

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 – 26

January,2016

Consultants:



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



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Table of Contents

1	Salient Feature
2	Introduction
3	Sub-Project Components
4	Scope of works
5	Brief on procurement packages
6	Details of the project execution
6.1	Physical Progress (Achievement till the month)
6.2	Financial Progress and Cash Flow
7	Details of Safeguard activities11
8	Key Issues and Remarks
9	Work Plan Professional input
10	Conclusion
AN	NEX
S –	Curveii
Wo	k Schedule and Progressiii
Pho	tographs of the Monthxviii
Site	-Specific EMAP Monitoring Checklistxx
LAI	3 REPORT SUMMARY

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	25 th of May 2016
Contract Period	30 month
Contract amount with	
Provisional Sum	NRs 2,119,054,525.90
VO-1	NRs 99,753,075.60
Revised Grand Total	
Contract amount with	
VAT&PS	NRs 2,491,085,601.50

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 toaccess 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

anddistribution 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 forensuring that all procedures are adequately covered and that the materials fullyconfirm to the Contract requirements. These responsibilities will include allnecessary charges or dues related to insurance, freight, taxes (including customs andexcise 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 andworkmen and he shall make provision for all costs related to such provisions and formedical, 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 theEmployer, 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 shallinclude: excavation, provision, haulage and installation of suitable bedding andbackfill material and disposal of surplus excavated material; distribution, laying adjoining of pipes; installation of all special pipework, valves etc. and construction ofall related concrete or other activities together with all testing and disinfection ofcompleted Works. The Contractor's attention is drawn to the restricted working space between RajbanshiChowk 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)

			Drain Construction (m)					
_			Total	Till		This	Plan for	1
<u>Drain</u>	Lines	Length	Length (m)	Previous	Till This	Month	Next	Remarks
				Month	Month	Work	Month	
	B1I 1	965 98		1 198 98	1 108 08	WOIK	WIGHT	
	BIL2	11/18 98		744.00	852.00	108.00		
	BIL 2A	465 77		490.00	490.00	100.00		
B1	B1L2R B1L2B	137.09	3580	137.00	137.00			
DI	B1L2D	137.07		137.00	-			
	B1L2D	490.97		500.00	500.00			
	B1L2F	371.22		370.00	370.00			
					-			
	B2L1	1425		1,088.00	1,338.00	250.00		
DO	B2L2	828.03	2742	828.00	828.00			
B2	B2L2C	639.22	3742	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		603.00	603.00			
B3	B3L2	691.56	3514	522.80	666.80	144.00		
	B3L2E	220.42		200.00	200.00			
	B3L3	578.74		578.00	578.00			
	B3L4	509.5		509.50	509.50			
					-			
50	S9L1	2981.85	3178	660.00	810.00	150.00		
57	S9L1D	195.65	5178		-			
					-			
	S11L1	794		594.00	594.00			
S11	S11L1A	265.75	2092	265.75	265.75			
511	S11L1B	107.5	2072	107.50	107.50			
	S11L2	925		650.00	650.00			
	G 1 07 0	10.00		001.00	-	120.00		
	S13L2	1262		991.00	1,121.00	130.00		
	SI3IA	918.23		768.00	768.00			
	SI3LIB	276		276.00	2/6.00			
S13	SI3LIC	284	5640	284.00	284.00			
	SI3LID	535.04	-	242.02	535.04			
	SI3LIE	0/2.02		542.02	342.02			
	SI3LIF	1048	4	125.00	723.00			
	пипе Рір	043		343.00	545.00			
	CNDI 2	0/0 22		015.00	-			
	CN2L2 CN2L1	949.23	•	325.00	415.00	00.00		
CN2	CN2L1 CN2L1A	13/102	2273	525.00	415.00	90.00		
	CN2L1A CN2L1P	104.02			-			
	UN4LID	199.41	1	1	_	1	1	1

					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		
					-					
CN3	CN3L1	715.91	2170	715.91	715.91					
	CN3L2	997.5	21/0	475.00	475.00					
05	CET 1 A	264.07	740		-	150.00				
- 22	S5L1A	364.07	/40		150.00	150.00				
	SJLID	370								
	L.5	796		630.00	630.00					
	L2M	266		141.00	141.00					
	L2III	526	8483	290.00	290.00					
	L25	416		266.00	266.00					
Rani	I.4	2311		174.00	214.00	40.00				
	L4C	381		381.00	381.00					
	L4D	381		345.00	345.00					
	L6	1170		349.00	349.00					
					-					
	R2	6000	6000	6,325.00	6,325.00					
	R5	740	740	700.00	700.00					
Deed Cide	R64	121	121	121.00	121.00					
Draina	T3L28	250	250		250.00	250.00				
Dialits	T2L19C		0		250.00	250.00				
	T3L26C	461	461		210.00	210.00				
	T3L37		0		300.00	300.00				
Total Len	gth				31,058.56	2,072.00				

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

,				Sewer Construction (m)						1		
Sewer			Total	Till		This	Plan for			House		
Line	Lines	Length	Length (m)	Previous	Till This	Month	Next	Total	Sewer	Connecti	uPVC	Remarks
			0 ()	Month	Month	Work	Month	Manholes	Inlet	ons	Pipe	
T2 Trunk	1000 dia	hume pipe	1729	1,815.00	1,815.00	-	600.00	22				
T2 Trunk	900 dia h	ume pipe	518	518.00	518.00	-		15				
T3 Trunk	700 dia h	ume Pipe	1472	1,290.00	1,290.00	-	400.00	30				
T3 Trunk	600 dia h	ume Pipe	1141	187.00	187.00	-	600.00					
Line T2L	19 400 dia	a Hume Pip	487	300.00	300.00	-	100.00	10				
Line T2L	19 500 dia	a Hume Pip	45	45.00	45.00	-		1				
Total leng	<u>gth of Hun</u>	ne Pipe			4,155.00	-						
m 4 G												
TI Sec	14				120.60	120 (0		~				
	14				200.00	200.00		2				
	15				209.00	209.00		/				
	174		1353		252.20	232.20		3				
	17A 17B				83.80	83.80		3				
	17D				79.80	79.80		3				
	1/0				17.00	19.00		5				
T2 Sec												
	1	1										
	18L		1	74.70	74.70	-		2				
	18P			139.60	139.60	-		5				
	18Q			195.40	195.40	-		7				
	18R			357.30	357.30	-		12				
	18V			54.80	54.80	-		2				
	18Y			170.80	170.80	-		6				
	18Z			46.60	46.60	-		2				
	19b			272.30	272.30	-		9				
	19c			276.30	276.30	-		9				
	19e			160.50	160.50	-		5	14.00			
	19f			204.10	204.10	-		/	14.00			
	19g			191.40	181.40	-			4.00			
	1911			355.00	355.00	-		12	24.00	12.00		
	19k			172 50	172 50			6	24.00	12.00		
	191			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		27128	140.90	140.90	-		5				
	19q			234.20	234.20	-		8				
	19r			264.20	264.20	-		9				
	19s			271.00	271.00	-		9				
	19t			179.50	179.50	-		6		18.00	145.00	
	19u			61.80	61.80	-		2				
	19K			110.70	110.70	-		4				
	191			61.90	61.90	-		2				
	19U 19V			208.30	208.30	-		2				
	19W			50.80	208.30			2				
	19X			49 80	49.80	_		2				
	19Y			86.70	86.70	-		3				
	19Z			66.80	66.80	-		2				
	22		1	260.10	260.10	-		9	10.00			
	23		1	217.00	217.00	-		7	6.00			
	24A			260.70	260.70			9	20.00	4.00		
	29				296.90	296.90		10				
	18j				232.20	232.20		8				
	18QS				240.00	240.00		8				
	19K				367.90	367.90		12				
						-		-	1			1

				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	Se we r Inle t	House Connecti ons	uPVC Pipe	Remarks
T3 Sec						-		-				
	13F			123.60	123.60	-		4				
	25B			201.40	201.40	-		7				
	25C			139.60	139.60	-		5	9.00			
	26			126.50	126.50	-		4				
	26A			65.80	65.80	-		2				
	26B			71.80	71.80	-		2				
	26C			334.10	334.10	-		11				
	26D			50.80	50.80	-		2				
	26E			358.80	358.80	-		12				
	26F			108.60	108.60	-		4				
	26G		1	70.80	70.80	-		2				
	26H		1	55.60	55.60	-		2				
	27		23070	281.00	281.00	-		9				
	28			247.10	247.10	-		8				
	29			73.80	73.80	-		2				
	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		t l	223.30	223.30	-		7	14.00	15.00		
	36		1	160.50	160.50	-		5				
	37		1	204.30	204.30	-		7				
			1			-						
Total Len	gth of HD	OPE Pipe			12,122	1,959		405	152	96	145	

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	Parti	ally excavated		

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

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

S.N.	Description	Unit	Till Previou s Month	Till This Month	This Month Work	Remarks
1	Slabs	Nos	58300	62300	4000	
2	Precuts	Nos.	5647	6207	560	
3	Kerb Stone	Nos.	17850	18640	790	

e) Production of Precast Chambers at Yard Katahari

			Qua			
S.N.	Description	Unit	Till This Month	This Month Work	Remarks	
1	Manhole	Set	949	112		
2	Sewer Inlet	Set	1059	62		
3	House Connection	Set	1160	31		

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	2103	271	179	313	80	475	832	1200	228	963	336
This Month											
Production	14	17	7	15	0	17	14	29	14	16	9
Total											
Production	2117	288	186	328	80	492	846	1229	242	979	345

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

6.2 Financial Progress and Cash Flow

Detail of payment:

Installment Number	Net Payble Amount (NRs.)	%	Remarks
IPC 01	200,940,000.00		Advance Payment 01
IPC 02	27,853,500.98		IPC 2
IPC 03	47,507,270.95		IPC 3
IPC 04	42,241,392.52		IPC 04
IPC 05	22,035,291.99		IPC 05
IPC 06	85,573,541.38		IPC 06
IPC 07	76,203,672.17		IPC 07
IPC 08	115,297,549.23		IPC 08
IPC 09	109,414,317.97		IPC 09
IPC 10	124,715,663.77		IPC 10
IPC 11	160,083,476.07		IPC 11
IPC 12	16,931,906.24		IPC 12
Total amount of Ipc=	827,857,583.27	33.23	Corrected Percentage
Total amount of progress work for January=	60,000,000.00	2.41	
Total Amount=	887,857,583.27	35.64	

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 and solved as per instruction of Engineer:

- Partial Contract work is executing in certain site locations with availability of few quantity of Fuel and repeated disturbance of MadeshMorcha.
- Shortage of Fuel and Gas all over Nepal.
- Hume pipe production atItahari is not carrying its production on full flow because of strike conducted by Terai political parties and Boarder blockage done by India.

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	9	7m/ 2f
18	Unskilled Labors	31	25m/ 6f

Laborers at site work

The detail of laborers is listed in table below.

Details of Labor

S.N.	Labour Type	Number	'S	Remarks
Skille	d Labor	•		
1.	Mason/carpenter	2		
2.	Plumber	2		
3.	Electrician	1		
4.	Bar Bender	2		
5.	Wielder	2		
6.	Scaffold	1		
7.	Drivers	10		
Unsk	illed Labor			
	Labor	Male	Female	
1.	Labors (Skilled)	7	2	9
2.	Labors (Unskilled)	25	6	31
Total		32	8	

S.N.	Name	Designation	AttendanceDays
1	UjjwalPrasai	Project Manager	20
2	BisheshPrasai	Engineer	24
3	Santosh Pudasaini	Planning/ Construction Engineer	0
4	Mahesh Subedi	Construction Engineer	20
5	Suresh Maharjan	Construction Engineer	25
6	SujitDahal	Office/Bill Engineer	24
7	Roshan Prasad Gupta	Site Engineer	0
8	NabinKhanal	Site Engineer	0
9	NirajRaut	Site Engineer	25
10	UddhavBhatta	Site Engineer	0
11	Sunil Chaudhary	Quality Control Manager	25
12	VishwoBandhuMainali	Accountant/ Office Manager	25
13	Krishna Adhikari	Jr. Accountant	24
14	Narayan Rijal	Senior Site Supervisor/Safety Manager	18
15	Sagar Shrestha	Junior Engineer	25
16	Dipesh Kumar Chaudhary	Junior Engineer	25
17	Suraj Chaudhary	Junior Engineer	25
18	SumanTamang	Junior Engineer	24
19	Sujan Singh Thakuri	Junior Engineer	24
20	BipinRai	Junior Engineer	25
21	Saroj Shrestha	Junior Engineer	20
22	Suman Shrestha	Junior Engineer	22
23	Bishal Shrestha	Junior Engineer	24
24	Sanjay Shrestha	Junior Engineer	25
25	SabitaThapa	Sub-Overseer	25
26	AngiraRai	Sub-Overseer	0
27	Rojina LG	Sub-Overseer	0
28	GaurabSubba	Sub-Overseer	12
29	Prakash Bhattrai	Sub-Overseer	25
30	PradipRai	Sub-Overseer	25
31	AjayaRai	Site Supervisor	25

32	Uttar Karki	Site Supervisor	24
33	IshowrAdhikari	Site Supervisor	20
34	Santosh Mukhiya	Site Supervisor	25
35	Anil Pokhrel	Site Supervisor	25
36	PrasasanRajbansi	Site Supervisor	25
37	Tanka Pokhrel	Store Manager	25
38	ManojPandit	Store Assistant	25
39	NirnayaUpreti	Store Assistant	25
40	GopiYadav	Store Assistant	25
41	DipeshDahal	Lab Assistant	25
42	Ramesh Koirala	Lab Assistant	25
43	MahakantaRisidev	Lab Assistant	25
44	Sandeep Pyakurel	Light Driver (7621)	24
45	GurucharanYadhav	Light Driver (1082)	20
46	KiranManandhar	Light Driver (1086)	25
47	SatyaDhimal	Light Driver	24
48	Dip Budathoki	Light Driver	25
49	MangalKisku	JCB Operator	25
50	Surya Bdr. Malla	Loader Operator	22
51	Rupana Chaudhary	TM Driver	25
52	BhabeshRai	Batching Operator	20
53	Chandan Roy	Pc-200 Operator	25
54	JeetBdrGurung	Teller (4423) Driver	25
55	AnandaRajbansi	Electrician	25
56	Kamal Yadhav	Electrician	25
57	PappuYadav	Mechanic	25
58	MukeshMandal	Mechanic	25
59	Bhanu Bhakta Kafle	Plumber	22
60	Ganga Ram Dhital	Plumber	25
61	Niroj K. Puri	TM Driver(7561)	20
62	DhanKajiGurung	TM Helper	25
63	IndraRajBansi	Tractor Driver (6204)	25

64	KartikThrau	Tractor Driver (8304)	25
65	TilakGhalan	Transit mixer Driver	25
66	NakkulPaddhar	Tanker Driver	25
67	Udit Narayan	Tanker Driver	25
68	BasudevYadav	Tractor Driver	25
69	SudeepRajbansi	JCB Helper	25
70	Manita Shrestha	Kitchen Helper	25
71	KalpanaTamang	Kitchen Helper	25
72	SitaThapa	Kitchen Helper	25
73	PabitraRai	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		2	Good	
	Komatsu Excavator PC120	PC 120		1	Good	
	Kobelko Excavator 75	Kobelko 75		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.	1	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	Landcrusher	5 door	2	Good	
	Јеер	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	Not Used	
	Generator	Jackson	125KVA	1	Good	
	Generator	Kirloskar	25KVA	1	Good	
	Generator	Kirloskar	15KVA	1	Good	

				Working Sta	tus	
S.N.	Particular	Model/Type	Capacity	No of used Equipment	Status	Remarks
	Generator	Honda	5KVA	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			1	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	Asphalt Concrete Production					
	Asphalt Concrete Plant		50 ton/ hr	1	Good	
	Asphalt Paver Machine			1	Good	

10 Conclusion

MadeshiMorcha called strike and blockade boarder by India started from 5th August 2015 is still going on tillend of this month which has halted all the contract workactivities. Thestrike has got sever and lengthy while it has not stopped till the end of the month. The casting of precast slabs and chamber unit is not being carried out on full flow at Katahari yard and Hume Pipe production factory, Itahari due to unavailability of material and lack of sufficient fuel.

The strike is severely affecting the progress of the project at the key working season.

ANNEX

<u>S – Curve</u>

Item	Description	Amount	Relative	Year	2013					Ye	ar 20)14											Year	r 2015							Yea	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	≪-0:015 ₩	0.01	0.012	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	0.00	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	0.00	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	<u></u>	riginaPp	rogram 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	0.00	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	<u>0.00</u> ₿€	vise _o Bro	sgrana3
	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	0.196	0.196	0.196	0.06%	0.00.)	0.005	0.196	0.196	0.196	0.197	0.197	vised P 0.197 evised F	ogram-2 0.065 rogram-2
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 -	000	ni gi 10000	rogitano
	Operation & Maintenance			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	0.81	0.813	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.090	0.000	0.000	0.000	0.000	hievem	ent 0.000
5	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	0 900	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	Laboratory Environment	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	0.0	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	0.174	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	e 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	0.009	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	0.283
'	Operation and maintenance	0,000,000.00	0.28	Achieve	0.000	0.000	0.000	0.000	0.000	0.000	0.000	ext eo-	-0300	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	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	Daywond	007,000.00	0.05	Achieve	0.000	0.000	0.000	0.000	0.000	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																															
Oric	ninal 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
	Revise i rogram 5	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
A	chievement	%	6 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	0.000	0.000	0.000	0.000
	Acmevement	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	1	1		

Work Schedule and Progress



January 2016

•	Tauk Harre		Durato: 15	Start	Tenah	the second s
0	1-		Compe	I manage	in the second se	
1 43	B1L2B(124mb		28 days 0%	Sen 12/23/14	S #1 1/24/16	
2	VeS Ppe Li	te Shirtong	4 days 0 %	Sun 12/29/14	Re02 12/5/14	ž l
3	Secondition		14 days 8 %.	T19 12/215	0921/14/15	
1	Soing and I	CC.	16 days U.S.	dat (CSH5	Sun (PRP)a	
	Visionity Sin	orure.	18 days 0.5	Sat 1/5/16	Tue 1/20/16	
5	Covering with	h Siab	4 days 0 %	Web 1/21/16	84:1/2/1/16	
2 44	B1L2C(t3tro)		26 days 0%	The 1/1/16	Wed 1/20/15	
6	WS Post U	te Shifting	-1 days 0%	The Mode	Sun 14016	7
2	Encayation		14 days [18.	Map 1/5/16	Sup 17:9/16	<u>~</u>
6	Selan a v F	202	Witherault 6	14-4 1/2/14	Den 1/22/15	
201	Stansor Die	and and	15 characters	161-11271-S	Ec- 1/24/14	
	Country of	L C LA	d days 2%	Section 120	100 02410	· · · · · · · · · · · · · · · · · · ·
6 40	Del abient	1.0.481	the dama with	300 102.010	ALL ADDRESS	
45	D 1L2D H SHIMP		an defense	A KHE 1/2/19	100 223/15	
• · · ·	× among the	100	22 (Myatta)	900 12/15	10020015	
2	Soling also P	CC .	35 days 0%	Vesd 1/7/15	Tue 2/10/15	
6	Wassing Sh	actione.	40 days 10%	(kei) 1/7/15	Suc 27:5/15	
7	Coving xi	n 5 IOD	5 00(0119)	60n 2/18/15	Mole 2020/15	· · · · · · · · · · · · · · · · · · ·
14	B1L2F(371m)		77 daye 64%	Sen 11/16/14	5xt 1/\$1/16	
9 38	Tensystics		30 days 90%.	Sec 11/18/14	Ulor 12/15/14	
5	Signing and I	68	32 00/080%	100.11718/14	1012215014	
	Viagonty Set	acture	34 days 80%.	Tue 11/18/14	Sun 12/21/14	And a second
3	Covering with	h Slab	'd days 70%.	Cn 125012	Tue 12/5/014	1 N N
13	Hom Cross	to Kancher	de deventis	Sup 142/14	Set 1/s due	
4	Line B2		414 1010 441	Tue 2/28/14	2000 A/15/14	
5 100	Distant of		236 date 245	Tue aloss a	Tue 1/2014/2	
6	Description		01 da a 275	Tue MORING	Gun 13/25/1	
2 28	Excevened		72 day 675	The 262714	Ser (SHO	
-	Soring a 'S P		15 00/0 00%	me 2/2/01/	59.1/5/10	
-	Vescary Str	acture	vo deve Jolio	Ten 29014	Sec.17(1)15	record and the second
1	Contring with	nsmb	46 days 32%	V0#423/14	Tue 1/20/15	
2 3	B2L2(826m)		142 days 12%	Tee 11/25/14	Wod 4/15/16	
1 38	Estimation .		95 daya 20%	Tue 11/25/14	But 2/15/15	
2	Soling and P	COT REG	05 days 20%	Thu 11/27/14	F# 2/23/15	
3	Misi IROD		05 days 14%	Thu 11/27/14	Sun 31-715	
4	Steb Conurs	ting	*40 depo 8%	Thu 11/27/14	Wed 4*15/16	
15 16	R21.201954mb	1000	43 days 25%	Tue 2/25/14	Sun \$41214	
0 20	"supervises		d5 days 97%	Tue 2/25/14	The 42 3/14	
7	Soline and F	00	Sel days 95%	The 20744	2000 4775H	
*	Sector Providence	with side	56 (b-0.050)	The Works	CHARLEN AND AND AND AND AND AND AND AND AND AN	
-	Construction of	6 Kinda	The shares The second	The ACAULT	Read Address of	
11	Covering we	111262	Se days a Still	B. a dama da	Ret Hours	
49	RSFLRIghted		se 0296 32%	8 m 11/18/14	8911/10/16	
	=xcsevorion	and a	33 00y6 40%	sun 11/15/14	50112/20/14	
2	Soling and P	CC	38 days 35%.	Tua T1718/12	Thu 12/25/14	
3	Weeppry Sin	acture	40 days 32%.	Tue 11/10/12	Set 12/27/14	
21.	Covering with	h Sibb	1 days (1%)	Sun 12/28/12	Set 17 0.16	
8	Line B2		408 days 53%	Red 2/12/14	Sal 6/25/16	
E 2	B3L1.6(010m)		45 days 20%	Wed 212/14	Thu 4/17/14	
7 1	Excavation		25 days 100%s	Wed 242/14	Tut 34 1914	
0 /	Soling and P	co	88 days 100%	Bun 2116/14	Thu 3/20/14	
5 2	Vieward Str.	actions:	45 depa 100%	Sun 2/16/14	Tec 4/1/14	
0	Contrine of	ti Sinb	16 days 05%	Wed ADUA	Thu 4* 7/14	
IT IN	pai aptagent		AS down and	Most States	The design of	
12 22	arcropering		28 shares 100m	Mar 221214	To: 92.58	
	25.40%2001		20 04/0 12075	100 2 2 14	The Distant	
10 V	Sound und F	100	an 0058 110%s	5082-6/14	110 302 014	
4 ×	Personal Str	ocarie .	45 days 100%	Sun 250012	Tam 42 91 d	
24	Classing ad	n pilan	m days 455.	Accile to be	$m = 4P^{*} / m^{2}$	
6 92	U2L4(596m)		368 days 20%	Thu 3/23/14	Wed 1/21/16	
7 28	"stavation		50 days 99%	The 22224	\$51 12/20/14	
0	Soling and F	CC:	BE days BBS.	bion 3/24/14	Bat 12/27/14	
U	Wabarity Str	ucrure .	55 days 98%.	Mon 3/34/14	- Sat 1/3/16	
U.	Covering set	h Ślab	26 days 90%	Bat 0/2/14	Set 1/10/15	
			Carl Contraction of the		- Protocourd	
	1	22.02	100	1201	13870222000001	
	Constant Constant and Constant	Tiree		1.64	Propert Summiny	tradine Summary ,
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D Task	hiarr e		Durator 15	Silari	Tetah	
0			Compt	·	and a second second second	10/12/14 PAT2 2014 PAT2 2015 PAT2 2015 PAT2 2015 PAT2 2015 PAT2 2015
24	Cullet		10 days 0.5	Sun Md/15	West 1/2/115	
12 19	B3L3(675m)		106 days 75%.	Bel 11/16/14	B # 2/23/16	
2 1	Excervation		32 days 5%.	Sa: 11/15/14	Wad 2M/16	
60	Soling are hip	or MCC2	tib days 30%.	Thu 11/32/04	the 240210	
6	Ke ROD		87 days 80%	Kined 11/25/14	-# 2VZ3P16	
0	Covering with	Sisb	25 days 25%	Sen 217/16	84: 2/25/16	i i i i i i i i i i i i i i i i i i i
2	Syster.		15 depail %	Fri20015	Fe 2/20/15	
8	Cutte		15 days 0.5	Tue 12/19/12	FH 02/16	
0 14	R1110687011		141 (138, 159)	Ed 12/12/14	Sat Attend	
0	Encoder		05 dece 3005	76 12/2014	2030113	
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21	Child Prove		and a starte	7. 100724	a realist	
32	Siet: Summers	10	- 45 depail a	Tue 12/53/14	3e: 52315	
1	CUBR		in they are the	Tus 1/10/15	-1.1/3(1)15	
2 2	B3L2(992/II		171 days 485	Sen 11/16/14	Tue 5/5/14	
8 <u>38</u>	A STATION	10.0022-010	days (10%	Son 11/19/14	Thu35015	
2	Soling and the	COLUMN TO A	115 daya 75%.	Tu6 11/18/14	500 37 5/15	
0	Via R00		275 shayes 7.0%.	54:11/22/14	Mon 3/27/15	
8	Skih Crinibelik	ng	<\$5 days 15	Toe 12/044	Tue SSHS	
0	CLUBY		75 00/9/64	Tue 12/25/14	1012076	
Charles 1	Syphon		20 days 0%	Thu 9275	144 (/20/10	
2 44	R31.2F(223r1)		33 days 78%	Thu 11/20/14	Sec 12/21/14	
8	=XCOV5100		16 days 90%.	100 11/2.014	-0126/14	
A	Sel na arte PC	50	18 days 90%.	Mon 11/2/01/2	Ing 127:1/14	
5	Vescory Street	dure.	20 deux 80%	Vion 11/24/17	Set 122'3/14	
6	Counting with	Sinh	5 days 10%	Sun 12/14/14	Sup 12/21/14	
7	Line Sa		WE COMPARED	But Lawrence	Rive America	
	(Mile b)		All days of	PH 1/30/19	Bud Minte	
	1.390000		20 de calv	FR 1/30/15	The DOULD	
	=xcueverion		25 03/0115	F# 1/60/15	me 3/20/15	
	Brick Diffin		sa daye u se	810.27./15	110.30215	
	Costing with	5 tols	10 days 0.%	The 22.3/15	86-2729/16	
2	Cutter		10 days 0 %	Sin 3/7/15	49663/0/15	
3 4	SSL1E(3Terr)		48 days 0%	Fri 1/80/16	Wod 3/16/16	
4 58	Externation		25 deps/0%	Ep 1/50/16	The 2/29/16	
5	Thick Drain		32 days 0.%	Sun 2/1/15	Thu 329/15	Parama and a second
10	Coefficing with	Stab	10 strys 0%	The 2/18/15	5×.2/20/15	
7	Cidel		19 days (1%)	8-n2*-45	10es 3/ 6/15	
28	SSL1		48 deve 0%	Fit 2/27/16	Word 4/10/16	
9 29	Estavalian		35 days 0 %	DE207/15	The \$23/15	
11	Jack Drain		TE days U.S.	Sup Drugs	Thudship	
	Control with	Sinh	11 days 11 5	ine artistic	Ser Assetu-	
-	Control Mills	1.000	All shares if it	The or will	Contraction in	
-	COURSE IN COURSE		the days of the	Duri and W15	Mind Stores	
	and she		an asystem	108 347/16	8.948 STOTA	
28	Exception		28 00y6 0 %	108 3/5 7/16	MOR 47 3:16	
0	Brick Drain		33 days 0 %	Thu 3/10/10	Mon 4/20/16	
10	Covering with	Sieb	13 deva 0.%	Man 46,15	Sec 42 6/15	
	Cutter.		15 days 0 %	Bun 4/18/16	Whit 0/9/16	
0	Line St		462 days 18%	Sun 3/16/14	Sat 6/20/16	
9 4	59L1(2981m)		462 days 20%	Sun 346/14	Set 6/20/15	
0	Ecoverion		'40 days 12%	Sun 346/14	Set 41 /15	
9	Brick Drain		60 days 75%	Tue 3/10/14	Fil 1/10/15	
2	RCC Crait		*22 degs 10%	Sun 12/20/14	Tue 4/29/15	
	Contring with	Sints	"85 three 15%-	Wed 177/15	Si: 6/20/15	
2	Cullei	10.00	25 disc 1%	Margaret 197	Tue 4/2011/5	
95 08	the environment		11 days 21	S	Thur 1/29/18	
* 70	200 (04 (200))		18 days of 2	Ener 13/2014	Next LCATE	
-	Dist Frail		The second se	Sur 12/2014	Sec. Deside	
0	Sick Label	and a	7 days fr	84 10/15	10. 12. 10. 15	
	Covering with	21-200	casysus	181725/15	1110-12/2016	
.0	Lanc SIN		334 deye 87%.	Tue 2/25/14	5 at 1/24/16	
0 🤣	\$11L1(1038m)		91 days 95%	Tue 2/25/14	Most 4/22/14	
	10					
		TINK	-		Protect Summary	Incides Summery Websil Summery 1 1 Departs Discovery
		Cold			E down Tanks	
	Wester Shellowik die Kerne	0001	20100	C	ENVITER LANK	rodike des stations
ijour. 6° UEIP	The Researcher from					The second
ijev: 6° UEIP az Thu XGP 5	No R George Port	Mestore	•		esternal Missione	 Experience of the second second
ijevn ST UEIP te Thu XSP 5	In a second contraction	Milestone Summary	-		columnal Milestone nactive Wilestone	Manual S-mpary Roles Elderad Tates

January 2016

ID Tax	ek hlarre		Durator 16	Start	Trish	Law and the second se
0			Compe		No. No.	PET 2014 PAT2 20
101 🗸	Externation		d5 days 100%	Tue 2/25/14	True de 10/14	
162 🗸	±inos Urain		55 00/0 100%	100.2/27/14	(Yes: 4/2s/14	
185	Covering xit	n Siab	56 days 95%.	Mon 2/17/14	5un 6/11/14	
164 1	Cutlet		15 days, 30%.	Man aP 292	blan ::/28214	
186 🥵	-511 L1A(268 m)		26 daye 31%	SUR 12/7/14	Web 12/81/14	
180 981	Excavation		15 days 10%	5un 12/7/1/	Sun 12/21/14	
16?	Brick Drein		15 deya 30%.	Tun 12/2/14	Fri 12/20/14	Here and the second
168	Covering with	th Sieb	5 daya 10%	54: 12/27/12	Yeed 12/5/214	· · · · · · · · · · · · · · · · · · ·
180 🖌	511L1B(19Em)		26 days 100%	Tue 2/25/14	Sun 3/15/14	
150 🖌	Esternicion		15 days 100%	Tu:: 2/25/14	Thu 2924	
151 🖌	Britsk Dinain		12 depa 100%	The 2/27/14	Mon 3/10/14	
162 🖌	Covering with	ti Slab	6 days 100%	Tue 0/11/14	Sue 31-6/14	
159 48	511L2(924m)		49 days 80%	Sum 12/7/14	Set 1/24/15	
154 🖌	Technology (1997)		25 thigh 100%	Sub 12/2/14	Year 12251/14	-
165 🖌	Brick Drain		32 thins 100%	The 12/17/14	Sun 1/11/15	
158 🖌	Conversing with	h Slab .	5 days 100%.	Sen 1/4/15	Ten 1/9/15	
5/7	CORE		2° daya 30%.	Sun 194/15	84.1704/15	
IF/A	Line 513		ana daye notis	Tus 2/28/14	Fri 243/16	
159 🛞	B13L1(713m)		73 days 20%	Non 12/15/14	West 2/25/16	
200 20	Excervenion		55 days 229.	Mon 12/15/14	207.227/18	
201 22	manie Pipel.	-aerig	50 days 20%.	Sun 12/28/14	Sun 2/15/16	
265	Viatnole con	-druction	50 days 155.	Veleci 177215	West 2/25/15	
208 38	CAURE		23 00/530%	6ph 27 /16	-n 2453/16	
204 65	\$16L1A(695m)		318 days 34%,	Tue 2/25/14	PH 1/2/14	
305 🖌	Encarverien		50 days 100%	Tue 2/25/17	Sa: (2º 3/1/	The second s
206	Brick Drain		73 dayo 05%	The 3/27/14	Bat 11/28/14	
207	RCC Drain		20 days 0%	Sun 11/S0/17	Fri (2/19/14	
906	Covering we	th Skeb	72 days/80%	Man 3/17/14	°n 19715	
200 035	\$13L1B(276m)		78 days \$450	Frt 3/23/14	FH 54694	
210 🖌	Excavution		45 days 100%	Fil:2/20/14	Sun 4**3/14	
811	Britte Desire		58 daya 95%.	Sen 3/2/14	Sc: 4/28/14	
212	Contring with	ti Siab	20 daya 0.0%	Sun 4/27/14	Fit 3/18/14	<u>in</u>
213. 🗸	513L1C(284m)		37 days 100%	Wed 11/18/14	Thu 1.1/25/14	
214 🖌	Estaroution		20 theys 190%	Vies111219/14	Non 12/0/14	-
215 🖌	Thick Croin		75 daya 100%	2011/2014	Stori 12718/14	· · · · · · · · · · · · · · · · · · ·
216	Convicing will	h Slab	10 abayes 100%s	Tue 12/16/14	Thu 12/25/14	▲
217 105	B13L1D(535m)		44 days 93%	Wed 11/19/14	The 12015	
218 😼	Tx30re01001		25 days 100%s	Kinet 11/10/14	Tug 127 8/14	
219	Stick Crain		33 days 90%.	2010/2014	Ulari 12/22/14	
2540	Covering we	th Silab	10 days/ID/6	lue 12/22/12	Thu 571210	· · · · · · · · · · · · · · · · · · ·
221 🥳	513L1E(840m)	Ň.	48 days 21%	Tue 12/30/14	Non 2/10/16	
122	cocavalion		30 days:30%	Tua 12/5/014	Wad 1/28/16	
2223	alrick Crain		35 days 30%	Thu 19915	Wed 2MPTS	
224 38	Covering with	th Sibb	12 days 03i	The 2/5/16	Mon 24 6/16	
126 🌼	\$13L1P(\$24m)		46 days 61%	Pri 1/2/16	Thu 2/19/16	
220 78	Economican		30 deys 20%	Fit 1/2/15	Set 1/51/16	
227	Brick Drain		35 days 50%	San 19916	Bat 2/7/16	Here a
220	Covering with	di Siab	12 days 40%	San 24916	The 2/10/16	
129 6	513L2(1082m)		106 days 20%	Fri 11/28/14	Fri 3/13/15	
230 38	Ecovation		62 deve 85%	Fit 11/29/14	The 1/23/15	
291	Brick Drain		05 days 45%	Sun 11/30214	Men 2/2/15	
132	RCC Drain		35 days 0%	Tec: 2/3/15	Fe 3/13/15	
223	Contring with	ti Sinty	20 days 0 %	Tup 2/3/15	Sun 2/22/15	
36	Cidlet		25 days 0%	Tee 2/3/15	Fe 2/27/15	· · · · · · · · · · · · · · · · · · ·
195 68	513L2A(170m)		26 days 0%.	Non 1/2015	Fri 2/20/15	
736	Tx availant		15 days 0%	Mare 1/28/15	Mim 220/15	
237	Teles Deale		16 stays 0%.	Wed 1/21/15	The 2/ 2/15	
226	Covering with	h Slab	Edays05	F#2/15/15	Ts 2/20/HS	
20 08.	\$13L3(635ml		74 devel0%	Thu 12/10/14	Sun 3/1/16	
140	20.300(80)		(D days US.	Thu 12/18/14	Set 1/5/1/15	
internet and	100000000	8				
	1	200	1.0	10.0		
	000000000000000000000000000000000000000	11126	-	1.00	authors 2 minute	The second secon
njev: ST UE	IP Work Baltestule Revi	Split	200.00	C	Extornal Tasks	Manual Task Startoolk Progress
torger "New York?"	 Providence (20) 	Messone			Esternal Milestone	Durationony Finish-only Deadine 3
note, and over						
and an an		Gammers	_		contine (Washing	Manual V. menure Ro. of Polyand Taxas

January 2016

ID	1.1	Task Name	Durato: 15	Start	Finish	Lorge and		40.000	Lara		Larsen		August Const.	
	0		Compe			D J E W	LAIRIA	J A S D	N D J	FINIALWI	J J A 8		J E M	ALKUI
241		Brick Citain	56 days 8%	Sec 12/2014	C# 24/3/15		Contraction of the second s		house					
242		Covering with 5 too	re days ti s	Str 2/14/16	Sun 3/1/16	1				in the second				1.1
243		CLUBA	25 days 84.	Sa: 12/20/14	Tue 1/13/16	-			p-contents					
346		Line CN2	367 days 25%	The 3/20/14	Sat 3/21/16	1.1								
246	436	CHELTIGRAM	97 days 0 9	FR12/5/14	ifed 31116				1	10				
2/10	28	Excavation	77 days 0%	F6 (2/5/1/	The 27 9/16				1.0					
347		Shick Drein	<5 days U.S.	Sun 1227/14	The 22 915	1			-2					
518		4500/81	50 daya 95	Mon 12/22/14	THE A* 8-15	1.			P 12	-				
210		Covering with \$ 60	20 00yeu %	F#222310	10003/11/10	*.								
220		Syse.	15 devous	110/2/5/15	100.210.010	1			10.0					
101	1	Citizen and and and and and and and and and an	to depart to	100.20010	10127-010	42				104				
426	2	CALL INCIDENTS	28 days use	P0125/14	Minn 12/20/14	1.								
200	28	Data Data	The share of the	Part Carrie	1000 120 0014	1								
100		Country off, Side	S dayou w	Gen (2007)4	10m 100504									
000	100	Concerning which is had	o Gaysu a	MUT 12/22/14	100112/2014	÷								
200	20	Citat Ibj // Siti	az deye a se	Ph 12:5/14	NOT 1217 11	1								
788	-	Takes Denks	17 dayon vi	Pros 1202014	Di 120314	1								11
4100	1	Providence of the City	TO de a Dis	Sub 1207/16	March 120201214	T.			T					
260	10	Charles and	Service and	31. 1312111A	Red BIBERG					11.1				
260	100	tonate johomp	2017 days 42%	10x 202104	Sec. 202010					-				
365	-	Bries Costs	133 da a 1965	Sat 120004	Sar 2795340									
26.9	1	400 1 400	di davanta	Aug 191414	62 27 4.14		nom-myn	can on as no money	in another					
360		Creating with Side	15 days 310	lacart starts	80 35010	1	-							
105			di denali S.	lined 105/14	Sar 2/2414	÷	Contraction of the second seco	- un ou set un un sur sur s						
306	-	Cathy	15 da. e 18	Whet 2 Millis	Ser 3/21/16	1								
267		LHS CN3	141 02/0 27%	8481112/14	Sim 5/22/14	1								
208	de.	CN34, 117 55 mb	42 days 50%	Thu 11/20/14	Tue 2/10/15	1			-	17 0.00				
200	5	Externation	52 days 0.2%	The 11/23/14	587 17 7/15				the second se					
270		Brick Drain	7: days 05%	Sc: 11/22/14	Sec 1/5 1/15	1								
271		Covering with State	20 days 20%	Thu 1/22/15	Tue 27:0/16	1			Column 1					
372		Server	47 these 0.5	Sun 12/21/14	Set 1/51 9.5				-					
279		Cutot	19 days (1%)	West 1/14/16	8-115-115									
274	and a	CN3L 14(928mb	97 days 0%	Tus 12/18/14	Sun 3/22/15	1								
225	1	Tis and data	55 days 0%	Turi 12/16/14	The 27:3/15	1								
276		Takes Exain	75 stress 0%	The 12/10/14	Mar. 2/20/15	1			100					
277	-	SCOOver	55 days (1%)	Man \$15/15	87 2/29/19	1			-					
278		Covering with \$100	27 00:0119	Bun 37/75	Sec. 3577/15	1				Name of Concession, Name o				
279	08	GN3L2(286m)	166 days 33%	Sun 11/2/14	Set 294/16									
210	-	incolverion.	77 days 40%.	But 110242	Set 1/17/00									
281		shos Uran	<> days 30%	Tue 15/4/14	Sec 17 206	-								
282	10	Covering with Stab	28 days 20%.	Sun (/18/15/	Sa: 2/14/16									
2808	3	Siyanon	00 days 05.	West 12/24/17	Used 2411 Fits				-	4				
281	-	Cutte	a5 days 0%	Tho 1/6/16	4400.2/17/16	1				4				
185		Southarn System	206 days 3%.	Pri 11/25/14	Wed 6/24/16					**				
266	2	L1(20dm)	57 days 0%	Thu 12/10/14	Fri 1/23/15									
287		Excavation	22 days 0%	Thu 12/15/1-	Thu 1/9/16	1			ACCESS OF A					
260		Soling and PCC	23 days 0%	Thu 12/19/14	Fri 1/0/16	4.5			+ Colonia		13			
269	38	Brick Drein	25 deys/0%	Bs: 12/22/14	Tue 17:3/16	1			2-000					
200	1	Contring with Sinb	10 days 0%	Wo#1214/15	Fri 1/23/15	1								
261	-	Cullet	19 days 0%	Sa: 12/27/14	Tue 1/13/15	1								100
222	98	12(2032m)	176 daye 05	Tue 12/23/14	Wed 610/15	1			-					
500	1	Examplen	750 daya 0%	Tu: 12/23/14	Thu 3/21/15	1			Distance in the local					
264	100	Soling and PCC	- 52 days 0%	Tue 12/23/14	\$1.52395	1			P					
255	- 10	Bride Catho	195 days (1%)	Tut 19/25/14	Tot 529/19	1			+12 million					1.1
256	-	Coxining with Stab	15 daya 0 %	Web 577/15	Wee 67 0/15	1								
287	8	L3(2947m)	196 daye 0%	Fri 1242/14	Wed 4/24/16	40			_					
268		Externation	170 days 0 %	78 12/13/14	88:550.06	1								122
250		Soling and PCC	72 daya 94	10.12/12/14	Mon 6/1/16	1			3 1					
300	1	direk Drain	1/5 days US.	18 12 2214	ThuRsDis	1			\$10000					
-		15												
		Tisäk	-		Project Summiry		Inactive Summary	a	Minual Summity	1 1	Example value	21 C		
Fries	15	UEIP Work Beltenkele Renail Sold	2000-000		Extornal Tasks	Rev and	Manual Taox		StartionN	1	Progross			
Dura	Thu 2	GF 5 Etherma			External Milestone		Durationority		Finish-anty		Deathre	3		
					contine (Finalson		Manual V. manual	-	External Transf			371		
<u> </u>		Sternary			THE OF SERVICE		readed a monthly iso	M	Carefront Lasse	-				
							Page	2						

ID Tas	t flatre		Durator S Comple	Start	Tetah	Herr 2014	F.	12, 5544	Fatt 2	215	-a12, 2015		Hall Scie
101 20	Courses	th Kink	23 da a 05	Tridesing	News Organist	DJEW	A X J	JASD	NDJ	E N A M	1 1 2 5	O N D	J F N A N
11.7	LACTINE		172 days 0%	Fn 12/19/14	8 # 61316				_				
202 3	Excervation		150 days 0.4	7112/18/14	5up 6/17/10	1					1.		
364 78	Soing and I	100	152 days 05	10.12/19/14	Tue of Silo				b-				
105 3	Brick Crain		155 days 0.5	-in 12/1a/14	F# 6/22/16				Province and				
200 902	Covering with	th Siab	22 days The	Sat 6/23/10	Bat en S/16	11							
207 4	1.0(819 m)		45 days 32%	Fri 11/25/14	Med 25015	4			_				
108 38	Excavation		55 days 30%	Fit 11/29/12	346#1/21/16	1			- Annual Contractor				
300 -	Soling and P	200	55 days 35%	Fit 11/25/14	Sa: 1/24/16	1							
210	Brick Drein		55 deys 30%	Fn 11/29/14	Sun 1/25/15	1			2 million 100				
211 🖼	Contring with	the Similar	10 depaid %	Mon 1/25/15	West29413	2							
212 📷	Cadlet		20 days 0%	Tam 180/15	Sup 1/25/15	1			and the second s				
219 🤹	16(970		32 days 0%	Thu 1/22/15	Non 413/15				-				
214 📷	"x:avoilori		64 daya 0%	The 1/22/15	Thu 3578/15				1 2 miles				
315 📷	Soling also P	PCC	60 days 0%	The 1/22/15	Siz 3/20/15	1			9.000				
218 📷	With Drain		87 days 1%	The 1/22/15	See 3/29/16				-				
217	Covering with	in 5 lab	75 daya 119	blon 323/2/15	MO1-4213/15					in the second se			
210 08	CHIE		25 days fi%	The 25915	See 3/28/15	1				and the second s			
119	Severage Works		665 days 5%	Weel 7/2/14	Tue 4/28/18	1	-						· · · · ·
220	Ref: Surves		. 81 gold 90%	Veted 7/2/14	01001714/16	1	-						
221	Line Ti (Trunk)	10.00	397 days 3%	Sun 345.16	Thu 494/16	1							1
122 2	T1 (460 (50 - 4)	3.44	\$1 days 0%	Stat 345.46	The 477.94	10							
228	=x084/01/00		42 00/5119	501 3215/16	105 4/23/16	1				No. of Concession, Name			
224	too Laying		45 days U.S.	5uh 3/15/16	Sun 4/26/16	4				Processing of the local division of the loca			
125	decki ing	1000	di daya U.S.	5un 345/15	wed 4/25/15	1				HOLE BOARD			
326	Hannole Co	naturation	50 days 0 \$	Mon 3*6/16	Man 6/9/16	1				P12			
328	Sever1net	2.W	10 days 0.%	Web 3/16/10	5un 4/25/10	1				Processo and			
228	TOLDIE COM	HE CHORE	50 deya 0 %	190.3252/15	160:27/715	1				P COMPANY OF THE OWNER.			
150 025	11 4460 CH2 - 2	scaund.	He days us.	FIT 4/24/16	105-6/2/14	42				-			
130	28.484000		74 04Ve 0.8	PE 9/29/10	-R-0422/10	1.							
201	-Ec Loyag		to depart a	FERMIN	100 15/20/13								
106	pacering.	and a start of	35 09y8 0 %	FE-929/10	THE 5/2015					PONDER			
328	warriele Co	association	22 days use	SUE 4/20/10	Sun 3/29/10					P COMPANY			
3.24	GRACE F. R.L.		20 04/04/20	001-4/27/10	20.07.0010					1-100ED			
100	THE LEFT CLEW	10.7110	The day of the	DE 4/27/15	THERE					P CONTRACTOR OF			
200 BD	114460 00. 8	ov nu	re anyouse	PR 92919	100 05010	1.				T			
100	A SPOTHER .		the down and	F0 4004/10									
110	Parities.		S7 dage 1%	CH 404/15	CHANGE STAT								
140	Sancora Co	name where	ST days a s	The eld States	Tue Of States								
101	SA carlinet	instruction .	tot days it is	anat di	- S Brits II.	1							
49	wante Coast	ALC: NO.	St days 19.	20.40.00	Day 2 Citles								
101 .00	T1 4560 cia - 00	77.001	118 date D%	Non 15/2/16	Set 2/27/16						100		
201 100	Excavation		85 days 0 %	Man 119/16	Thu 1/28/16	1							
45	Pipe Levine	2	00 days 0%	Man 11;2216	Bat 1/\$0/10	1						-	
240	Becktilling		92 deva 0%	Man 152/15	Mon 221/10	T.						NO.	
1-7	Vannele Co	nstruction	10 days 0%	Sat 11/7/16	Veb# 2/24/16	1						8	Concernation of the local division of the lo
940	Sower Linds		05 days 0%	Mon 11/0/16	Fi(2:5/10	1						1	
149	House Com	rection .	"1" depail to	Blue 11/3/15	Ba: 2/27/16	1						P-12	
150 🌜	T1 (600 cla - 1)	71966	117 days 0%	Sun 12/20/16	The 414/16							100 million (100 million)	
51 🖷	Extended	300.00	00 days 0%	Sun 12/23/16	Mon 3/14/10							let be	
52	Pipe Layre		95 deys(03)	Man 12/21/15	Thu 27:7/10							P.	1
150	Beckfilling:		00 days 0%	Tu: 12/22/15	51-3/13/16	3						bi	
54	Manhole Co	nshadion	-07 days 0%	Sun 12/27/15	Mos 4* 1/16	1							10.000
195	Sever14el		#11.6y6b PP	Tue 12/23/15	F6-3/25/16							8	>
256	built Crim	accine.	25 days 0.%	Tun 12/23/15	Thu 4" 4/16	1						L.	P
157	Line Tt (Seconda	inv1	298 days 0%	Sun 3/15/16	Wood 1/9/16	10							-
160 42	TILEISCO der-S	listen j	22 days 0%	Sust 345/16	Sun 4/5/16								
1:0	=2039/07/07		PU eyeb CT	500 3715/15	108-3/24/16	1				-			
EU	hpe Lesing		01 days U.S.	Sun 345/15	Wed 3/25/15				1	- 1000			
		TINK		-	Project Summiny		Inadive Summary		Manual Summary	1 1	Example work	-	
in the second	P.W. 1 2	Solt			Edonal Tarks	-	Manual Taxy		Stort call	1	Property		
report & UEI	S INCR DUICHLE NEW	ALL STREET			Constant of the second		Charles and		Thomas and	-	Decition		0.4
hear Thu Mer-		D. DAWN THE			CONTRACTOR DE RECORDE	-	Duration-only		T 1 1 2 1 - 2 1 1 V	-	LINESETINE	-	
year up year.	2.2		2.0										

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e13	-400.00		12 00 00 120	COD 1252414	627 44/14/14	1			1000	-			
6104	Mannova Com	maten	134 days 109-	Ibu 12/25/12	1:0.4/2/16	1							
505	Genericiet		122 data 0.5	Thu 12/25/17	dia: 425/10	1				_			
206	-0466 -0000	-ine -	-31 da.e.1%	Thu 12/25/12	Sup 5/3/16	1			1 m				
107 108	T2 190 7 3 007	13380.201 1	1.40 (1254) 755	Sup 12/2/14	PRATURA				-				
509	and a straight of the		112 day of 15th	See 1207.14	March 2010, 217	1					1.1		
100	Sec Learn		14 days 12%	Sun 12/7/14	De 3/21/15				100				
510	Barter Inc.		- 35 days 12%	Sec. 10/7112	Tue 3/249/5	1							
511	Managie Con-	section .	- 25 days (195	Mar. 12/9/14	80.41-116								
812	Kenner Indet		128 ebene Chi	Mars 128114	Tue 4/21/14	1							
745	John Com	-ten i	- All dates fills	Man 104002	20.500.55								
544 00	THE RELEDONCE OF	- Frid	AL GANGERS	100 - 1 - 1 - 1 - 1 - 1 - 1 - 1 - 1 - 1	Too MADINE								
14 95	anteriacom-car	reach.	21 0499 0 10	Med 210/15	104 310015					5			
210	a second		to they are the	Visco 2/ CVID					1				
240	-certaging		all do a dite	Une Obting	D - Okto	1.							
217	Sector (To day of the	West With the	800 3 VIII					POIN -			
210	Parrow Car	onatin.	22 down 214	700 70013	The States				1	*			
110	Contract Part		12 de cella	The Delivery	Tale of the lat	1.1							
220	-come comme		25 dayee a	016.27.3713	108.07 010	1							
121 99	12021/20201-203	CHR0	21 daya Usi	5 # 2/25/16	FR 3/23/16					5			
522	Excavation		10 days on	5 81 2/23/15	NUN 3/WIS					1.			
with a	the Light		daysus	58 200/15	108 JF 0-10					1000			
868	Sacaring	100 x 100	2 00y609	6.00.2/28/16	1400 ar 110								
240	Variola Con	sociation	is days use	Sun at 710	1946 31 5/10	1				1000			
140	caower-inket	9999	an dependent	Sin 37.715	76 322715								
120	-bues como	0.00	2100,00%	81637716	-1 3/23/15					PERMIT			
100	T2L22(2766-200	-Chuộ	21 days ds.	Tue 3/10/16	NOB 3/30/16	10				-			
100	DC:HM/201		C Beyell S	Tue 2012/15	The 37 9/15	1							
220	HED LOSING		03,40%	105 3/13/15	-103/20/15					-			
121	Section	10000	2 daysus	Tue 3/13/15	82 82 115					-			
5.3Z	Vientose Dens	struction	to devolute.	Wes3/1015	Sec. 3223/10	1				8			
223	Server Inlet	3.010	So defe 0.2	Vers 341 /15	MON 3/30/15	1				P			
336	Danie Contra		20 days 0 %	(Web 311-715	MOD 3753/15					P-INTER .			
100	121.23(23804-200	ROM)	22 days 0%	Pn 3/20/15	Fn 440.15					-			
226	TX:3W(B01		Children (FE3/2015	Son 3/29/15								
201	Pice Loging		days first	F#3/20/15	Mon 120/15	10				9-00 C			
8.541	Backhing		12 days 0 s.	F#321/15	THE \$55016					9-000			
220	Wathold Cont	107UC8-010	15 daya U.A.	8013/2/716	100.427/16								
200	Server Intert		20 days U.S.	Sun 3/22/15	~# 4P10/15					-Name			1
		TINK	-	-	Project Summiny		Inadive Summary		Manual Summary	1	1 External N - succes	-	
	P.W. & Britshire Prof	Solt			External Tasks	all a second sec	Manual Task		StartionN	10	- Propios		
Actor Thu 269	15 IN A DUICEMPERCH	Pi bis more			The second second		Parata and		Thomas and		Dandard	1	- 264
S. S. S. S.	20	No. No. 2114			SHITLE DESCOR	R . (3)	controllerly	-	renan-enty		 Landine 	901	
		Summary	_		nactive Miestone		Manual Summary Ro	e .	Esternal Tasks				
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ID	Tax	ak Flatre	Durato: 15	Start	Tesh	luce and hat	teres Lara mas		And the state		14 0040
	0		compe		N	DJEWAKJJ	ASDINDJE	INIAINIJ	1 2 5	DIN D	J E N A N J
241		House Connection	33 days 0 S	Sun 3/22/15	Te dettilles			-			
c42 4	49-	121.24(1607m-200dia)	158 days 0%	Tue: 11/17/16	Fri 4/22/16						
245	_	Excervation	-16 days 84.	Tue 11/17/15	013/17/16					*	
200		the Leging	mo days 05.	Wed 11/10/15	Mon 3º d/16						
0.00		Sec.et ing	-5. dayous	Thu 11718/16	-53/18/16	10 E				ĸ	
000	_	Samola Construction	ap days use	-111/22/16	59.4/2/10	10 E					
247		Sever Inlet	145 daya U S	*n 11/22/15	Tus 4P 2/10	10 ES					
348		-buse Connection	155 daya 05i	=411/20/16	F# 4/22/16	1.				*	
540	84	T2L25(830m 205cm)	42 days 0%.	Teo 11/17/16	Mon 12/28/16	1					
550	19	Excercition	20 deys/0%	Tu: 10/17/19	Sun 12/6/16	1				-	
351		Fice Losing	22 departme	Tue 11/17/15	Tue 12/0/15						
552		BackSing	25 days 0%	Tue 11/17/15	BI12/11/15	10 I I I I I I I I I I I I I I I I I I I					
559		Mannole Construction	35 depoil %	Vieu 11/10/15	Tue 12/22/15	5 E				+	
354		Sever Inie:	43 daya 8%	Thu 112/3/15	Sim 12978/15	- E - E - E				*	
555		bute Connection	40 days 6%	Thu 11/18/15	90n-12/20/15	10 E				H I	
556	100	T2L26(1183an-200dia)	68 days 3%.	Non 12/7/15	Fri 2/12/16					-	
257		Tx:00v018001	25 days 119	Mon 12/7/15	Sud 17:0/16					- Comment	
350		Pipe Laging	37 days fi%	Tus 12/2/15	Cead 17 2/16					Personne	
559		Backfilling	19 days 0 S	West 12/9/15	32.17.9/10					-	
660		Vahrove Construction	45 00/9 6 %	Thu 12/13/16	81: 1/23/16	1 () () () () () () () () () (+1	
551		Server Intel	55 days 0%	Thu 12/10/16	Log 252/16					. (67	
162		House Connection	35 days 0 S	Thu 12/13/15	Tel 2/13/16	1.				b	
ct2	48	T21.27)/2m-200 stat	23 0010 03	Non1/11/16	Tue 2/2/16	4 E					
664		Excervation	4 days U.S.	Main 1/11/18	The 1714/16	1					
202		Pipe Learns	5 daya U.S.	Mon 1/41010	Fe 1/15/16	10 10				H	
366		Backfilling	6 days 0%	Mon 1/1/216	Sec 1/2 6/16	1				1.50	
167		Vantoia Construction	2 days 0 b	Tue 1/12/16	8411/28/16	11 11					
508		Sever I det	15 de a 1 %	Tue (212/10)	Fe 1/29/10	1					
100		-Nex Compilia	22 de. e 0%	Tur: 1412/16	Tue 20210						
170	-0	THE RELETION OF BRIDE	26 (114) (14)	Bet 1 MELLO	Right State	1 I I I I I I I I I I I I I I I I I I I					
574	2.	increase our concern	11 days 0.0	EC UNSING	Bast 1/24/10	8 8					
477		These Landston	11 also and M.	To 1106/18	Dare 1 CONCINE	8					
895		-us tostig	- Geyourse	2010/10/10	Tue 1/2010	44					
670		Second ing	12 days use	Pill 17 10/10	Top 122010						-
276		Ramove Conservation	12 (14) 2 (14)	Get 1/10/16	100 242/10						
262		CADAD-1-HEL	22 mayorn w	QUE 17 (57/15)	6.07 2 m/m	10 L					
57B	-	ISAME CONTROLOUT	>4 days it to	5a. 1/10/10	Man 200/0	12 I.					
877	434	12L2%366m-2017ma)	29 days 0%	Non 1/25/16	Non 2/22/16	E					
278	_	TX:30/01001	10 00/01 4	5000 1725/18	Vete 27.046	10 E					-
279		Pipe Laying	" days 0 %	Mon 1/25/18	Teu 25016	- 10 E					
400		Mackfr (ng	C2 days 0.5	Mon (725/16	n 256/16	4					
681		Vannole Construction	20 days 8 %	100 1725/18	Sun 2/14/16	10 10					Press.
±82		Sever 1-tet	24 days 0 %.	Tue 1.525/18	The 22 8/16	1.1					-
580		House Connection	28 days 8 5	Tue 1.58249	Max 2/22/16	10 I.S.					- Proceeding
684		Line 13 (Trunk)	196 days 45	Mon 12/15/14	Mon 8/22/16						
586	6	T5 (480 cla - 881 m)	46 days 0%	Pri 4/24/16	Non 0/22/16	1 () () () () () () () () () (
200		Excerostion	30 deya 0%	Ft: 424/15	Sa: 5/23/16			STATE OF THE OWNER			
0.87		Plac Lasing	32 days 03e	Fit 4/24/16	Mon 5/25/16	10		- b-tarterment			
060		Backfilling	85 days 034	Fii 4/24/16	The 5/29/16	1		Personal State			
509		Mannole Construction	45 deys U.S.	Set 4/25/15	Man 8/9/15			Management and Party			
300		Soverinkt	51 days 0%	Sat 4/25/15	The 6/19/15	1		History			
391		House Comection	59 days 0%	34.425/15	Mon 6/22/15			Harrison and Annual State			
512	65	T3 (500 clis - 842m)	45 days 05.	Wed 3/25/15	Tue 5/12/15			_			
353		Examplen	30 rbg/a 0%	Vec#3/25/15	The 4/23/15						
164		Fice Loging	32 days 0%	Vest 3/25/15	5: 425/15			-			
555		Notifico	75 days (1%)	Vers 3/25/15	Tet 4/28/15	18 IS		-			
255		Warrow Construction	40 thread %	The 3/26/15	Marc 534(15)	12		A COMPANY			
767		Server Intel	d5 days 0%	The books	58.55945	42 E					
160		-puse Cooperties	di dava 0.5	The SOUND	Tue 65 2.85						
-141	die.	Third day, this of	61 date (15)	True State	Kat All He						
200 0	100	12 (NOU CHE - 11-118)	All develop	100 21216	Las 20016			0			
eno		23.240(1991	ou days una	100 2:5/15	108 220019						
-		Passes			1.2.0.1010.1000.02220.1			100 501000			
		Tisäk	and the second se		Project Summary	I linedite Summary ,	Winted Summity	1 1 74	ana N watere		
		and the second second			Today and Tracks	Manual Manual Trace	Scotl dalk	Pice Pice	arces.		
Frain	STUE	1P. Work Bellevikale Frend 3001		CONTRACTOR OF A	CONTINUE INVOLU-	10 M M M M M	Sec. 10 (1997)				
Projecti Deter Th	8" UE 10 262	1P Work Billiedale Revi S001		an an an an a	External Marco	the Characteria	Example of the			1	
Project Deter Th	6" UE 111 262	19 Work Bidledide Rew S001	•	an un anto	Esternal Milestone	Duration only	Finab-anty	- De	adh ne	3	
Projekti Dete Tr	67 UE 10 262	19 Work Substitute Revel Statis 5 Milestone Summary	-		External Milestone ractive Weetone	 ♦ Dunition only Manual 3ummary Roups 	Finali-anty External Tasks	- De	adi ne	3	

ID	1	Task Name	Durator 15	Start	Tenah
	0		Compt		
0.01		Pipe Laying	55 days 0%	Tue 2/5/15	Te 3/27/15
et2		-300 kh 100	55 days 0 9	148-2/5/16	SUN 2/26/16
ecs		Vannois Construction	50 days 0 4.	Web 25015	143/18
200		-nune Connertion	al days us	14/40 2/10/10	Car distile
400	100	T2 (200 cite - 1/272ml	107 (0.00 35)	Mag 12/18/14	Tua SCERA
202	2	Excercises	\$2 deve 20%	Mon 12/15/14	Wed 3401-5
802	1	Fine Lasing	83 days 20%	Vion 12/15/12	Ext 3/7/16
603		Backfilling	96 days 20%	Vion 12*15/14	Tue 3/10/16
010		Vernole Construction	95 depa 0%	Tue 12/16/14	Sun 9/15/15
811		Sewer Inket	35 depaid %	Yest 12/17/14	50:3/21/15
012		Ibuse Comercian	- 35 days 0%	Vest 12/17/14	Tue 3/5 1/15
619		Line T3 (Secondary)	28 arys 191	Fri 12/5/14	Thu 6/16/15
814	16	T3L5(320m-200cis)	26 days 0%	Mon 12/13/14	Fri 1/2/15
015	1	Excavation	10 days 0%	Mon 12/15/14	Yest 12/24/14
216		Fige Laying	** days if %	Vion 12/15/14	The 12/25/14
617		ger report	12 00(0119)	Mort 12/15/14	En 12928/14
010		Varyole Canalitation	The shares of the	51:12/20/14	Tue 189/15
819		Seveririei	20 days 8 S	San 19/21/14	2619/15
650		-pube Connection	20 00/9/6%	Bun 12/21/14	18 1/9/16
621	10	T3L6(731m-200cis)	37 days 0%	Thu 12/25/14	Fri 1/50/16
652	1	Estavation	20 days 0 %	Thu 12/25/14	Tue 12:3315
628		too Losing	5. 00%0.0.2	Inu 12/25/14	6Y80 17 4/16
624		Bagdiing	22 days 0%	Thu 12/25/14	The 17:5/19
620		Vennole Construction	54 days 05	56 12526/17	CHed 1/20/10
626		Seveninet	35 days 0 %	FR 12/26/14	F# 1/30.16
426	-	-buse Connection	ss daye d %	-0.12/26/17	mu 1/20/16
0.00	100	Total (1997) (Com-2008)	St days 05	Bas 1/16/15	eues 34015
100		Excervation These Lookers	47.007/01/34	1000 1714/10 Decision	Due 20485
030		The Classific	42 Gaye 0.3	Mag 11/14/10	Tu- 20040
823		Second Control	and they are the	West Market	Tes 3/20/13
0.55		Second Laboration	AS DEVELOPMENT	Second Second	100 m 200 15
0.00		BOWE FIRT	on develop	West 1/14/10	Ten 20204
824	100	THE ATTENDED OF	30 Maysula	West 1/14/15	De 2015
470	100	Table (vern-sought)	12 days St.	Non 2/21/15	FR 25-15
0,00	100	The Louise	E da a da	March 2015	C: 4020-
8.05		-Er Loging	a dayour a	March 2012 PTS	MAC TREAM
450		March 10	12 days and	Mag 2020/15	01. 20 AV13
6.00		Calcer I riat	I da a US	Mar W2210	Mars 15-10
601		-Dutte Condection	= days 115	Mon Wowline	Man Assess
8.07	di.	T3 4/10/00-200414	M days 04	Ed 2/27/46	Wood 3215114
6.03	2	DOCUMPTION OF THE PARTY OF THE	10 days (1%	P= 202119	San 383/1-2
100		Pine Laving	1 days (18)	En 2/27/16	Map 319 10
205		Bacifilino	12 date (16	Ft 2/27/10	Tus 3: 096
240		Ventoic Construction	20 de.a.0%	Fr 2/27/16	Client 32" 6/1-5
847		Searchiet	20 drug (1%-	Ft 2/27/16	20112/15/16
EcA.		House Connecticat	20 days 0.8	FE2/27/16	10013-0115
0.40	di l	T3L 16421 52m-270-6m	95 days 0%	Non 329144	The 691195
0.50	0	Ecoverian	55 days 0%	Man 36915	Set 52/15
151		Fice Logina	57 days 0%	Man 3/5/15	Man 534115
0.29		Plan bill loop	55 depending	alan 3/5/16	Weed South
187		Manager Commission	30 depart 30	Stat 3/14/16	The 62 104
154		Second Second Second	15 days 0%	Suparistic	Sep.672145
400		mate Conner in t	95 days 0 M	Bud SHONG	8-08/284
	di la	TH 4400045m 2004m	M date 22	Mag (3MC 4 4	Tue Million
447	1	Taxa (100-500) - 200-500	BT (the work)	10m 12/10/14	21241015
410	100	Jack Laules	Did doue Did	tion town of a	100 30 H
and a		-021390	Set tays of a	Alon Different	104 27 2015
SEU ARU		Manager Construction	H' data 14	Sec. 120214	tog 22101
ccu.		All the Construction	a cayso's	ant taral/10	108.9.010
-	_	1.2.0			1997 00 00 00 00 00 00
		Tisäk	-	1.0	Project Summary
Project	151	EIP Work Baltedule Revi Split	200.00	concourse 1	Extornal Tasks
Dura:	711.20	57.5 Mileston			Esternal Milestone
		Course of the	-		contine tillestone

10	Task Name		Durato: 15	Start	- Tenah	Lorenz anno.	5 C	and marks	3	245	A same many a	
1000	D	0.0 - 0.0 - 0.0	Compe	n.sonasi		D J E J	I ALXII	JASD	NDJ	FINIAL	N J J J A S	2 IN
084		Sevenines	10 days 0 S	Sa: 12/23/14	Mon 358/15				hereine			
EE2	34 L.	House Connection	90 days 0 9	61:12/23/14	Mon-3/6/16				HIL			
263	> T	2L:12(1180en-200dik)	42 days 0%	Fd125/14	Sun 1/25/16	1						
162	8	CC AVAILANT	35 days 35.	10,125212	150 13015	1			and the second s			
60		age Loying	ar daya Usi	Set 125/14	501 1211916				P-3-Terraria			
£0		Backling	St days 0 %	Bun 12/7/1/	Web (7:4/16	1			+10 mm			
42		Vennole Construction	45 de;a0%	fn 1292/14	Sun 1/25/15	1			Property lies			
68		Seveniniet	30 daya 0%	Thu 1221/212	Fit 1.9.16	1			HOMEONE			
60		-touse Connection	30 days 0%	Thu 12/11/14	Fil 1/0/16	1			ALC: NO			
270	Б Т.	3L13(1864er-200dia)	96 daye 05.	Pri 12/15	Med 4/3/15	1						
171		Examples	55 departure	Fit 1/3/15	West39415	1			- Simon			
172		Pice Laying	57 days 0%	Fit 1/9/15	Fi10/0/15				3			
179		Bestfiling	99 depsil %	Fri 1/9/16	Sun 350/15				+	100		
274		Marrose Committee	54 daya 0.%	Web 1/14/15	Tee 4/7/15	1			-			
175		Setwer Intert	07 days 0%	Web 1/14/15	Ver440.95	1			- burner			
128		Iture Comestion	A5 days 0%	Vet \$ 1214/15	Vesit 4/6/16	1.			(beaution of the second secon			
277	6. 1	38.14(120an-200clin)	15 days CS.	Fri 12015	Tus 1/27/15	1						
70		Tecoverilari	C dayseff %	FILMA/15	Web 17:4/15	4			-			
29		Fige Laying	7 days 0 %	76 1/9/15	The 1/15/15				-			
250		dout the det	5 00/0 6%	0.149/16	01/15/15	1			-			
141		Wannoie Construction	18 days 0%	Sat 1/10/16	Tue 1/27/10	1			and the second			
112		Severinet	10 days 0%	Sat 1/10/15	Tue 1/27/15	1						
- 103		House Connection	TH down it s	Set 1/10/16	105152716	1						
BA		31.2 (1006m-200dia)	23 dave 0%	The 1/15/16	PH 255/14	1			1 Section 1	i i		
(e)		Excust without	12 deca 0.5	The Longits	Sar 1/24/14	1						
686		Figs Loging	1. da. all %	The LANG	Sup 1/25/16	1						
287		Bankillon	2) data [] b	The 125210	Man Laberto	1						
210		Vancole Construction	22 de all 5	5-14036	5.00010	1					13.	
100		Severisie	21 de. a 08	Col. 186.00	Called DAM (1-4)	10						
200		-Constant Constant Same	22 dayou se	2010010	06443494	1						
401		11 1111 (Day 10 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	Al days 26	The 140710	Then although a							
017	8 J	To seation	23 days unit	The Link of	Transcorts							
200		The second second	20 days use	The Lord/15	100.04010				1			
600		The Lastin	2. deve 0.8	100 1210/10	A00.24010				P-CODER			
054		Sector	22.04/00.8	the brev15	110122015				PORT			
110		Annese Commidian	20 dayan w	F01/08/15	60 20015	1						
nen l		Server (*)e)	do days in the	F61292/15	Tue 2/24/15	12						
157		ouse comector	41 00/5113	EE 1/19/19	108 2024/15	1			-9-000			
6228	P 1	3L23411Gen-200clin)	31 days 0%	Wed 214/16	Fri 34246	12			1.1.1			
199		Excavation	D4 days D%	Wed 2M/15	CH 2/27/15	10			1. U B	Consult.		
200		How Laying	25 days 0.5	(wed 244/15)	58: 2020/16	4			1 1			
105		Stad At Hug	25 00/6 0 %	Vend 244/16	Sun 34716	1						
/12		Mannole Construction	25 days 0 %.	15025/15	West SMUTH	1			1 H			
260		Severiniet	30 days U.S.	Thu 25,019	 n 135215 	1			1 N			
701	o. 1	-but a Connection	al days (1%)	The 2/5/16	5113/5/16	1			H			
705	<u>с</u> т	3L24(43.5m-200dla)	23 days 0%-	Sal 2/25/16	Sun 5/22/16	1						
706		Excervation	14 depail %	3at 2/23/15	Fa 343/16							
707		Plac Lasing	15 days 0 %	Sat 2/25/16	Str 3* 4/16	10				0-MIN		
709		Backhing	16 days 034	Sat 2/29/16	Sub 3/15/15	4				Hann	13	
209		Marrole Construction	22 depail %	Sen 3/1/15	Sun 3/22/15	1				3-10000 F		
710		Soveriniet	76 days 0%	Sin 3/ /15	Mon 3/16/15					3-1000		
711		-space Connection	10 days 0.8	Sun 31-715	Mon 9/10/15					b-max		
712	ि ह	3L25(80Ten-200die)	26 days 0%	Set 344/15	Wed 4/8/15					-		
713	N 83	Examples	20 deva 0%	Set 3/14/15	Thu 4/2/15	1				and the second s		
714		Pice Lasini	2: days if %	52(3)(4)(5)	=0.40245	1.				because .		
715		Notifilat	22 da a 0 5	80.35445	20 AMARS	1				() (() () () () () () () () (
216		Manage Construction	77 days 1%	Rate Williams	Con 49114	1.				-		
747		Second the	25 days of 24	Sun Shinard	Dependence of the second	15				-		
140		dense l'assertion	25 days in a	Stander S/15	Dealer All 15							
10		Stee Connector	to my ora	Jun army the	ALC: 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1					Part of the local division of the local divi		
110	P 1	ac.as(1014en-200der)	51 deye 32%	Fri 4/1/16	5 # 5/23/16					-		
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January 2016

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Photographs of the Month



Figure 1Rcc Drain Conctruction work At S9.



Figure 2 Site Clearence For Construction of Drain At S9.



Figure 3 Electric Pole Shifting Work At R2 Road.



Figure 4 Sub base Preparation At R2 Road.

Site-Specific EMAP Monitoring Checklist

Name of Contractor:M/S CTCE-KALIKA J.V.Contract No:STIUEIP/W/BRT/ICB-01For the Month of December 2015Consulting Engineers:SMEC-Brisbane-AQUA-BDA-CEMATFor the Month of December 2015

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

Project stage	Project Activity	Potential Environmental Impacts	Proposed mitigation measures	Mitigation Compliance	Mitigation Effectiveness	DSC I	Remar	ks		
Preparation for construction				Indicate in 1-5 scale	Indicate in 1-5 scale	Comp Non C Not aj	liance Compli pplicat	(C); ance (I ole (NA	NC) A)	
						С	-	-	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					
Su apj Su En inf			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 obstructions resulting in delay of work Pergaing of project area	Pegging of all constructions site and labor camp	2	2					
C		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	DSC I	Remar	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	Remar	·ks		
				Indicate in 1-5 scale	Indicate in 1-5 scale	Comp Non (Not aj	oliance Compli pplical	(C); iance (I ble (NA	NC)	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					
	controlling of erosion and Gully		Provide proper drainage facilities	3	3				<u> </u>	┥──┤
			Stockpile top soil for reuse	2	3				<u> </u>	
			Adopt gully control and bioengineering	2	3					<u> </u>
			Procure aggregates from already existing sites	2	2					<u> </u>
			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	l Proposed mitigation measures	Mitigation Compliance	Mitigation Effectiveness	DSC	Remar	·ks		
				Indicate in 1- 5 scale	Indicate in 1-5 scale	Comp Non (Not a C	oliance Compli pplical	(C); iance (I ble (NA	NC) A) NC	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,							
	Dumping of excess materials		disposal of chemical containers, packaging materials, plastic bags provide training to	2	2					
	Quarry operation		workforce on safe handling of toxic materials							
			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	Proposed mitigation massures	Mitigation	Mitigation				
I Toject stage	I Toject Activity	Impacts		Toposed mitigation measures	Compliance	Effectiveness	DSC I	Remar	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)						I
	Earthworks				2	2				
	Stockpiling of construction waste and construction materials	l								

Project stage	Project Activity	Potential Environmental Impacts	Proposed mitigation measures	Mitigation Compliance	Mitigation Effectiveness	DSC I	Remar	·ks		
				Indicate in 1- 5 scale	Indicate in 1-5 scale	Comp Non C Not aj	liance Compli oplical	(C); ance (I ble (NA	NC))	
						<25%	25	> 750/	nc	INA
						<2370	23- 50%	21370		
			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 Operation of construction		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	Proposed mitigation measures	Mitigation Compliance	Mitigation Effectiveness	DSCI	Domor	-lze		
				Indicate in 1- 5 scale	Indicate in 1-5 scale	Comp Non C Not aj C	liance Compli Oplicat	KS (C); ance (I 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					
	ulem		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	Remai	·ks		
				Indicate in 1- 5 scale	Indicate in 1-5 scale	Comp Non (Not a	oliance Compli pplica	i (C); iance (l 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	Proposed mitigation measures	Mitigation Compliance	Mitigation Effectiveness	DSCI	Zemar	ke		
		impacts		Indicate in 1- 5 scale	Indicate in 1-5 scale	Comp Non C Not aj C	liance Compli Oplicat	(C); ance (I ole (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 Environment Impacts	al Proposed mitigation measures	Mitigation Compliance	Mitigation Effectiveness	DSC	Remar	·ks		
Preparation for construction				Indicate in 1- 5 scale	Indicate in 1-5 scale	Comp Non (Not a	oliance Compli pplical	i (C); iance (I ble (NA	NC) A)	
						С			NC	NA
						<25%	25- 50%	>75%		
	Demolition of unnecessary structures	Decline in aesthetics and inconvenience people	to 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: Febraury, 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
	, e. j	100.	(,,,,)	Jen	0.		in premierie

LAB REPORT SUMMARY

	TI	Secondary To EST RESULT COMPRESS	owns Integrated Biratnagar SUMMARY SI SIVE STRENGT	Ur then Environn Sub Lietropulitant HEE Color the M TH OF BRICKS (nental Improve City onth of JANU (Process Contro	ement Project ARY 2015 ol Test)	STIUEIP
Ref. STIUEIP LAB/	Date of Testing	Location	Chanage	BRAND NAME 1 st class brick	Water Absorption	Compressive Strength N/mm2	SCALE OF Sample From
MR283	10/1/2016	RANI	L4	SHREE		11.90	1500 Nos-5 Nos
MR284	10/1/2016	RANI	L4	SHREE		12.30	1500 Nos-5 Nos
MR285	28/01/2016	RANI	L4	ANAND		12.00	1500 Nos-5 Nos
MR286	28/01/216	RANI	L4	ANAND		13.50	1500 Nos-5 Nos
MR287	28/01/2016	CN2	L2A	ANAND		12.40	1500 Nos-5 Nos
MR288	31/01/2016	B2	BARGACHI	ANAND		13.10	1500 Nos-5 Nos
MR289	31/01/2016	B2	BARGACHI	ANAND		13.20	1500 Nos-5 Nos
					Total	35 Nos Brick Crushed	1
					То	tal 10 Nos Brick Cru	ished
s	pecification			IS1077,IS2180or NS1/2035	10%<	> 10N/MM2	
SMEC-B Approved Test Chee Consultan	risbane-AQUA-BD I by Construction S cked by Junior Eng <i>ntr Reps</i>	A-CEMAT upervision Engine gineer	er for	CTCE-KALIKA J/ Submitted by Proje Test conducted by (Contractor Reps	V ect Manager).C Manager	5-7	A Contraction of the second se

Secondary Towns Integrated Fortune Environmental Improvement Project Biratnagar Sub Metropolitant City TEST RESULT SUMMARY SHEET For the Month of JANUARY 2015

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STIUEIP

COMPRESSIVE STRENGTH OF BRICKS (Process Control Test)

Ref. STIUEIP LAB/	Date of Testing	Location	Chanage	BRAND NAME 1 st class brick	Water Absorption	Compressive Strength N/mm2	SCALE OF Sample From
MR263	1/1/2016	B2L2	0+500to 0+520	HIMAL		10.00	1500 Nos-5 Nos
MR264	1/1/2016	B2L2	0+500to 0+520	AMBEY		10.80	1500 Nos-5 Nos
MR265	1/1/2016	B2L2	0+500to 0+520	AMBEY		10.70	1500 Nos-5 Nos
MR266	1/1/2016	B2L2	0+500to 0+520	AMBEY		10.30	1500 Nos-5 Nos
MR267	1/1/2016	S13	L1F	HIMAL		10.30	1500 Nos-5 Nos
MR268	1/1/2016	S13	L1F	AMBEY		10.10	1500 Nos-5 Nos
MR269	1/1/2016	S13	L1F	AMBEY		10.30	1500 Nos-5 Nos
MR270	3/1/2016	T2 Jatuwa	MAN HOLE NO 225	AMBEY		10.80	1500 Nos-5 Nos
MR271	3/1/2016	T2 Jatuwa	MAN HOLE NO 225	AMBEY		10.60	1500 Nos-5 Nos
MR272	3/1/2016	T2 Jatuwa	MAN HOLE NO 225	AMBEY		10.8	1500 Nos-5 Nos
			S. 2. (Sec.) 331	1.1.1.1.1.1.1.1	Tot	al 50 Nos Brick Crus	hed
Sp	ecification	Sec. 4.		IS1077,IS2180or NS1/2035	10%<	> 10N/MM2	`
SMEC-Br Approved Test Check <i>Consultan</i>	isbane-AQUA-BI by Construction ked by Junior Er a <i>tr Reps</i>	DA-CEMAT Supervision Engine	eer (b)	CTCE-KALIKA J/V Submitted by Projec Test conducted by Q. Contractor Reps	t Manager C Manager	A man of the second sec	

	TI	Secondary T	owns Integrated Biratnagan Γ SUMMARY SE	HOF BRICKS	nental Improve City onth of JANU (Process Contro	ement Project ARY 2015 ol Test)	STIUEIF
Ref. STIUEIP LAB/	Date of Testing	Location	Chanage	BRAND NAME 1 st class brick	Water Absorption	Compressive Strength N/mm2	SCALE OF Sample From
MR273	4/1/2016	S13	L1F	AMBEY		10.10	1500 Nos-5 Nos
MR274	4/1/2016	S13	L1F	AMBEY	Remove from site	9.80 (Failed)	1500 Nos-5 Nos
MR275	4/1/2016	S13	L1F	AMBEY	Remove from site	9.50 (failed	1500 Nos-5 Nos
MR276	5/1/2016	R3-T3	Man hole no 256	AMBEY		10.70	1500 Nos-5 Nos
MR277	7/1/2016	S13	L1F	SHREE		10.30	1500 Nos-5 Nos
MR278	7/1/2016	B2L2A	BARGACHI	HIMAL		10.80	1500 Nos-5 Nos
MR279	7/1/2016	B2L2A	BARGACHI	HIMAL	Remove from site	9.50 (failed) 1500 Nos-5 Nos
MR280	7/1/2016	B2L2A	BARGACHI	SHREE		10.80	1500 Nos-5 Nos
MR281	10/1/2016	RANI	L4	ANAND		12.10	1500 Nos-5 Nos
MR282	10/1/2016	RANI	L4	SHREE		11.7	1500 Nos-5 Nos
	<u></u>	1. S.	101111111		То	tal 50 Nos Brick Cru	shed
SI	pecification	8.38		IS1077,IS2180or NS1/2035	10%<	> 10N/MM2	1
SMEC-Br Approved Test Chec <i>Consultan</i>	risbane-AQUA-BD by Construction S ked by Junior Eng atr Reps	A-CEMAT upervision Engin gineer	eer	CTCE-KALIKA J/ Submitted by Proje Test conducted by C Contractor Reps	V ect Manager Q.C Manager	H STATISTICS	

SECONDARY TOWNS INTEGRATED URABAN ENVIRONMENTAL IMPROVEMENT PROJECT

Biratnagar Sup Metropolitant City

Summery of Concrete Crushed Aggregate 20mm down

For The Month Of JANUARY 2016

S.N	DESCRIPTION / SOURCE	TYPE OF MAT.	LAB	Gr	ain Siza I	Distribu	ition	FI	LAA	ACV	Unit Wt	Sp. Gr.	REMARKS
		<u>i i i</u>	REF. NO.	25	20	10	4.75	%	%		%		1.1
1	T2 Line Man Hole No225 jatuwa	Cr Aggregates	MR96	100	97.34	30.71	4.36						Aggregates
2	T2 Line Man Hole No186 jatuwa	Cr Aggregates	MR97	100	96.99	31.06	3.61	13.04	32.8				Source
3	R3 T3 Line Man Hole No 186	Cr Aggregates	MR98	100	96.37	31.55	4.36						Om shree
4	R27-T3 Line	Cr Aggregates	MR99	100	95.58	32.39	4.62	12.16	32.20				
5	R27-T3 Line	Cr Aggregates	MR100	100	96.51	34.34	3.65						Crusher
6	B1 L2A	Cr Aggregates	MR101	100	96.12	34.75	4.32	12.02	32.04	19.3			Plant
Se	ection 900:IS 383-1970 Required	Gradednomina I size 20mm		100	95-100	25-55	0-10	Less 15%	Less 35%	Less 30%			*

SMEC-Brisbane-AQUA-CEMAT-BDA

Approved by CSE



CTCE-KALIKA J/V Submitted by Project Manager

SECONDARY TOWNS INTEGRATED UP ABAN ENVIRONMENTAL IMPROVEMENT PROJECT

Biratnagar Sub-Metropolitant City

Summery of Concrete Crushed Aggregate 20mm down

For The Month Of JANUARY 2016

S.N	DESCRIPTION / SOURCE	TYPE OF MAT.	LAB	Gr	ain Siza	Distribu	ition	FI	LAA	ACV	Unit Wt	Sp. Gr.	REMARKS
			REF. NO.	25	20	10	4.75	%	%		%		
13	B3-LINE Concrete Work	Cr Aggregates	MR108	100	96.10	32.22	5.28						Aggregates
14	B3-LINE Concrete Work	Cr Aggregates	MR109	100	96.07	33.31	5.47						Source
15	B2-LINE Concrete Work	Cr Aggregates	MR110	100	96.18	32.32	5.45	12.30	33.88	19.9			Om shree
16	B2-LINE Concrete Work	Cr Aggregates	MR111	100	95.95	32.25	5.90						
17	B2-LINE Concrete Work	Cr Aggregates	MR112	100	95.79	30.42	5.12						Crusher
18	S13-L1F Concrete Work	Cr Aggregates	MR113	100	96.08	30.65	5.46	13.25	33.65	20.3			Plant
Se	ction 900:IS 383-1970 Required	Gradednomina I size 20mm		100	95-100	25-55	0-10	Less 15%	Less 35%	Less 30%			
SM	EC-Brisbane-AQUA-CEMA	T-BDA				CTCE-		A J/V					
Арр	proved by CSE					Submit	ted by	Project I	Manager	STATE STERNE	1		
Tes	t Checked by Junior Engin	eer				Test co	nduct	ed by Q.C	C Manag		x	~	

Consultant Reps

Contractor Reps

SECONDARY TOWNS INTEGRATED URABAN ENVIRONMENTAL IMPROVEMENT PROJECT

Biratnagar Sup-Metropolitant City

Summery of Concrete Crushed Aggregate 20mm down

For The Month Of JANUARY 2016

DESCRIPTION / SOURCE	TYPE OF MAT.	LAB	Gra	ain Siza I	Distribu	ition	FI	LAA	ACV	Unit Wt	Sp. Gr.	REMARKS
		REF. NO.	25	20	10	4.75	%	%		%		
S13-L1F Concrete Work	Cr Aggregates	MR114	100	95.98	32.65	5.95						Aggregates
Slab Casting Concrete Work	Cr Aggregates	MR115	100	95.39	32.84	6.09	12.10	32.84	20.4			Source
Slab Casting Concrete Work	Cr Aggregates	MR116	100	95.13	32.73	5.58						Om shree
Slab Casting Concrete Work	Cr Aggregates	MR117	100	95.34	31.86	5.79						
Man Hole Casting Concrete Work	Cr Aggregates	MR118	100	95.56	32.03	6.14	12.64	32.68	20.5			Crusher
Man Hole Casting Concrete Work	Cr Aggregates	MR119	100	95.37	32.06	6.48						Plant
ection 900:IS 383-1970 Required	Gradednomina I size 20mm		100	95-100	25-55	0-10	Less 159	Less 359	Less 309	%		
	DESCRIPTION / SOURCE S13-L1F Concrete Work Slab Casting Concrete Work Slab Casting Concrete Work Slab Casting Concrete Work Man Hole Casting Concrete Work Man Hole Casting Concrete Work	DESCRIPTION / SOURCETYPE OF MAT.S13-L1F Concrete WorkCr AggregatesSlab Casting Concrete WorkCr AggregatesSlab Casting Concrete WorkCr AggregatesSlab Casting Concrete WorkCr AggregatesSlab Casting Concrete WorkCr AggregatesMan Hole Casting Concrete Work<	DESCRIPTION / SOURCETYPE OF MAT.LAB REF. NO.S13-L1F Concrete WorkCr AggregatesMR114Slab Casting Concrete WorkCr AggregatesMR115Slab Casting Concrete WorkCr AggregatesMR116Slab Casting Concrete WorkCr AggregatesMR117Man Hole Casting Concrete WorkCr AggregatesMR118Man Hole Casting Concrete WorkCr AggregatesMR118Man Hole Casting Concrete WorkCr AggregatesMR118Man Hole Casting Concrete WorkCr AggregatesMR119ection 900:IS 383-1970 RequiredGradednomina Isize 20mmState	DESCRIPTION / SOURCETYPE OF MAT.LAB REF. 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NO.Grain Siza Distribut 25S13-L1F Concrete WorkCr AggregatesMR11410095.9832.65Slab Casting Concrete WorkCr AggregatesMR11510095.3932.84Slab Casting Concrete WorkCr AggregatesMR11610095.1332.73Slab Casting Concrete WorkCr AggregatesMR11610095.3431.86Man Hole Casting Concrete WorkCr AggregatesMR11710095.3632.03Man Hole Casting Concrete WorkCr AggregatesMR11810095.3632.03Man Hole Casting Concrete WorkCr AggregatesMR11910095.3732.06ection 900:IS 383-1970 RequiredGradednomina Isize 20mm10095-10025-55</td><td>DESCRIPTION / SOURCE TYPE OF MAT. LAB Grain Size Distribution REF. NO. 25 20 10 4.75 S13-L1F Concrete Work Cr Aggregates MR114 100 95.98 32.65 5.95 Slab Casting Concrete Work Cr Aggregates MR115 100 95.39 32.84 6.09 Slab Casting Concrete Work Cr Aggregates MR116 100 95.13 32.73 5.58 Slab Casting Concrete Work Cr Aggregates MR116 100 95.34 31.86 5.79 Man Hole Casting Concrete Work Cr Aggregates MR117 100 95.36 32.03 6.14 Man Hole Casting Concrete Work Cr Aggregates MR118 100 95.37 32.06 6.48 ection 900:IS 383-1970 Required Gradednomina I size 20mm 100 95-100 25-55 0-10</td><td>DESCRIPTION / SOURCE TYPE OF MAT. LAB REF. NO. Grain Siza Distribution FI 313-L1F Concrete Work Cr Aggregates MR114 100 95.98 32.65 5.95 </td><td>DESCRIPTION / SOURCE TYPE OF MAT. LAB Grain Siza Distribution FI LAA REF. NO 25 20 10 4.75 $\%$ $\%$ S13-L1F Concrete Work Cr Aggregates MR114 100 95.98 32.65 5.95 Image: Concrete Work Cr Aggregates MR115 100 95.39 32.84 6.09 12.10 32.84 Slab Casting Concrete Work Cr Aggregates MR115 100 95.39 32.84 6.09 12.10 32.84 Slab Casting Concrete Work Cr Aggregates MR116 100 95.33 32.73 5.58 Image: Concrete Work Cr Aggregates MR117 100 95.34 31.86 5.79 Image: Concrete Work Cr Aggregates MR117 100 95.56 32.03 6.14 12.64 32.68 Man Hole Casting Concrete Work Cr Aggregates MR118 100 95.37 32.06 6.48 Image: Concrete Work Cr Aggregates MR119 100 95.45 0.40 Less 15</td><td>DESCRIPTION / SOURCE TYPE OF MAT. LAB Grain Size Jistribution FI LAA ACV S13-L1F Concrete Work Cr Aggregates MR114 100 95.98 32.65 5.95 Image: Concrete Work Image: Concrete Work Cr Aggregates MR114 100 95.39 32.84 6.09 12.10 32.84 20.4 Slab Casting Concrete Work Cr Aggregates MR116 100 95.39 32.84 6.09 12.10 32.84 20.4 Slab Casting Concrete Work Cr Aggregates MR116 100 95.13 32.73 5.58 Image: Concrete Work Cr Aggregates MR117 100 95.34 31.86 5.79 Image: Concrete Work Cr Aggregates MR117 100 95.34 31.86 5.79 Image: Concrete Work Cr Aggregates MR118 100 95.36 32.03 6.14 12.64 32.68 20.5 Man Hole Casting Concrete Work Cr Aggregates MR119 100 95.37 32.06 6.48 Image: Concrete Work Ima</td><td>DESCRIPTION / SOURCE TYPE OF MAT. LAB Grain Size Distribution File LAA ACV Unit Wt S13-L1F Concrete Work Cr Aggregates MR114 100 95.98 32.65 5.95 Image: Concrete Work Image: Concrete Work Cr Aggregates MR115 100 95.39 32.84 6.09 12.10 32.84 20.4 Image: Concrete Work Image: Concrete Work Cr Aggregates MR115 100 95.39 32.84 6.09 12.10 32.84 20.4 Image: Concrete Work Image: Concrete Work Cr Aggregates MR116 100 95.31 32.73 5.58 Image: Concrete Work Image: Concrete Work Cr Aggregates MR117 100 95.34 31.86 5.79 Image: Concrete Work Image: Concrete Work</td><td>DESCRIPTION / SOURCE TYPE OF MAT. LAB Grain Size Distribution File LAA ACV Unit Wt Sp. Gr. S13-L1F Concrete Work Cr Aggregates MR114 100 95.98 32.65 5.95 - Image: Size Size Size Size Size Size Size Size</td></t<>	DESCRIPTION / SOURCETYPE OF MAT.LAB REF. 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NO.Grain Siza Distribut 25S13-L1F Concrete WorkCr AggregatesMR11410095.9832.65Slab Casting Concrete WorkCr AggregatesMR11510095.3932.84Slab Casting Concrete WorkCr AggregatesMR11610095.1332.73Slab Casting Concrete WorkCr AggregatesMR11610095.3431.86Man Hole Casting Concrete WorkCr AggregatesMR11710095.3632.03Man Hole Casting Concrete WorkCr AggregatesMR11810095.3632.03Man Hole Casting Concrete WorkCr AggregatesMR11910095.3732.06ection 900:IS 383-1970 RequiredGradednomina Isize 20mm10095-10025-55	DESCRIPTION / SOURCE TYPE OF MAT. LAB Grain Size Distribution REF. NO. 25 20 10 4.75 S13-L1F Concrete Work Cr Aggregates MR114 100 95.98 32.65 5.95 Slab Casting Concrete Work Cr Aggregates MR115 100 95.39 32.84 6.09 Slab Casting Concrete Work Cr Aggregates MR116 100 95.13 32.73 5.58 Slab Casting Concrete Work Cr Aggregates MR116 100 95.34 31.86 5.79 Man Hole Casting Concrete Work Cr Aggregates MR117 100 95.36 32.03 6.14 Man Hole Casting Concrete Work Cr Aggregates MR118 100 95.37 32.06 6.48 ection 900:IS 383-1970 Required Gradednomina I size 20mm 100 95-100 25-55 0-10	DESCRIPTION / SOURCE TYPE OF MAT. LAB REF. NO. Grain Siza Distribution FI 313-L1F Concrete Work Cr Aggregates MR114 100 95.98 32.65 5.95	DESCRIPTION / SOURCE TYPE OF MAT. LAB Grain Siza Distribution FI LAA REF. NO 25 20 10 4.75 $\%$ $\%$ S13-L1F Concrete Work Cr Aggregates MR114 100 95.98 32.65 5.95 Image: Concrete Work Cr Aggregates MR115 100 95.39 32.84 6.09 12.10 32.84 Slab Casting Concrete Work Cr Aggregates MR115 100 95.39 32.84 6.09 12.10 32.84 Slab Casting Concrete Work Cr Aggregates MR116 100 95.33 32.73 5.58 Image: Concrete Work Cr Aggregates MR117 100 95.34 31.86 5.79 Image: Concrete Work Cr Aggregates MR117 100 95.56 32.03 6.14 12.64 32.68 Man Hole Casting Concrete Work Cr Aggregates MR118 100 95.37 32.06 6.48 Image: Concrete Work Cr Aggregates MR119 100 95.45 0.40 Less 15	DESCRIPTION / SOURCE TYPE OF MAT. LAB Grain Size Jistribution FI LAA ACV S13-L1F Concrete Work Cr Aggregates MR114 100 95.98 32.65 5.95 Image: Concrete Work Image: Concrete Work Cr Aggregates MR114 100 95.39 32.84 6.09 12.10 32.84 20.4 Slab Casting Concrete Work Cr Aggregates MR116 100 95.39 32.84 6.09 12.10 32.84 20.4 Slab Casting Concrete Work Cr Aggregates MR116 100 95.13 32.73 5.58 Image: Concrete Work Cr Aggregates MR117 100 95.34 31.86 5.79 Image: Concrete Work Cr Aggregates MR117 100 95.34 31.86 5.79 Image: Concrete Work Cr Aggregates MR118 100 95.36 32.03 6.14 12.64 32.68 20.5 Man Hole Casting Concrete Work Cr Aggregates MR119 100 95.37 32.06 6.48 Image: Concrete Work Ima	DESCRIPTION / SOURCE TYPE OF MAT. LAB Grain Size Distribution File LAA ACV Unit Wt S13-L1F Concrete Work Cr Aggregates MR114 100 95.98 32.65 5.95 Image: Concrete Work Image: Concrete Work Cr Aggregates MR115 100 95.39 32.84 6.09 12.10 32.84 20.4 Image: Concrete Work Image: Concrete Work Cr Aggregates MR115 100 95.39 32.84 6.09 12.10 32.84 20.4 Image: Concrete Work Image: Concrete Work Cr Aggregates MR116 100 95.31 32.73 5.58 Image: Concrete Work Image: Concrete Work Cr Aggregates MR117 100 95.34 31.86 5.79 Image: Concrete Work Image: Concrete Work	DESCRIPTION / SOURCE TYPE OF MAT. LAB Grain Size Distribution File LAA ACV Unit Wt Sp. Gr. S13-L1F Concrete Work Cr Aggregates MR114 100 95.98 32.65 5.95 - Image: Size Size Size Size Size Size Size Size

SMEC-Brisbane-AQUA-CEMAT-BDA

Approved by CSE

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Test Checked by Junior Engineer

Consultant Reps

CTCE-KALIKA J/V

Submitted by Project Manager Test conducted by Q.C Manager

Contractor Reps

SECONDARY TOWNS INTEGRATED UP BAN ENVIRONMENTAL IMPROVEMENT PROJECT

Biratnagar Sub-Metropolitant City

Summery of Concrete Crushed Aggregate 20mm down

For The Month Of JANUARY 2016

S.N.	DESCRIPTION / SOURCE	TYPE OF MAT.	LAB	Gr	ain Siza	Distribu	ition	FI	LAA	ACV	Unit Wt	Sp. Gr.	REMARKS
			REF. NO.	25	20	10	4.75	%	%		%		
7	B1L2A	Cr Aggregates	MR102	100	96.85	39.83	4.34						Aggregates
8	B1L2A	Cr Aggregates	MR103	100	96.91	39.88	4.22						Source
9	S-5 LINE Concrete WORK	Cr Aggregates	MR104	100	95.04	34.67	5.79	12.38	34.20	20.00			Om shree
10	S-5 LINE Concrete WORK	Cr Aggregates	MR105	100	96.14	36.97	5.86						
11	S-5 LINE Concrete WORK	Cr Aggregates	MR106	100	95.99	33.35	6.34						Crusher
12	B3-LINE Concrete Work	Cr Aggregates	MR107	100	96.00	33.51	6.23	12.29	34.12	20.20			Plant
Sec	ction 900:IS 383-1970 Required	Gradednomina I size 20mm		100	95-100	25-55	0-10	Less 15%	Less 35%	Less 30%			

SMEC-Brisbane-AQUA-CEMAT-BDA

Approved by CSE

Test Checked by Junior Engineer

CTCE-KALIKA J/V

Submitted by Project Manager

Test conducted by Q.C Manager

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

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Summery of Concrete Crushed Aggregate 20mm down

For The Month Of JANUARY 2016

S.N	DESCRIPTION / SOURCE	TYPE OF MAT.	LAB	Gr	ain Siza	Distribu	ition	FI	LAA	ACV	Unit Wt	Sp. Gr.	REMARKS
			REF. NO.	25	20	10	4.75	%	%	-	%		
25	Man Hole Casting Concrete Work	Cr Aggregates	MR120	100	95.52	31.30	5.29						Aggregates
26	Kerb Stone Casting Concrete work	Cr Aggregates	MR121	100	95.37	31.69	5.34	12.63	34.04	19.6			Source
27	Kerb Stone Casting Concrete work	Cr Aggregates	MR122	100	95.56	32.39	5.83			1			Om shree
28	Kerb Stone Casting Concrete work	Cr Aggregates	MR123	100	95.58	30.92	5.34						
29	Contractor Yard Stocl Pile	Cr Aggregates	MR124	100	96.01	31.24	5.08	12.53	33.56	20.1		-	Crusher
30	Contractor Yard Stocl Pile	Cr Aggregates	MR125	100	96.54	32.09	5.67						Plant
s	ection 900:IS 383-1970 Required	Gradednomina I size 20mm		100	95-100	25-55	0-10	Less 15%	Less 35%	Less 30%	6		
SM App Tes Cor	EC-Brisbane-AQUA-CEMAT-I proved by CSE	BDA				CTCE-k Submit Test co Contra	(ALIKA ted by inducto	A J/V Project I ed by Q.(Manage C Manage	THE COLOR			

SECONDARY TOWNS INTEGRATED URABAN ENVIRONMENTAL IMPROVEMENT PROJECT BiratnagarSup-Metropolitant City CEMENT TEST SUMMERY

For the Month of JANUARY 2016

SN	Lab. Ref.	Description of cement	Testing	Consister	ncy & Settir	ng Time	Remarks
0.14.	NO.		Date	Norm. Const.	Intial(min.)	Final(min.)	
7	MR47	SHIVAM OPC	7/1/2016	36.70	205	360	All Cement
8	MR48	SHIVAM OPC	10/1/2016	37.10	190	300	Are
9	MR49	SHIVAM OPC	12/1/201 <mark>6</mark>	37.90	180	285	Nepali
10	MR50	SHIVAM OPC	16/01/2016	38.30	170	290	BRAND
11.	MR51	SHIVAM OPC	20/01/20 <mark>16</mark>	38.10	175	300	OPC
12	MR52	SHIVAM OPC	24/01/2016	38.40	165	290	
Requ	irements in a	accordance with BS 12			> 45 Min.	10 Hrs	

SHIVAM OPC CEMENT NEW BAGS 55 Per kg

SMCE-Brisbane-AQUA-BDA

Approved by C.S.E

Test Checked by Junior Engineer

Consultant Reps

CTCE-KALIKA J/V

Submitted by Project Manager

Test Conducted by Q.C Manager

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Contractores Reps

SECONDARY TOWNS INTEGRATED URABAN ENVIRONMENTAL IMPROVEMENT PROJECT Biratnagar Sub Metropolitant City

CEMENT TEST SUMMERY

For the Month of JANUARY 2016

S.N.	Lab. Ref.	Description of cement	Testing	Consister	ncy & Settin	ng Time	Remarks
	NO.		Date	Norm. Const.	Intial(min.)	Final(min.)	
_1	MR41	SHIVAM OPC	1/1/2016	36.00	250	370	All Cement
2	MR42	SHIVAM OPC	2/1/2016	36.60	265	380	Are
3	MR43	SHIVAM OPC	3/1/2016	36.30	270	375	Nepali
4	MR44	SHIVAM OPC	4/1/2016	37.10	240	420	BRAND
5	MR45	SHIVAM OPC	5/1/2016	37.70	255	400	OPC
6	MR46	SHIVAM OPC	6/1/2016	36.70	235	365	
Requi	irements in a	accordance with BS 12			> 45 Min.	10 Hrs	

SHIVAM OPC CEMENT NEW BAGS 55 Per kg

SMCE-Brisbane-AQUA-BDA

Approved by C.S.E

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Test Checked by Junior Engineer

Consultant Reps

CTCE-KALIKA J/V	
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Submitted by Project Manager Test Conducted by Q.C.Manager

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Contractores Reps

SECONDARY TOWNS INTEGRATED URABAN ENVIRONMENTAL IMPROVEMENT PROJECT Biratnagar Sub-Metropolitant City SUMMARY OF CUBE COMPRESSIVE STRENGTH TEST M20/20& M25/20 Work Mix FOR THE MONTH OF JANUARY 2016

Lab Ref	Date of	Deatails of Mix	Location	Ratio by YORJUME				1900		and the second se		
No	Casting			Water	Coment	Sand	Aggregate	Cement Brand	Aggregate/Sand	7 days	28-Days	2
			Structure	0.50	1	2	3.5	Shivam	Om shree C/plant	16.74	22.37	
318	02/01/216	M20 Work mix	RCC BED SLAB BS	0.50	1	2	3.5	Shivam	Om shree C/plant	16.59	22.59	1.22
319	03/01/216	M20 Work mix	B1 SHERA WALL 1+758 to 1+782	0.50	1	2	3.5	Shivam	Om shree C/plant	16.59	Remain	
320	4/1/2016	M20 Work mix	B3L2A SHEAR WALL	0.50	1	2	3.5	Shivam	Om shree C/plant	16.00		
321	5/1/2016	M20 Work mix	T3-R3/R27-127	0.50	1	2	3.5	Shivam	Om shree C/plant	16.30		
322	6/1/2016	M20 Work mix	B1L2A SHEAR WALL	0.50	4	2	3.5	Shivam	Om shree C/plant	16.30	5-16	
323	6/01/216	M20 Work mix	B3L2A SHEAR WALL	0.50	1		2.5	Shivam	Om shree C/plant	15.33	115	
324	6/1/2016	M20 Work mix	S13L1F RCC BED	0.50	1	2	3.5	Shiyam	Om shree C/plant	13.19	1 100	
325	7/1/2016	M15 Work mix	PCC BED B1	0.52	1	2	4	Shiyam	Om shree C/plant	12.89	T	
326	7/1/2016	M15 Work mix	PCC BED B3	0.52	1 .	2	4	Shivan	Om shree C/plant	15.70		18 Q.
327	10/1/2016	M20 Work mix	B1 SHERA WALL	0.50	1	2	3.5	Shivani	Om shree Ciplant	15.78	137	0
328	11/1/2016	M20 Work mix	B2 PCC BED	0.50	1	2	3.5	Shivam	Om shree Ciplant	16.89		1
329	12/1/2016	M20 Work mix	T2 Line PCC BED	0.50	1	2	3.5	Shivam	Om shree Orplant	15.95	125	10 E.I.
330	13/1/2016	M20 Work mix	T2 Line L28 PCC BED	0.50	1	2	3.5	Shivam	Om shree C/plant	16.00	127	
331	13/1/2016	M20 Work mix	National Trading Line	0.50	1	2	3.5	Shivam	Om shree C/plant	10.00		
332	14/1/2016	M20 Work mix	National Trading Line	0.50	1	2	3.5	Shivam	Om shree C/plant	10.70		1
333	14/1/2016	M15 Work mix	T3-L28 PCC BED	0.52	1	2	4	Shivam	Om shree C/plant	14.37		
334	14/1/2016	M15 Work mix	B1 PCC BED	0.52	1	2	4	Shivam	Om shree C/plant	12.22		
225	19/01/2016	M15 Work mix	S5-1+810 to 1+874 Jatuwa	0.52	1	2	4	Shivam	Om shree C/plant	11.41		-
226	22/01/2016	M20 Work mix	T2-Line PCC	0.50	1	2	3.5	Shivam	Om shree C/plant	17.70		1
227	24/01/2016	M20 Work mix	National Trading Line	0.50	1	2	3.5	Shivam	Om shree C/plant	17.85	1.10	Par at-
337	24/01/2010									13 8		E a
la general				3.			1.000		Total 6	64 NOS cube c	rushed on JAN	UARY
	6.	enifacation Limit Ta	ble For M20/20 on 7 days Age Min 67	% of Total	Compre	ssive S	trength		Min Required	13.4	20	1
-	St	ecifacation Limit Ta	ble For M15/20 on 7 days Age Min 67	% of Total	Compre	essive S	trength		Min Required	10.05	13	
C-Bi	risbane-A d by Con	QUA-BDA	ervision Engineer/CSE	CTC Sub	E-KA	LIKA 1 by P	J/V Project M	anager				RULWIT
	320 321 322 323 324 325 326 327 328 329 330 331 332 333 334 335 336 337 336 337 336 337 537 536 537 536 537 536 537 536 537 536 537 536 537 536 537 536 537 536 537 536 537 536 537 537 536 537 536 537 537 536 537 537 537 537 537 537 537 537	320 4/1/2016 321 5/1/2016 322 6/1/2016 323 6/01/216 324 6/1/2016 325 7/1/2016 326 7/1/2016 327 10/1/2016 328 11/1/2016 329 12/1/2016 330 13/1/2016 331 13/1/2016 332 14/1/2016 333 14/1/2016 334 14/1/2016 335 19/01/2016 336 22/01/2016 337 24/01/2016 337 24/01/2016 337 24/01/2016 337 24/01/2016 337 24/01/2016 337 24/01/2016 337 24/01/2016 337 24/01/2016 337 24/01/2016 337 24/01/2016 337 24/01/2016 338 337 340 34/3/3/3/3/3/3/3/3/3/3/3/3/3/3/3/3/3/3/	320 4/1/2016 M20 Work mix 321 5/1/2016 M20 Work mix 322 6/1/2016 M20 Work mix 323 6/01/216 M20 Work mix 324 6/1/2016 M20 Work mix 325 7/1/2016 M15 Work mix 326 7/1/2016 M15 Work mix 327 10/1/2016 M20 Work mix 328 11/1/2016 M20 Work mix 329 12/1/2016 M20 Work mix 330 13/1/2016 M20 Work mix 331 13/1/2016 M20 Work mix 332 14/1/2016 M20 Work mix 333 14/1/2016 M20 Work mix 334 14/1/2016 M15 Work mix 335 19/01/2016 M15 Work mix 336 22/01/2016 M20 Work mix 337 24/01/2016 M20 Work mix	320 4/1/2016 M20 Work mix B3L2A SHEAR WALL 321 5/1/2016 M20 Work mix T3-R3/R27-T27 322 6/1/2016 M20 Work mix B1L2A SHEAR WALL 323 6/01/216 M20 Work mix B3L2A SHEAR WALL 324 6/1/2016 M20 Work mix B3L2A SHEAR WALL 324 6/1/2016 M20 Work mix S13L1F RCC BED 325 7/1/2016 M15 Work mix PCC BED B1 326 7/1/2016 M15 Work mix PCC BED B3 327 10/1/2016 M20 Work mix B1 SHERA WALL 328 11/1/2016 M20 Work mix B2 PCC BED 329 12/1/2016 M20 Work mix T2 Line PCC BED 330 13/1/2016 M20 Work mix National Trading Line 331 13/1/2016 M20 Work mix National Trading Line 333 14/1/2016 M15 Work mix T3-L28 PCC BED 334 14/1/2016 M15 Work mix S5-1+810 to 1+874 Jatuwa 336 22/01/2016 M20 Work mix <t< td=""><td>320 4/1/2016 M20 Work mix B3L2A SHEAR WALL 0.50 321 5/1/2016 M20 Work mix T3-R3/R27-T27 0.50 322 6/1/2016 M20 Work mix B1L2A SHEAR WALL 0.50 323 6/01/216 M20 Work mix B3L2A SHEAR WALL 0.50 324 6/1/2016 M20 Work mix S13L1F RCC BED 0.50 325 7/1/2016 M15 Work mix PCC BED B1 0.52 326 7/1/2016 M15 Work mix PCC BED B3 0.52 327 10/1/2016 M20 Work mix B1 SHERA WALL 0.50 328 11/1/2016 M20 Work mix B2 PCC BED 0.50 329 12/1/2016 M20 Work mix T2 Line PCC BED 0.50 330 13/1/2016 M20 Work mix National Trading Line 0.50 331 13/1/2016 M15 Work mix T3-L28 PCC BED 0.52 333 14/1/2016 M15 Work mix T3-L28 PCC BED 0.52 334 14/1/2016 M15 Work mix</td><td>320 4/1/2016 M20 Work mix B3L2A SHEAR WALL 0.50 1 321 5/1/2016 M20 Work mix T3-R3/R27-T27 0.50 1 322 6/1/2016 M20 Work mix B1L2A SHEAR WALL 0.50 1 323 6/01/216 M20 Work mix B3L2A SHEAR WALL 0.50 1 324 6/1/2016 M20 Work mix B3L2A SHEAR WALL 0.50 1 324 6/01/216 M20 Work mix B3L2A SHEAR WALL 0.50 1 325 7/1/2016 M15 Work mix PCC BED B1 0.52 1 326 7/1/2016 M15 Work mix PCC BED B3 0.52 1 327 10/1/2016 M20 Work mix B1 SHERA WALL 0.50 1 328 11/1/2016 M20 Work mix T2 Line PCC BED 0.50 1 330 13/1/2016 M20 Work mix T2 Line L28 PCC BED 0.50 1 331 13/1/2016 M15 Work mix National Trading Line 0.52 1</td><td>320 4/11/2016 M20 Work mix B3L2A SHEAR WALL 0.50 1 2 321 6/11/2016 M20 Work mix T3-R3/R27-T27 0.50 1 2 322 6/11/2016 M20 Work mix B1L2A SHEAR WALL 0.50 1 2 323 6/01/216 M20 Work mix B3L2A SHEAR WALL 0.50 1 2 324 6/11/2016 M20 Work mix B3L2A SHEAR WALL 0.50 1 2 325 7/11/2016 M15 Work mix PCC BED B1 0.52 1 2 326 7/11/2016 M15 Work mix PCC BED B3 0.52 1 2 327 10/11/2016 M20 Work mix B1 SHERA WALL 0.50 1 2 328 11/11/2016 M20 Work mix T2 Line PCC BED 0.50 1 2 330 13/1/2016 M20 Work mix T2 Line PCC BED 0.50 1 2 331 13/1/2016 M20 Work mix National Trading Line 0.50</td><td>320 4/1/2016 M20 Work mix B3L2A SHEAR WALL 0.50 1 2 3.5 321 5/1/2016 M20 Work mix B1L2A SHEAR WALL 0.50 1 2 3.5 322 6/1/216 M20 Work mix B3L2A SHEAR WALL 0.50 1 2 3.5 323 6/01/216 M20 Work mix B3L2A SHEAR WALL 0.50 1 2 3.5 324 6/1/2016 M20 Work mix S13L1F RCC BED 0.50 1 2 3.5 325 7/1/2016 M16 Work mix PCC BED B1 0.52 1 2 4 326 7/1/2016 M16 Work mix PCC BED B3 0.52 1 2 3.5 328 11/1/2016 M20 Work mix B1 SHERA WALL 0.50 1 2 3.5 329 12/1/2016 M20 Work mix T2 Line PCC BED 0.50 1 2 3.5 330 13/1/2016 M20 Work mix T2 Line PCC BED 0.50 1 2 3.5 331 13/1/2016 M20 Work mix T3 L28 PCC B</td><td>320 4/1/2016 M20 Work mix B3L2A SHEAR WALL 0.50 1 2 0.53 Minim 321 5/1/2016 M20 Work mix B1L2A SHEAR WALL 0.50 1 2 3.5 Shivam 322 6/1/2016 M20 Work mix B3L2A SHEAR WALL 0.50 1 2 3.5 Shivam 323 6/01/216 M20 Work mix B3L2A SHEAR WALL 0.50 1 2 3.5 Shivam 324 6/1/2016 M20 Work mix B3L2A SHEAR WALL 0.50 1 2 3.5 Shivam 325 7/1/2016 M16 Work mix PCC BED 0.50 1 2 3.5 Shivam 326 7/1/2016 M16 Work mix PCC BED B1 0.52 1 2 3.5 Shivam 327 10/1/2016 M20 Work mix B1 SHERA WALL 0.50 1 2 3.5 Shivam 328 11/1/2016 M20 Work mix T2 Line PCC BED 0.50 1 2 3.5 Shivam 330 13/1/2016 M20 Work mix Nationa</td><td>320 4/1/2016 M20 Work mix B312A SHEAR WALL 0.50 1 2 5.5 Shivam Om shree Ciplant 321 6/1/2016 M20 Work mix B112A SHEAR WALL 0.50 1 2 3.5 Shivam Om shree Ciplant 322 6/1/2016 M20 Work mix B312A SHEAR WALL 0.50 1 2 3.5 Shivam Om shree Ciplant 323 6/01/216 M20 Work mix B312A SHEAR WALL 0.50 1 2 3.5 Shivam Om shree Ciplant 324 6/01/216 M20 Work mix B312A SHEAR WALL 0.50 1 2 3.5 Shivam Om shree Ciplant 325 7/1/2016 M16 Work mix PCC BED B1 0.52 1 2 4 Shivam Om shree Ciplant 325 7/1/2016 M20 Work mix B1 SHERA WALL 0.50 1 2 3.5 Shivam Om shree Ciplant 326 10/1/2016 M20 Work mix B1 SHERA WALL 0.50 1 2 3.5 Shivam Om shree Ciplant 320 10/1/2016</td><td>320 4/12016 M20 Work mix B3L2A SHEAR WALL 0.50 1 2 0.50 Mixam Om shree Ciplant 16.00 321 6/1/2016 M20 Work mix B3L2A SHEAR WALL 0.50 1 2 3.5 Shivam Om shree Ciplant 16.00 322 6/1/2016 M20 Work mix B3L2A SHEAR WALL 0.50 1 2 3.5 Shivam Om shree Ciplant 16.30 323 60/216 M20 Work mix B3L2A SHEAR WALL 0.50 1 2 3.5 Shivam Om shree Ciplant 16.30 324 6/1/2016 M20 Work mix S13L1F RCC BED 0.50 1 2 3.5 Shivam Om shree Ciplant 13.19 325 7/1/2016 M15 Work mix PCC BED B3 0.82 1 2 3.5 Shivam Om shree Ciplant 15.79 326 7/1/2016 M20 Work mix B1 SHERA WALL 0.50 1 2 3.5 Shivam Om shree Ciplant 15.79 326 1/1/2016 M20 Work mix T2 Line PCC BED 0.50 1</td><td>220 4/12016 M20 Work mix B3LA3 SHEAR WALL 0.50 1 2 3.5 Shivam Om shree Ciplant 16.00 221 6/1/2016 M20 Work mix B3L2A SHEAR WALL 0.50 1 2 3.5 Shivam Om shree Ciplant 16.00 222 6/1/2016 M20 Work mix B3L2A SHEAR WALL 0.50 1 2 3.5 Shivam Om shree Ciplant 16.30 323 6/07.216 M20 Work mix S13L1F RCC BED 0.50 1 2 3.5 Shivam Om shree Ciplant 15.30 </td></t<>	320 4/1/2016 M20 Work mix B3L2A SHEAR WALL 0.50 321 5/1/2016 M20 Work mix T3-R3/R27-T27 0.50 322 6/1/2016 M20 Work mix B1L2A SHEAR WALL 0.50 323 6/01/216 M20 Work mix B3L2A SHEAR WALL 0.50 324 6/1/2016 M20 Work mix S13L1F RCC BED 0.50 325 7/1/2016 M15 Work mix PCC BED B1 0.52 326 7/1/2016 M15 Work mix PCC BED B3 0.52 327 10/1/2016 M20 Work mix B1 SHERA WALL 0.50 328 11/1/2016 M20 Work mix B2 PCC BED 0.50 329 12/1/2016 M20 Work mix T2 Line PCC BED 0.50 330 13/1/2016 M20 Work mix National Trading Line 0.50 331 13/1/2016 M15 Work mix T3-L28 PCC BED 0.52 333 14/1/2016 M15 Work mix T3-L28 PCC BED 0.52 334 14/1/2016 M15 Work mix	320 4/1/2016 M20 Work mix B3L2A SHEAR WALL 0.50 1 321 5/1/2016 M20 Work mix T3-R3/R27-T27 0.50 1 322 6/1/2016 M20 Work mix B1L2A SHEAR WALL 0.50 1 323 6/01/216 M20 Work mix B3L2A SHEAR WALL 0.50 1 324 6/1/2016 M20 Work mix B3L2A SHEAR WALL 0.50 1 324 6/01/216 M20 Work mix B3L2A SHEAR WALL 0.50 1 325 7/1/2016 M15 Work mix PCC BED B1 0.52 1 326 7/1/2016 M15 Work mix PCC BED B3 0.52 1 327 10/1/2016 M20 Work mix B1 SHERA WALL 0.50 1 328 11/1/2016 M20 Work mix T2 Line PCC BED 0.50 1 330 13/1/2016 M20 Work mix T2 Line L28 PCC BED 0.50 1 331 13/1/2016 M15 Work mix National Trading Line 0.52 1	320 4/11/2016 M20 Work mix B3L2A SHEAR WALL 0.50 1 2 321 6/11/2016 M20 Work mix T3-R3/R27-T27 0.50 1 2 322 6/11/2016 M20 Work mix B1L2A SHEAR WALL 0.50 1 2 323 6/01/216 M20 Work mix B3L2A SHEAR WALL 0.50 1 2 324 6/11/2016 M20 Work mix B3L2A SHEAR WALL 0.50 1 2 325 7/11/2016 M15 Work mix PCC BED B1 0.52 1 2 326 7/11/2016 M15 Work mix PCC BED B3 0.52 1 2 327 10/11/2016 M20 Work mix B1 SHERA WALL 0.50 1 2 328 11/11/2016 M20 Work mix T2 Line PCC BED 0.50 1 2 330 13/1/2016 M20 Work mix T2 Line PCC BED 0.50 1 2 331 13/1/2016 M20 Work mix National Trading Line 0.50	320 4/1/2016 M20 Work mix B3L2A SHEAR WALL 0.50 1 2 3.5 321 5/1/2016 M20 Work mix B1L2A SHEAR WALL 0.50 1 2 3.5 322 6/1/216 M20 Work mix B3L2A SHEAR WALL 0.50 1 2 3.5 323 6/01/216 M20 Work mix B3L2A SHEAR WALL 0.50 1 2 3.5 324 6/1/2016 M20 Work mix S13L1F RCC BED 0.50 1 2 3.5 325 7/1/2016 M16 Work mix PCC BED B1 0.52 1 2 4 326 7/1/2016 M16 Work mix PCC BED B3 0.52 1 2 3.5 328 11/1/2016 M20 Work mix B1 SHERA WALL 0.50 1 2 3.5 329 12/1/2016 M20 Work mix T2 Line PCC BED 0.50 1 2 3.5 330 13/1/2016 M20 Work mix T2 Line PCC BED 0.50 1 2 3.5 331 13/1/2016 M20 Work mix T3 L28 PCC B	320 4/1/2016 M20 Work mix B3L2A SHEAR WALL 0.50 1 2 0.53 Minim 321 5/1/2016 M20 Work mix B1L2A SHEAR WALL 0.50 1 2 3.5 Shivam 322 6/1/2016 M20 Work mix B3L2A SHEAR WALL 0.50 1 2 3.5 Shivam 323 6/01/216 M20 Work mix B3L2A SHEAR WALL 0.50 1 2 3.5 Shivam 324 6/1/2016 M20 Work mix B3L2A SHEAR WALL 0.50 1 2 3.5 Shivam 325 7/1/2016 M16 Work mix PCC BED 0.50 1 2 3.5 Shivam 326 7/1/2016 M16 Work mix PCC BED B1 0.52 1 2 3.5 Shivam 327 10/1/2016 M20 Work mix B1 SHERA WALL 0.50 1 2 3.5 Shivam 328 11/1/2016 M20 Work mix T2 Line PCC BED 0.50 1 2 3.5 Shivam 330 13/1/2016 M20 Work mix Nationa	320 4/1/2016 M20 Work mix B312A SHEAR WALL 0.50 1 2 5.5 Shivam Om shree Ciplant 321 6/1/2016 M20 Work mix B112A SHEAR WALL 0.50 1 2 3.5 Shivam Om shree Ciplant 322 6/1/2016 M20 Work mix B312A SHEAR WALL 0.50 1 2 3.5 Shivam Om shree Ciplant 323 6/01/216 M20 Work mix B312A SHEAR WALL 0.50 1 2 3.5 Shivam Om shree Ciplant 324 6/01/216 M20 Work mix B312A SHEAR WALL 0.50 1 2 3.5 Shivam Om shree Ciplant 325 7/1/2016 M16 Work mix PCC BED B1 0.52 1 2 4 Shivam Om shree Ciplant 325 7/1/2016 M20 Work mix B1 SHERA WALL 0.50 1 2 3.5 Shivam Om shree Ciplant 326 10/1/2016 M20 Work mix B1 SHERA WALL 0.50 1 2 3.5 Shivam Om shree Ciplant 320 10/1/2016	320 4/12016 M20 Work mix B3L2A SHEAR WALL 0.50 1 2 0.50 Mixam Om shree Ciplant 16.00 321 6/1/2016 M20 Work mix B3L2A SHEAR WALL 0.50 1 2 3.5 Shivam Om shree Ciplant 16.00 322 6/1/2016 M20 Work mix B3L2A SHEAR WALL 0.50 1 2 3.5 Shivam Om shree Ciplant 16.30 323 60/216 M20 Work mix B3L2A SHEAR WALL 0.50 1 2 3.5 Shivam Om shree Ciplant 16.30 324 6/1/2016 M20 Work mix S13L1F RCC BED 0.50 1 2 3.5 Shivam Om shree Ciplant 13.19 325 7/1/2016 M15 Work mix PCC BED B3 0.82 1 2 3.5 Shivam Om shree Ciplant 15.79 326 7/1/2016 M20 Work mix B1 SHERA WALL 0.50 1 2 3.5 Shivam Om shree Ciplant 15.79 326 1/1/2016 M20 Work mix T2 Line PCC BED 0.50 1	220 4/12016 M20 Work mix B3LA3 SHEAR WALL 0.50 1 2 3.5 Shivam Om shree Ciplant 16.00 221 6/1/2016 M20 Work mix B3L2A SHEAR WALL 0.50 1 2 3.5 Shivam Om shree Ciplant 16.00 222 6/1/2016 M20 Work mix B3L2A SHEAR WALL 0.50 1 2 3.5 Shivam Om shree Ciplant 16.30 323 6/07.216 M20 Work mix S13L1F RCC BED 0.50 1 2 3.5 Shivam Om shree Ciplant 15.30

Contractors Reps

Consultants Reps



SECONDARY TOWNS INTEGRATED URABAN ENVIRONENTAL IMPROVEMENT PROJECT

Biratnagar Sub-Metropolitant City MONTHLY Test Result Summary Sheet For The Month of

JANUARY 2016

STIUEIP

Graded Crushed Stone Base Course (Process Control)

STANDARD SPECIFICATION FOR ROAD AND BRIDGE WORKS SECTION 1200 Table 12.3 Physical Requirement of Graded Crushed Stone Base

Ref. No. Date Tested Location/ Chainage		Location/ Chainage		Grading sieve size (mm) (% passing by weight)							FI	LAA	VIA	Lab. OMC	Soaked CBR	Lab. MDD	Remarks
No.			40	31.5	20	10	4.75	2.36	0.60	0.075	(%)	(%)	(%)	• (%)	(%)	(g/cc)	
MR15	5/1/2016	From om shree crusher plant	100	94.6	81.6	53.8	39.6	30.1	15.6	5.7	16.91	29.56	16.00	-	-	-	
MR16	5/1/2016	From om shree crusher plant		+			-				700	28.40		_	-		
MR17	5/1/2016	From om shree crusher plant	100	96.7	74.2	57.6	48.8	41.4	21.2	5.10	17.71			6.5	98	2.305	
: /: 7																	
	Require	d Specifacation	100	85-100	62-92	40-70	26-55	21-53	12-28	2-10	<u>≤</u> 25	<u>≤</u> 30	<u>≤</u> 20		<u>≥</u> 80		
REI 3:2:1	MARKS:Cr :4) Achive	ushed Stone base Blend d to Meet Target Grading	ded gra g well	ading o	on 40m	m crus	shed=3	0%,20	mm cr	ushed=	=20%,1	0mm c	rushed	=10%,	Stone d	ust=40	%(Ratio
SME	C-Brisbane	-AQUA-CEMAT-BDA							CTCE	-KALI it by P	KA J/V roject	Manag	TRIE/				
Test	Checked b	by Junior Engineer				•			Test (Conduc	cted by Reps	Q.C.	anager	Sur	1		

	SECONDARY TOWNS	S INTE	GRATE	DUR	ABAN E	INVIRG	ONME	NTAL I	MPRO	VEMI	ENT PR	OJECT	
	Summary of Fine	Concr	Bir ete Ag	atnaga grega	r Sub-M les San	etropoli Id	FOR	у ГНЕ МС	ONTH	OF JA	NUAR	2016	
		LAB			Grain	Siza Distri	bution	<u> 2</u>		Sp	Unit	1996	
S.N.	DESCRIPTION / LOCATION	REF. NO:	10	4.75	2.36	1.18	0.6	0.3	0.15	Gr	Weight gm/cc	REMARKS	
1	T2 Line Man Hole no 225	MR96	100.00	96.29	84.29	60.29	42.29	17.14	4.57			source	
2	T <mark>3 Line Man Hole no 186</mark>	MR97	100.00	96.57	88.29	66.29	39.43	15.71	5.73			om shree	
3	R3-T3 Man Hole No186	MR98	100.00	94.86	86.29	63.71	39.43	17.14	6.00				
4	R27-T3	MR99	100.00	91.22	79.05	57.88	39.86	14.41	3.83				
5	R27-T3	MR100	100.00	91.75	79.85	58.25	40.53	14.32	3.64				
6	B1L2A Concrete work	MR101	100.00	91.14	78.86	57.50	39.77	15.23	4.09			crusher ,	
7	B1L2A Concrete work	MR102	100.00	92.42	80.05	64.90	46.46	17.17	4.29			plant	
Speci	facation Limit is 383-1970 Zone -:	2	100-100	90-100	75-100	55-90	35-59	8-30	0-10				
SME(C-BRISBANE-AQUA-CEMAT	-BDA			CTCE-K	ALIKA J/	V oject Mar	A CONTRACTOR					
Test	Checked by Junior Enginee	r			Test Cor	nducted I	by Q.C N	lanager	¥/				
Cons	onsultant Reps Contractor Reps												
						K NOR	-	-		1 A A			

S N	DESCRIPTION / LOCATION	LAB			Grain	Siza Distri	ibution			Sp	Unit	
	BECOMINION / ECCATION	REF. NO:	10	4.75	2.36	1.18	0.6	0.3	0.15	Gr	Weight gm/cc	REMARKS
8	B1L2A Concrete work	MR103	100.00	92.14	80.57	66.59	50.22	18.78	6.55			source
9	S-5 Line concrete work	MR104	100.00	91.53	79.06	64.00	46.59	19.53	5.18			om shree
10	S-5 Line concrete work	MR105	100.00	91.25	78.56	64.11	47.48	22.10	5.91			
11	S-5 Line concrete work	MR106	100.00	91.25	78.75	64.17	47.71	23.75	6.88			
12	B2 Line Concrete Work	MR107	100.00	94.40	81.20	66.40	49.20	25.20	6.20			
13	B2 Line Concrete Work	MR108	100.00	95.56	83.23	68.80	49.70	26.26	6.67	· · ·		crusher
14	B2 Line Concrete Work	MR109	100.00	96.57	81.65	65.93	48.59	25.60	5.04			plant
oeci	acation Limit is 383-1970 Zone -	2	100-100	90-100	75-100	55-90	35-59	8-30	0-10			

Test Checked by Junior Engineer

Consultant Reps

Test Conducted by Q.C Manager

Contractor Reps

	SECONDARY TOWN Summary of Fine	S INTE	GRATE Bir ete Ag	D UR athaga grega	ABAN I Sub-M tes Sar	ENVIR etropol nd	ONME itant Cit	NTAL I ty THE MO	MPRO	OF JA		OJECT
S.N.	DESCRIPTION / LOCATION	LAB	10	4.75	Grain 2.36	Siza Distri	ibution 0.6	0.3	0.15	Sp	Unit Weight	REMARKS
15	S13-L1F Concrete Work	MR110	100.00	95.13	81.14	64.91	45.84	24.34	5.27	Gr	gni/cc	source
16	S13-L1F Concrete Work	MR111	100.00	94.18	79.32	63.45	45.78	25.50	6.22			om shree
17	Slab Casting Yard	MR112	100.00	91.03	78.39	62.3	44.83	22.30	7.82			
18	Slab Casting Yard	MR113	100.00	92.17	78.34	62.44	45.39	21.66	7.37			
19	Slab Casting Yard	MR114	100.00	92.05	77.50	61.59	43.64	19.09	5.68			
20	Slab Casting Yard	MR115	100.00	92.38	77.37	60.74	42.49	17.55	5.54			crusher
21	Man Hole Casting Yard	MR116	100.00	93.93	78.27	62.38	44.39	18.69	6.07			plant
Specif	acation Limit is 383-1970 Zone -	2	100-100	90-100	75-100	55-90	35-59	8-30	0-10			
SME(Appro	C-BRISBANE-AQUA-CEMAT	-BDA			CTCE-K/ Submitte	ALIKA J/ d by Pro	V bject Mar	hage the second				
Cons	ultant Reps				Contrac	tor Reps	- , c. c IV	Andyer	1			

	SECONDARY TOWNS	Concre	BRATE Bire Sete Age	D URA athagar pregat	BAN E Sub-Me es San	NVIRC tropolit	NMEN ant City FOR T	ITAL II / HE MO	MPRO	VEME		OJECT 2016
S.N.	DESCRIPTION / LOCATION	LAB			Grain	Siza Distri	bution			Sp	Unit Weight	REMARKS
		REF. NO:	10	4.75	2.36	1.18	0.6	0.3	0.15	Gr	gm/cc	
22	Man Hole Casting Yard	MR117	100.00	91.96	76.36	59.10	42.08	17.49	5.44			source
23	Man Hole Casting Yard	MR118	100.00	93.06	78.01	59.95	42.82	18.06	5.09			om shree
24	Kerb Stone Casting Yard	MR119	100.00	94.12	79.64	60.86	45.99	19.91	6.11			
25	Kerb Stone Casting Yard	MR120	100.00	93.78	79.11	59.33	41.56	19.33	6.22			
26	Kerb Stone Casting Yard	MR121	100.00	94.85	80.54	61.97	42.06	17.67	4.92			
27	Contractor Yard Stock	MR122	100.00	94.70	80.72	61.86	41.95	16.74	5.93			crusher
28	Contractor Yard Stock	MR123	100.00	93.54	78.33	61.04	39.79	16.04	5.63			plant
Specif	acation Limit is 383-1970 Zone -2		100-100	90-100	75-100	55-90	35-59	8-30	0-10	r		
SMEC	-BRISBANE-AQUA-CEMAT-	BDA			СТСЕ-К	ALIKA J/	v	12 (2) ×	AND I			
Appro	oved by C.S.E				Submitte	ed by Pro	oject Mar	agertaio				
Test Checked by Junior Engineer Test Conducted by Q.C Manager												
Consi	ultant Reps				Contrac	tor Reps		//				

SECONDARY TOWNS INTEGRATED OR ABAN ENVIRONMENTAL IMPROVEMENT PROJECT Birathagar Sub-Metropolitant City Summary of Fine Concrete Aggregates Sand FOR THE MONTH OF JANUARY 2016 LAB Grain Siza Distribution Sp Unit S.N. **DESCRIPTION / LOCATION** Weight REMARKS 10 4.75 2.36 1.18 0.6 0.3 0.15 am/cc REF. NO: Gr 29 Contractor Yard Stock MR124 100.00 93.20 77.80 60.20 39.40 16.20 6.00 source 30 S9-Concrete Work MR125 100.00 93.83 78.13 60.56 39.81 16.64 6.36 om shree 31 S9-Concrete Work MR126 100.00 94.84 79.01 60.59 39.78 16.76 6.45 32 S9-Concrete Work **MR127** 100.00 95.89 79.82 60.54 39.82 16.96 6.61 **CN2** Concrete Work 33 MR128 100.00 95.18 78.49 59.04 38.21 15.32 5.16 CN2 Concrete Work 34 MR129 100.00 94.51 77.54 58.57 37.60 14.98 5.66 crusher

SMEC-BRISBANE-AQUA-CEMAT-BDA	CTCE-KALIKA J/V
Approved by C.S.E	Submitted by Project Manager
Test Checked by Junior Engineer	Test Conducted by Q.C Manager
Consultant Reps	Contractor Reps

78.72

75-100

59.68

55-90

36.64

35-59

15.68

8-30

6.24

0-10

plant

35

CN2 Concrete Work

Specifacation Limit is 383-1970 Zone -2

MR130

100.00

100-100

95.84

90-100

SECONDARY TOWNS INTEGRATED UP AN ENVIRONMENTAL IMPROVEMENT PROJECT BIRATNAGAR Sub Methoditant City Monthly Laboratory Jesting Report STIUEIP

			Т	est Performed	for this mo	nth		
No. Description of Material	Type of test	Total No. of Test upto previous month	No. of Tests	Passed	Failed	Retest Recommended	Total No. of Test upto This month	Remark
1 Granular Material/Gravel material	Sieve analysis	2	0	0	0		2	
	MDD & OMC	2	0	0	0		2	
	C.B.R	2	0	0			2	
	Field Density	0	0	0	0		0	
2 SUB GRADE Preparation	MDD & OMC	4	1	1	0		5	
asPere Specifacation	Field density	10	19	19	0		29	
	C.B.R	5	1	1	0		6	a fata -
3 BRICK WORK	Water Absorption	185	0	0	0		185	
Required Test	Compressive Strength	1333	135	135	0		1468	
4 Masonry Mortar (CM 7.05)	Compressive strength	1452	54	54	0		1506	
5 CONCRETE AGGREGATE						1		
Coarse aggregate (20 mm)	Sieve analysis (20 mm)	95	36	36	0		131	
	LAA	60	13	13	0		73	
	Specific Gravity	16	0	0	0		16	
the set of the Area of	FI / EI	82	14	14	0	1	96	N ALCON
	ACV	89	11	11	0		100	
	SSS							
	Unit weight	2	0	0	0		2	
Fine aggregate (Sand)	Sieve analysis	86	35	35	0	1	121	
in aggregate (cane)	Sand Equivalent Test(S.E)							
	Unit weight	2	0	0	0		2	
6 CONCRETE MIX DESIGN	Concrete mix Design	75	0	0	0		75	
ConcreteM15/20.M20/20	Compressive strength	738	0	0	0		738	
M25/20 & M30/20	Slumn test	72	0	0	0		72	
7 CEMENT Required Test	Change cost			1111				
OPC Coment	Setting time	40	12	12	0	1.1.1.1	52	
OF C Cement	Normal Consistency	40	12	12	0		52	
	Compressive strength	38	0	0	0		38	
8 CONCRETE	Compressive strength							
Work Mix Test M15.M20.M25.M30	Compressive strength	2779	115	115	0		2894	
9 REINFORCEMENT	Required Test				1.11	1.00		8,10,12,16
Reinforcement fore steel	As per Specifacation	5	0	0	0	1 1 2 3	5	20,25 mm dia
	in the sheat and and a							
REINFORCEMENT Reinforcement fore steel	Required Test As per Specifacation	5	0	0	0		5	8,10,12,16 20,25 mm di

Sieve analysis

MDD & OMC

Sub Base Materials

SECONDARY TOWNS INTEGRATED URABAN ENVIRONMENTAL IMPROVEMENT PROJECT BIRATNAGAR SUD-Memopolitant City Monthly Laboratory Testing Report (For The Month OF JANUARY 2016)

				1	Test Performe	d for this mo	nth	Total No. of Tost	
S. No.	Description of Material	Type of test	previous month	No. of Tests	Passed	Failed	Retest Recommended	upto This month	Remarks
		PI	0	0	0	0		0	
		CBR	2	1	1	0		3	
		Field density	0	20	18	2		20	
11	Back Fill Material	Sieve analysis							
		MDD & OMC				-			
		Field density							
		CBR							
12	CS Base	Sieve analysis	2	2	2	0		4	
-	Crushed Stone Base	MDD & OMC	2	1	1	0		3	
	Material Laying	C.B.R	2	1	1	0		3	
		FI + El	1	1	1	0		2	
		LAA	1	2	2	0		3	
		SSS	0	0	0	0		0	
		ACV/AIV	1	1	1	0		2	
		Field Density							
13	ASHPHALT CONCRETE	Sieve analysis							
	Combine Mixed	FI/EI							
		ACV							
	Individual Ca&FA Test	LAA							
		Unit weight							
		SSS		Y 1914	-				
14	BITUMEN TEST	Penetration at25.c	2 -	0	0			2	
	80/100 Bitumen	Softeing point(ring ball)	2	0	0	1		2	
	As per DORbook section	Flash point/Fire Point	2	0	0			2	
	600 Table 6.14/is 73	Ductility at25.c	2	0	0			2	
		Specific at 25.c	2	0	0	1		2	

SECONDARY TOWNS INTEGRATED CEREBY ENVIRONMENTAL IMPROVEMENT PROJECT BIRATNAGAR Sub-Withon City Monthly Laboratory Desting Report STIUEIP

(For The Month Control of the Month 2016)

Cantrasteral CTCE KALIKA

Test Performed for this month

Consultants:SMEC-Brisbane-AQUA-CEMAT-BDA

Contractors: CTCE- KALIKA J/V

			Test i chemica				Total No. of Test		
S. No.	Description of Material	Type of test	previous month	No. of Tests	Passed	Failed	Retest Recommended	upto This month	Remarks
		Water Content	2	0	0			2	
		Loss on Heating for 5 hrs	2	0	0			2	
		Pen-of residue afte loss on	Heating	0	0		1	2	
		Solubility in tricloroothylene	2	0	0			2	
15	Humpipe Test	Three Edge Bearing Load Test	2	5	5			7	200mm to 1600mm 1 each
16	Marshall- Stability Test	Bulk density							
		Stability							
		Flow							
		Air voides	a.						
		Bitumen extraction							
		Voids in Mineral Agg							
5 . S. C.		Job mix in AC Plant							
		Core Field Density							
17	BITUMEN SPREAD TEST					19.00			
	Prime coat	Application rate						ļ	
	Tack coat	Application rate							
18	Machines/Equipment			1.7.5		12 13			
	Caliberation of compressive	1000KN Manuall	2	0	0			2	
	Testing machine	500 KN Manuall	2	0	0			2	
19	MISCELLANEOUS								
	G.I Wire(Gabion Boxes)		5	0	0			5	
	Factory Test Report of Cement		8	0	0			8	
	Factory Test Report of Iron Steel		4	0	0	1.00		4	
	Factory Test Report of 80/100 Bitumen		2	0	0			2	
1.17	Factory Test Report of UPVC/HDP Pipe		2	0	0	The state	1	2	
	UPVC/HDP Pipe Test Result		2	0	0			2	
MDD/OM	C = Max Dry Dennsity	LAA = Los Angeles Abrasio	'n		AIV=Aggreg	ate Impact \ Iix Formula	Alue CE RA	and	
555 = 54	ndium Sulphate Soundness	SMEC-Bri	sbane-AQUA-BD	A-CEMAT			TCE-KALIK	A) HA	1
1001 - 00	recentra Cruching Value	Approved by C.S.	E			Subm	inter bren	ofer Manag	er ~
ACV = Ag		Checked by Junio	r Engineer			Prepa	id by O.C.	Manager 5	1
CBR=Ca	itornia Bearing Katio	Consulta	nt Reps			pr	Contractor	s Beps	
JAY SHREE RAM CONCRETE INDUSTRIES (P)LTD SUNDARPUR -9 MORANG

REPORT OF PRE -DELIVERY INSPECTION (TEST REPORT)

Name of the Consignee:CTCE-KALIKA J/V STUEIP Project Biratnagar Morang

Name of the Unit: JAY SHREE RAM CONCRETE Industries (P) Ltd sundarpur-9, Morang

Iteam SIZE(MM)-400 DIA

Concrete Pipes, Type- Spigot socket Class -NP3 Standard IS:458:2003-1

Date of Testing: 20 - jan - 2016 - wed - day .

THREE -EDGE BEARING TEST : IS 458:2003

SN	QTY No	Nature of Test	Requirement	Observation
1	1	Load to	Linear Meter	Linear Meter
		Produce0.25mm	19.16	11.0 Tone.
		Crack(Table No:5)	KN 4.653 Tone.	NO CRACK observed
		Ultimate Load	Load/Pipe ton	Passed. Ionfihmed.
			28.74	2-8
			KN	IR CONTRACTOR
REMA	ARKS: C	Sonchett Pipes 28	days sige.	Authorized Signature

JAY SHREE RAM CONCRETE INDUSTRIES (P)LTD SUNDARPUR -9 MORANG

REPORT OF PRE -DELIVERY INSPECTION (TEST REPORT)

Name of the Consignee:CTCE-KALIKA J/V STUEIP Project Biratnagar Morang

Name of the Unit: JAY SHREE RAM CONCRETE Industries(P) Ltd sundarpur-9, Morang

Iteam SIZE(MM)-700 DIA

Concrete Pipes, Type- Spigot socket Class -NP3 Standard IS:458:2003-1

Date of Testing: 20 - jan - 2016 - wed-deey

2 10518

THREE -EDGE BEARING TEST : IS 458:2003

SN	QTY No	Nature of Test	Requirement	Observation
1	1	Load to	Linear Meter	Linear Meter
		Produce0.25mm	33.53	10.00 Tone. NO CHack
		Crack(Table No:5)	KN 8.040 Ton	observed.
		Ultimate Load	Load/Pipe ton	passed
			50.30	confirmed.
			KN	THE REAL STREET
REMA	RKS: 2	on sete pipes 2	sdays age -	ATTIC STREET
A CALL	*			Authorized Signature

JAY SHREE RAM CONCRETE INDUSTRIES (P)LTD SUNDARPUR -9 MORANG

REPORT OF PRE -DELIVERY INSPECTION (TEST REPORT)

Name of the Consignee:CTCE-KALIKA J/V STUEIP Project Biratnagar Morang

Name of the Unit: JAY SHREE RAM CONCRETE Industries(P) Ltd sundarpur-9, Morang

Iteam SIZE(MM)-900 DIA

Concrete Pipes, Type- Spigot socket Class -NP3 Standard IS:458:2003-1

Date of Testing: Jan - 20 - 2016 - weel - day.

THREE -EDGE BEARING TEST : IS 458:2003

SN	QTY No	Nature of Test	Requirement	Observation					
1	1	Load to	Linear Meter	Linear Meter					
		Produce0.25mm	43.11 /	10.4 Tone					
		Crack(Table No:5)	KN 10.338						
		Ultimate Load	Load/Pipe ton	Cheark observeted					
			64.67						
			KN	A tange so					
REMARKS: Lonchele Dipos 28 days Age . make For Local market. Not for STIUEIP Project Authorized Signature									
All The									

SECONDARY TOWNS INTEGRATED URAS IN ENVIRONMENTAL IMPROVEMENT PROJECT Biratnager Sub-Metropolitant City SUMMARY OF CUBE COMPRESSIVE STRENGTH TEST M20/20 SLAB CASTING WORK MIX

FOR THE MONTH OF JANUARY 2016

- 1	Lab Ref Date of Deatai		Deatails of Mix	Deatails of Mix Location			UME		Ma	terials	Cube Crushing ,N/mm2		Remarks		
S.N.	No.	Casting		Structure	Water	Cement	Sand	Aggregate	Cement Brand	Aggregate/Sand	7 days	28-Days			
1	112	2/1/2016	M20 Work mix	SLAB YARD	0.50	1	2	3.5	SHIVAM	Om shree C/plant	16.7	21.8			
2	113	3/1/2016	M20 Work mix	SLAB YARD	0.50	1	2	3.5	SHIVAM	Om shree C/plant	17.4	22.0	1.1.0		
2	114	6/1/2016	M20 Work mix	SLAB YARD	0.50	1	2	3.5	SHIVAM	Om shree C/plant	16.4		Remain		
4	115	8/1/2016	M20 Work mix	SLAB YARD	0.50	1	2	3.5	SHIVAM	Om shree C/plant	17.5				
5	116	12/1/2016	M20 Work mix	SLAB YARD	0.50	1	2	3.5	SHIVAM	Om shree C/plant	17.4				
6	117	18/01/2016	M20 Work mix	SLAB YARD	0.50	1	2	3.5	SHIVAM	Om shree C/plant	18.3				
7	119	24/01/2016	M20 Work mix	SLAB YARD	0.50	1	2	3.5	SHIVAM	Om shree C/plant	17.6				
												1000			
					1										
			1. 182.0.			1000									
	- , E	7.0													
			Contraction of the		1.5										
			The Section								11				
													1		
										Total cube crush	ed 27 nos (Remain 15 nos) r	next Month		
	Specifac	ation Limit Ta	ble For M20/20 on T	days Age Min 67% of To	otal Comp	ressive Str	ength	1		Min Required 1	3.4	20			
SME	C-Brisb	ane-AQUA-B	DA	~	СТС	E-KALI	KA JA	v				5 4 2			
Sint				(0)											
App	roved by	y Constructio	on Supervision En	gineer/CSE	Subr	mitted b	y Pro	oject Man	ager	1	ाकी का	and in the second			
Test checked by Junior Engineer					Test	Test conducted by Q.C Manager									
Con	sultants	Reps			Contractors Reps										

			FIRS CONTRACT Y TRACT	PRE BASIS CON								
	SECON	DARY TOWN	S INTEGRATED URA	BAN ENVIRON	IENTAL	IMPROVEMENT	PROJECT					
	Biratnagar Sub-Metropolitant City											
	SUMMARY OF FIELD DENSITY TES (IS:2720:-PART-28) FOR THE MONTH OF JANUARY 216											
	Description : Field Density Tests on R2 ch:1+920 to 1+500 LHS/RHS											
		The second	SUB I	BASE LAYE	R							
S.N.	L/Ref. No. Date Location/ Area MDD Gm/CC Degree of Compaction, %						Remarks					
1	FD-07	31/01/2016	1+880 RHS	2.14	95.30	8.00	Passed					
2	FD-07	31/01/2016	1+880 RHS	2.16	96.10	8.10	Passed					
3	FD-07	31/01/2016	1+880 LHS	2.14	95.30	8.00	Passed					
4	FD-07	31/01/2016	1+735 LHS	2.23	99.00	8.00	Passed					
5	FD-07	31/01/2016	1+700 LHS	2.19	97.50	8.40	Passed					
6	FD-07	31/01/2016	1+670 RHS	2.18	96.80	7.30	Passed					
7	FD-07	31/01/2016	1+610 LHS	2.14	95.10	2.50	Passed					
8	FD-07	31/01/2016	1+570 LHS	1.62	72.00	3.70	Failed					
9	FD-07	31/01/2016	1+570 RHS Re/Test	2.23	99.20	6.90	R/T Passed					
10	FD-07	31/01/2016	1+530 LHS	2.24	99.60	6.40	Passed					
11	FD-07	31/01/2016	1+500 LHS	2.11	93.60	2.80	Failed					
12	FD-07	31/01/2016	1+500 LHS Re/Test	2.24	99.00	2.24	Passed					
	Sp	ecification R	equirement	2.250	>95	OMC <8.40						

SMEC-Brisbane-AQUA-CEMAT-BDA

Approved by C.S.E

Test Checked by Junior Engineer

Consultant Reps

CTCE-KALIKA J/V

Submitted by Project Manager

Test Conducted by Q.C Manager

Contractors Reps

SECONDARY TOWNS INTEGRATED URABAN ENVIRONMENTAL IMPROVEMENT PROJECT Biratnagar Sub-Metropolitant City SUMMARY OF FIELD DENSITY TES (IS:2720:-PART-28)

FOR THE MONTH OF JANUARY 216

Description : Field Density Tests on R2 ch:1+120 to1+700 LHS/RHS SUB GRADE LAYER

5.N.	L/Ref. No.	Date	Location/ Area	MDD Gm/CC	Degree	Remarks	
1	ED-05	10/1/2016	1+120	2.16	98.70	6.00	Passed
2	ED-05	10/1/2016	1+170	2.09	95.70	7.00	Passed
2	FD-05	10/1/2016	1+220	2.12	96.80 6.00		Passed
4	ED-05	10/1/2016	1+270	2.13	97.40	6.00	Passed
5	ED-05	10/1/2016	1+320	2.18	99.40	6.00	Passed
6	ED-05	11/1/2016	1+370	2.12	96.60	7.00	Passed
7	ED-05	11/1/2016	1+420	2.12	96.80	6.00	Passed
9	FD-05	11/1/2016	1+470	2.12	97.00	6.25	Passed
0	FD 05	11/1/216	1+520	2.12	96.70	7.00	Passed
5	FD-05	11/1/216	1+570	2.13	97.10	97.10 5.90	
10	FD-05	11/1/2016	1+650	2.18	99.70	5.20	Passed
12	FD-05	11/1/2016	1+700	2.12	96.60 6.82		Passed
Specification Requirement			2.190	>95	OMC <7.5%		

SMEC-Brisbane-AQUA-CEMAT-BDA

Approved by C.S.E

Test Checked by Junior Engineer

Consultant Reps

CTCE-KALIKA J/V

Submitted by Project Manager

Test Conducted by Q.C Manager

11

Contractors Reps

:	SECONI	DARY TOWNS	S INTEGRATED UR Biratnagar S	BAN ENVIRONI	MENTAL ant City		PROJECT			
		SUI	MMARY OF FIE	A DEMANY	IES (I	5:2/20:-PAR	1-28)			
			FOR THE MOI	NIN-OFJAN	UARY					
	Desc	ription : F	sup	SIS ON KZ CH	:1+120 D	to 1+400 LH	5/KH3			
S.N.	L/Ref. No.	Date	Location/ Area	MDD Gm/CC	Degree	of Compaction, %	Remarks			
1	FD-06	18/01/2016	1+130	2.21	98.20	8.00	Passed			
2	FD-06	18/01/2016	1+150	2.23	99.30	7.20	Passed			
3	FD-06	18/01/2016	1+180	2.22	98.40	8.00	Passed			
4	FD-06	18/01/2016	1+210	2.24	99.60	6.90	Passed			
5	FD-06	18/01/2016	1+260	2.24	99.60	7.30	Passed			
6	FD-06	18/01/2016	1+370	2.25	99.90	8.10	Passed			
7	FD-06	18/01/2016	1+380	2.18	96.90	8.00	Passed			
8	FD-06	18/01/2016	1+400	2.21	98.20	7.30	Passed			
			mbern	a coutes						
	E.			-h-20						
	N WIDO		See.	The sales						
	Sp	ecification R	equirement	2.250	>95	OMC <8.40				
•		and the second second second	100.000 1 00.000	7.19	60	6				
		A DEPART								
			Manager P. Fred							
SMF	-C-Bris	bane-AOUA	-CEMAT-BDA	CTCE-KALIKA J/V						
App	roved k	by C.S.E	la.	Submitted by Project Manager						
Test	Check	ed by Junio	r Engineer	Test Conducted by Q.C Manager						
Con	sultant	Reps		Contractors Reps						

SECONDARY TOWNS INTEGRATED AND AN INVIRONENTAL IMPROVEMENT PROJECT

GRAVEL MATERIAL/SUB BASE (Process Control)

Biratnagar ab-Detropolitant City MONTHLY Test Result Summary Show For The Month of

JANUARY 2016

STIUEIP

UIIVEII

According to Part 2. Section 6A-Technical Specifacations&DOR Specifacation Section 1201(3)C Physical Requirement

		Location/ Chainage/Station	Grading sieve size (mm)							Lab.	Soaked	Lab.	100 C	
Ref.	Date Tested		(% passing by weight)								OMC	CBR	MDD	Remarks
NO.			63	37.5	20	10	5	2.360	1.18	0.075	(%)	(%)	(g/cc)	- 19-1
MR18	3/1/2016	T2 Line Jatuwa	100	94.00	68.82	47.97	35.54	30.53	22.69	4.61		<i>6</i> 6		1 + 1 + 1 AM
MR19	3/1/2016	OM SHREE RUSHER PLANT LETANG	100	94.40	72.73	57.01	42.05	37.96	29.43	4.38		and the second s		
MR20	3/1/2016	OM SHREE RUSHER PLANT LETANG	100	94.84	75.20	59.51	40.85	35.37	29.84	4.02	4			1 - 1 - 1 - 1 - 1 - 1 - 1 - 1 - 1 - 1 -
MR21	3/1/2016	OM SHREE RUSHER PLANT LETANG	100	94.64	73.52	58.10	39.87	34.22	29.82	4.23	<u>8.40</u>	46.00	2.25	Latest MDD &OMC,C.B.R Test
MR22	3/1/2016	T3 Line -R27 Line	100	92.65	67.71	57.57	48.28	37.84	24.66	6.29		-		
MR23	3/1/216	R3-T3 Line	100	92.50	68.13	58,50	48.53	38.11	24.27	6.77		h.,		4
MR24	18/01/216	R2 Ch:1+120 to 1+400 LHS/RHS	100	91.60	64.13	54.31	45.31	37.45	23.17	6.02				
MR25	18/01/216	R2 Ch:1+120 to 1+400 LHS/RHS	100	90.89	64.35	54.22	44.24	36.65	22.39	6.54	1.5			
MR26	18/01/216	R2 Ch:1+120 to 1+400 LHS/RHS Pit Holes	100	89.99	64.94	55.74	47.18	36.60	22.25	5.74				Field Density Test (FDT)
MR27	31/01/2016	R2 Ch 1+400 to 1+920 LHS/RHS Pit Holes	100	89.94	66.49	56.77	47.90	36.72	22.29	5.78	15			Field Density Test (FDT)
MR28	31/01/2016	R2 Ch 1+400 to 1+920 LHS/RHS Pit Holes	100	89.66	65.89	56.36	48.82	37.58	23.16	6.41		6.0		Field Density Test (FDT)
MR29	31/01/2016	R2 ch 1+400 to 1+920 LHS/RHS	100	91.26	66.50	57.16	48.73	37.94	22.49	6.23				From Laying Works
Required Specifacation		100	65-95	50-85	40-75	30-60	20-45	15-37	4-15		<u>≥</u> 30			

NOTE:

SMEC-Brisbane-AQUA-CEMAT-BDA

Approved by C.S.E



Test Checked by Junior Engineer

Consultant Reps

CTCE-KALIKA J/V

Submit by Project Manager

Test Conducted by Q.C Manager

Consultant Reps