Biratnagar Sub-Metropolitan City (BSMC)	2,980,128	262,251,257	8.0%
Town Development Fund (TDF)	4,097,676	360,595,478	11.0%

6.9 CONSULTANT'S ACTIVITIES IN CONSTRUCTION PHASE

35. 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	Giresh Chand	Officiating Team Leader/CSE
2	Jaya Prakash Yadav	Asst. Construction Supervision Engineer-1
3	Dikendra Katwal	Asst. Construction Supervision Engineer-2
4	Rajesh Yadav	Junior Engineeer-1
5	Sujan Shrestha	Junior Engineeer-2
6	Saroj Bhattarai	Junior Engineeer-3
7	Jay Prakash Yadav	Junior Engineeer-4
8	Santosh Yadav	Office Manager
9	Ramji Gimire	Driver-1
10	Suman Ghimire	Driver-2
11	Ramila Ghimire	Office Assistant

- 36. The consultant has been constantly supervising the contractor's work in daily basis. The consultant is mainly focusing in construction management, contract administration and the following activities but not limited as listed below:
 - i. Daily Construction supervision
 - ii. Quality control, cost control and time control
 - iii. Measurement and Certification of Interim Payment Certificates (IPC)
 - iv. Modification and design of storm drainage and sewer lines, manholes etc. as per site condition and approve working drawings
 - v. Supervise construction material testing and sampling
 - vi. Monitor Environment Management Plan and its compliance
 - vii. Monitor Social safeguard and Resettlement Plan and its compliance
 - viii. Meet obligation of reporting requirement Updated Environmental Progress Report, Updated Resettlement Progress Report, Monthly Progress Report, Semi-Annual Updated Resettlement Progress Report
 - ix. Prepare Due Diligence Report of the Project
 - x. Maintain correspondences with the Employer and the Contractor
 - xi. Assist to PIU

6.10 KEY DATES

The consultant has noted the following key dates for the month of June 2016

Table 9: Ke	y dates of	events	/activities:
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S. No	Date	Activities/Events	Remarks
1	From 10/06/2016 To 12/06/2016	Technical Auditor Mr.Anand Mohan Lal Das has Visited the site	
2			

7DETAILS OF ACTIVITIES CARRIED OUT IN THIS MONTH

	Physical Progress till June 2016									
		Dranaad	Progr	ess						
S.N.	Location	Length (m)	Up to May 2016 (m)	This Month (m)	Total to Date (m)	Progress (%)				
1	B1	3,950	3,628.00	0	3628.00	91.85				
2	B2	3,742	3,724.00	0	3724.00	99.52				
3	B3	3,514	3,363.00	0	3363.00	95.69				
4	S5	1,932	1,172.00	0	1172.00	60.67				
5	S9	3,178	2,104.00	16.00	2120.00	66.71				
6	S11	2,092	2,082.00	0	2082.00	99.52				
7	S13	5,640	4,864.00	0	4864.00	86.23				
8	CN2	2,273	2,132.00	10.00	2142.00	94.24				
9	CN3	2,170	1,112.00	0	1122.00	51.71				
10	Rani	8,483	5259.00	74.00	5333.00	62.87				
	Total	36,974	29,450.00	855.00	29550.00	79.92				

7.1 PHYSICAL PROGRESS IN THIS MONTH Table 10: Physical Progress in Storm Water Drains:

Table 11: Physical Progress in Road Side Drains:

	Physical Progress till June 2016										
				Prog	iress						
S.N.	Location	Length (m)	Total Length (m)	Up to May 2016 (m)	This Month (m)	Total to Date (m)	Progress (%)				
1	R2	6,440.0	12,880.0	6,325.0	0	6,325	49.11				
2	R3	3,393.0	6,786.0	1,007	484	1,491	21.97				
3	R4	970.0	1,940.0	660	0	660	34.02				
4	R5	1,715.0	3,430.0	700	0	700	20.41				
5	R13	220.0	440.0	390	0	390	88.64				
6	R15	506.0	1,012.0	406	0	406	40.12				
7	R16	796.0	1,592.0	200	90	290	18.22				
8	R22	358.0	716.0	136	178	314	43.85				
9	R24	396.0	792.0	180	106	286	36.11				
10	R25	606.0	1,212.0	150	58	208	17.16				
11	R26	861.0	1,722.0	833	65	898	52.15				
12	R27	997.0	1,994.0	450	125	525	26.33				
13	R64	121.0	242.0	121	0	121	50.00				
14	R107	347.0	694.0	81	74	155	22.33				
15	T2L18O	150.0	300.0	204	64	268	89.33				
16	T3L26C	197.0	394.0	355	0	355	90.03				
SME	EXAMPLE 26										

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17	T3L26E	98.0	196.0	48	0	48	24.49
18	T3L26F	137.4	274.8	205	0	205	74.60
19	T3L28	74.0	148.0	145	0	145	97.97
20	Boundary Wall	1,322.7		1,053	80	1,133	85.66
21	Road Side Drain	127,138		12,596	1,340	13,936	10.96

Table 12: Physical Progress in Sewer Lines:

		As per	estimate	Update	e work	%	work	Reming Quantity			
S.N.	Location	Distance	Manhole No	Distance	Manhole No	Distance	Manhole No	Distance	Manhole No		
1	HDPE (T1)	7124.00	220.00	3186.80	107.00	44.73	48.64	3937.20	113.00		
2	HDPE (T2)	19410.00	663.00	11047.75	390.00	56.92	58.82	8362.25	273.00		
3	HDPE (T3)	18606.00	597.00	6024.90	215.00	32.38	36.01	12581.10	382.00		
4	HDPE (T4)	2212.00	72.00	112.00	3.00	5.06	4.17	2100.00	69.00		
5	Sub Total (HDPE)	47352.00	1552.00	20371.45	715.00	43.02	46.07	26980.55	837.00		
6	Hume pipe(T1)	3788.00	106.00	1726.50	47.00	45.58	44.34	2061.50	62.00		
7	Hume pipe(T2)	8370.00	247.00	4967.50	115.00	59.35	46.56	3402.50	132.00		
8	Hume pipe(T3)	4136.00	123.00	2141.30	45.00	51.77	36.59	1994.70	78.00		
9	Hume pipe(T4)	318.00	8.00	0.00	0.00	0.00	0.00	318.00	8.00		
10	Sub Total (Hume pipe)	16612.00	484.00	8835.30	207.00	53.19	42.77	7776.70	277.00		
11	Total (HDPE + Hum pipe)	Imple Imple <th< td=""><td>29206.75</td><td>922.00</td><td>45.66</td><td>45.28</td><td>34757.25</td><td>1114.00</td></th<>		29206.75	922.00	45.66	45.28	34757.25	1114.00		

Physical Progress till June 2016														
		Deserved	Prog	ress										
S.N.	Description	Quantity (no)	Up to May 2016 (no)	This Month (no)	Total to Date (no)	Progress (%)								
1	Manholes	2036	919	3.00	922.00	45.28								
2	Sewer Inlet	3766	1,289	162.00	1,451.00	38.53								
3	House Connection Chamber	5930	1,339	222.00	1,561.00	26.32								

Table 13: Physical Progress in Manholes, Sewer Inlet and House Connection Chamber:

Table 14: Physical Progress in Roads and Lanes:

Physical Progress till June 2016													
		Dranaad	Pro	gress		Pro							
S.N.	Location	Length (km)	Up to May 2016 (m)	This Month (m)	Total to Date (m)	gres s (%)							
1	All roads Including WWTP road	66.06	Sub- grade=2176m Sub Base=2176m Base=2176m Prime Coat=2096m Asphalt Concrete=2096 m	Sub-grade=0m Sub-base=0m Base=0m Prime Coat=0m Asphalt Concrete=0m	Sub-grade=2,176m Sub-base=2,176m Base=2176m Prime Coat=2096m Asphalt Concrete=2096m								

Table 15: Physical Progress in Waste Water Treatment Plant (WWTP), Jatuwa:

	Physical Progress till June 2016														
			Progr	ess											
S.N.	Description	Proposed Quantity	Up to May 2016	This Month	Total to Date	Remarks									
1	Anaerobic Pond	3 nos	3 (excavation)	0	3 (excavation)										
2	Facultative Pond	3 nos	2 (Excavation)	0	2 (excavation)										
3	River Training Work	600 m	600 m	0	600 m										
4	Boundary Wall	1322.70m	1053 m	80m	1133 m	85.66%									
5	Office cum Lab Building	1 no	1 no	0	1										
6	Workshop Building	1 no	1 no	0	1										
7	Generator / Changing House	1 no	1 no	0	1										
8	Sump Well	1 no	0	0	0										

Table 16: Physical Progress in Production of Precast Items at Katahari:

		Physic	al Progress till	June 2016		
			Progr	ess		
S.N.	Description	Unit	Up to May 2016 (no)	This Month (no)	Total to Date (no)	Remarks
1	Precast Slab	No	77,300	7030	84330	
2	Precuts	No	8559	650	9209	
3	Kerb Stone	No	20075	1780	21855	
4	Manhole	No	2178	14	2192	
5	Sewer Inlet	No	1,480	19	1499	
6	House Connection Chamber	No	1,330	16	1346	

Table 17: Physical Progress in Production of RCC Pipes at Itahari :

	Physical Progress till June 2016													
			Progr	ess										
S.N.	Description	Diameter (mm)	Up to May 2016 (no)	This Month (no)	Total to Date (no)	Remarks								
1	RCC Pipe	200	2,123	0	2,123									
2	RCC Pipe	300	328	0	370									
3	RCC Pipe	350	216	0	216									
4	RCC Pipe	400	370	0	370									
5	RCC Pipe	450	84	0	84									
6	RCC Pipe	500	513	38	551									
7	RCC Pipe	600	942	21	963									
8	RCC Pipe	700	1,296	0	1296									
9	RCC Pipe	900	278	0	278									
10	RCC Pipe	1000	1011	0	1,019									
11	RCC Pipe	1600	373	0	373									
	Total		7,534	59	7,643									

Contractor's Manpower Table 18: Contractor's key staffs in June 2016:

Designation	No	Remarks
Project / Contract Manager	1	
Planning Engineer/Construction Engineer	1	
Construction Engineer	1	
Site Engineers	5	
Quality Control Manager	1	
Office/Bill Engineer	1	
Junior Engineer	10	
Sub Overseers	6	
Safety Manager / Senior Site Supervisor	1	
SMEC SMEC	29	

Accountant / Office Manager	1	
Lab Assistant	3	
Store Keeper	4	
Light Drivers	6	
Machine Operator	14	
Site Supervisor	5	
Other Supporting Staff	18	
Skilled Labor at Site	80	
Unskilled Labor at Site	150	

Contractor's Equipment: Table 19: Contractor's Equipment:

Equipment	No	Remarks
Excavator	7	
Back Hoe JCB	8	
Grader	1	
Crane / Teller	3	
Water Tanker	3	
Tractor	9	
Tipper	17	
Light Vehicle	6	
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	10	
Bar Bending Machine	3	
Bar Cutter Machine	3	
Transit Mixer	1	
Concrete Mixer (Hydraulic)	2	
Concrete Mixer (Manual)	6	
Asphalt Concrete Plant	1	
Asphalt Paver Machine	1	

June 2016

7.2 Cumulative Progress (S Curve)

Contractor's Revised Cumulative Progress S-Curve (Based on Work Program Rev. No 03)

Item		Amount	Relative	Year	2013		Year 2014						-	Year 2015									Year 2016											
No.	Description	(NRs)	weight in %	Month	Dec	Jan	Feb	Mar	Apr	May	Jun	July	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May
	Preliminary and General			Program	0.000	0.326	0.012	0.012	0.012	0.012	0.012	0.012	0.012	0.012	0.012	0.012	0.013	0.013	0.013	0.013	0.013	0.013	0.013	0.013	0.013	0.013	0.013	0.013	0.012	0.012	x- 0. 015 X	0.01	0.01	0.119
1	Works	16,850,000.00	0.795	Achieve	0.000	0.326	0.012	0.012	0.012	0.012	0.012	0.012	0.012	0.012	0.012	0.012	0.012	0.012	0.012	0.012	0.000	0.000	0.090	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
				Program	0.000	0.005	0.508	0.369	0.295	1.811	1.509	0.100	0.384	0.408	0.150	3.293	4.549	5.859	7.607	7.454	7.513	6.078	5.050	1.742	1.503	0.000	0.000	3.366	6.433	9.047	8 46	6.788	2.617	0.000
2	Civil Works	1,972,492,008.90	93.08	Achieve	0.000	0.005	0.508	0.369	0.295	1.811	1.509	0.100	0.384	0.408	0.150	3.293	1.136	1.787	3.661	15.281	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
				Program	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.365	0.438	0.088	0.000	0.00	0.000	0.000	0.000	9.000	0.000	0.000	0.000	0.000
3	Electro-mechanical Works	18,884,000.00	0.89	Achieve	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.00	0.000	0.000	0.000	0.000	0.000	0.005	0.000	0.000	0.000	0.000
	Provisional Items and			Program	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.196	0.196	0.196	0.196	0.196	0.120	0.196	0.196	0.000	0.002	0.003	0.196	0.196	0.196	0.197	0.197	0.197	0.065
4	Provisional Sum	63,741,517.00	3.01	Achieve	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0 068	0.068	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0000
_	Operation & Maintenance	24 450 000 00	1.62	Program	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.8	0.813	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
5	Equipment and Machinaries	34,430,000.00	1.65	Achieve	0.00 <u>0</u>	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0 000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
6	Loberatory Equipment	6 000 000 00	0.28	Program	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000		0.00	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.174	0.109
6	Caboratary Equipment	8,000,000.00	0.28	Achieve	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.009	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
7	Operation and Maintenance	6 000 000 00	0.28	Program	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.00	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.283
,	operation and maintenance	0,000,000.00	0.20	Achieve	0.000	0.000	0.000	0.000	0.000	0.000	0.000	00000	- 0000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
8	Davworks	637 000 00	0.03	Program	0.000	0.000	0.000	0.000	0.000	X. 000	0.000	0.000	0.000	0.000	0.000	0.000	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002
0		,	0.05	Achieve	0.000	0.000	0.000	0.000	.000	2.00	0.000	0.000	0:000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
	Total	2,119,054,525.90	100.00																															
Orio	ainal Program	%	age		0.347	0.074	3.181	6.282	7.931	3.017	2.219	1.212	0.476	2.710	3.643	3.662	3.700	4.435	4.401	4.460	4.456	4.401	3.802	1.168	3.018	3.658	4.413	3.645	3.597	4.707	4.728	3.150	2.891	0.616
	,	Cumulative	%age		0.347	0.421	3.602	9.884	17.815	20.832	23.051	24.263	24.739	27.449	31.092	34.754	38.454	42.889	47.290	51.750	56.206	60.607	64.409	65.577	68.595	72.253	76.666	80.311	83.908	88.615	93.343	96.493	99.384	100.00
Revi	sed Program-1	%age			0.000	0.286	0.449	0.329	2.288	6.606	4.806	1.003	0.183	0.576	1.416	8.074	9.810	9.883	10.666	10.056	9.725	9.865	7.445	2.284	0.247	0.159	0.145	0.145	0.145	0.145	0.644	0.601	1.227	0.787
		Cumulativ e %age			0.000	0.286	0.735	1.064	3.352	9.958	14.764	15.767	15.950	16.526	17.942	26.016	35.826	45.709	56.375	66.431	76.156	86.021	93.466	95.750	95.997	96.156	96.301	96.446	96.591	96.736	97.380	97.981	99.208	100.00
Revi	sed Program-2	%	age		0.000	0.286	0.449	0.329	0.265	1.575	1.314	0.097	0.343	0.363	0.140	2.855	4.760	6.070	8.630	8.478	7.724	6.654	5.699	2.040	1.581	0.079	0.079	3.577	6.643	9.257	9.423	7.700	3.002	0.577
	-	Cumulative	% age		0.000	0.286	0.735	1.064	1.329	2.904	4.218	4.315	4.658	5.021	5.161	8.016	12.776	18.845	27.476	35.953	43.677	50.331	56.030	58.070	59.651	59.730	59.809	63.386	70.029	79.286	88.709	96.409	99.411	99.988
Rev	ise Program 3	%	age		0.000	0.286	0.449	0.329	0.265	1.575	1.314	0.097	0.343	0.363	0.140	2.855	0.991	2.712	3.232	3.939	2.764	2.246	5.421	0.302	0.302	7.530	3.600	2.320	10.210	11.470	11.165	10.790	10.360	2.630
	-	Cumulative	%age		0.000	0.286	0.735	1.064	1.329	2.904	4.218	4.315	4.658	5.021	5.161	8.016	10.770	12.570	17.570	21.820	25.250	27.850	34.317	34.317	34.317	41.847	45.447	47.767	58.037	69.507	80.672	91.462	97.820	100.000
А	chievement	%	age		0.000	0.331	0.520	0.381	0.307	1.823	1.521	0.113	0.397	0.421	0.162	3.305	1.148	3.139	3.742	4.560	3.200	2.600	4.540	0.350	0.302	0.000	0.000	0.000	0.623	0.700	4.930	2.000	8.500	0.000
	Cumulative % ag	%age		0.000	0.331	0.851	1.232	1.539	3.362	4.883	4.996	5.392	5.813	5.975	9.280	10.770	12.570	17.570	21.820	25.250	27.850	34.317	34.317	34.317	34.317	34.317	34.317	34.940	35.640	40.570	42.570	51.070	54.300	

Figure 7: S- Curve of Physical Progress (based on rev. no. 03)

8 DETAILS OF SAFEGUARD ACTIVITIES (SOCIAL, ENVIRONMENTALANDRESETTLEMENT ACTIVITIESANDISSUES)

This report records the project implementation performance of social safeguard aspect for the duration of Novem**ber 2015** and highlights the key activities undertaken during the period. The activities on the social development during the period are summarized below:

8.1 SOCIAL ISSUES

8.1.1 OPERATIONAL GUIDE LINES FOR COMMUNITY MOBILIZATION AND IMPLEMENTATION OF CDP

VISIT, INTERACTION AND CONSULTATION WITH COMMUNITY PEOPLE

37. 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 between 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 of 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 of 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), TL/DSC and TL/CDP 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

38. 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

39. 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, PIU, 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 Sub Metropolitan City (BSMC) office and project staffs will participate in the training.

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

40. 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

41. The core activities of the project i.e. sewerage pipe laying, drain construction and road/ lane improvement provided employment to about 250 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

42. 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 in the month November 2015.

9KEY ISSUES AND REMARKS/REASONFOR DEVIATION (IFANY) AFFECTINGPROGRESS

- 43. Following are the key issues affected in progress:
 - Disturbance from existing water supply pipe lines network, under-ground cables, electric poles etc.

10 WORK PLAN FOR THE NEXT MONTH

44. Following are the Contractor's works in the next month <u>(Please refer to the contractor's progress report for quantitative plan works for next month) the revised work program no 03 is under review:</u>

• Production of precast RCC items (RCC pipe, kerb stone, manhole, sewer inlet, house connection chamber, drain cover slab etc)



ANNEX-1: Work Schedule (Rev.03) which is under review.

Note: Please refer to the contractor's progress report for detail and complete work program.

Item No.	Description of Works	August 015	September 015	October 015	November 015	December 015	January 016	February 016	March 016	April 016	May 25 016
A	General						-		e 4	-	
в	Earthwork		-				r				
C	Structure	-	i i		-						
D	Concrete Works					-					
E	Brickworks										
F	Door and Windows			_							-
G	Plaster, floor finishes and paintings.		-								
н —	Roofing and Truss works	1		-							
1	Road Works				-		c.			-	
J - 1	Sewerage and Drainage					-		1			
ĸ	Bio-Engineering Works		11	· .							
L I	Electrical Works							-			-
M	Sanitary and Water supply works	+								1	1
N	Electromechanical Works	1	12				1				
0	Provisional Item		T T		1	1		1	1		
P	Provisional Sum	0									
Q	Equipment and Machine										(T
R	Laboratory Equipment		1								
s	Operation and Maintenance	1		_		1					
т	Dayworks (Labor)										-
U	Dayworks (Material)				1						
111	Total									1 2 2 2 2	1

Work Schedule Revise -3 (Completion date May 25, 2016)

Page | 35 Secondary Towns Integrated Urban Environmental Improvement Project (STIUEIP), Biratnagar
ANNEX2: PHOTOGRAPHS – June 2016



Brick Drain at R24 (prabhat marg)



Brick Drain atR3 Road(Dharambadh Road)

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Water Supply Pipe line at R3 Road



Brick Manhole Construction at T1 Secondary line

Page | 37 Secondary Towns Integrated Urban Environmental Improvement Project (STIUEIP), Biratnagar



Gabion works at S9 outlet



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Road Maintenance R3 Road

ANNEX-6: MINUTES OF MEETING – JUNE 2016

Page | 39 Secondary Towns Integrated Urban Environmental Improvement Project (STIUEIP), Biratnagar

ANNEX-7: LABORATORY TEST RESULTS OF JUNE 2016

Secondary Town Integrated Urban Environmental Improvement Project

Biratnagar Sub-Metropolitan city

Contract Package: STIUEIP/W/BRT/ICB-01

DAILY WEATHER RECORD

FOR THE MONTH OF JUNE 2016

Date	-			WEATHER Reco	ord		Temp.c		
	Sunny	Windy	Cloudy	Morning Rain HRS	Night Rain Hrs.	Day Rain Hrs.	9:00 AM	5:00 PM	Rain Fall MN
1	Sunny						32.8	28.4	
2	Sunny						32.6	27.4	
3	Sunny						32.6	28.6	1.12
4	Sunny						32.8	25.4	
5	Sunny						34.8	28.2	
6			Cloudy	Morning Rain HRS		Day Rain Hrs.	32.5	24.6	130
7	Sunny						34.6	38.7	
8	Sunny						35.6	30.2	
9			Cloudy	Morning Rain HRS			32.6	26.4	30
10			Cloudy	Morning Rain HRS			30.1	26.2	30
11	Sunny						34.6	30.1	
12			Cloudy	Morning Rain HRS	Night Rain Hrs.	Day Rain Hrs.	28.6	26.5	160
13 '			Cloudy	Morning Rain HRS	Night Rain Hrs.	Day Rain Hrs.	27.4	25.2	100
14			Cloudy	Morning Rain HRS	Night Rain Hrs.	Day Rain Hrs.	26.8	25.6	200
15	Sunny		Cloudy			Evening Hrs	30.2	26.8	28
16	Sunny						32.6	28.2	
17	Sunny						32.5	27.5	
18	Sunny		1.1				32.8	28.2	
19			Cloudy			Evening Hrs	34.6	26.2	14
20	_		Cloudy	Morning Rain HRS	Night Rain Hrs.	Day Rain Hrs.	32.5	30	110
21			Cloudy	Morning Rain HRS	Night Rain Hrs.	Day Rain Hrs.	28.6	26.6	310
22			Cloudy	Morning Rain HRS	Night Rain Hrs.	Day Rain Hrs.	27.6	26.9	145
23			Cloudy			Day Rain Hrs.	28	27.2	100
24			Cloudy				29.2	28.1	50
25			Cloudy	Morning Rain HRS		Day Rain Hrs.	29.5	28.6	200
26			Cloudy		Night Rain Hrs.		30.2	29.2	35
27			Cloudy				31.2	29.8	
28	Sunny	-					30.2	29.1	
29	Sunny						33.6	30.2	
30	Sunny						34.6	30.6	
								Total	1642

SMEC-Brisbane-AQUA-CEMAT-BDA

Approved By C.S.E

Record Checked By A.C.S.E

Submitted By Project Manager

CTCE-KALIKA J/V

140

Record Reported By Q.C Manager

Consultant Reps

Contractor Reps

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Biratnagar Sub-Metropolitant City

Sum	nmery of Concrete Crushed	Aggregate	e 20mm	n down	5	For	The Mont	h of JUN	IE 2016	
S.N.	DESCRIPTION / SOURCE	LAB		Grain Siza	a Distributi	on	FI	LAA	ACV	REMARKS
		REF. NO.	25	20	10	4.75	%	%		
1	From S-9 Line	MR231	100	96.68	39.40	3.53	12.78	31.80	20.1	Aggregates
2	From S-9 Line	MR232	100	96.96	39.64	3.12	12.69	32.04	20.4	Source
3	From S-9 Line	MR233	100	96.28	40.31	2.95	13.86	31.44	20.5	Om shree
4	From S-9 Line	MR234	100	96.44	41.29	2.87	13.35	31.76	20.4	
5	From Contractor Yard	MR235	100	95.56	44.42	3.07	13.21	31.56	20.6 ~	1
6	From Contractor Yard	MR 236	100	95.38	38.59	3.46	13.53 v	31.36	20.6	Crusher
7	From Contractor Yard	MR237	100	95.53	34.78	3.26	13.80	32.24	20.6 ~	
	Section 900:IS 383-1970 Required		100	95-100	25-55	0-10	Less 15%	Less 35%	Less 30%	
SMEC Appro Test (C-Brisbane-AQUA-CEMAT-BDA oved by CSE Checked by A.C.S.E				CTCE-KA Submitte Test con	LIKA J/V d by Proje	ect Manage / Q.C Mana	er //	AT AT	*
Consi	ultant Reps				Contract	or Reps		14	Keleis	9

		LAB		_	Grain	Siza Distri	bution			
5.N.	DESCRIPTION / LOCATION	REF. NO:	10	4.75	2.36	1.18	0.6	0.3	0.15	REMARKS
1	From S-9 Line	MR213	100.00	96.04	78.68	60.94	38.30	20.94	5.85	source
2	From S-9 Line	MR214	100.00	96.97	78.79	59.60	37.78	21.21	5.66	om shree
3	From S-9 Line	MR215	100.00	96.29	78.97	59.38	40.00	22.06	5.57	
4	From Contractor Stock Yard	MR216	100.00	95.82	79.08	58.79	39.54	21.76	5.44	
5	From Contractor Stock Yard	MR217	100.00	95.32	78.94	58.94	40.00	22.13	5.11	
6	From Contractor Stock Yard	MR218	100.00	95.50	78.59	58.03	38.33	21.41	5.57	crusher
										plant
Specif	acation Limit is 383-1970 Zone -2		100-100	90-100	75-100	55-90	35-59	8-30	0-10	
SME Appr Test Cons	C-BRISBANE-AQUA-CEMAT-BDA oved by C.S.E Checked by A.C.S.E		*		CTCE-K Submitte Test Cor Contrac	ALIKA J/ ed by Pro nducted I	V oject Mai oy Q.C N	nager Ianager	The second secon	

]	Biratnagar Sub-Met	tropolitant City	nprovement i roject	
	TES	T RESULT S	SUMMARY SH	IEET For the Me	onth of	JUNE	2016
		. CO	MPRESSIVE S	STRENGTH OF I	BRICKS (Process	Control Test)	
SN No	Ref. STIUEIP LAB/	Date of Testing	Location	Chanage	BRAND NAME 1 st class brick	Compressive Strength N/mm2	SCALE OF Sample From
1	MR341	1/6/2016	RANI	Line-1	SHREE	11.3 🗸	1500 Nos-5 Nos
2	MR342	1/6/2016	RANI	Line-1	SHREE	10.6	
3	MR 343	1/6/2016	RANI	Line-1	T&B	11.3 🗸	
4	MR 344	1/6/2016	RANI	Line-1	T&B	10.7 🗸	
5	MR 345	1/6/2016	RANI	Line-1	T&B	11.2 🗸	
6	MR 346	1/6/2016	RANI	Line-1	T&B	11.1 🗸	
7	MR347	1/6/2016	RANI	Line-1	T&B	11.2 🗸	
8	MR348	1/6/2016	RANI	Line-1	T&B	10.8 🗸	
9	MR 349	1/6/2016	High way	Man Hole	ANAND	11.3 🗸	
10	MR 350	1/6/2016	High way	Man Hole	ANAND	11.4 V	
11	MR351	2/6/2016	RANI	Line-1	T&B	11.0	
12	MR 352	3/6/2016	RANI	Line-1	T&B	11.1	
	Specif	ication			IS1077,IS2180or NS1/2035	> ⁻ 10N/MM2	
1	Аррг	SMEC-Brisbane-A roved by Construc	AQUA-BDA-CEMA ction Supervision Er	T ngineer		CTCE-KALIKA	
		Test Check Consultantr Reps	ed by A.C.S.E	alad	Т	est conducted by O.C. Jan Contractor Report	the start

Secondary Towns Integrated Uraban Environmental Improvement Project

Biratnagar Sub-Metropolitant City

TEST RESULT SUMMARY SHEET For the Month of

JUNE 2016

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COMPRESSIVE STRENGTH OF BRICKS (Process Control Test)

SN No	Ref. STIUEIP LAB/	Date of Testing	Location	Chanage	BRAND NAME 1 st class brick	Compressive Strength N/mm2	SCALE OF Sample From
13	MR 353	3/6/2016	S13	Line-2	T&B	11.0	1500 Nos-5 Nos
14	MR 354	3/6/2016	S13	Line-2	T&B	10.6 -	
15	MR 355	5/6/2016	R3	Line 24	ANAND	11.0	
16	MR 356	5/6/2016	R3	Line 24	ANAND	11.4 🗸	
17	MR 357	5/6/2016	R3	Line 22	ANAND	11.7	
18	MR 358	5/6/2016	R3	Line 22	ANAND	11.3 🗸	
19	MR 359	5/6/2016	R3	R3 Line	ANAND	11.1 🗸	
20	MR 360	5/6/2016	High Way	Man Hole	ANAND	11.0 🗸	
21	MR 361	5/6/2016	High Way	Man Hole	ANAND	11.1 🗸	
22	MR 362	5/6/2016	High Way	Man Hole	ANAND	11.5	
23	MR 363	5/6/2016	High Way	Man Hole	ANAND	11.3 ✓	
24	MR 364	7/6/2016	High Way	Man Hole	ANAND	11.3 U	
	Specifi	ication			IS1077,IS2180or NS1/2035	> ⁻ 10N/MM2	*
1	Appr	SMEC-Brisbane- roved by Construc	AQUA-BDA-CEMA	.T ngineer		CTCE-KALIKA J/V	Ber
		Test Check Consultantr Reps	ked by A.C.S.E	toal	Т	est conducted by Q.C. Mar Contractor Reps	ABCH -

	TES	Secon ST RESULT S	idary Towns I SUMMARY SI	ntegrated Uraban Biratnagar Sub-Met HEET For the Me	Environmental Ir ropolitant City onth of	nprovement Project JUNE	2016
		CO	MPRESSIVE	STRENGTH OF I	BRICKS (Process	Control Test)	
SN No	Ref. STIUEIP LAB/	Date of Testing	Location	Chanage	BRAND NAME 1 st class brick	Compressive Strength N/mm2	SCALE OF Sample From
25	MR365	7/6/2016	High Way	Man Hole	ANAND	11.1 🗸	1500 Nos-5 Nos
26	MR 366	8/6/2016	R3	Line 22	T&B	11.0 🗸	
27	MR367	8/6/2016	R3	Line 22	T&B	10.7 🗸	
28	MR 368	9/6/2016	R3	R3 Line	ANAND	10.9	
29	MR369	9/6/2016	R3	R3 Line	ANAND	11.0	
30	MR 370	9/6/2016	R3	R3 Line	ANAND	10.5	
31	MR371	24/6/2016	Jatuwa	WWTP Wall	AMBEY	10.7	
32	MR 372	24/6/2016	Jatuwa	WWTP Wall	AMBEY	10.6	
33	MR 373	24/6/2016	Jatuwa	WWTP Wall	AMBEY	10.4	
	Specif	ication			IS1077,IS2180or NS1/2035	> ⁻ 10N/MM2	
1	Appr	SMEC-Brisbane-A oved by Construc Test Check	AQUA-BDA-CEMA tion Supervision En ed by A.C.S.E	AT ngineer ADD	T	CTCE-KALIKA KY Submitted by Project Mana est conducted by Q.C.Mana	ger /1
		Consultantr Reps	×			Contractor Reps	9/

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

SUMMARY OF FIELD DENSITY TEST (IS:2720:-PART-28) FOR THE MONTH OF JUNE 2016

Description : Field Density Tests on National Trading to Jatuwa WWTP Road R-4 SUB GRADE LAYER

S.N.	L/Ref. No.	Date	Location/ Area	MDD Gm/CC	Degree	of Compaction, %	Remarks
1			1+830 LHS	1.95	.97.9	5.00	
2			1+880 CL	1.91	-95.8	5.00	
3			1+930 RHS	1.93	96.8	6.00	
	FD 18	25/5/2016		-			
		_					
_							
+							
	-						
	Spe	ecification Re	quirement	1.990	>95	OMC <10.25	
					-		-

SMEC-Brisbane-AQUA-CEMAT-BDA

CTCE-KALIKA J/V

Approved by C.S.E

Test Checked by A.C.S.E

Consultant Reps

Submitted by Project Manager

Test Conducted by Q.C Manager

Contractors Reps

		LAB			Grain	Siza Distri	bution			
5.N.	DESCRIPTION / LOCATION	REF. NO:	10	4.75	2.36	1.18	0.6	0.3	0.15	REMARKS
1	From S-9 Line	MR213	100.00	96.04	78.68	60.94	38.30	20.94	5.85	source
2	From S-9 Line	MR214	100.00	96.97	78.79	59.60	37.78	21.21	5.66	om shree
3	From S-9 Line	MR215	100.00	96.29	78.97	59.38	40.00	22.06	5.57	
4	From Contractor Stock Yard	MR216	100.00	95.82	79.08	58.79	39.54	21.76	5.44	
5	From Contractor Stock Yard	MR217	100.00	95.32	78.94	58.94	40.00	22.13	5.11	
6	From Contractor Stock Yard	MR218	100.00	95.50	78.59	58.03	38.33	21.41	5.57	crusher
										 plant
Specif	acation Limit is 383-1970 Zone -2		100-100	90-100	75-100	55-90	35-59	8-30	0-10	
SMEC Appro Test (Cons	C-BRISBANE-AQUA-CEMAT-BDA oved by C.S.E Checked by A.C.S.E		÷	-	CTCE-K Submitte Test Cor Contrac	ALIKA J/ ed by Pro nducted	V bject Mar by Q.C N	nager Ianager * (*	-	1

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Biratnagar Sub-Metropolitant City

Sun	mery of Concrete Crushed	Aggregat	e 20mn	n down		For	The Mon	th of JUN	NE 2016	
S.N.	DESCRIPTION / SOURCE	LAB		Grain Siza	a Distributi	on	FI	LAA	ACV	REMARKS
		REF. NO.	25	20	10	4.75	%	%		IN LIMANNO
1	From S-9 Line	MR231	100	96.68	39.40	3.53	12.78	31.80	20.1	Aggregates
2	From S-9 Line	MR232	100	96.96	39.64	3.12	12.69	32.04	20.4	Source
3	From S-9 Line	MR233	100	96.28	40.31	2.95	13.86	31.44	20.5	Om shree
4	From S-9 Line	MR234	100	96.44	41.29	2.87	13.35	31.76	20.4	
5	From Contractor Yard	MR235	100	95.56	44.42	3.07	13.21	31.56	20.6	
6	From Contractor Yard	MR 236	100	95.38	38.59	3.46	13.53	31.36	20.6	Crusher
7	From Contractor Yard	MR237	100	95.53	34.78	3.26	13.80	32.24	20.6	
	Section 900:IS 383-1970 Required		100	95-100	25-55	0-10	Less 15%	Less 35%	Less 30%	
SMEC	-Brisbane-AQUA-CEMAT-BDA				CTCE-KA	LIKA J/V				
Approv Test C	ved by CSE hecked by A.C.S.E	-			Submitte Test cond	d by Proje ducted by	ect Manage Q.O Mana	r ger /,	1/	
Consu	Itant Reps	•			Contracto	or Reps		1)24/		

S.N.	Lab Ref.	Date of	Deatails of Mix	Location	I Rat	tio by V	OLUME		Туре	of Material	Cube Cru	shing ,N/mm2	Remarks
	No.	Casting		Structure	Water	Cemen	t Sand	Aggregate	Cement Brand	Aggregate/Sand	7 days	28-Davs	
1	439	4/5/2016	M25 Work mix	S-5 Line RCC Top Slab	0.46	1	1.5	3	Shivam	Om shree C/plant	20.37	26.07	
2	440	4/5/2016	M25 Work mix	S-5 Line RCC Top Slab Yadev Chowck	0.46	1	1.5	3	Shivam	Om shree C/plant	22.07	26.96	
3	441	5/5/2016	M25 Work mix	S-5 Line RCC Top Slab	0.46	1	1.5	3	Shivam	Om shree C/plant	20.44	26.37	-
4	442	5/5/2016	M25 Work mix	S-9 Line RCC Top Slab	0.46	1	1.5	3	Shivam	Om shree C/plant	21.63	25.78	
5	443	5/5/2016	M20 Work Mix	S-9 Line 2	0.50	1	2	3.5	Shivam	Om shree C/plant	17.85	21.93	
6	444	6/5/2016	M25 Work mix	S-9 Line RCC Top Slab	0.46	1	1.5	3	Shivam	Om shree C/plant	22.59	26.81	
7	445	6/5/2016	M25 Work mix	S-9 Line RCC Top Slab	0.46	1	1.5	3	Shivam	Om shree C/plant	22.07	27.26	
8	446	6/5/2016	M20 Work Mix	T-3 Line PCC Bed	0.50	1	2	3.5	Shivam	Om shree C/plant	18.15	21.93	
9	447	6/5/2016	M20 Work Mix	Rani Line -1 PCC Bed	0.50	1	2	3.5	Shivam	Om shree C/plant	17.85	21.78	
10	448	7/5/2016	M25 Work mix	S-5 Line RCC Top Slab	0.46	1	1.5	3	Shivam	Om shree C/plant	22.30	26.37	
11	449	7/5/2016	M25 Work mix	S-5 Line RCC Top Slab Yadev Chowck	0.46	1	1.5	3	Shivam	Om shree C/plant	22.44	26.67	-
12	450	8/5/2016	M25 Work mix	S-5 Line RCC Top Slab	0.46	1	1.5	3	Shivam	Om shree C/plant	21.63	26.44	
13	451	8/5/2016	M20 Work Mix	T-3 Line PCC Bed	0.50	1	2	3.5	Shivam	Om shree C/plant	17.63	21.85	
14	452	8/5/2016	M20 Work Mix	S-9 Line 2	0.50	1	2	3.5	Shivam	Om shree C/plant	16.59	21.93	
15	453	8/5/2016	M20 Work Mix	R-3 Line PCC Bed	0.50	1	2	3.5	Shivam	Om shree C/plant	16.44	22.22	
16	454	8/5/2016	M20 Work Mix	Rani Line -1 PCC Bed	0.50	1	2	3.5	Shivam	Om shree C/plant	16.15	22.00	
17	455	9/5/2016	M25 Work mix	S-5 Line RCC Top Slab	0.46	1	1.5	3	Shivam	Om shree C/plant	22.00	26.30	
18	456	9/5/2016	M25 Work mix	S-9 Line RCC Top Slab	0.46	1	1.5	3	Shivam	Om shree C/plant	21.19	26.37	
19	457	9/5/2016	M25 Work mix	S-9 Line RCC Top Slab	0.46	1	1.5	3	Shivam	Om shree C/plant	21.41	26.52	
20	458	10/5/2016	M25 Work mix	S-5 Line RCC Top Slab	0.46	1	1.5	3	Shivam	Om shree C/plant	20.81	26.15	
_			Manager I in the Tayl										
-		Spe	ifacation Limit Tat	ble For M20/20 on 7 days Age Min 67% (of Total C	ompres	sive Stre	ngth		Min Required	13.4	20	
ME ppr est ons	C-Bri oved chec sultar	sbane-AG by Const ked by A. hts Reps	QUA-BDA truction Supe C.S.E	ervision Engineer/CSE	CTCE Subm Test c Contra	-KAL	IKA J/N by Pro icted b	ject Ma y Q.C N	nager Ianager	* Negured	10.75	25	

S.N.	Lab Ref	Date of Casting	Deatails of Mix	Location	1 Rat	tio by V	OLUME		Туре	of Material	Cube Cru	shing ,N/mm2	Remarks
	No.			Structure	Water	Cemen	t Sand	Aggregate	Cement Brand	Aggregate/Sand	7 days	28-Days	
21	459	10/5/2016	M25 Work mix	S-9 Line RCC Top Slab	0.46	1	1.5	3	Shivam	Om shree C/plant	20.89	26.15	
22	460	11/5/2016	M20 Work Mix	T-3 Line PCC Bed	0.50	1	2	3.5	Shivam	Om shree C/plant	13.40	22.07	
23	461	11/5/2016	M25 Work mix	S-5 Line RCC Top Slab	0.46	1	1.5	3	Shivam	Om shree C/plant	21.93	27.11	
24	462	11/5/2016	M25 Work mix	S-5 Line RCC Top Slab	0.46	1	1.5	3	Shivam	Om shree C/plant	21.93	26.37	
25	463	12/5/2016	M25 Work mix	S-5 Line RCC Top Slab	0.46	1	1.5	3	Shivam	Om shree C/plant	22.37	26.30	
26	464	12/5/2016	M25 Work mix	S-5 Line RCC Top Slab	0.46	1	1.5	3	Shivam	Om shree C/plant	21.56	26.52	
27	465	13/5/2016	M25 Work mix	S-5 Line RCC Top Slab	0.46	1	1.5	3	Shivam	Om shree C/plant	21.78	25.63	
28	466	13/5/2016	M25 Work mix	S-9 Line RCC Top Slab	0.46	1	1.5	3	Shivam	Om shree C/plant	21.63	25.85	
29	467	14/5/2016	M25 Work mix	S-5 Line RCC Top Slab	0.46	1	1.5	3	Shivam	Om shree C/plant	21.70	26.30	
30	468	14/5/2016	M25 Work mix	S-9 Line RCC Top Slab	0.46	1	1.5	3	Shivam	Om shree C/plant	21.93	26.22	
31	469	14/5/2016	M25 Work mix	S-5 Line RCC Top Slab	0.46	1	1.5	3	Shivam	Om shree C/plant	22.15	26.44	
32	470	16/5/2016	M20 Work mix	S-9 Line RCC Wall	0.50	1	2	3.5	Shivam	Om shree C/plant	17.63	22.52	
33	471	17/5/2016	M25 Work mix	S-9 Line RCC Top Slab	0.46	1	1.5	3	Shivam	Om shree C/plant	22.07	26.59	
4	472	18/5/2016	M20 Work mix	S-9 Line RCC Wall	0.50	1	2	3.5	Shivam	Om shree C/plant	16.74	21.56	-
5	473	19/5/2016	M25 Work mix	S-9 Line RCC Top Slab	0.46	1	1.5	3	Shivam	Om shree C/plant	21.78	26.22	
6	474	20/5/2016	M25 Work mix	S-5 Line RCC Top Slab	0.46	1	1.5	3	Shivam	Om shree C/plant	21 33	26.37	
37	475	23/5/2016	M20 Work Mix	S-5 Line RCC Wall	0.50	1	2	3.5	Shivam	Om shree C/plant	17 11	21.04	
38	476	24/5/2016	M25 Work mix	S-9 Line RCC Top Slab	0.46	1	1.5	3	Shivam	Om shree C/plant	20.52	26.37	
39	477	25/5/2016	M20 Work Mix	S-9 Line RCC Wall	0.50	1	2	3.5	Shivam	Om shree C/plant	18.07	22.45	
40	478	26/5/2016	M25 Work mix	S-9 Line RCC Top Slab	0.46	1	1.5	3	Shivam	Om shree C/plant	22.07	26.81	
_	-	Spec	ifacation Limit Table	For M20/20 on 7 days Age Min 67	% of Total C	omnres	sive Stre	ath					
		Spec	ifacation Limit Table	For M25/20 on 7 days Age Min 679	% of Total C	ompres	sive Stre	ngth		Min Required	13.4	20	
ME opr est	C-Bri oved check sultan	sbane-AQ by Const ked by A.0 its Reps	UA-BDA ruction Superv C.S.E	vision Engineer/CSE	CTCE Subm Test c Contra	-KAL	KA J/ by Pro cted b	/ ject Mar y Q.C M	nager anager		/		

Biratnagar Sub-Metropolitant City

CEMENT TEST SUMMERY

For the Month of JUNE 2016

S.N.	Lab. Ref.	Description of cement	Testing	Consister	ncy & Settin	ng Time	Remarks
	NO.		Date	Norm. Const.	Intial(min.)	Final(min.)	
1	MR111	SHIVAM OPC	1/6/2016	36.9	185	330	All Cement
2	MR 112	SHIVAM OPC	2/6/2016	36.7	180	340	Are
3	MR 113	SHIVAM OPC	3/6/2016	37.1	175	350	Nepali
4	MR114	SHIVAM OPC	4/6/2016	37.7	180	330	BRAND
5	MR 115	SHIVAM OPC	5/6/2016	37.9	195	310	
6	MR 116	SHIVAM OPC	6/6/2016	37.4	190	300	
7	MR 117	SHIVAM OPC	7/6/2016	37.3	180	310	
8	MR 118	SHIVAM OPC	8/6/2016	37.7	180	310	
9	MR 119	SHIVAM OPC	9/6/2016	37.9	200	315	OPC
10	MR 120	SHIVAM OPC	10/6/2016	38.0	180	325	010
Requi	rements in ac	cordance with BS 12/4027			> 45 Min.	10 Hrs	

SMCE-Brisbane-AQUA-BDA

Approved by C.S.E

Test Checked by A.C.S.E Consultant Reps CTCE-KALIKA J/V Submitted by Project Manager Test Conducted by Q.C.Manager

Contractores Reps

Biratnagar Sub-Metropolitant City

CEMENT TEST SUMMERY

For the Month of JUNE 2016

Lab. Ref.	Description of cement	Testing	Consister	ncy & Settin	ng Time	Remarks
NO.		Date	Norm. Const.	Intial(min.)	Final(min.)	
MR121	SHIVAM OPC	11/6/2016	37.3	185	320	All Cement
MR122	SHIVAM OPC	12/6/2016	37.3	185	320	Are
MR123	SHIVAM OPC	13/6/2016	37.1	180	325	Nepali
MR124	SHIVAM OPC	14/6/2016	37.7	190	315	BRAND
MR125	SHIVAM OPC	15/6/2016	37.3	175	320	
						OPC
rements in ac	cordance with BS 12/4027			> 45 Min.	10 Hrs	
Brisbane-AQ	UA-BDA	-	CTCE-KALIK	A J/V	_	
ved by C.S.E			Submitted by	Project M	anager	11
hecked by A.	C.S.E DEAL		Test Conduc	ted by Q.G	Manager	15/
	Lab. Ref. NO. MR121 MR122 MR123 MR124 MR125 MR125 MR125 MR125 MR125 MR125 MR125 MR125 MR125 MR125 MR125 MR125 MR125 MR125 MR125 MR125 MR125 MR125 MR123 MR124 MR125 MR125 MR123 MR124 MR125 MR15 MR15 MR15 MR15 MR15 MR15 MR15 MR1	Lab. Ref. Description of cement NO. MR121 SHIVAM OPC MR122 SHIVAM OPC MR123 SHIVAM OPC MR124 SHIVAM OPC MR125 SHIVAM OPC MR126 SHIVAM OPC MR127 SHIVAM OPC MR128 SHIVAM OPC MR129 SHIVAM OPC MR120 SHIVAM OPC MR121 SHIVAM OPC MR125 SHIVAM OPC MR126 SHIVAM OPC MR127 SHIVAM OPC MR128 SHIVAM OPC MR129 SHIVAM OPC MR120 SHIVAM OPC MR121 SHIVAM OPC MR125 SHIVAM OPC MR126 SHIVAM OPC MR127 SHIVAM OPC MR128 SHIVAM OPC MR129 SHIVAM OPC MR120 SHIVAM OPC MR121 SHIVAM OPC MR122 SHIVAM OPC MR125 SHIVAM OPC MR126 SHIVAM OPC MR127 SHIVAM OPC M	Lab. Ref. Description of cement Testing NO. Date MR121 SHIVAM OPC 11/6/2016 MR122 SHIVAM OPC 12/6/2016 MR123 SHIVAM OPC 13/6/2016 MR124 SHIVAM OPC 14/6/2016 MR125 SHIVAM OPC 15/6/2016 MR125 SHIVAM OPC 15/6/2016 MR126 SHIVAM OPC 15/6/2016 MR127 Image: Comparison of cement Image: Comparison of cement MR124 SHIVAM OPC 14/6/2016 MR125 SHIVAM OPC 15/6/2016 Image: Comparison of cement Image: Comparison of cement Image: Comparison of cement Image: Comparison of cement Image: Comparison of cement Image: Comparison of cement Image: Comparison of cement Image: Comparison of cement Image: Comparison of cement Image: Comparison of cement Image: Comparison of cement Image: Comparison of cement Image: Comparison of cement Image: Comparison of cement Image: Comparison of cement Image: Comparison of cement Image: Comparison of cement Image: Comparison of cement Image: Comparison of cement	Lab. Ref. Description of cement Testing Consistent NO. Date Norm. Const. Norm. Const. MR121 SHIVAM OPC 11/6/2016 37.3 MR122 SHIVAM OPC 12/6/2016 37.1 MR123 SHIVAM OPC 13/6/2016 37.7 MR124 SHIVAM OPC 14/6/2016 37.3 MR125 SHIVAM OPC 15/6/2016 37.3 MR125 SHIVAM OPC 15/6/2016 37.3 MR125 SHIVAM OPC 15/6/2016 37.3 MR126 SHIVAM OPC 15/6/2016 37.3 MR127 Image: Comparison of cement Image: Comparison of cement Image: Comparison of cement MR124 SHIVAM OPC 14/6/2016 37.3 Image: Comparison of cement Image: Comparison of cement MR125 SHIVAM OPC 15/6/2016 37.3 Image: Comparison of cement Image: Comparison of cement Image: Comparison of cement Image: Comparison of cement Image: Comparison of cement Image: Comparison of cement Image: Comparison of cement Image: Comparison of cement Image: Comparison of cement	Lab. Ref. Description of cement Testing Consistency & Setting NO. Date Norm. Const. Intial((min.) MR121 SHIVAM OPC 11/6/2016 37.3 185 MR122 SHIVAM OPC 12/6/2016 37.3 185 MR123 SHIVAM OPC 13/6/2016 37.1 180 MR124 SHIVAM OPC 14/6/2016 37.7 190 MR125 SHIVAM OPC 15/6/2016 37.3 175 MR126 SHIVAM OPC 15/6/2016 37.3 175 MR127 Image: State of the st	Lab. Ref. Description of cement Testing Date Consister: & Setting Time NO. Norm. Const. Intial(min.) Final(min.) MR121 SHIVAM OPC 11/6/2016 37.3 185 320 MR122 SHIVAM OPC 12/6/2016 37.3 185 320 MR123 SHIVAM OPC 13/6/2016 37.1 180 325 MR124 SHIVAM OPC 14/6/2016 37.7 190 315 MR125 SHIVAM OPC 15/6/2016 37.3 175 320 MR125 SHIVAM OPC 15/6/2016 37.3 175 320 MR125 SHIVAM OPC 15/6/2016 37.3 175 320 MR126 SHIVAM OPC 15/6/2016 37.3 175 320 MR126 SHIVAM OPC 15/6/2016 37.3 175 320 MR127 Image: State

Biratnagar-Sub-Metropolitant City

SUMMERY OF THE MORTAR WORK MIX CUBE

FOR THE MONTH OF JUNE 2016

S.N.	LAB REF	Name of	Location/Structure	Details of MIX	Çasting	Consiste	ency & Settin	ng Time	7 day's cube Crushing 28		28 day's cu	be crushing	Remarke
	No.	CEMENT				Norm. Const.	Intial(min.)	Final(min.)	Date	Str. N/mm2	Date	Str. N/mm2	Kennarka
1	289	Shivam	R3 Line	1:4 by volume	5/5/216	36.60	190	305	3/6/2016	6.00	3/6/2016	7.62	
2	290	Shivam	T3 Line Man Hole Ch:1+900	1:4 by volume	5/5/2016	36.60	190	305	12/5/2016	6.00	3/6/2016	7.89	
3	291	Shivam	T3 Line Man Hole Ch:1+880	1:4 by volume	6/5/2016	36.00	225	300	13/5/2016	5.90	4/6/2016	7.89	
4	292	Shivam	T3 Line Man Hole Ch:1+900	1:4 by volume	7/5/2016	36.10	240	305	14/5/2016	5.90	5/6/2016	7.76	
5	293	Shivam	T3 Line Man Hole Ch:1+920	1:4 by volume	8/5/2016	36.30	170	245	15/5/2016	5.90	6/6/2016	7.89	
6	294	Shivam	R3 Line	1:4 by volume	9/5/2016	33.70	175	225	16/5/2016	5.90	7/6/2016	7.76	
7	295	Shivam	R3 Line	1:4 by volume	10/5/2016	34.30	140	260	17/5/2016	6.00	8/6/2016	7.62	
8	296	Shivam	R3 Line	1:4 by volume	11/5/2016	35.40	140	250	18/5/2016	5.30	9/6/2016	7.76	
9	297	Shivam	R3 Line Road No:22	1:4 by volume	12/5/2016	36.00	165	265	19/5/2016	5.30	10/6/2016	7.89	1
10	298	Shivam	R3 Line Road No:24	1:4 by volume	12/5/2016	36.00	165	265	19/5/2016	6.00	10/6/2016	7.76	
11	299	Shivam	R3 Line	1:4 by volume	13/5/2016	36.00	165	265	20/5/2016	6.30	11/6/2016	7.62	
12	300	Shivam	T3 Line Man Hole	1:4 by volume	13/5/2016	36.00	165	265	20/5/2016	6.40	11/6/2016	7.89	
13	301	Shivam	T3 Line Man Hole	1:4 by volume	14/5/2016	36.00	165	265	21/5/2016	5.90	12/6/2016	7.89	
14	302	Shivam	T3 Line Man Hole	1:4 by volume	14/5/2016	36.00	165	265	21/5/2016	6.00	12/6/2016	7.62	
15	303	Shivam	High Way Man Hole Work	1:4 by volume	14/5/2016	36.00	165	265	21/5/2016	5.70	12/6/2016	7.89	
16	304	Shivam	T3 Line Man Hole	1:4 by volume	15/5/2016	36.70	225	275	22/5/2016	6.00	13/6/2016	7.76	-
17	305	Shivam	R3 Line Road No:24	1:4 by volume	15/5/2016	36.70	225	275	22/5/2016	6.00	13/6/2016	7.62	
18	306	Shivam	R3 Line Road No:22	1:4 by volume	15/5/2016	36.70	225	275	22/5/2016	5.60	13/6/2016	7.89	
	NOTE:												
ł.			According to is 2250-19	81			MIN 45m	Max 600m	Require	d strength on	28 days not	less than 7.5 f	N/MM2
SMEC Appro Test C Consu	Brisbane oved by Co Checked by ultants Rej	-AQUA-BDA-Construction Su y A.C.S.E	CEMAT Inpervision Engineer/CSE		CTCE-I Submit Test co Contr	KALIKA J/V tted by Proje onducted by actore Reps	ct Manage Q.C Manage		/- v-				

SECONDARY TOWNS INTEGRATED URABAN ENVIRONMENTAL IMPROVEMENT PROJECT Biratnagar-Sub-Metropolitant City SUMMERY OF THE MORTAR WORK MIX CUBE FOR THE MONTH OF JUNE 2016

S.N.	LAB REF	Name of	Location/Structure	Details of MIX	Casting	Consist	ency & Setti	ng Time	7 day's cube Crushing		28 day's cu	be crushing	Remarks
	No.	CEMENT				Norm. Const.	Intial(min.)	Final(min.)	Date	Str. N/mm2	Date	Str. N/mm2	
19	307	Shivam	Dev Kota Chowck	1:4 by volume	16/5/2016	• 36.40	245	315	23/5/2016	5.60	14/6/2016	7.62	
20	308	Shivam	High Way Man Hole Work	1:4 by volume	16/5/2016	36.40	245	315	23/5/2016	6.00	14/6/2016	7.62	
21	309	Shivam	T3 Man Hole Work	1:4 by volume	16/5/2016	36.40	245	315	23/5/2016	5.90	14/6/2016	7.76	1
22	310	Shivam	T3 Man Hole Work	1:4 by volume	17/5/2016	36.60	240	285	24/5/2016	6.00	14/6/2016	7.76	
23	311	Shivam	T3 Man Hole Work	1:4 by volume	17/5/2016	36.60	240	285	24/5/2016	6.40	14/6/2016	7.89	
24	312	Shivam	R3 Line Road No:26	1:4 by volume	17/5/2016	36.60	240	285	24/5/2016	6.00	14/6/2016	7.76	-
25	313	Shivam	R3 Line Road No:24	1:4 by volume	18/5/2016	36.60	210	310	25/5/2016	6.00	15/6/2016	7.89	-
26	314	Shivam	High Way Man Hole Work	1:4 by volume	20/5/2016	36.30	130	375	27/5/2016	5.40	17/6/2016	7.62	
27	315	Shivam	High Way Man Hole Work	1:4 by volume	20/5/2016	36.30	130	375	27/5/2016	5.70	17/6/216	7.76	
28	316	Shivam	High Way Man Hole Work	1:4 by volume	21/5/2016	36.60	185	285	28/5/2016	6.30	18/6/2016	7.62	
29	317	Shivam	T3 Man Hole Work	1:4 by volume	21/5/2016	36.60	185	285	28/5/2016	6.30	18/6/2016	7.89	-
30	318	Shivam	High Way Man Hole Work	1:4 by volume	22/5/2016	36.90	180	280	29/5/2016	6.10	19/6/2016	7.89	
31	319	Shivam	High Way Man Hole Work	1:4 by volume	22/5/2016	36.90	180	280	29/5/2016	6.10	19/6/2016	7.89	
32	320	Shivam	High Way Man Hole Work	1:4 by volume	23/5/2016	37.00	285	305	30/5/2016	6.00	21/6/2016	7.89	-
33	321	Shivam	High Way Man Hole Work	1:4 by volume	23/5/2016	37.00	285	305	30/5/2016	6.00	21/6/2016	7.76	
34	322	Shivam	High Way Man Hole Work	1:4 by volume	24/5/2016	36.60	250	330	31/5/2016	5.90	22/6/2016	7.89	
35	323	Shivam	R-24 Line	1:4 by volume	25/5/2016	37.00	270	315	1/6/2016	6.10	23/6/2016	7.62	
36	324	Shivam	High Way Man Hole Work	1:4 by volume	26/5/2016	36.90	250	305	2/6/2016	5.40	23/6/2016	8.03	
37	325	Shivam	High Way Man Hole Work	1:4 by volume	29/5/2016	36.90	185	320	5/6/2016	6.00	25/6/2016	8.03	
38	326	Shivam	High Way Man Hole Work	1:4 by volume	1/6/2016	36.90	185	330	8/6/2016	6.00	28/6/2016	7.89	
39	327	Shivam	S13 L1	1:4 by volume	2/6/2016	36.70	180	340	9/6/2016	6.30	29/6/2016	7.76	
40	328	Shivam	RANI Line-5	1:4 by volume	2/6/2016	36.70	180	340	9/6/2016	6.00	29/6/2016	7.89	-
41	329	Shivam	R-24 Line	1:4 by volume	3/6/2016	37.10	175	350	10/6/2016	6.00	30/6/2016	7.89	
42	330	Shivam	R3 Line	1:4 by volume	3/6/2016	37.10	175	350	10/6/2016	6.10	30/6/2016	7.76	
												1.10	
		-					MIN 45m	Max 600m	Require	a strength or	n 28 days not	less than 7.5 l	N/MM2

SMEC-Brisbane-AQUA-BDA-CEMAT

Approved by Construction Supervision Engineer/CSE

CTCE-KALIKA J/V

Submitted by Project Manager Test conducted by Q.C Manager

Consultants Reps

Test Checked by A.C.S.E

Contractore Reps

ANNEX-8: CONTRACTOR'S PROGRESS REPORT- JUNE 2016

Government of Nepal Biratnagar Sub-Metropolitan City, Biratnagar, Nepal Secondary Towns Integrated Urban Environment Improvement Project (STIUEIP) Project Implementation Unit(PIU) Biratnagar, Nepal



Project Directorate (ADB)

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

Monthly Progress Report – 31

June,2016

Consultants:



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

Submitted by:



Address: Kalika tower-6thfloor, Baluwatar, Kathmandu, Nepal. Tel: 01-4439152, 4439153, 4439154, Fax: 01-4439155. E-mail: <u>info@kalikagroup.com</u>, Site Office: Katahari Tel. 9852024596 E-mail: <u>kalikabrt@gmail.com</u>

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LA	3 REPORT SUMMARYxxi

1 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 Sub-Metropolitan City
	Secondary Towns Integrated Urban Environmental Improvement
Project	Project(STIUEIP)
Contract No.	STIUEIP/W/BRT/ICB-01
Location	Biratnagar Sub-Metropolitan City
Consultant	SMEC-Brisbane-AQUA-BDA-CEMAT
Contractor	CTCE-KALIKA JV.
Commencement Date	December 8th, 2013
Completion Date	9 th of March 2017
Contract Period	30 month
Contract amount with	
Provisional Sum	NRs 2,119,054,525.90
Revised Grand Total	
Contract amount with	
VAT&PS	NRs 2,719,617,069.21

2 Introduction

This Secondary Town Integrated Urban Environmental Improvement Project (STIUEIP), Sewerage and Drainage Network, Wastewater Treatment Plant and Lanes Improvement Subproject Biratnagar is funded by Asian Development Bank and Government of Nepal. The project area is in the Morang district, Biratnagar Sub-metropolitan City which lies in the Eastern Part of Nepal.

3 Sub-Project Components

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

Sewerage and Drainage Network Subproject

A separate system of storm water drainage and sewer line will be constructed at Biratnagar under this project.

- Wastewater Treatment Plant Subproject A Waste Water Treatment Plant (WWTP) will be constructed at Jatuwa, draining the wastewater finally to Singhiya River.
- Road and Lanes Improvement Subproject Existing road sections at different part of Biratnagar will be upgraded providing proper drainage facility.

4 Scope of works

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

- a. 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.
- h. 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 Rajbanshi Chowk to Rani, Biratnagar where the sewer pipes, drains and road/lane is to be laid in a narrow road. In this section work in addition to that associated with the trunk main, will include but not be limited to, removal and replacement of a sewer laid in the road and reinstatement of road surface.
- k. To liaise with other contractors on the site and to ensure harmonious co-operation with them so that conflicts are avoided and areas of common interest, constructional interface or potential overlaps are addressed without cost to the Employer or delays in completion.

- To prepare documentary records of the Works in the form of "as-built" drawings and GIS data, schedules etc., and to train staff of the Employer in the procedures for laying pipes, valves and fittings.
- m. All the above activities shall be performed in a professional way and with good engineering and/or constructional practice. Upon completion of the Works the scheme shall be fully operational with minimum disruption or inconvenience to interested parties, including land owners, and there shall be no outstanding matters requiring attention.

5 Brief on procurement packages

The procurement procedures for construction material have already been started. Agreements have been made with the factories for the procurement of Brick, Cement, Steel, uPVC, HDPE pipe, machinery and equipment, electrical components, manhole covers, rubber rings etc.

6 Details of the project execution

6.1 Physical Progress (Achievement till the month)

a) Storm Water Drain Sub-Project (Work Progress till the date)

<u>Drain</u>	Lines	Length	Total Length (m)	Till Previous Month	Till This Month	This Month Work	Plan for Next Month	Remarks
	B1L1	965.98		965.98	965.98			
	B1L2	1148.98		1,256.00	1,256.00			
	B1L2A	465.77		490.00	490.00			
B1	B1L2B	137.09	3580	137.00	137.00			
	B1L2C			-	-			
	B1L2D	490.97		494.00	494.00			
	B1L2F	371.22		285.00	285.00			
				-	-			
	B2L1	1425		1,415.00	1,415.00			
B2	B2L2	828.03	37/2	828.00	828.00			
D2	B2L2C	639.22	5742	631.00	631.00			
	B2L1B	849.47		850.00	850.00			
				-	-			
	B3L1A	422.96		420.96	420.96			
	B3L1B	421.1		421.10	421.10			
	B3L1	669.7		718.50	718.50			
B3	B3L2	691.56	3514	714.80	714.80			
	B3L2E	220.42		-	-			
	B3L3	578.74		578.00	578.00			
	B3L4	509.5		509.50	509.50			
				-	-			
50	S9L1	2981.85	3178	2,104.00	2,120.00	16.00		
39	S9L1D	195.65	5178	-	-			
				-	-			
	S11L1	794		794.00	794.00			
S11	S11L1A	265.75	2092	265.75	265.75			
511	S11L1B	107.5	2072	107.50	107.50			
	S11L2	925		915.00	915.00			
				-	-			
	S13L2	1262		1,248.00	1,248.00			
	S131A	918.23		768.00	768.00			
	S13L1B	276		276.00	276.00			
S13	S13L1C	284	5640	284.00	284.00			
515	S13L1D	535.04	50-10	535.04	535.04			
-	S13L1E	672.02]	342.02	342.02			
	S13L1F	1048	ļ	723.00	723.00			
	Hume Pip	645		687.50	687.50			

			Drain Construction (m)					_
<u>Drain</u>	Lines	Length	Total Length (m)	Till Previous Month	Till This Month	This Month Work	Plan for Next Month	Remarks
	CN2L2	949.23		975.00	975.00			
CN2	CN2L1	994.5	2773	657.50	667.50	10.00		
CIV2	CN2L1A	134.02	2213	-	-			
	CN2L1B	195.27		-	-			
	CNDL 1 A	456.00		-	-			+
CN3	CN3L1A	436.89	2170	-	-			+
CNJ	CN3L2	997 5	2170	512.50	512.50			
	01(0112	,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,		-	-			
S5	S5L1A	1932	2308	1,172.00	1,172.00			
	S5L1B	376		-	-			
				-	-			
	L1	560		336.00	360.00	24.00		
	L5	796		644.00	694.00	50.00		
	L5C	681		200.00	200.00			
	L5D	680		150.00	150.00			
	L2M	266		171.00	171.00			
	L2J	526	1	450.00	450.00			
Rani	L3	416	0700	285.00	285.00			
	L4	2311	9708	1,331.00	1,331.00			
	L4C	381		381.00	381.00			
	L4D	381		380.00	380.00			
	L6	1170		512.00	512.00			
	2C	310		209.00	209.00			+
	3C	420		406.00	406.00			
	3B	250		140.00	140.00			+
	02			-	-			+
	R2.	6000	6000	6 325 00	6 325 00			
	R3	3393	6000	1,007,00	1 488 00	481.00		+
	R4	970	970	660.00	660.00	101.00		+
	R5	1715	1715	700.00	700.00			+
	R64	1/15	1715	121.00	121.00			+
	R16	430	430	200.00	290.00	90.00		+
	R10	358	358	136.00	314 50	178 50		+
	R22 R24	306	396	180.00	285 70	105 70		+
	R24	606	606	150.00	203.70	58.00		+
Road Side	R25	861	861	833.00	833.00	30.00		+
Drains	P 27	007	007	450.00	575.00	125.00		+
	D 107	247	247	91.20	155.00	74.00		+
	T21 190	247 272	247	204.00	268.00	64.00		+
	T2L10U	274.8	272	204.00	208.00	04.00		+
	T2L 10C	214.0	213	205.00	205.00			┥──┨
	T2L19C	330	330	414.00	414.00			+
F	T2L 27	401	401	414.00	414.00			╂────┨
	13L2/	640 1.40	640	280.00	280.00			
F	T3L28	148	148	145.00	145.00			╂────╂
	13L3/	470	470	337.00	337.00			+
								∔
TotaPilgen	gĩh				43,320.96	1,276.20	Contractor	CTCE-KALIKA

Site Office: Katahari, Judi

~).		80.000		Former Construction (m)								r –
<u>Sewer</u> Line	Lines	Length	Total Length (m)	Till Previous Month	Till This Month	This Month Work	Plan for Next Month	Total Manholes	Sewer Inlet	House Connecti ons	uPVC Pipe	Remarks
T1 Trunk	600 dia h	ume Pipe	6864	1627.5	1,712.50	85		39				
T2 Trunk	1000 dia	hume pipe	1729	1,815.00	1,815.00			61				
T2 Trunk	900 dia h	ume pipe	518	518.00	518.00			17				
T2 Trunk	700 dia h	ume pipe	6864	2,137.50	2,137.50			34				
T3 Trunk	700 dia h	ume Pipe	1472	1,680.50	1,680.50			26				
T3 Trunk	600 dia h	ume Pipe	1141	267.00	267.00			9				
Line T2L	19 350 dia	a Hume Pip	345	200.00	200.00			7				
Line T2L	19 400 dia	a Hume Pip	487	460.00	460.00			15				
Line T2L	19 500 dia	a Hume Pip	45	45.00	45.00			2				
Total leng	gth of Hur	ne Pipe			8,835.50	85.00		209				
T1 Sec												
	5			103.00	103.00			3				
	6			97.00	97.00			3				
	6A			125.00	125.00			4				
	7			166.00	166.00			6				
	7A			50.00	50.00			2				
	7B			200.00	200.00			7				
	7C			62.00	62.00			2				
	7D			169.00	169.00			6				
	7E			62.00	62.00			2				
	12			205.00	205.00			7				
	14		4048	139.60	139.60			5				
	15			209.00	209.00			7				
	15A			188.00	188.00			6				
	16			254.00	254.00			8				
	16A			81.00	81.00			3				
	16B			142.30	142.30			5				
	16C											
	17			232.20	232.20			8				
	17A			77.80	77.80			3				
	17B			83.80	83.80			3				
	17C			79.80	79.80			3				

b) Sewerage Sub-Project (Work Progress till the date)

				Sewer Construction (m)								
Sewer	Lines	Length	Total	Till	Till Thie	This	Plan for	Total	Sowor	House	uPVC	Remarks
Line	Lines	Length	Length (m)	Previous	Month	Month	Next	Manholes	Inlet	Conne cti	Pine	Kt marks
				Month	month	Work	Month	infumore 5	Inter	ons	Tipe	
T2 Sec												
	1012			147.00	1.47.00			5				
	18F1			96.00	96.00			3				
	18G			145.00	145.00			5				
	18U			331.70	331.70			11				
	18P			139.60	139.60			5				
	18Q			195.40	195.40			7				
	18Q.S			43.00	43.00			2				
	18R			357.30	357.30			12				
	18U			128.00	128.00			4				
	18V			54.80	54.80			2				
	18W			162.00	162.00			5				
	181			170.80	170.80			5				
	18Z			46.60	46.60			2				
	19b			272.30	272.30			9				
	19c			276.30	276.30			9				
	19d			299.00	299.00			10				
	19e			160.50	160.50			5				
	19f			204.10	204.10			7	14.00			
	19g			67.80	67.80			2	4.00			
	19h			181.40	181.40			6	12.00	12.00		
	19j 10k			355.00	355.00			12	24.00	12.00		
	19K 19I			210.30	210.30			7				
	19ma			179.40	179.40			6				
	19mb			232.35	232.35			8				
	19n			162.50	162.50			5				
	190			114.70	114.70			4				
	19p			140.90	140.90			5				
	19q			234.20	234.20			8				
	19r		27128	264.20	264.20			9				
	198			2/1.00	2/1.00			9		18.00	145.00	
	19t 19u			61.80	61.80			2		18.00	145.00	
	19G			160.00	160.00			5				
	19H			72.00	72.00			2				
	19I			191.00	191.00			6				
	19K			247.00	247.00			8				
	19N			132.00	132.00			4				
	19R			110.70	110.70			4				
	19T			137.60	137.60			5				
	190			61.80	61.80			2				
	197			50.00	50.00			2				
	19W			49.80	49.80			2				
	19Y	L		86.70	86.70		L	3				
	19Z			66.80	66.80			2				
	20			180.00	180.00			6				
	22			260.10	260.10			9	10.00			
	23			217.00	217.00			7	6.00			
	24A			260.70	260.70			9	20.00	4.00		
	26			364.00	364.00			12				
ļ	20U			239.00	259.00			9				
	201°			207.00	207.00			7				
	28			279.00	279.00			9				
	29			296.90	296.90		L	10				
	18j			232.20	232.20			8				
	18QS			306.00	306.00			10				
	19K			367.90	367.90			12				
	180			102.00	102.00			3				
	18QS			301.00	301.00			10				
						-		- 1				

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

				Sewer Construction (m)								
<u>Sewer</u> <u>Line</u>	Lines	Length	Total Length (m)	Till Previous Month	Till This Month	This Month Work	Plan for Next Month	Total Manholes	Sewer Inlet	House Connecti ons	uPVC Pipe	Remarks
T3 Sec												
	7			210.00	210.00			7				
	7B			200.00	200.00			7				
	11D			112.00	112.00			4				
	13B			79.00	79.00			3				
	13C			58.00	58.00			2				
	23C			155.00	155.00			5				
	24B			84.00	84.00			3				
	26C			60.00	60.00			2				
	13F			183.60	183.60			6				
	25B			201.40	201.40			7				
	25C			139.60	139.60			5	9.00			
	26			126.50	126.50			4				
	26A			135.80	135.80			5				
	26B			171.80	171.80			6				
	26C			412.10	412.10			14				
	26D			98.80	98.80			3				
	26E		22070	358.80	358.80			12				
	26F		23070	108.60	108.60			4				
	26G			110.80	110.80			4				
	26H			155.60	155.60			5				
	27			371.50	371.50			12				
	28]	247.10	247.10			8				
	29]	153.80	153.80			5				
	30]	245.10	245.10			8				
	31			174.40	174.40			6				
	31A			171.50	171.50			6				
	32			219.20	219.20			7				
	33			391.80	391.80			13	25.00	35.00		
	33A			121.20	121.20			4				
	33B			161.00	161.00			5				
	34]	312.70	312.70			10	14.00	12.00		
	35]	223.30	223.30			7	14.00	15.00		
	36]	160.50	160.50			5				
	37]	204.30	204.30			7				
]									
Total Len	gth of HD	PE Pipe			20.371	-		683	152	96	145	

C) Road Works (Work Progress till the date)

	Total Length (m)	Road Works							
<u>Road</u> <u>Line</u>		Till Previous Month	Till This Month	This Month Work	Plan for Next Month	Remark s			
R2 Road	6200	2096	2096						

S.N.	Description of Work	This	Total	Program for Next	Remarks
		month	Length/Nos	Month	
1	Excavation of Ponds-	0	3 nos		
	Anaerobic				
2	Excavation of Ponds-	0	2 nos		
	Facultative				
3	River Training Works	0	515m		
4	Boundary wall construction	0	580 m		
5	Office cum lab building,	All co	mplete except		
	WWTP, Jatuwa	finishing	works		
5	Workshop Building &	All	complete except		
	Generator/Changing	finis	hing works		
	Building, WWTP, Jatuwa				
6	Sump Well	Part	ially excavated		

c) Wastewater Treatment Plant Sub-Project (Work Progress till the date)

d) Production of Precast Items from Slab Casting Contractor's Yard, Katahari

S.N.	Description	Unit	Till Previou s Month	Till This Month	This Month Work	Remarks
1	Slabs	Nos	77300	84330	7030	
2	Precuts	Nos.	8559	9209	650	
3	Kerb Stone	Nos.	20075	21855	1780	

e) Production of Precast Chambers at Contractor's Yard Katahari

S.N.	Description	Unit	Till Previous Month	Till This Month	This Month Work	Remarks	
1	Manhole	Nos	2178	2192	14		
2	Sewer Inlet	Nos.	1480	1499	19		
3	House Connection	Nos.	1330	1346	16		

SN	1	2	3	4	5	6	7	8	9	10	11
Diameter	200mm ф	300mm ф	350mm ф	400mm ф	450mm ф	500mm ф	600mm ф	700mm ф	900mm ф	1000mm ф	1600mm ф
No of Moulds	38	3	2	2	2	3	8	8	2	4	2
Production Till											
Previous											
Month	2123	328	216	370	84	513	942	1296	278	1011	373
This Month											
Production	0	0	0	0	0	38	21	0	0	0	0
Total											
Production	2123	328	216	370	84	551	963	1296	278	1011	373

f) Hume Pipe Production from Hume Pipe Production Factory, Itahari

6.2 Financial Progress and Cash Flow

Detail of payment:

Installment Number	Total Bill Amount With Vat and PS(NRs)	Net Payble Amount (NRs.)	%	Remarks	
IPC 01		200,940,000.00		Advance Payment 01	
IPC 02	29,553,479.92	27,853,500.98		IPC 2	
IPC 03	50,406,775.75	47,507,270.95		IPC 3	
IPC 04	44,819,505.68	42,241,392.52		IPC 04	
IPC 05	23,380,168.96	22,035,291.99		IPC 05	
IPC 06	90,796,339.68	85,573,541.38		IPC 06	
IPC 07	80,854,600.52	76,203,672.17		IPC 07	
IPC 08	122,334,488.86	115,297,549.23		IPC 08	
IPC 09	116,092,187.14	109,414,317.97		IPC 09	
IPC 10	132,327,417.89	124,715,663.77		IPC 10	
IPC 11	169,853,829.07	160,083,476.07		IPC 11	
IPC 12	23,121,515.46	16,931,906.24		IPC 12	
IPC 13	85,563,926.44	62,658,539.06		IPC 13	
IPC 14	163,562,505.71	119,776,967.67		IPC 14	
IPC 15	139,008,112.96	101,795,764.14		IPC 15	
IPC 16	137,640,413.95	100,794,196.94		IPC 16	
IPC 17	135,118,714.02	98,947,553.85		IPC 17	
Progress of June	63,000,000.00			Jun-16	
Total amount of Ipc=	1,607,433,982.01	1,311,830,604.92	59.10	Progress Percentage WRT Total IPC Amount With Vat and PS	

7 Details of Safeguard activities

Till the date no such issues have been faced relating to the Social, Environmental and Resettlement matter.

8 Key Issues and Remarks

Following issues were raised in this month

- Submitted Claim No.01 to 05 has not addressed up to this month.
- Delima in working further due to lack of BoQ item such as; Reinforcement,Brickwork,M25 Concrete etc.
- Lack of Amount in Provisional sum which has created delima in shifting Electric pole and Water supply pipe lines.
9 Work Plan Professional input



S.N.	Designation	No.	Remarks
1	Project/ Contract Manager	1	
2	Planning/ Construction	1	
	Engineer		
3	Construction Engineer	1	
4	Site Engineers	5	
5	Quality Control Manager	1	
6	Office/ Bill Engineer	1	
7	Junior Engineer	10	
8	Sub-Overseer	6	
9	Senior Site Supervisor/Safety	1	
	Manager		
10	Accountant/ Office Manager	1	
11	Lab Assistant	3	

12	Site Supervisor	5	
13	Store Keeper	4	
14	Light Drivers	6	
15	Machine Operator	14	
16	Other Supporting Staffs	18	
17	Skilled Labors	>80	>68m/ 12f
18	Unskilled Labors	> 150	>120m/ 300f

S.N.	Name	Designation	AttendanceDays
1	Ujjwal Prasai	Project Manager	23
2	Bishesh Prasai	Engineer	20
3	Mahesh Subedi	Construction Engineer	25
4	Suresh Maharjan	Design Engineer	23
5	Sujit Dahal	Office/Bill Engineer	25
6	Santosh Kumar Yadhav	Site Engineer	25
7	Naveen Khanal	Site Engineer	25
8	Sunil Chaudhary	Quality Control Manager	25
9	VishwoBandhuMainali	Accountant/ Office Manager	25
10	Krishna Adhikari	Jr. Accountant	25
11	Narayan Rijal	Senior Site Supervisor/Safety Manager	25
12	Sagar Shrestha	Junior Engineer	20
13	Dipesh Kumar Chaudhary	Junior Engineer	25
14	Suraj Chaudhary	Junior Engineer	22
15	Siddhartha Nepal	Junior Engineer	25
16	Sujan Singh Thakuri	Junior Engineer	24
17	Bipin Rai	Junior Engineer	25
18	Sauvagya Shrestha	Junior Engineer	25
19	Suman Shrestha	Junior Engineer	22
20	Bishal Shrestha	Junior Engineer	24
21	Sanjay Shrestha	Junior Engineer	25
22	Chiranjivi Poudel	Junior Engineer	22
23	Ishwor Sharma	Sub-Overseer	24
24	Manish Subedi	Sub-Overseer	24
25	Gaurab Subba	Sub-Overseer	20
26	SabitaThapa	Sub-Overseer	24
27	Prakash Bhattarai	Sub-Overseer	25
28	PradipRai	Sub-Overseer	25
29	AjayaRai	Site Supervisor	25
30	Uttar Karki	Site Supervisor	24
31	IshowrAdhikari	Site Supervisor	20

32	Santosh Mukhiya	Site Supervisor	22
33	Anil Pokhrel	Site Supervisor	24
34	Prasasan Rajbansi	Site Supervisor	25
35	Tanka Pokhrel	Store Manager	25
36	Manoj Pandit	Store Assistant	25
37	Nirnaya Upreti	Store Assistant	23
38	GopiYadav	Store Assistant	25
39	Dipesh Dahal	Lab Assistant	20
40	Ramesh Koirala	Lab Assistant	25
41	Mahakanta Risidev	Lab Assistant	25
42	Sandeep Pyakurel	Light Driver (7621)	24
43	Gurucharan Yadhav	Light Driver (1082)	23
44	Kiran Manandhar	Light Driver (1086)	25
45	Satya Dhimal	Light Driver	24
46	Dip Budathoki	Light Driver	22
47	Mangal Kisku	JCB Operator	23
48	Surya Bdr. Malla	Loader Operator	22
49	Rupana Chaudhary	TM Driver	25
50	BhabeshRai	Batching Operator	20
51	Chandan Roy	Pc-200 Operator	25
52	Jeet Bdr Gurung	Teller (4423) Driver	25
53	Ananda Rajbansi	Electrician	25
54	Kamal Yadhav	Electrician	25
55	PappuYadav	Mechanic	25
56	Mukesh Mandal	Mechanic	25
57	Bhanu Bhakta Kafle	Plumber	22
58	Ganga Ram Dhital	Plumber	25
59	Niroj K. Puri	TM Driver(7561)	25
60	Dhan Kaji Gurung	TM Helper	25
61	Indra Rajbansi	Tractor Driver (6204)	25
62	Kartik Tharu	Tractor Driver (8304)	25
63	Tilak Ghalan	Transit mixer Driver	25

64	Nakkul Paddhar	Tanker Driver	25
65	Udit Narayan	Tanker Driver	25
66	BasudevYadav	Tractor Driver	25
67	Sudeep Rajbansi	JCB Helper	25
68	Manita Shrestha	Kitchen Helper	25
69	KalpanaTamang	Kitchen Helper	25
70	Sita Thapa	Kitchen Helper	25
71	Pabitra Rai	Kitchen Helper	25

Details of Equipment

				Working Sta	tus	
S.N.	Particular	Model/Type	Capacity	No of used Equipment	Status	Remarks
Α	Vehicle and Equipment					
A.1	Excavators					
	CAT Excavator with vibrating compactor PC320	PC320		1	Good	
	Komatsu Long Boom PC200	PC200		1	Good	
	Komatsu Excavator PC200	PC200		3	Good	
	Komatsu Excavator PC120	PC 120		1	Good	
	Kobelko Excavator 75	Kobelko 75		1	Good	
	Hundai Excavator PC200	PC 200		2	Good	
	Hundai Excavator	PC 120		1	Good	
	Cat Excavator 320	Caterpillar		1	Good	
A.2	JCB					
	JCB Hydra	JCB		1	Good	
	JCB Loader	JCB		1	Good	
	JCB Backhoe	JCB		6	Good	
A.3	Grader					
	Komatsu Grader GD405	Komatsu		1	Good	
A.4	Crane/Teller					
	Crane with Teller			1	Good	
	Teller			2	Good	
A.5	Water Tanker					
	Water Tanker		12000 Lt.	4	Good	
	Water Tanker		6000Lt	2	Good	
A.6	Tractors/Tipper					
	Tractors	Indian	3 m ³	9	Good	
	Tipper		15 m ³	17	Good	
A.7	Service Vehicle				Good	
	Jeep	Pajero	5 door	1	Good	
	Jeep	Land crusher	5 door	2	Good	
	Jeep	Indian/Tata Sumo	5 door	1	Good	
	Jeep	Indian/Bolero	5 door	1	Good	
	Pickup	Indian/Mahindra	4 door	1	Good	
	Motorbike	125CC		10	Good	
A.8	Other Equipment and Tools					
	Kerb Stone Machine Set			1	Good	

	Particular			Working Sta	tus	
S.N.	Particular	Model/Type	Capacity	No of used Equipment	Status	Remarks
	Generator	Jackson	125KVA	1	Good	
	Generator	Kirloskar	20KVA	2	Good	
	Generator	Kirloskar	10KVA	1	Good	
	Generator	Honda	5KVA	1	Good	
	Generator	Super	5KVA	1	Good	
	Generator	Lutian	2.5 KVA	1	Good	
	Welding Machine	Oswal,India	650amp	1	Good	
	Welding Machine		350amp	1	Good	
	Welding Machine		250amp	1	Good	
	Diesel tank with Pump		60000 Ltr.	1	Good	
	Stand Drill Machine	India	1 HP	1	Good	
	Gas Cutter Set			1	Good	
	Pipe Cutter			1	Good	
	Hand Grinder			1	Good	
	Plate Compactor			2	Good	
	Monkey Jumper			3	Good	
В	Concreting Unit					
	Batching Plant CONMAT all Set	CONMAT, India	45 m3/ hr	1	Good	
	Electric Vibrator with Needle			10	Good	
	Bar Bending Machine		4 ton/hr	3	Good	
	Bar Cutter Machine		4 ton/hr	3	Good	
	Isuzu Transit Mixture		5 m ³	1	Good	
	Concrete Mixture Hydraulic			2	Good	
	Manual Mixture Machine			6	Good	
С	Roller					
	Pneumatic Tyre Roller			1	Good	
	Tandom Roller			3	Good	
	Steel Roller			1	Good	
D	Asphalt Concrete Production					
	Asphalt Concrete Plant		50 ton/ hr	1	Good	
	Decanter			1	Good	
	Asphalt Paver Machine			1	Good	

10 Conclusion

Project work is under the progress by mobilizing sufficient manpower, equipments at the construction site although number of issues / obstruction raised at site.Mansoon has started which has halted almost all the site.



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

<u>S – Curve</u>

Item	Description	Amount	Relative	Year	2013					Ye	ar 20	14											Year	r 2015							Ye	ar 20	16	
No.	Description	(NRs)	in %	Month	Dec	Jan	Feb	Mar	Apr	May	Jun	July	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May
	Preliminary and General			Program	0.000	0.326	0.012	0.012	0.012	0.012	0.012	0.012	0.012	0.012	0.012	0.012	0.013	0.013	0.013	0.013	0.013	0.013	0.013	0.013	0.013	0.013	0.013	0.013)	0.013	0.012	x -0.015 *	7.01	0.01	0.119
1	Works	16,850,000.00	0.795	Achieve	0.000	0.326	0.012	0.012	0.012	0.012	0.012	0.012	0.012	0.012	0.012	0.012	0.012	0.012	0.012	0.012	0.000	0.000	0.090	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
				Program	0.000	0.005	0.508	0.369	0.295	1.811	1.509	0.100	0.384	0.408	0.150	3.293	4.549	5.859	7.607	7.454	7.513	6.078	5.050	1.742	1.503	0.000	0.000	3.366	6.433	2.047	8 46	6.788	2.617	0.000
2	Civil Works	1,972,492,008.90	93.08	Achieve	0.000	0.005	0.508	0.369	0.295	1.811	1.509	0.100	0.384	0.408	0.150	3.293	1.136	1.787	3.661	15.281	0.000	0.000	0.000	0.000	0.000	0.000	0.000	9.000	0.000	0.000	0.00	0.000	0.000	0.000
				Program	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.365	0.438	0.088	0.000	0.00	0.000	0.000	0.000	9.000	0.000		nightapp	rogram
3	Electro-mechanical Works	18,884,000.00	0.89	Achieve	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.00	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.00Be	evise ₀ 8n	ദ്യേഷ്യനും
	Provisional Items and			Program	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.196	0.196	0.196	0.196	0.196	0.100	0.196	0.196	0.06X	0.00×	0.005	0.196	0.196	0.196	0.197	0.197 B(Vised P 0.197 evised F	0.065
4	Provisional Sum	63,741,517.00	3.01	Achieve	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0,068	0.068	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000 -	0 .000	ri gi.valOP	rogram
-	Operation & Maintenance		1.62	Program	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.8	0.813	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	hiever	ent 0.000
2	Equipment and Machinaries	34,450,000.00	1.63	Achieve	0.00 <u>0</u>	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0 000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
	Loberatory Equipment	6 000 000 00	0.28	Program	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.090	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.174	0.109
0	Laboratary Equipment	8,000,000.00	0.28	Achieve	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
7	Operation and Maintenance	6 000 000 00	0.28	Program	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.283
'	Operation and Maintenance	0,000,000.00	0.28	Achieve	0.000	0.000	0.000	0.000	0.000	0.000	0.000	00000	-000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
0	Doouwrke	637.000.00	0.02	Program	0.000	0.000	0.000	0.000	0.000	X.000	0.000	0.000	0.000	0.000	0.000	0.000	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002
0	Buywono	001,000.00	0.05	Achieve	0.000	0.000	0.000	0.000	.000	2000	0.000	0:000	0:000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
	Total	2,119,054,525.90	100.00																															
Orio	inal Program	%	age		0.347	0.074	3.181	6.282	7.931	3.017	2.219	1.212	0.476	2.710	3.643	3.662	3.700	4.435	4.401	4.460	4.456	4.401	3.802	1.168	3.018	3.658	4.413	3.645	3.597	4.707	4.728	3.150	2.891	0.616
Ong	inar i rogram	Cumulative	% age		0.347	0.421	3.602	9.884	17.815	20.832	23.051	24.263	24.739	27.449	31.092	34.754	38.454	42.889	47.290	51.750	56.206	60.607	64.409	65.577	68.595	72.253	76.666	80.311	83.908	88.615	93.343	96.493	99.384	100.00
Revi	sed Program-1	% age			0.000	0.286	0.449	0.329	2.288	6.606	4.806	1.003	0.183	0.576	1.416	8.074	9.810	9.883	10.666	10.056	9.725	9.865	7.445	2.284	0.247	0.159	0.145	0.145	0.145	0.145	0.644	0.601	1.227	0.787
	iou i iogium i	Cumulativ e %age			0.000	0.286	0.735	1.064	3.352	9.958	14.764	15.767	15.950	16.526	17.942	26.016	35.826	45.709	56.375	66.431	76.156	86.021	93.466	95.750	95.997	96.156	96.301	96.446	96.591	96.736	97.380	97.981	99.208	100.00
Revi	sed Program-2	%	age		0.000	0.286	0.449	0.329	0.265	1.575	1.314	0.097	0.343	0.363	0.140	2.855	4.760	6.070	8.630	8.478	7.724	6.654	5.699	2.040	1.581	0.079	0.079	3.577	6.643	9.257	9.423	7.700	3.002	0.577
		Cumulative	% age		0.000	0.286	0.735	1.064	1.329	2.904	4.218	4.315	4.658	5.021	5.161	8.016	12.776	18.845	27.476	35.953	43.677	50.331	56.030	58.070	59.651	59.730	59.809	63.386	70.029	79.286	88.709	96.409	99.411	99.988
Revi	se Program 3	%	age		0.000	0.286	0.449	0.329	0.265	1.575	1.314	0.097	0.343	0.363	0.140	2.855	0.991	2.712	3.232	3.939	2.764	2.246	5.421	0.302	0.302	7.530	3.600	2.320	10.210	11.470	11.165	10.790	10.360	2.630
		Cumulative	% age		0.000	0.286	0.735	1.064	1.329	2.904	4.218	4.315	4.658	5.021	5.161	8.016	10.770	12.570	17.570	21.820	25.250	27.850	34.317	34.317	34.317	41.847	45.447	47.767	58.037	69.507	80.672	91.462	97.820	100.000
Ad	chievement	%	age		0.000	0.331	0.520	0.381	0.307	1.823	1.521	0.113	0.397	0.421	0.162	3.305	1.148	3.139	3.742	4.560	3.200	2.600	4.540	0.350	0.302	0.000	0.000	0.000	0.623	0.700	4.930	2.000	8.500	3.230
		Cumulative	% age		0.000	0.331	0.851	1.232	1.539	3.362	4.883	4.996	5.392	5.813	5.975	9.280	10.770	12.570	17.570	21.820	25.250	27.850	34.317	34.317	34.317	34.317	34.317	34.317	34.940	35.640	40.570	42.570	51.070	54.300

Work Schedule and Progress



Image: constrained by the constrai	10	Task	t felate w	Thule- 16	Nat 1	Test	
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B Order (Fig.) Part (Fig.) P		5	B1L2B(#34m)	28 days 0%	Burt 12/23/14	8 #1 1/24/16	
B Sector Sector Sector Sector Sector C Sector Sector Sector Sector Sector Sector Sector Sector Sector Sector Sector Sector Sector Sector Sector Sector Sector Sector Sector Sector Sector Sector Secto	-11	1	Wes Pat Line arriving	4 00/6 3 %	Sun 12/25/14	++02.1.2/51 14	
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1 1	72		Coversel with State	d days 3%	Sur U25/15	Ners 1.55/15	
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32 def def <td>311</td> <td></td> <td>Covering with Slab</td> <td>"d days 70".</td> <td>Th (25942)</td> <td>Tue 12/5014</td> <td>H. S.</td>	311		Covering with Slab	"d days 70".	Th (25942)	Tue 12/5014	H. S.
at List 8: PL 10 (0) PL 10 (34		Hoad Crossing Nanchori	113 00/0 114	6 LD 134/16	881 1/5' (He	
120 0 201 et it	34		Line #2	418 33/6444	Tue 2/25/14	Wed 4/15/14	
1 1	- 55-	3	92114968m	338 days 84%.	Tue 3/25/16	Tue 1/20/16	
1 2 3	342		Excertain	so days 70%	Tup 2/25/14	807 13/29/14	
1 Command Term Address National Strategies Address National Strategies National Strategies <th< td=""><td>-91</td><td></td><td>Soling = VPCV</td><td>To days apro-</td><td>Tractitistics</td><td>Sec. 12/10</td><td></td></th<>	-91		Soling = VPCV	To days apro-	Tractitistics	Sec. 12/10	
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10/2 Series versions 10/2016 Series versions	.91	10	Conviction .	95 days 205	Tel: 11/25/14	Son W Stra	
07 No. PRO 07 days (1h) The 11/2016 Son 3/102 08 She Cherry with Structure 10 days (1h) The 20204 She	32	1	Soling and Floor FCC	106 days 200s	Thu 11/22/14	- 2/23/16	
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Bit Travenils Statuyini FCS File 4200 Travenils Travenils <thtravenils< th=""> <thtravenils< th=""> <thtra< td=""><td>35</td><td>10-</td><td>02L2C(558mp</td><td>#3.daye/35%</td><td>Tue 3/25/14</td><td>Son 54814</td><td></td></thtra<></thtravenils<></thtravenils<>	35	10-	02L2C(558mp	#3.daye/35%	Tue 3/25/14	Son 54814	
P Stray or PCG Field 458 Due 2014 Field 42014 00 PELEBORNET 00 and p201 Due 2014 Due 2014 Due 2014 01 Stray or PCG 30 due 2014 Due 2014 Due 2014 Due 2014 01 Stray or PCG 30 due 2014 Due 2014 Due 2014 Due 2014 101 Stray or PCG 30 due 2014 Due 1014 Due 2014 Due 2014 102 Stray or PCG 30 due 2014 Due 1014 Due 2014 Due 2014 102 Stray or PCG 30 due 2014 Due 1014 Due 2014 Due 2014 103 Usts 81 due 30 due 2014 Due 2014 Due 2014 Due 2014 104 Stray or PCG 30 due 2014 Due 2014 Due 2014 Due 2014 105 Stray or PCG 30 due 2014 Due 2014 Due 2014 Due 2014 105 Stray or PCG 30 due 100 Stray 010 Due 2014 Due 2014 105 Stray 010 Stray 010 Stray 010 Due 201	90	14	Tertavenikas	-85 days 9.5%	Tota 2/25/12	TUR 02/02/14	
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Photographs of the Month



Figure 1 RCC Drain Construction Work At R3 Road.



Figure 2 Road Maintainance Work At Roadshes Chowk.



Figure 3 Drain Cleaning at Existing Drain.

Figure 4 Diver ready for manhole cleaning at S13(1600mm dia hume pipe laying)

Site-Specific EMAP Monitoring Checklist

Name of Contractor:M/S CTCE-KALIKA J.V.Contract No:STIUEIP/W/BRT/ICB-01For the Month of June 2016Consulting Engineers:SMEC-Brisbane-AQUA-BDA-CEMATFor the Month of June 2016

(Insert sign $\sqrt{}$, or scale where applicable)

Project stage	Project Activity	Potential Environmental Impacts	Proposed mitigation measures	Mitigation Compliance	Mitigation Effectiveness	DSC	Remar	ks			
Preparation for construction				Indicate in 1-5 scale	ndicate in Indicate in Compli -5 scale 1-5 scale Non Co <u>Not app</u> C			nce (C); npliance (NC) licable (NA) NC NA			
						<25%	25- 50%	>75%			
	Identify the temporary areas required by the project and locate them with proper marking	May result social tensions	Prepare the details of temporary land acquisition and other private properties	2	2						
	locate them with proper marking		Submit to Supervising Engineer	2	2						
			Follow RAP for temporary acquisition	2	2						
	Submit applications to get an approval Submit such agreement and permits to Supervising Engineers for official information	May result social conflict and legal obstructions resulting in delay of work	Obtain Letters of Approval and Agreement for (i) temporary acquisition of land and properties (ii) relocation of religious site, foot trails, (iii) disruption of water supply, and others	2	2						
	Delineate and peg the areas required	May result social conflict and legal p obstructions resulting in delay of work	Pegging of all constructions site and labor camp	2	2						
		regging of project area	Maintain records of trees and other properties likely to be affected	2	2						
	Construct workforce camp	Haphazard camps resulting in social stress and degradation of local environment	Establish workforce camp at designated site only	2	2						
	Make employment policy for local and affected people as per EMP	Local people may be deprived of opportunities, Minors may be employed	Employ local people (not under age 14) especially SPAF, and PAF in jobs	2	2						

Project stage	Project Activity	Potential Impacts	Environmental	Proposed mitigation measures	Mitigation Compliance	Mitigation Effectiveness	itigation fectiveness DSC R		ks	
				Settle wage rate based on DWEC and provide the list of employees to Supervising Engineer	2	2				

Project stage	Project Activity	Potential Environmental Impacts	Proposed mitigation measures	Mitigation Compliance	Mitigation Effectiveness	DSC Remarks				
				Indicate in 1-5 scale	Indicate in 1-5 scale	Comp Non C Not aj C	liance Compli oplical	(C); ance (l ble (NA	NC) N)	NA
						<25%	25- 50%	>75%		
Construction Phase: Physical Environment	Construction Activity Adopt cut and fill principle during earthworks	Soil Erosion sedimentation and slope instability	Adopt 'cut and fill' approach, wherever possible	2	2					
	Disposal of excess materials in designated area		Avoid works during monsoon	2	2					
	Apply Bio-engineering for controlling of erosion and Gully		Provide proper drainage facilities	3	3					
			Stockpile top soil for reuse	2	3					
			Adopt gully control and bioengineering	2	3					
			Procure aggregates from already existing sites	2	2					
			Dispose spoil in designated area	2	3					
	Quarrying from river bed	Change in River Hydrology and River Morphology	Avoid Quarrying/Mining activity in river/streams for extraction of materials required for project shall not be done so that change the river cross sections and longitudinal profile do not occur	2	2					
			Ensure care so that irrigation canal/channel are not adversely affected by the project construction	2	1					

Project stage	Project Activity	Potential Impacts	Environmental	Proposed mitigation measures	Mitigation Compliance	Mitigation Effectiveness	DSC	Remar	ks	
				Ensure care of stone spout in order not to disturb the existing flow.	2	1				

Project stage	Project Activity	Potential Environmenta Impacts	Proposed mitigation measures	Mitigation Compliance	Mitigation Effectiveness	DSC Remarks				
				Indicate in 1- 5 scale	Indicate in 1-5 scale	Comp Non (Not aj C	oliance Compli pplical	(C); ance (I ble (NA	NC) N)	NA
						<25%	25- 50%	>75%		
	Disturbance of drainage	Water Pollution	Avoid camping facility within drainage	1	1					
	Construct of toilets in the camps		Prohibition on dumping of wastes in the water source	2	2					
	Storing of materials in the project area		Provision of sanitary facility and prohibition on defecation in open areas	2	2					
	Handling of toxic materials		Proper storage of construction aggregates, bazardous and toxic materials and proper							
	Dumping of excess materials		disposal of chemical containers, packaging materials, plastic bags provide training to workforce on safe handling of taxic materials	2	2					
	Quarry operation		workfore on succhaining or toxic matching						<u> </u>	
			Disposal of waste in the designated area	2	2					
			provide dumping site and waste treatment facility	2	3					
			Avoid excessive mining from riverbed.	2	2					

Project stage	Project Activity	Potential	Environmental	Al Proposed mitigation measures	Mitigation	Mitigation				
I Toject stage	I Toject Activity	Impacts		Toposed mitigation measures	Compliance	Effectiveness	DSC 1	Remark	KS	
	Movement of vehicles	Air Quality deteriora	tion	Spraying of water in dry season at construction						
	Operation of crusher			site and disposal site (Three time a day)						
	Earthworks				2	2				
	Stockpiling of construction waste and construction materials									

Project stage	Project Activity	Potential Environmental Impacts	Proposed mitigation measures	Mitigation Compliance	Mitigation Effectiveness	DSC Remarks				
				Indicate in 1- 5 scale	Indicate in 1-5 scale	Comp Non (Not a)	liance Compli oplical	(C); ance (I ble (NA	NC)	
						C	0.5		NC	NA
						<25%	25- 50%	>75%		
			Limit speed of construction vehicle	2	2					
			Safe place	2	2					
			Regularly maintain equipment and cover the stockpile	2	3					
			Compliance of vehicles with National Vehicle Mass Emission Standards, 2756 BS	2	2					
			Arrange proper ventilation in confined working areas	3	2					
	Movement of vehicles	Noise and vibration	Fit mufflers to control noise							
	Operation of crusher		speed limit of construction vehicle	2	2					
	machineries and equipment		Use light horn in vehicles	2	2					
	Horn honking		Maintenance of equipment	2	2					
			Prohibit the operation of crushing plant between 7 PM to 6 AM	3	2					
			Compensate the damages caused by vibration	3	3					

Project stage	Project Activity	Potential Environmental Impacts	Proposed mitigation measures	Mitigation Compliance	Mitigation Effectiveness	DSC Remarks				
				Indicate in 1- 5 scale	Indicate in 1-5 scale	Comp Non C Not aj C	liance Compli pplical	(C); ance (l ole (NA	NC) A) NC	NA
						<25%	25- 50%	>75%		
	Scrapping of top spoil	Effect on Soil quality	Stockpile reusable top soil properly in safe yard	1	2					
	Storage of fuel, lubricating oil, chemicals etc.	Solid waste problems, health risk	Store all materials, toxic, non-toxic and hazardous materials in safe place (warehouse)	1	1					
	Project activities producing wastes such as used tyres, lubricating oil, exhausted battery etc		Collect, segregate and dispose waste at designated area	2	2					
Construction	Construction Activity									
Phase: Biological Environment	vegetation clearance for construction of project structures	Vegetation clearance	Cut only marked trees	2	1					
	Fuel wood and NTFPs collection by workforce	Loss of vegetation species	Prohibit fuel wood and timber collection	2	1					
	vegetation clearance for		Prohibit illegal NTFPs collection and Trade	3	2					
	construction of project structures and compensation to		Provide LPG/kerosene to workforce	3	2					
	ulein		Stockpile the felled trees and take permission from concerned authority for its use	2	3					
			Plant trees @ 5 times of each felled trees	2	3					
			Compensate for affected trees from private and community forests	3	3					

Project stage	Project Activity	Potential Environmental Impacts	Proposed mitigation measures	Mitigation Compliance	Mitigation Effectiveness	DSC	Remar	ks		
				Indicate in 1- 5 scale	Indicate in 1-5 scale	Comp Non C Not a	liance Compli pplical	(C); ance (N ble (NA	NC) A)	
						С			NC	NA
						<25%	25- 50%	>75%		
Construction Phase: Socio-Economic Environment	compensation and Rehabilitation as per RAP	Land Intake and compensation to affected people	Avoid involuntary displacement	3	3					
			Compensation, Rehabilitation and employment opportunity to the affected people	2	3					
			Provide all possible assistance to the displaced people until the displaced people are settled	3	3					
			Provide disturbance and rehabilitation cost	3	4					
			Protect traditional rights of locals	1	1					
			Compensate for any loss of crops, trees and other natural resources	3	3					
			Establish technical committee to assess damage caused by vibration for compensation	3	3					
	Reinstatement of damaged community services and infrastructures	Reinstatement of community services and infrastructures	Compensate or reinstate community assets such as temples, bridges and irrigation canals, electricity poles, telephone lines, drinking water pipes, sewerage lines, roads, trails, cremation sites etc	3	3					

Project stage	Project Activity	Potential Environmental Impacts	Proposed mitigation measures	Mitigation Compliance	Mitigation Effectiveness	DSC Remarks				
				Indicate in 1- 5 scale	Indicate in 1-5 scale	Comp Non C Not aj C	liance Compli oplical	(C); ance (I ble (NA	NC) A) NC	NA
						<25%	25- 50%	>75%		
	Influx of outside workforce, money and disharmony activity	Increase in crime and community stress	Instruct Workforce for not to indulge in Gambling and drinking alcohol	3	2					
			Prohibit Visiting of workers to nearby village after 7 pm and living outside	3	2					
			Instruct workforce to respect local culture, tradition, rights etc.	3	2					
			Request police to patrol in the camp site and adjoining villages	3	2					
			Launch awareness programs concerning the human trafficking and possibility of spread of STDs and HIV/AIDS	3	2					
	Project Activities relating to health and safety issues at work areas	Health and hygiene (unsafe working conditions, accidents, fire hazard, transmission of communicable disease)	Provide facilities of health check, proper sanitation and hygiene, health care, control of epidemic diseases to workforce	2	1					
			Provide awareness on STD, HIV/AIDS	2	1					
			Place adequate warning system, signboard, hoarding post and prohibit visiting risky area as necessary	2	1					
			Make available first aid kits ambulance and fire fighting gears	1	1					
			Make available protection gears to all construction workers and compensate for the loss of life or any type of injuries	1	1					
	Dislocation of archaeological artifacts, if any	Loss of Archaeological and cultural sites	Protect archaeological and cultural sites In case of relocation, consult local community	3	2					

Project stage	Project Activity	Potential Environmental Impacts	Proposed mitigation measures	Mitigation Compliance	Mitigation Effectiveness	DSC Remarks				
Preparation for construction				Indicate in 1- 5 scale	Indicate in 1-5 scale	Comp Non (Not a	oliance Compli pplical	(C); iance (I ble (NA	NC) A)	
						С			NC	NA
						<25%	25- 50%	>75%		
	Demolition of unnecessary structures	Decline in aesthetics and inconvenience to people	Remove all unnecessary structures and reinstall the facilities and others to the original condition	3	2					
	Traffic management at construction sites	Traffic Congestion	Provide information about construction schedule to the local people	3	2					

Space for additional remarks (if any):

Prepared by: CTCE/KALIKA JV

Submitted to: SMEC-Brisbane-AQUA-BDA-CEMAT

Date of submission: July, 2016

Note: Scale 1. Very Good (all implemented); 2. Good (the majority implemented); 3. Fair (some implemented); 4. Poor (few implemented);

5.	Very	Poor	(very	few	or	no	implemented
				J			· · · · · · · · · · · · · · · · · · ·
LAB REPORT SUMMARY

Secondary Town Integrated Urban Environmental Improvement Project

Biratnagar Sub-Metropolitan city

Contract Package: STIUEIP/W/BRT/ICB-01

DAILY WEATHER RECORD

FOR THE MONTH OF JUNE 2016

Date	-			WEATHER Reco	ord		Temp.c		
	Sunny	Windy	Cloudy	Morning Rain HRS	Night Rain Hrs.	Day Rain Hrs.	9:00 AM	5:00 PM	Rain Fall MN
1	Sunny						32.8	28.4	
2	Sunny						32.6	27.4	
3	Sunny						32.6	28.6	1.12
4	Sunny						32.8	25.4	
5	Sunny						34.8	28.2	
6			Cloudy	Morning Rain HRS		Day Rain Hrs.	32.5	24.6	130
7	Sunny						34.6	38.7	
8	Sunny						35.6	30.2	
9			Cloudy	Morning Rain HRS			32.6	26.4	30
10			Cloudy	Morning Rain HRS			30.1	26.2	30
11	Sunny						34.6	30.1	
12			Cloudy	Morning Rain HRS	Night Rain Hrs.	Day Rain Hrs.	28.6	26.5	160
13 '			Cloudy	Morning Rain HRS	Night Rain Hrs.	Day Rain Hrs.	27.4	25.2	100
14			Cloudy	Morning Rain HRS	Night Rain Hrs.	Day Rain Hrs.	26.8	25.6	200
15	Sunny		Cloudy			Evening Hrs	30.2	26.8	28
16	Sunny						32.6	28.2	
17	Sunny						32.5	27.5	
18	Sunny		1.1				32.8	28.2	
19			Cloudy			Evening Hrs	34.6	26.2	14
20	_		Cloudy	Morning Rain HRS	Night Rain Hrs.	Day Rain Hrs.	32.5	30	110
21			Cloudy	Morning Rain HRS	Night Rain Hrs.	Day Rain Hrs.	28.6	26.6	310
22			Cloudy	Morning Rain HRS	Night Rain Hrs.	Day Rain Hrs.	27.6	26.9	145
23			Cloudy			Day Rain Hrs.	28	27.2	100
24			Cloudy				29.2	28.1	50
25			Cloudy	Morning Rain HRS		Day Rain Hrs.	29.5	28.6	200
26			Cloudy		Night Rain Hrs.		30.2	29.2	35
27			Cloudy				31.2	29.8	
28	Sunny	-					30.2	29.1	
29	Sunny						33.6	30.2	
30	Sunny						34.6	30.6	
								Total	1642

SMEC-Brisbane-AQUA-CEMAT-BDA

Approved By C.S.E

Record Checked By A.C.S.E

Submitted By Project Manager

CTCE-KALIKA J/V

140

Record Reported By Q.C Manager

Consultant Reps

Contractor Reps

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Biratnagar Sub-Metropolitant City

Sum	nmery of Concrete Crushed	Aggregate	e 20mm	n down	5	For	The Mont	h of JUN	IE 2016	
S.N.	DESCRIPTION / SOURCE	LAB		Grain Siza	a Distributi	on	FI	LAA	ACV	REMARKS
		REF. NO.	25	20	10	4.75	%	%		
1	From S-9 Line	MR231	100	96.68	39.40	3.53	12.78	31.80	20.1	Aggregates
2	From S-9 Line	MR232	100	96.96	39.64	3.12	12.69	32.04	20.4	Source
3	From S-9 Line	MR233	100	96.28	40.31	2.95	13.86	31.44	20.5	Om shree
4	From S-9 Line	MR234	100	96.44	41.29	2.87	13.35	31.76	20.4	
5	From Contractor Yard	MR235	100	95.56	44.42	3.07	13.21	31.56	20.6 ~	1
6	From Contractor Yard	MR 236	100	95.38	38.59	3.46	13.53 v	31.36	20.6	Crusher
7	From Contractor Yard	MR237	100	95.53	34.78	3.26	13.80	32.24	20.6 ~	
	Section 900:IS 383-1970 Required		100	95-100	25-55	0-10	Less 15%	Less 35%	Less 30%	
SMEC Appro Test (C-Brisbane-AQUA-CEMAT-BDA oved by CSE Checked by A.C.S.E				CTCE-KA Submitte Test con	LIKA J/V d by Projeducted by	ect Manage / Q.C Mana	er //	AT AT	*
Consi	ultant Reps				Contract	or Reps		14	Keleis	9

		LAB		_	Grain	Siza Distri	bution			
5.N.	DESCRIPTION / LOCATION	REF. NO:	10	4.75	2.36	1.18	0.6	0.3	0.15	REMARKS
1	From S-9 Line	MR213	100.00	96.04	78.68	60.94	38.30	20.94	5.85	source
2	From S-9 Line	MR214	100.00	96.97	78.79	59.60	37.78	21.21	5.66	om shree
3	From S-9 Line	MR215	100.00	96.29	78.97	59.38	40.00	22.06	5.57	
4	From Contractor Stock Yard	MR216	100.00	95.82	79.08	58.79	39.54	21.76	5.44	
5	From Contractor Stock Yard	MR217	100.00	95.32	78.94	58.94	40.00	22.13	5.11	
6	From Contractor Stock Yard	MR218	100.00	95.50	78.59	58.03	38.33	21.41	5.57	crusher
										plant
Specif	acation Limit is 383-1970 Zone -2		100-100	90-100	75-100	55-90	35-59	8-30	0-10	
SME Appr Test Cons	C-BRISBANE-AQUA-CEMAT-BDA oved by C.S.E Checked by A.C.S.E		*		CTCE-K Submitte Test Cor Contrac	ALIKA J/ ed by Pro nducted I	V oject Mai oy Q.C N	nager Ianager	The second secon	

]	Biratnagar Sub-Met	tropolitant City	nprovement i roject	
	TES	T RESULT S	SUMMARY SH	IEET For the Me	onth of	JUNE	2016
		. CO	MPRESSIVE S	STRENGTH OF I	BRICKS (Process	Control Test)	
SN No	Ref. STIUEIP LAB/	Date of Testing	Location	Chanage	BRAND NAME 1 st class brick	Compressive Strength N/mm2	SCALE OF Sample From
1	MR341	1/6/2016	RANI	Line-1	SHREE	11.3 🗸	1500 Nos-5 Nos
2	MR342	1/6/2016	RANI	Line-1	SHREE	10.6	
3	MR 343	1/6/2016	RANI	Line-1	T&B	11.3 🗸	
4	MR 344	1/6/2016	RANI	Line-1	T&B	10.7 🗸	
5	MR 345	1/6/2016	RANI	Line-1	T&B	11.2 🗸	
6	MR 346	1/6/2016	RANI	Line-1	T&B	11.1 🗸	
7	MR347	1/6/2016	RANI	Line-1	T&B	11.2 🗸	
8	MR348	1/6/2016	RANI	Line-1	T&B	10.8 🗸	
9	MR 349	1/6/2016	High way	Man Hole	ANAND	11.3 🗸	
10	MR 350	1/6/2016	High way	Man Hole	ANAND	11.4 V	
11	MR351	2/6/2016	RANI	Line-1	T&B	11.0	
12	MR 352	3/6/2016	RANI	Line-1	T&B	11.1	
	Specif	ication			IS1077,IS2180or NS1/2035	> ⁻ 10N/MM2	
1	Аррг	SMEC-Brisbane-A roved by Construc	AQUA-BDA-CEMA ction Supervision Er	T ngineer		CTCE-KALIKA	
		Test Check Consultantr Reps	ed by A.C.S.E	alad	Т	est conducted by O.C. Jan Contractor Report	the start

Secondary Towns Integrated Uraban Environmental Improvement Project

Biratnagar Sub-Metropolitant City

TEST RESULT SUMMARY SHEET For the Month of

JUNE 2016

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COMPRESSIVE STRENGTH OF BRICKS (Process Control Test)

SN No	Ref. STIUEIP LAB/	Date of Testing	Location	Chanage	BRAND NAME 1 st class brick	Compressive Strength N/mm2	SCALE OF Sample From
13	MR 353	3/6/2016	S13	Line-2	T&B	11.0	1500 Nos-5 Nos
14	MR 354	3/6/2016	S13	Line-2	T&B	10.6 -	
15	MR 355	5/6/2016	R3	Line 24	ANAND	11.0	
16	MR 356	5/6/2016	R3	Line 24	ANAND	11.4 🗸	
17	MR 357	5/6/2016	R3	Line 22	ANAND	11.7	
18	MR 358	5/6/2016	R3	Line 22	ANAND	11.3 🗸	
19	MR 359	5/6/2016	R3	R3 Line	ANAND	11.1 🗸	
20	MR 360	5/6/2016	High Way	Man Hole	ANAND	11.0 🗸	
21	MR 361	5/6/2016	High Way	Man Hole	ANAND	11.1 🗸	
22	MR 362	5/6/2016	High Way	Man Hole	ANAND	11.5	
23	MR 363	5/6/2016	High Way	Man Hole	ANAND	11.3 ✓	
24	MR 364	7/6/2016	High Way	Man Hole	ANAND	11.3 U	
	Specifi	ication			IS1077,IS2180or NS1/2035	> ⁻ 10N/MM2	*
1	Appr	SMEC-Brisbane- roved by Construc	AQUA-BDA-CEMA	.T ngineer		CTCE-KALIKA J/V	Ber
		Test Check Consultantr Reps	ked by A.C.S.E	toal	Т	est conducted by Q.C. Mar Contractor Reps	ABCH -

	TES	Secon ST RESULT S	idary Towns I SUMMARY SI	ntegrated Uraban Biratnagar Sub-Met HEET For the Me	Environmental Ir ropolitant City onth of	nprovement Project JUNE	2016
		CO	MPRESSIVE	STRENGTH OF I	BRICKS (Process	Control Test)	
SN No	Ref. STIUEIP LAB/	Date of Testing	Location	Chanage	BRAND NAME 1 st class brick	Compressive Strength N/mm2	SCALE OF Sample From
25	MR365	7/6/2016	High Way	Man Hole	ANAND	11.1 🗸	1500 Nos-5 Nos
26	MR 366	8/6/2016	R3	Line 22	T&B	11.0 🗸	
27	MR367	8/6/2016	R3	Line 22	T&B	10.7 🗸	
28	MR 368	9/6/2016	R3	R3 Line	ANAND	10.9	
29	MR369	9/6/2016	R3	R3 Line	ANAND	11.0	
30	MR 370	9/6/2016	R3	R3 Line	ANAND	10.5	
31	MR371	24/6/2016	Jatuwa	WWTP Wall	AMBEY	10.7	
32	MR 372	24/6/2016	Jatuwa	WWTP Wall	AMBEY	10.6	
33	MR 373	24/6/2016	Jatuwa	WWTP Wall	AMBEY	10.4	
	Specif	ication			IS1077,IS2180or NS1/2035	> ⁻ 10N/MM2	
1	Appr	SMEC-Brisbane-A oved by Construc Test Check	AQUA-BDA-CEMA tion Supervision En ed by A.C.S.E	AT ngineer ADD	T	CTCE-KALIKA KY Submitted by Project Mana est conducted by Q.C.Mana	ger /1
		Consultantr Reps	X			Contractor Reps	9/

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

SUMMARY OF FIELD DENSITY TEST (IS:2720:-PART-28) FOR THE MONTH OF JUNE 2016

Description : Field Density Tests on National Trading to Jatuwa WWTP Road R-4 SUB GRADE LAYER

S.N.	L/Ref. No.	Date	Location/ Area	MDD Gm/CC	Degree	of Compaction, %	Remarks
1			1+830 LHS	1.95	.97.9	5.00	
2			1+880 CL	1.91	-95.8	5.00	
3			1+930 RHS	1.93	96.8	6.00	
	FD 18	25/5/2016		-			
		_					
_							
+							
	-						
	Spe	ecification Re	quirement	1.990	>95	OMC <10.25	
					-		-

SMEC-Brisbane-AQUA-CEMAT-BDA

CTCE-KALIKA J/V

Approved by C.S.E

Test Checked by A.C.S.E

Consultant Reps

Submitted by Project Manager

Test Conducted by Q.C Manager

Contractors Reps

		LAB			Grain	Siza Distri	bution			
5.N.	DESCRIPTION / LOCATION	REF. NO:	10	4.75	2.36	1.18	0.6	0.3	0.15	REMARKS
1	From S-9 Line	MR213	100.00	96.04	78.68	60.94	38.30	20.94	5.85	source
2	From S-9 Line	MR214	100.00	96.97	78.79	59.60	37.78	21.21	5.66	om shree
3	From S-9 Line	MR215	100.00	96.29	78.97	59.38	40.00	22.06	5.57	
4	From Contractor Stock Yard	MR216	100.00	95.82	79.08	58.79	39.54	21.76	5.44	
5	From Contractor Stock Yard	MR217	100.00	95.32	78.94	58.94	40.00	22.13	5.11	
6	From Contractor Stock Yard	MR218	100.00	95.50	78.59	58.03	38.33	21.41	5.57	crusher
										 plant
Specif	acation Limit is 383-1970 Zone -2		100-100	90-100	75-100	55-90	35-59	8-30	0-10	
SMEC Appro Test (Cons	C-BRISBANE-AQUA-CEMAT-BDA oved by C.S.E Checked by A.C.S.E		÷	-	CTCE-K Submitte Test Cor Contrac	ALIKA J/ ed by Pro nducted	V bject Mar by Q.C N	nager Ianager * (*	-	1

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Biratnagar Sub-Metropolitant City

Sun	mery of Concrete Crushed	Aggregat	e 20mn	n down		For	The Mon	th of JUN	NE 2016	
S.N.	DESCRIPTION / SOURCE	LAB		Grain Siza	a Distributi	on	FI	LAA	ACV	REMARKS
		REF. NO.	25	20	10	4.75	%	%		IN LIMANNO
1	From S-9 Line	MR231	100	96.68	39.40	3.53	12.78	31.80	20.1	Aggregates
2	From S-9 Line	MR232	100	96.96	39.64	3.12	12.69	32.04	20.4	Source
3	From S-9 Line	MR233	100	96.28	40.31	2.95	13.86	31.44	20.5	Om shree
4	From S-9 Line	MR234	100	96.44	41.29	2.87	13.35	31.76	20.4	
5	From Contractor Yard	MR235	100	95.56	44.42	3.07	13.21	31.56	20.6	
6	From Contractor Yard	MR 236	100	95.38	38.59	3.46	13.53	31.36	20.6	Crusher
7	From Contractor Yard	MR237	100	95.53	34.78	3.26	13.80	32.24	20.6	
	Section 900:IS 383-1970 Required		100	95-100	25-55	0-10	Less 15%	Less 35%	Less 30%	
SMEC	-Brisbane-AQUA-CEMAT-BDA				CTCE-KA	LIKA J/V				
Approv Test C	ved by CSE hecked by A.C.S.E	-			Submitte Test cond	d by Proje ducted by	ect Manage Q.O Mana	r ger /,	1/	
Consu	Itant Reps	•			Contracto	or Reps		1)24/		

S.N.	Lab Ref.	Date of	Deatails of Mix	Location	I Rat	tio by V	OLUME		Туре	of Material	Cube Cru	shing ,N/mm2	Remarks
	No.	Casting		Structure	Water	Cemen	t Sand	Aggregate	Cement Brand	Aggregate/Sand	7 days	28-Davs	
1	439	4/5/2016	M25 Work mix	S-5 Line RCC Top Slab	0.46	1	1.5	3	Shivam	Om shree C/plant	20.37	26.07	
2	440	4/5/2016	M25 Work mix	S-5 Line RCC Top Slab Yadev Chowck	0.46	1	1.5	3	Shivam	Om shree C/plant	22.07	26.96	
3	441	5/5/2016	M25 Work mix	S-5 Line RCC Top Slab	0.46	1	1.5	3	Shivam	Om shree C/plant	20.44	26.37	-
4	442	5/5/2016	M25 Work mix	S-9 Line RCC Top Slab	0.46	1	1.5	3	Shivam	Om shree C/plant	21.63	25.78	
5	443	5/5/2016	M20 Work Mix	S-9 Line 2	0.50	1	2	3.5	Shivam	Om shree C/plant	17.85	21.93	
6	444	6/5/2016	M25 Work mix	S-9 Line RCC Top Slab	0.46	1	1.5	3	Shivam	Om shree C/plant	22.59	26.81	
7	445	6/5/2016	M25 Work mix	S-9 Line RCC Top Slab	0.46	1	1.5	3	Shivam	Om shree C/plant	22.07	27.26	
8	446	6/5/2016	M20 Work Mix	T-3 Line PCC Bed	0.50	1	2	3.5	Shivam	Om shree C/plant	18.15	21.93	
9	447	6/5/2016	M20 Work Mix	Rani Line -1 PCC Bed	0.50	1	2	3.5	Shivam	Om shree C/plant	17.85	21.78	
10	448	7/5/2016	M25 Work mix	S-5 Line RCC Top Slab	0.46	1	1.5	3	Shivam	Om shree C/plant	22.30	26.37	
11	449	7/5/2016	M25 Work mix	S-5 Line RCC Top Slab Yadev Chowck	0.46	1	1.5	3	Shivam	Om shree C/plant	22.44	26.67	-
12	450	8/5/2016	M25 Work mix	S-5 Line RCC Top Slab	0.46	1	1.5	3	Shivam	Om shree C/plant	21.63	26.44	
13	451	8/5/2016	M20 Work Mix	T-3 Line PCC Bed	0.50	1	2	3.5	Shivam	Om shree C/plant	17.63	21.85	
14	452	8/5/2016	M20 Work Mix	S-9 Line 2	0.50	1	2	3.5	Shivam	Om shree C/plant	16.59	21.93	
15	453	8/5/2016	M20 Work Mix	R-3 Line PCC Bed	0.50	1	2	3.5	Shivam	Om shree C/plant	16.44	22.22	
16	454	8/5/2016	M20 Work Mix	Rani Line -1 PCC Bed	0.50	1	2	3.5	Shivam	Om shree C/plant	16.15	22.00	
17	455	9/5/2016	M25 Work mix	S-5 Line RCC Top Slab	0.46	1	1.5	3	Shivam	Om shree C/plant	22.00	26.30	
18	456	9/5/2016	M25 Work mix	S-9 Line RCC Top Slab	0.46	1	1.5	3	Shivam	Om shree C/plant	21.19	26.37	
19	457	9/5/2016	M25 Work mix	S-9 Line RCC Top Slab	0.46	1	1.5	3	Shivam	Om shree C/plant	21.41	26.52	
20	458	10/5/2016	M25 Work mix	S-5 Line RCC Top Slab	0.46	1	1.5	3	Shivam	Om shree C/plant	20.81	26.15	
_			Manager I in the Tayl										
-		Spe	ifacation Limit Tat	ble For M20/20 on 7 days Age Min 67% (of Total C	ompres	sive Stre	ngth		Min Required	13.4	20	
ME ppr est ons	C-Bri oved chec sultar	sbane-AG by Const ked by A. hts Reps	QUA-BDA truction Supe C.S.E	ervision Engineer/CSE	CTCE Subm Test c Contra	-KAL	IKA J/N by Pro icted b	ject Ma y Q.C N	nager Ianager	* Negured	10.75	25	

S.N.	Lab Ref	Date of Casting	Deatails of Mix	Location	1 Rat	tio by V	OLUME		Туре	of Material	Cube Cru	shing ,N/mm2	Remarks
	No.			Structure	Water	Cemen	t Sand	Aggregate	Cement Brand	Aggregate/Sand	7 days	28-Days	
21	459	10/5/2016	M25 Work mix	S-9 Line RCC Top Slab	0.46	1	1.5	3	Shivam	Om shree C/plant	20.89	26.15	
22	460	11/5/2016	M20 Work Mix	T-3 Line PCC Bed	0.50	1	2	3.5	Shivam	Om shree C/plant	13.40	22.07	
23	461	11/5/2016	M25 Work mix	S-5 Line RCC Top Slab	0.46	1	1.5	3	Shivam	Om shree C/plant	21.93	27.11	
24	462	11/5/2016	M25 Work mix	S-5 Line RCC Top Slab	0.46	1	1.5	3	Shivam	Om shree C/plant	21.93	26.37	
25	463	12/5/2016	M25 Work mix	S-5 Line RCC Top Slab	0.46	1	1.5	3	Shivam	Om shree C/plant	22.37	26.30	
26	464	12/5/2016	M25 Work mix	S-5 Line RCC Top Slab	0.46	1	1.5	3	Shivam	Om shree C/plant	21.56	26.52	
27	465	13/5/2016	M25 Work mix	S-5 Line RCC Top Slab	0.46	1	1.5	3	Shivam	Om shree C/plant	21.78	25.63	
28	466	13/5/2016	M25 Work mix	S-9 Line RCC Top Slab	0.46	1	1.5	3	Shivam	Om shree C/plant	21.63	25.85	
29	467	14/5/2016	M25 Work mix	S-5 Line RCC Top Slab	0.46	1	1.5	3	Shivam	Om shree C/plant	21.70	26.30	
30	468	14/5/2016	M25 Work mix	S-9 Line RCC Top Slab	0.46	1	1.5	3	Shivam	Om shree C/plant	21.93	26.22	
31	469	14/5/2016	M25 Work mix	S-5 Line RCC Top Slab	0.46	1	1.5	3	Shivam	Om shree C/plant	22.15	26.44	
32	470	16/5/2016	M20 Work mix	S-9 Line RCC Wall	0.50	1	2	3.5	Shivam	Om shree C/plant	17.63	22.52	
33	471	17/5/2016	M25 Work mix	S-9 Line RCC Top Slab	0.46	1	1.5	3	Shivam	Om shree C/plant	22.07	26.59	
4	472	18/5/2016	M20 Work mix	S-9 Line RCC Wall	0.50	1	2	3.5	Shivam	Om shree C/plant	16.74	21.56	-
5	473	19/5/2016	M25 Work mix	S-9 Line RCC Top Slab	0.46	1	1.5	3	Shivam	Om shree C/plant	21.78	26.22	
6	474	20/5/2016	M25 Work mix	S-5 Line RCC Top Slab	0.46	1	1.5	3	Shivam	Om shree C/plant	21 33	26.37	
37	475	23/5/2016	M20 Work Mix	S-5 Line RCC Wall	0.50	1	2	3.5	Shivam	Om shree C/plant	17 11	21.04	
38	476	24/5/2016	M25 Work mix	S-9 Line RCC Top Slab	0.46	1	1.5	3	Shivam	Om shree C/plant	20.52	26.37	
39	477	25/5/2016	M20 Work Mix	S-9 Line RCC Wall	0.50	1	2	3.5	Shivam	Om shree C/plant	18.07	22.45	
40	478	26/5/2016	M25 Work mix	S-9 Line RCC Top Slab	0.46	1	1.5	3	Shivam	Om shree C/plant	22.07	26.81	
_	-	Spec	ifacation Limit Table	For M20/20 on 7 days Age Min 67	% of Total C	omnres	sive Stre	ath					
		Spec	ifacation Limit Table	For M25/20 on 7 days Age Min 679	% of Total C	ompres	sive Stre	ngth		Min Required	13.4	20	
ME opr est	C-Bri oved check sultan	sbane-AQ by Const ked by A.0 its Reps	UA-BDA ruction Superv C.S.E	vision Engineer/CSE	CTCE Subm Test c Contra	-KAL	KA J/ by Pro cted b	/ ject Mar y Q.C M	nager anager		/		

Biratnagar Sub-Metropolitant City

CEMENT TEST SUMMERY

For the Month of JUNE 2016

S.N.	Lab. Ref.	Description of cement	Testing	Consister	ncy & Settin	ng Time	Remarks
	NO.		Date	Norm. Const.	Intial(min.)	Final(min.)	
1	MR111	SHIVAM OPC	1/6/2016	36.9	185	330	All Cement
2	MR 112	SHIVAM OPC	2/6/2016	36.7	180	340	Are
3	MR 113	SHIVAM OPC	3/6/2016	37.1	175	350	Nepali
4	MR114	SHIVAM OPC	4/6/2016	37.7	180	330	BRAND
5	MR 115	SHIVAM OPC	5/6/2016	37.9	195	310	
6	MR 116	SHIVAM OPC	6/6/2016	37.4	190	300	
7	MR 117	SHIVAM OPC	7/6/2016	37.3	180	310	
8	MR 118	SHIVAM OPC	8/6/2016	37.7	180	310	
9	MR 119	SHIVAM OPC	9/6/2016	37.9	200	315	OPC
10	MR 120	SHIVAM OPC	10/6/2016	38.0	180	325	010
Requi	rements in ac	cordance with BS 12/4027			> 45 Min.	10 Hrs	

SMCE-Brisbane-AQUA-BDA

Approved by C.S.E

Test Checked by A.C.S.E Consultant Reps CTCE-KALIKA J/V Submitted by Project Manager Test Conducted by Q.C.Manager

Contractores Reps

Biratnagar Sub-Metropolitant City

CEMENT TEST SUMMERY

For the Month of JUNE 2016

S.N.	Lab. Ref.	Description of cement	Testing	Consiste	Remarks		
	NO.		Date	Norm. Const.	Intial(min.)	Final(min.)	
11	MR121	SHIVAM OPC	11/6/2016	37.3	185	320	All Cement
12	MR122	SHIVAM OPC	12/6/2016	37.3	185	320	Are
13	MR123	SHIVAM OPC	13/6/2016	37.1	180	325	Nepali
14	MR124	SHIVAM OPC	14/6/2016	37.7	190	315	BRAND
15	MR125	SHIVAM OPC	15/6/2016	37.3	175	320	
							OPC
Requi	rements in ac	cordance with BS 12/4027			> 45 Min.	10 Hrs	
SMCE- Approv Fest C	Brisbane-AQ /ed by C.S.E hecked by A.(UA-BDA C.S.E		CTCE-KALIK Submitted by Test Conduc	A J/V / Project M ted by Q.G	anager Manager	1.1

Biratnagar-Sub-Metropolitant City

SUMMERY OF THE MORTAR WORK MIX CUBE

FOR THE MONTH OF JUNE 2016

S.N.	LAB REF No.	Name of CEMENT	Location/Structure	Details of MIX	Çasting	Consistency & Setting Time		7 day's cube Crushing		28 day's cube crushing		Remarks	
						Norm. Const.	Intial(min.)	Final(min.)	Date	Str. N/mm2	Date	Str. N/mm2	i teniarita
1	289	Shivam	R3 Line	1:4 by volume	5/5/216	36.60	190	305	3/6/2016	6.00	3/6/2016	7.62	
2	290	Shivam	T3 Line Man Hole Ch:1+900	1:4 by volume	5/5/2016	36.60	190	305	12/5/2016	6.00	3/6/2016	7.89	
3	291	Shivam	T3 Line Man Hole Ch:1+880	1:4 by volume	6/5/2016	36.00	225	300	13/5/2016	5.90	4/6/2016	7.89	
4	292	Shivam	T3 Line Man Hole Ch:1+900	1:4 by volume	7/5/2016	36.10	240	305	14/5/2016	5.90	5/6/2016	7.76	
5	293	Shivam	T3 Line Man Hole Ch:1+920	1:4 by volume	8/5/2016	36.30	170	245	15/5/2016	5.90	6/6/2016	7.89	
6	294	Shivam	R3 Line	1:4 by volume	9/5/2016	33.70	175	225	16/5/2016	5.90	7/6/2016	7.76	
7	295	Shivam	R3 Line	1:4 by volume	10/5/2016	34.30	140	260	17/5/2016	6.00	8/6/2016	7.62	
8	296	Shivam	R3 Line	1:4 by volume	11/5/2016	35.40	140	250	18/5/2016	5.30	9/6/2016	7.76	
9	297	Shivam	R3 Line Road No:22	1:4 by volume	12/5/2016	36.00	165	265	19/5/2016	5.30	10/6/2016	7.89	1
10	298	Shivam	R3 Line Road No:24	1:4 by volume	12/5/2016	36.00	165	265	19/5/2016	6.00	10/6/2016	7.76	
11	299	Shivam	R3 Line	1:4 by volume	13/5/2016	36.00	165	265	20/5/2016	6.30	11/6/2016	7.62	
12	300	Shivam	T3 Line Man Hole	1:4 by volume	13/5/2016	36.00	165	265	20/5/2016	6.40	11/6/2016	7.89	
13	301	Shivam	T3 Line Man Hole	1:4 by volume	14/5/2016	36.00	165	265	21/5/2016	5.90	12/6/2016	7.89	
14	302	Shivam	T3 Line Man Hole	1:4 by volume	14/5/2016	36.00	165	265	21/5/2016	6.00	12/6/2016	7.62	
15	303	Shivam	High Way Man Hole Work	1:4 by volume	14/5/2016	36.00	165	265	21/5/2016	5.70	12/6/2016	7.89	
16	304	Shivam	T3 Line Man Hole	1:4 by volume	15/5/2016	36.70	225	275	22/5/2016	6.00	13/6/2016	7.76	-
17	305	Shivam	R3 Line Road No:24	1:4 by volume	15/5/2016	36.70	225	275	22/5/2016	6.00	13/6/2016	7.62	
18	306	Shivam	R3 Line Road No:22	1:4 by volume	15/5/2016	36.70	225	275	22/5/2016	5.60	13/6/2016	7.89	
	NOTE:		9										
According to is 2250-1981						MIN 45m Max 600m Required strength on 28 days not less than 7.5 N/MI						N/MM2	
SMEC Appro Test C Consu	Brisbane oved by Co Checked by ultants Rej	-AQUA-BDA-C Instruction Su Y A.C.S.E	EMAT pervision Engineer/CSE		CTCE-I Submit Test co Contr	KALIKA J/V tted by Proje onducted by actore Reps	ct Manage Q.C Manage		/- v-				

SECONDARY TOWNS INTEGRATED URABAN ENVIRONMENTAL IMPROVEMENT PROJECT Biratnagar-Sub-Metropolitant City SUMMERY OF THE MORTAR WORK MIX CUBE FOR THE MONTH OF JUNE 2016

S.N.	LAB REF No.	Name of CEMENT	Location/Structure	Details of MIX	Casting	Consistency & Sett		ng Time	7 day's cube Crushing		28 day's cube crushing		Remarks
						Norm. Const.	Intial(min.)	Final(min.)	Date	Str. N/mm2	Date	Str. N/mm2	
19	307	Shivam	Dev Kota Chowck	1:4 by volume	16/5/2016	• 36.40	245	315	23/5/2016	5.60	14/6/2016	7.62	
20	308	Shivam	High Way Man Hole Work	1:4 by volume	16/5/2016	36.40	245	315	23/5/2016	6.00	14/6/2016	7.62	
21	309	Shivam	T3 Man Hole Work	1:4 by volume	16/5/2016	36.40	245	315	23/5/2016	5.90	14/6/2016	7.76	1
22	310	Shivam	T3 Man Hole Work	1:4 by volume	17/5/2016	36.60	240	285	24/5/2016	6.00	14/6/2016	7.76	
23	311	Shivam	T3 Man Hole Work	1:4 by volume	17/5/2016	36.60	240	285	24/5/2016	6.40	14/6/2016	7.89	
24	312	Shivam	R3 Line Road No:26	1:4 by volume	17/5/2016	36.60	240	285	24/5/2016	6.00	14/6/2016	7.76	
25	313	Shivam	R3 Line Road No:24	1:4 by volume	18/5/2016	36.60	210	310	25/5/2016	6.00	15/6/2016	7.89	
26	314	Shivam	High Way Man Hole Work	1:4 by volume	20/5/2016	36.30	130	375	27/5/2016	5.40	17/6/2016	7.62	
27	315	Shivam	High Way Man Hole Work	1:4 by volume	20/5/2016	36.30	130	375	27/5/2016	5.70	17/6/216	7.76	
28	316	Shivam	High Way Man Hole Work	1:4 by volume	21/5/2016	36.60	185	285	28/5/2016	6.30	18/6/2016	7.62	
29	317	Shivam	T3 Man Hole Work	1:4 by volume	21/5/2016	36.60	185	285	28/5/2016	6.30	18/6/2016	7.89	
30	318	Shivam	High Way Man Hole Work	1:4 by volume	22/5/2016	36.90	180	280	29/5/2016	6.10	19/6/2016	7.89	
31	319	Shivam	High Way Man Hole Work	1:4 by volume	22/5/2016	36.90	180	280	29/5/2016	6.10	19/6/2016	7.89	
32	320	Shivam	High Way Man Hole Work	1:4 by volume	23/5/2016	37.00	285	305	30/5/2016	6.00	21/6/2016	7.89	
33	321	Shivam	High Way Man Hole Work	1:4 by volume	23/5/2016	37.00	285	305	30/5/2016	6.00	21/6/2016	7.76	
34	322	Shivam	High Way Man Hole Work	1:4 by volume	24/5/2016	36.60	250	330	31/5/2016	5.90	22/6/2016	7.89	
35	323	Shivam	R-24 Line	1:4 by volume	25/5/2016	37.00	270	315	1/6/2016	6.10	23/6/2016	7.62	
36	324	Shivam	High Way Man Hole Work	1:4 by volume	26/5/2016	36.90	250	305	2/6/2016	5.40	23/6/2016	8.03	
37	325	Shivam	High Way Man Hole Work	1:4 by volume	29/5/2016	36.90	185	320	5/6/2016	6.00	25/6/2016	8.03	
38	326	Shivam	High Way Man Hole Work	1:4 by volume	1/6/2016	36.90	185	330	8/6/2016	6.00	28/6/2016	7.89	
39	327	Shivam	S13 L1	1:4 by volume	2/6/2016	36.70	180	340	9/6/2016	6.30	29/6/2016	7.76	
40	328	Shivam	RANI Line-5	1:4 by volume	2/6/2016	36.70	180	340	9/6/2016	6.00	29/6/2016	7.89	
41	329	Shivam	R-24 Line	1:4 by volume	3/6/2016	37.10	175	350	10/6/2016	6.00	30/6/2016	7.89	
42	330	Shivam	R3 Line	1:4 by volume	3/6/2016	37.10	175	350	10/6/2016	6.10	30/6/2016	7.76	
						and the second s						1.10	
-		-			and the m	11.13	MIN 45m	Max 600m	Require	d strength or	n 28 days not	less than 7.5 l	N/MM2

SMEC-Brisbane-AQUA-BDA-CEMAT

Approved by Construction Supervision Engineer/CSE

CTCE-KALIKA J/V

Submitted by Project Manager Test conducted by Q.C Manager

Consultants Reps

Test Checked by A.C.S.E

Contractore Reps