

Secondary Towns Integrated Landfill Environmental Improvement Project Biratnagar Sub-Metropolitan City TEST RESULT SUMMARY SHEET for the Month of APRIL 2015 COMPRESSIVE STRENGTH OF BRICKS (Process Control Test)							STUEIP
Ref. STUEIP LAB	Date of Testing	Location	Change	BRAND NAME 1 st class brick	Water Absorption	Compressive Strength N/mm ²	SCALE OF Sample From
MRI61	2/4/2015	Sewerage line	National Trading way	AMBERY		11.22	1500 Nos 5 Nos
MRI62	4/4/2015	RANI	L4I.5	SIRRE		13.95	1500 Nos 5 Nos
MRI63	4/4/2015	RANI	L4I.5	SIRRE		14.08	1500 Nos 5 Nos
MRI64	4/4/2015	RANI	L4I.5	STAR		13.04	1500 Nos 5 Nos
MRI65	4/4/2015	RANI	L4I.5	STAR		14.04	1500 Nos 5 Nos
MRI66	4/4/2015	RANI	L4I.5	STAR		16.55	1500 Nos 5 Nos
MRI67	4/4/2015	RANI	L4I.5	STAR		14.58	1500 Nos 5 Nos
MRI68	4/4/2015	RANI	L4I.5 0+670	AMBERY	7.86	12.33	1500 Nos 5 Nos
MRI69	5/4/2015	RANI	L4I.5 0+670	T&B	9.64	13.47	1500 Nos 5 Nos
MRI70	5/4/2015	SEWORAGE LINE	T3 0+70	SIRRE		13.31	1500 Nos 5 Nos
Specification SMEC-Britbanc-AQUA-BDA-CEMAT Approved by Construction Supervision Engineer Test Checked by Junior Engineer <i>Consultant Reps</i>				IS1077, IS2180 or NSI/2035 10% < > 10N/54mm ² ±5%			
CTCE-KALIKA JV Submitted by Project Manager Test conducted by Q.C Manager Contractor Reps							

SECONDARY TOWNS INTEGRATED URBAN ENVIRONMENTAL IMPROVEMENT PROJECT							
Biratnagar Sub-Metropolitan City							
SUMMARY OF FIELD DENSITY TEST							
Description : Field Density Tests on R15 JANANI MARG SUB-GRADE							
S.N.	I/Ref. No.	Date	Location/ Area	MDD Gm/CC	Degree of Compaction, %	Remarks	
1	FD-01	3/4/2015	0+00	1.89	95.89		
2	FD-01	3/4/2015	0+050	1.92	97.31		
3	FD-01	3/4/2015	0+110	1.9	93.39		
Specification Requirement				1.968	>95	>95	
Note:							
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 URBAN ENVIRONMENTAL IMPROVEMENT PROJECT
Biratnagar Sub-Metropolitan City
SUMMARY OF CUBE COMPRESSIVE STRENGTH TEST M20/20 SLAB CASTING WORK MIX
FOR THE MONTH OF APRIL 2015

S.N.	Lab Ref No.	Date of Casting	Details of Mix	Location Structure	Ratio by VOLUME			Cement Brand	Materials Aggregate/Sand	Cube Crushing Min/Max		Remarks	
					Water	Cement	Sand			7 days	28-Days		
1	MR67	4/3/2015	M20 Work mix	SLAB YARD	0.50	1	2	3.5	KOSHI	Om shree Cipiant	16.20	21.50	
2	MR68	6/3/2015	M20 Work mix	SLAB YARD	0.50	1	2	3.5	KOSHI	Om shree Cipiant	15.00	21.20	
3	MR69	8/3/2015	M20 Work mix	SLAB YARD	0.50	1	2	3.5	KOSHI	Om shree Cipiant	17.50	21.90	
4	MR70	10/3/2015	M20 Work mix	SLAB YARD	0.50	1	2	3.5	KOSHI	Om shree Cipiant	15.30	21.30	
5	MR71	12/3/2015	M20 Work mix	SLAB YARD	0.50	1	2	3.5	KOSHI	Om shree Cipiant	16.10	22.40	
6	MR72	15/3/2015	M20 Work mix	SLAB YARD	0.50	1	2	3.5	KOSHI	Om shree Cipiant	16.40	24.30	
7	MR73	16/3/2015	M20 Work mix	SLAB YARD	0.50	1	2	3.5	KOSHI	Om shree Cipiant	17.80	21.50	
8	MR74	18/4/2015	M20 Work mix	SLAB YARD	0.50	1	2	3.5	KOSHI	Om shree Cipiant	16.70	22.80	
9	MR75	20/4/2015	M20 Work mix	SLAB YARD	0.50	1	2	3.5	KOSHI	Om shree Cipiant	18.50	21.50	
10	MR76	22/3/2015	M20 Work mix	SLAB YARD	0.50	1	2	3.5	KOSHI	Om shree Cipiant	16.60	21.60	
11	MR77	23/3/2015	M20 Work mix	SLAB YARD	0.50	1	2	3.5	KOSHI	Om shree Cipiant	17.40	21.30	
12	MR78	3/4/2015	M20 Work mix	SLAB YARD	0.50	1	2	3.5	SHIVAM	Om shree Cipiant	17.20	Remain	
13	MR79	4/4/2015	M20 Work mix	SLAB YARD	0.50	1	2	3.5	SHIVAM	Om shree Cipiant	15.90		
14	MR80	5/4/2015	M20 Work mix	SLAB YARD	0.50	1	2	3.5	SHIVAM	Om shree Cipiant	16.10		
15	MR81	17/4/2015	M20 Work mix	SLAB YARD	0.50	1	2	3.5	SHIVAM	Om shree Cipiant	17.20		
16	MR82	18/4/2015	M20 Work mix	SLAB YARD	0.50	1	2	3.5	SHIVAM	Om shree Cipiant	16.60		
17	MR83	19/4/2015	M20 Work mix	SLAB YARD	0.50	1	2	3.5	SHIVAM	Om shree Cipiant	17.05		
18	MR84	22/4/2015	M20 Work mix	SLAB YARD	0.50	1	-2	3.5	SHIVAM	Om shree Cipiant	17.50		
19	MR85	23/4/2015	M20 Work mix	SLAB YARD	0.50	1	2	3.5	SHIVAM	Om shree Cipiant	17.1		
Total cube crushed 80 Nos on APRIL													

Specification Limit Table For M20/20 on 7 days Age Min 67% of Total Compressive Strength

Min Required 13.4 20

SMEC-Brisbane-AQUA-BDA
 Approved by Construction Supervision Engineer/CSE
 Test checked by Junior Engineer
 Consultants Reqs

CTCE-KALUKA JIV
 Submitted by Project Manager
 Test conducted by Q.C Manager
 Contractors Reqs



SECONDARY TOWN INTEGRATED URBAN ENVIRONMENTAL IMPROVEMENT PROJECT

Mortar

Bilal Nagar Sub-Metropolitan City

SUMMER OF THE MOFAR WORK MIX CUBE

FOR THE MONTH OF APRIL 2015

[illegible]

According to is 2250-1981

MIN 45m	Max 600m	Required strength on 28 days not less than 5 or 7.5 N/mm ²
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SMEC-Brisbane-AQUA-8D/CENAT

Approved by Construction ⁵⁴pervlsion Engineer/CSE

Test Checked by Junior Engⁿ Year

Consultants Reps

CTCE-KALIKA JV

Submitted by Project Manager

Test conducted by Q.C. Manager

Contractors Rep



SECONDARY TOWN INTEGRATED URBAN ENVIRONMENTAL IMPROVEMENT PROJECT

Mor-Jar Biratnagar Sub-Metropolitan City

SUMMARY OF THE MOTAR WORK MIX CUBE FOR THE MONTH OF APRIL 2015

S.N.	Cube No.	Name of Cement	Location/Structure	Details of MIX	Casting Date	Consistency Norm. Const.	Intake (min)	Final (min)	7 day's cube crushing Date	Str. Min/m ²	28 day's cube crushing Date	Str. Min/m ²	Remarks
21	166	Shyam	Sewerage line Yadav Chowk	1:4 by volume	22/3/2015	30.00	135	235	28/3/2015	7.21	18/4/2015	10.34	
22	167	Shyam	Sewerage line Yadav Chowk	1:4 by volume	22/3/2015	30.00	135	235	30/3/2015	7.21	26/4/2015	9.93	
23	168	Shyam	R2 Road 3+650	1:4 by volume	23/3/2015	30.00	135	235	30/3/2015	7.35	26/4/2015	9.66	
24	169	Shyam	YADEV CHOWK	1:4 by volume	26/3/2015	30.00	135	235	1/4/2015	8.84	22/4/2015	9.66	
25	160	Shyam	Sewerage line Pradya Chowk	1:4 by volume	26/3/2015	30.00	135	235	1/4/2015	8.44	22/4/2015	9.66	
26	161	Shyam	Sewerage National Trading T2	1:4 by volume	26/3/2015	30.00	135	235	1/4/2015	7.89	22/4/2015	8.98	
27	162	Shyam	R2 Road	1:4 by volume	26/3/2015	30.00	135	235	1/4/2015	8.84	22/4/2015	8.52	
28	163	Shyam	Sewerage Line	1:4 by volume	29/3/2015	30.00	135	235	6/4/2015	8.71	23/4/2015	10.20	
29	164	Shyam	Sewerage Line	1:4 by volume	29/3/2015	30.00	135	235	6/4/2015	8.80	23/4/2015	8.84	
30	165	Shyam	Sewerage line Yadav Chowk	1:4 by volume	31/3/2015	30.00	135	235	7/4/2015	8.26	28/4/2015	9.80	
31	166	Shyam	RAIN	1:4 by volume	31/3/2015	30.00	135	235	7/4/2015	8.80	28/4/2015	10.48	
32	167	Shyam	Sewerage National Trading	1:4 by volume	31/3/2015	30.00	135	235	7/4/2015	8.26	28/4/2015	7.62	
33	168	Shyam	Sewerage National Trading	1:4 by volume	3/4/2015	30.00	135	235	10/4/2015	7.07	31/4/2015	8.12	
34	169	Shyam	Sewerage National Trading	1:4 by volume	4/4/2015	30.00	135	235	11/4/2015	7.62	1/5/2015	Remain	
35	170	Shyam	RAIN LALS	1:4 by volume	4/4/2015	30.00	135	235	11/4/2015	6.39	1/5/2015		
36	171	Shyam	Sewerage National Trading	1:4 by volume	4/4/2015	30.00	135	235	11/4/2015	6.26	1/5/2015		
37	172	Shyam	Sewerage line Yadav Chowk	1:4 by volume	4/4/2015	30.00	135	235	11/4/2015	7.07	1/5/2015		
38	173	Shyam	Sewerage line Pradya Chowk	1:4 by volume	4/4/2015	30.00	135	235	11/4/2015	7.48	1/5/2015		
39	174	Shyam	Sewerage line Pradya Chowk	1:4 by volume	11/4/2015	30.00	135	235	18/4/2015	7.62	8/5/2015		
40	175	Shyam	Sewerage line Yadav Chowk	1:4 by volume	18/4/2015	30.00	135	235	22/4/2015	6.80	13/5/2015		

According to IS 2250-1981

Min 40mm Max 800mm Required strength on 28 days not less than 8 or 7.5 N/mm²

Total cube crushed

SMEC-Brisbane AQUA-BDA-CEMAT
Approved by Construction Supervision Engineer/CSE
Test Checked by Junior Engineer
Consultants Reps

CTCE-KALUKA JIV
Submitted by Project Manager
Test conducted by Q.C Manager
Contractor Reps



SECONDARY TOWN INTEGRATED URBAN ENVIRONMENTAL IMPROVEMENT PROJECT

Mortar
Biratnagar Sub-Metropolitan City

FOR THE MONTH OF APRIL 2015

S.N.	Cube No.	Name of Cement	Location/Structure	Details of Mix	Casting Date	Consistency & Setting Time		7 day's cube crushing		28 day's cube crushing		Remarks	
						Norm. Const.	Initial/Final (min)	Date	Str. Min/Max	Date	Str. Min/Max		
1	136	Shivam	Oil Mgeen	1:4 by volume	6/3/2015	30.00	135	235	12/3/2015	6.39	24/4/2015	6.80	
2	137	Shivam	Sewerage Line	1:4 by volume	6/3/2015	30.00	135	235	12/3/2015	5.71	24/4/2015	6.94	
3	138	Shivam	R2 Road 3+720	1:4 by volume	8/3/2015	30.00	135	235	16/3/2015	6.82	6/4/2015	9.52	
4	139	Shivam	R2 Road 3+730	1:4 by volume	10/3/2015	30.00	135	235	17/3/2015	6.26	7/4/2015	9.39	
5	140	Shivam	R2 Road 3+740	1:4 by volume	11/3/2015	30.00	135	235	18/3/2015	5.71	8/4/2015	6.94	
6	141	Shivam	Oil Mgeen	1:4 by volume	12/3/2015	30.00	135	235	19/3/2015	7.76	8/4/2015	9.52	
7	142	Shivam	Sewerage line Prathiva Chowek	1:4 by volume	13/3/2015	30.00	135	235	20/3/2015	6.26	10/4/2015	8.30	
8	143	Shivam	Sewerage line Prathiva Chowek	1:4 by volume	14/3/2015	30.00	135	235	21/3/2015	7.07	11/4/2015	8.44	
9	144	Shivam	R2 Road 3+750	1:4 by volume	14/3/2015	30.00	135	235	21/3/2015	7.21	11/4/2015	8.71	
10	145	Shivam	S1L IP 0+330	1:4 by volume	15/3/2015	30.00	135	235	22/3/2015	7.48	12/4/2015	8.03	
11	146	Shivam	R2 Road 3+750 R.H.S	1:4 by volume	16/3/2015	30.00	135	235	23/3/2015	7.76	13/4/2015	9.66	
12	147	Shivam	Oil Mgeen	1:4 by volume	16/3/2015	30.00	135	235	23/3/2015	9.53	13/4/2015	11.16	
13	148	Shivam	R2 Road 3+750 L.H.S	1:4 by volume	17/3/2015	30.00	135	235	24/3/2015	8.95	14/4/2015	9.93	
14	149	Shivam	OIL MGEEN	1:4 by volume	17/3/2015	30.00	135	235	24/3/2015	7.21	14/4/2015	9.66	
15	150	Shivam	S1L IP 0+330	1:4 by volume	18/3/2015	30.00	135	235	26/3/2015	7.52	15/4/2015	9.55	
16	151	Shivam	RAVI	1:4 by volume	18/3/2015	30.00	135	235	26/3/2015	6.53	16/4/2015	8.84	
17	152	Shivam	Sewerage line Prathiva Chowek	1:4 by volume	21/3/2015	30.00	135	235	28/3/2015	6.53	17/4/2015	8.99	
18	153	Shivam	RAVI	1:4 by volume	21/3/2015	30.00	135	235	28/3/2015	6.53	18/4/2015	9.52	
19	154	Shivam	Sewerage line Yadev Chowek	1:4 by volume	21/3/2015	30.00	135	235	28/3/2015	6.94	18/4/2015	9.06	
20	155	Shivam	Sewerage line National Trading	1:4 by volume	22/3/2015	30.00	135	235	29/3/2015	8.44	18/4/2015	12.82	
Total cube crushed													
According to IS 2250-1981													
Min 45cm Max 60cm													
Required strength on 28 days not less than 5 or 7.5 N/mm2													

According to IS 2250-1981

Min 4cm Max 60cm Required strength on 28 days not less than 5 or 7.5 N/mm²

SMEC-Brisbane-AQUA-BDA-CEMAT
Approved by Construction Supervision Engineer/CSE
Test Checked by Junior Engineer
Consultants Reps

CTCE-KALIKA JIN
Submitted by Project Manager
Test conducted by Q.C Manager
Contractors Reps



SECONDARY TOWNS INTEGRATED URBAN ENVIRONMENTAL IMPROVEMENT PROJECT

Biratnagar Sub-Metropolitan City

SUMMARY OF CUBE COMPRESSIVE STRENGTH TEST M20/20 SLAB CASTING WORK MIX FOR THE MONTH OF APRIL 2015

S.N.	Lab Ref No.	Date of Casting	Details of Mix	Location Structure	Ratio by VOLUME			Cement Brand	Aggregate/Sand	Cure Crushing Strength	Remarks	
					Water	Cement	Sand Aggregate					
1	MR67	4/3/2015	M20 Work mix	SLAB YARD	0.50	1	2	3.5	KOSHI	Om shree Cipiant	16.20	21.50
2	MR68	6/3/2015	M20 Work mix	SLAB YARD	0.50	1	2	3.5	KOSHI	Om shree Cipiant	15.00	21.20
3	MR69	8/3/2015	M20 Work mix	SLAB YARD	0.50	1	2	3.5	KOSHI	Om shree Cipiant	17.50	21.90
4	MR70	10/3/2015	M20 Work mix	SLAB YARD	0.50	1	2	3.5	KOSHI	Om shree Cipiant	15.30	21.30
5	MR71	12/3/2015	M20 Work mix	SLAB YARD	0.50	1	2	3.5	KOSHI	Om shree Cipiant	16.10	22.40
6	MR72	15/3/2015	M20 Work mix	SLAB YARD	0.50	1	2	3.5	KOSHI	Om shree Cipiant	16.40	24.30
7	MR73	16/3/2015	M20 Work mix	SLAB YARD	0.50	1	2	3.5	KOSHI	Om shree Cipiant	17.80	21.60
8	MR74	18/4/2015	M20 Work mix	SLAB YARD	0.50	1	2	3.5	KOSHI	Om shree Cipiant	16.70	22.80
9	MR75	20/4/2015	M20 Work mix	SLAB YARD	0.50	1	2	3.5	KOSHI	Om shree Cipiant	18.60	21.50
10	MR76	22/3/2015	M20 Work mix	SLAB YARD	0.50	1	2	3.5	KOSHI	Om shree Cipiant	16.80	21.60
11	MR77	23/3/2015	M20 Work mix	SLAB YARD	0.50	1	2	3.5	KOSHI	Om shree Cipiant	17.40	21.30
12	MR78	3/4/2015	M20 Work mix	SLAB YARD	0.50	1	2	3.5	SHIVAM	Om shree Cipiant	17.20	Remain
13	MR79	4/4/2015	M20 Work mix	SLAB YARD	0.50	1	2	3.5	SHIVAM	Om shree Cipiant	15.80	
14	MR80	5/4/2015	M20 Work mix	SLAB YARD	0.50	1	2	3.5	SHIVAM	Om shree Cipiant	16.10	
15	MR81	17/4/2015	M20 Work mix	SLAB YARD	0.50	1	2	3.5	SHIVAM	Om shree Cipiant	17.20	
16	MR82	18/4/2015	M20 Work mix	SLAB YARD	0.50	1	2	3.5	SHIVAM	Om shree Cipiant	16.80	
17	MR83	19/4/2015	M20 Work mix	SLAB YARD	0.50	1	2	3.5	SHIVAM	Om shree Cipiant	17.65	
18	MR84	22/4/2015	M20 Work mix	SLAB YARD	0.50	1	-2	3.5	SHIVAM	Om shree Cipiant	17.50	
19	MR85	23/4/2015	M20 Work mix	SLAB YARD	0.50	1	2	3.5	SHIVAM	Om shree Cipiant	17.1	
Total cube crushed 90 Nos on April												
Specification Limit Table For M20/20 on 7 days Age Min 67% of Total Compressive Strength										Min Required	13.4	20
SMEC-Brisbane-AQUA-BDA										CTCE-KALKA JV		
Approved by Construction Supervision Engineer/CSE										Submitted by Project Manager		
Test checked by Junior Engineer										Test conducted by Q.C Manager		
Consultants Reps										Contractors Reps		

SECONDARY TOWNS INTEGRATED URABAN ENVIRONMENTAL IMPROVEMENT PROJECT

Biratnagar Sub-Metropolitan City

SUMMARY OF CUBE COMPRESSIVE STRENGTH TEST M20/20 KERB STONE WORK MIX
FOR THE MONTH OF APRIL 2015

S.N.	Lab Ref No.	Date of Casting	Details of Mix	Location Structure	Ratio by VOLUME			Materials		CubeCrushing Jmmcz		Remarks	
					Water	Cement	Sand	Aggregate	Cement Brand	Aggregate/Sand	7 days		28-Days
1	14K	4/3/2015	M20 Work mix	KERB STONE YARD	0.50	1	2	3.5	SHIVAM	Om shree Cipant	16.00	21.20	
2	15K	6/3/2015	M20 Work mix	KERB STONE YARD	0.50	1	2	3.5	SHIVAM	Om shree Cipant	13.60	22.70	
3	16K	8/3/2015	M20 Work mix	KERB STONE YARD	0.50	1	2	3.5	SHIVAM	Om shree Cipant	18.90	22.80	
4	17K	2/4/2015	M20 Work mix	KERB STONE YARD	0.50	1	2	3.5	SHIVAM	Om shree Cipant	15.30	21.30	
5	18K	4/4/2015	M20 Work mix	KERB STONE YARD	0.50	1	2	3.5	SHIVAM	Om shree Cipant	14.20	Remain	
6	19K	17/4/2015	M20 Work mix	KERB STONE YARD	0.50	1	2	3.5	SHIVAM	Om shree Cipant	14.80		
7	20K	18/4/2015	M20 Work mix	KERB STONE YARD	0.50	1	2	3.5	SHIVAM	Om shree Cipant	17.60		
8	21K	19/4/2015	M20 Work mix	KERB STONE YARD	0.50	1	2	3.5	SHIVAM	Om shree Cipant	16.10		
9	22K	20/4/2015	M20 Work mix	KERB STONE YARD	0.50	1	2	3.5	SHIVAM	Om shree Cipant	17.20		
10	23K	23/4/2015	M20 Work mix	KERB STONE YARD	0.50	1	2	3.5	SHIVAM	Om shree Cipant	15.80		
Total cube crushed												42 nos	

Specification Limit Table For M20/20 on 7 days-Age Min 67% of Total Compressive Strength

Min Required 13.4 20

SMEC-Brisbane-AQUA-BDA

Approved by Construction Supervision Engineer/CSE

Test checked by Junior Engineer

Consultants Reps

CTCE-KALUKA JV

Submitted by Project Manager

Test conducted by Q.C. Manager

Contractors Reps

SECONDARY TOWNS INTEGRATED URBAN ENVIRONMENTAL IMPROVEMENT PROJECT

Birmingham-Birmingham Metropolitan City

SUMMARY OF CUBE COMPRESSIVE STRENGTH TEST M15/20, M20/20 & M25/20 Work Mix FOR THE MONTH OF APRIL 2015

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SECONDARY TOWNS INTEGRATED URBAN ENVIRONMENTAL IMPROVEMENT PROJECT
BIRAHANG SUB-METROPOLITAN CITY
SUMMARY OF CUBE COMPRESSIVE STRENGTH TEST M16/20, M20/208, M25/20 Work Mix
FOR THE MONTH OF APRIL 2015

S.N. Ref No.	Date of Casting	Design of Mix	Location	Ratio by Volume	Type of Material	Cube Crushing Strength	Remarks
20	4/4/2015	M20 Work mix	Structure	Water Cement Sand Aggregate	Cement Brand	7 days	28 Days
21	4/4/2015	M20 Work mix	Sewerage Line T2 National Trading	0.50 1 2 3.5	Shivam	17.18	
22	4/4/2015	M20 Work mix	RAM PCC BED	0.50 1 2 3.5	Shivam	17.56	
23	4/4/2015	M20 Work mix	Sewerage Line	0.50 1 2 3.5	Shivam	17.41	
24	4/4/2015	M20 Work mix	BEL 1A Share Wall	0.50 1 2 3.5	Shivam	16.85	
25	4/4/2015	M15 Work Mix	B3 Leaner Concrete	0.52 1 2.5 4	Shivam	12.44	
26	4/4/2015	M20 Work mix	Sewerage Line	0.50 1 2 3.5	Shivam	14.22	
27	4/4/2015	M20 Work mix	BEL 1A Share Wall	0.50 1 2 3	Shivam	14.96	
28	4/4/2015	M20 Work mix	BEL 1A Share Wall	0.50 1 2 3.5	Shivam	18.15	
29	4/4/2015	M20 Work mix	B1 Leaner Concrete	0.50 1 2 3.5	Shivam	11.78	
30	4/4/2015	M20 Work mix	BEL 1A Share Wall	0.50 1 2 3.5	Shivam	15.85	
31	4/4/2015	M20 Work mix	BEL 1A Share Wall	0.50 1 2 3.5	Shivam	16.00	
32	4/4/2015	M20 Work mix	BEL 1A Share Wall	0.50 1 2 3.5	Shivam	13.56	
33	4/4/2015	M20 Work mix	BEL 1A Share Wall	0.50 1 2 3.5	Shivam	15.11	
34	4/4/2015	M20 Work mix	BEL 1A Share Wall	0.50 1 2 3.5	Shivam	14.96	
35	4/4/2015	M20 Work mix	BEL 1A Share Wall	0.50 1 2 3.5	Shivam	15.70	
36	4/4/2015	M20 Work mix	BEL 1A Share Wall	0.50 1 2 3.5	Shivam	16.70	
37	4/4/2015	M20 Work mix	BEL 1A Share Wall	0.50 1 2 3.5	Shivam	16.85	
38	4/4/2015	M20 Work mix	BEL 1A Share Wall	0.50 1 2 3.5	Shivam	16.41	
39	4/4/2015	M20 Work mix	BEL 1A Share Wall	0.50 1 2 3.5	Shivam	16.87	
Specification Limit Table For M16/20 on 7 days Age Min 67% of Total Compressive Strength							Min Required 10.05
Specification Limit Table For M20/20 on 7 days Age Min 67% of Total Compressive Strength							Min Required 13.4
Specification Limit Table For M25/20 on 7 days Age Min 67% of Total Compressive Strength							Min Required 16.76
Specification Limit Table For M20/208 on 7 days Age Min 67% of Total Compressive Strength							Min Required 26

SMEC-Brisbane-AQUA-BDA
 Approved by Construction Supervision Engineer/CSE
 Test checked by Junior Engineer
 Consultants Reps

CTCE-KALIKA JV
 Submitted by Project Manager
 Test conducted by Q & Manager
 Contractors Reps



SECONDARY TOWNS INTEGRATED URBAN & ENVIRONMENTAL IMPROVEMENT PROJECT
Bhadrachalam Sub-urban Pollutant City
SUMMARY OF CUBE COMPRESSIVE STRENGTH TEST M16/20, M20/208, M25/20 Work Mix
FOR THE MONTH OF APRIL 2015

S.N.	Lab Ref No.	Date of Casting	Design of Mix	Location	Ratio by VOLUME	Water	Cement	Aggregate	Type of Material	Cube Crushing, N/mm ²	Remarks
				Structure						7 days	28 Days
1	194	8/3/2016	M20 Work mix	B2 DPS Line	0.50	1	2	3.5	Shivam	14.81	23.33
2	195	10/3/2016	M20 Work mix	B3L2 Share wall	0.50	1	2	3.5	Shivam	16.41	24.30
3	196	11/3/2016	M20 Work mix	B3L2 Share wall	0.50	1	2	3.5	Shivam	16.22	23.11
4	197	12/3/2016	M20 Work mix	B2 DPS Line	0.50	1	2	3.5	Shivam	16.07	21.48
5	198	13/3/2016	M20 Work mix	B1L1 Share wall	0.50	1	2	3.5	Shivam	16.16	21.78
6	199	13/3/2016	M25 Work Mix	B3 Top RCC Slab	0.48	1	2	3	Shivam	22.07	27.26
7	200	16/3/2016	M20 Work mix	S9 L2 Share wall	0.50	1	2	3	Shivam	17.48	21.83
8	201	16/3/2016	M20 Work mix	B3 Share wall	0.50	1	2	3.5	Shivam	17.33	22.52
9	202	18/3/2016	M20 Work mix	B3 Share wall	0.50	1	2	3.5	Shivam	17.78	23.26
10	203	20/3/2016	M20 Work mix	RAWI POC BED LEVEL	0.50	1	2	3.5	Shivam	16.70	21.70
11	204	20/3/2016	M20 Work mix	B3 Share wall	0.50	1	2	3.5	Shivam	15.86	21.48
12	205	22/3/2016	M20 Work mix	S9 L2 Share wall	0.50	1	2	3.5	Shivam	20.16	21.26
13	206	24/3/2016	M15 Work Mix	B3 On bed	0.52	1	2.5	4	Shivam	12.59	18.52
14	207	25/3/2016	M20 Work mix	Sewerage Line T2 Yadev chowk	0.50	1	2	3.5	Shivam	18.7	22.81
15	208	26/3/2016	M20 Work mix	Sewerage Line T2 National Trading	0.50	1	2	3.5	Shivam	16.67	20.56
16	209	26/3/2016	M15 Work Mix	B3 Laneer Concrete	0.52	1	2.5	4	Shivam	13.19	16.44
17	210	31/3/2016	M20 Work mix	B3 Share Wall	0.50	1	2	3.5	Shivam	17.93	22.09
18	211	2/4/2016	M20 Work mix	B3 Share Wall	0.50	1	2	3.5	Shivam	18.7	21.04
19	212	3/4/2016	M20 Work mix	Sewerage Line T2 National Trading	0.50	1	2	3.5	Shivam	16.59	Remain

Specification Limit Table For M16/20 on 7 days Age Min 67% of Total Compressive Strength	Min Required	10.05	15
Specification Limit Table For M20/20 on 7 days Age Min 67% of Total Compressive Strength	Min Required	13.4	20
Specification Limit Table For M25/20 on 7 days Age Min 67% of Total Compressive Strength	Min Required	16.75	25
SMEC-Brisbane-AQUA-BDA Approved by Construction Supervision Engineer/CSE Test checked by Junior Engineer Consultants Reps	CTCE-KALIKA JV Submitted by Project Manager Test conducted by Q.C. Manager Contractors Reps		

SECONDARY TOWNS INTEGRATED URBAN ENVIRONMENTAL IMPROVEMENT PROJECT

Batangas Sub-Metropolitan City

SUMMARY OF CUBE COMPRESSIVE STRENGTH TEST M30/20 MAN HOLE CASTING WORK MIX FOR THE MONTH OF APRIL 2015

S.N.	Lab Ref No.	Date of Casting	Details of Mix	Location Structure	Ratio by MASS			Materials		Cube Crushing, (mm ²)		Remarks	
					Water	Cement	Sand	Aggregate	Cement Brand	Aggregate/Sand	7 days		28-Days
1	MR06	10/3/2015	M30 Work mix	MANHOLE YARD	0.38	1	1.4	2.3	SHVAM	Om shree Cipiant	20.40	32.00	
2	MR07	11/3/2015	M30 Work mix	MANHOLE YARD	0.38	1	1.4	2.3	SHVAM	Om shree Cipiant	23.60	32.40	
3	MR08	15/3/2015	M30 Work mix	MANHOLE YARD	0.38	1	1.4	2.3	SHVAM	Om shree Cipiant	27.10	32.00	
4	MR09	17/3/2015	M30 Work mix	MANHOLE YARD	0.38	1	1.4	2.3	SHVAM	Om shree Cipiant	24.10	32.40	
5	MR10	25/3/2015	M30 Work mix	MANHOLE YARD	0.38	1	1.4	2.3	SHVAM	Om shree Cipiant	19.90	33.90	
6	MR11	26/3/2015	M30 Work mix	MANHOLE YARD	0.38	1	1.4	2.3	SHVAM	Om shree Cipiant	22.80	31.90	
7	MR12	30/3/2015	M30 Work mix	MANHOLE YARD	0.38	1	1.4	2.3	SHVAM	Om shree Cipiant	23.40	32.70	
8	MR13	31/3/2015	M30 Work mix	MANHOLE YARD	0.38	1	1.4	2.3	SHVAM	Om shree Cipiant	25.10	33.30	
9	MR14	4/4/2015	M30 Work mix	MANHOLE YARD	0.38	1	1.4	2.3	SHVAM	Om shree Cipiant	21.60	Remain	Next month
10	MR15	5/4/2015	M30 Work mix	MANHOLE YARD	0.38	1	1.4	2.3	SHVAM	Om shree Cipiant	21.90		
11	MR16	7/4/2015	M30 Work mix	MANHOLE YARD	0.38	1	1.4	2.3	SHVAM	Om shree Cipiant	22.20		
12	MR17	10/4/2015	M30 Work mix	MANHOLE YARD	0.38	1	1.4	2.3	SHVAM	Om shree Cipiant	21.50		
13	MR18	12/4/2015	M30 Work mix	MANHOLE YARD	0.38	1	1.4	2.3	SHVAM	Om shree Cipiant	22.20		
14	MR19	13/4/2015	M30 Work mix	MANHOLE YARD	0.38	1	1.4	2.3	SHVAM	Om shree Cipiant	24.10		
15	MR20	15/4/2015	M30 Work mix	MANHOLE YARD	0.38	1	1.4	2.3	SHVAM	Om shree Cipiant	22.20		
16	MR21	17/4/2015	M30 Work mix	MANHOLE YARD	0.38	1	1.4	2.3	SHVAM	Om shree Cipiant	22.90		

Specification Limit Table For M30/20 on 7 days Age Min 67% of Total Compressive Strength

Min Required 20.1 30

SITEC-Brisbane-AQUA-BDA

Approved by Construction Supervision Engineer/CSE

Test checked by Junior Engineer

Consultants Repts

CTCE-KALUKA JV

Submitted by Project Manager

Test conducted by O.C Manager

Contractors Repts



SECONDARY TOWNS INTEGRATED URBAN ENVIRONMENTAL IMPROVEMENT PROJECT													
Biratnagar Sub-Metropolitan City													
Summary of Fine Concrete Aggregates Sand FOR THE MONTH OF APRIL 2015													
S.N.	DESCRIPTION / LOCATION	LAB REF. NO.	Grain Size Distribution							Sp	Water Absorption %	Unit Weight gm/cc	REMARKS
			10	4.75	2.36	1.18	0.6	0.3	0.15				
11	B2L1 RCC Concrete Work	MR46	100.0	91.54	79.62	67.01	51.81	26.94	6.22				source
12	B2L1 RCC Concrete Work	MR47	100.0	90.91	79.72	60.7	44.76	17.06	3.36				om shree
13	S11 RCC Concrete Work	MR48	100.0	91.43	79.71	60.86	45.14	19.43	5.43				
14	S11 RCC Concrete Work	MR49	100.0	90.95	78.56	58.67	42.08	17.95	3.02				
15	S14 RCC Concrete Work	MR50	100.00	91.56	79.20	59.56	41.34	15.79	2.82				
16	SEWERAGE LINE Work	MR51	100.00	92.35	81.83	62.16	42.08	16.94	3.96				
17	SEWERAGE LINE Work	MR52	100.00	92.33	81.50	61.50	40.90	13.98	2.86				
18	SEWERAGE LINE Work	MR53	100.00	92.21	80.87	62.16	41.80	14.62	3.83				
19	Contractor stock yard stock pile	MR54	100.00	93.09	79.92	60.77	39.63	12.90	3.06				
20	Contractor stock yard stock pile	MR55	100.00	92.88	80.00	61.00	39.50	13.75	3.88				crusher
21	Contractor stock yard stock pile	MR56	100.00	92.32	79.16	59.14	36.79	11.99	2.21				plant
Specification Limit is 383-1970 Zone -2			100-100	90-100	75-100	55-90	35-59	8-30	0-10				
SMEC-BRISBANE-AQUA-CEMAT-BDA													
Approved by C.S.E. 													
Test Checked by Junior Engineer													
Consultant Reps													
CTCE-KALIKA JV													
Submitted by Project Manager 													
Test Conducted by Q.C Manager													
Contractor Reps													

SECONDARY TOWNS INTEGRATED URABAN ENVIRONMENTAL IMPROVEMENT PROJECT													
Biratnagar Sub-Metropolitan City													
Summary of Fine Concrete Aggregates Sand FOR THE MONTH OF APRIL. 2015													
S.N.	DESCRIPTION / LOCATION	LAB REF. NO.	Grain Size Distribution							Sp Gr	Water Absorption %	Unit Weight gm/cc	REMARKS
			10	4.75	2.36	1.18	0.6	0.3	0.15				
1	B2L1 RCC Concrete Workk	MR36	100.0	94.28	76.13	57.26	34.57	11.52	2.99				source
2	B2L1 RCC Concrete Workk	MR37	100.0	94.11	75.65	57.54	38.63	12.58	3.93				om shree
3	B2L1 RCC Concrete Workk	MR38	100.0	93.94	75.61	57.61	38.84	12.98	4.24				
4	B2L1 RCC Concrete Workk	MR39	100.0	94.9	76.02	57.82	39.03	13.35	4.34				
5	B1L1 RCC Concrete Workk	MR40	100.0	92.29	80.57	61.71	45.14	16.29	4.57				
6	B1L1 RCC Concrete Workk	MR41	100.0	91.12	79.44	61.42	45.18	17.01	4.06				
7	B1L1 RCC Concrete Workk	MR42	100.0	90.44	78.97	63.48	49.33	26	6.12				
8	B1L1 RCC Concrete Workk	MR43	100.0	90.91	78.67	64.86	51.4	28.15	8.22				
9	B2L1 RCC Concrete Workk	MR44	100.0	90.29	78.86	60.86	44.57	18.00	4.29				crusher
10	B2L1 RCC Concrete Workk	MR45	100.0	90.93	78.14	62.33	45.35	22.56	7.91				plant
Specification Limit is 383-1970 Zone -2			100-100	90-100	75-100	55-90	35-59	8-50	0-10				
SMEC-BRISBANE-AQUA-CEMAT-BDA Approved by C.S.E <i>[Signature]</i> Test Checked by Junior Engineer Consultant Reps CTCE-KALIKA J/V Submitted by Project Manager <i>[Signature]</i> Test Conducted by Q.C Manager Contractor Reps <i>[Signature]</i>													

SECONDARY TOWNS INTEGRATED URBAN ENVIRONMENTAL IMPROVEMENT PROJECT Biratnagar Sub-Metropolitan City For The Month Of APRIL 2015												
Summary of Concrete Crushed Aggregate 20mm down												
S.N. DESCRIPTION / SOURCE	TYPE OF MAT.	LAB REF. NO.	Grain Size Distribution				FI %	LAA %	ACV	Unit Wt %	Sp. Gr.	REMARKS
			25	20	10	4.75						
1 B3L1 RCC Concrete Work	Cr Aggregates	MR36	100	95.13	32.30	3.27	13.90					Aggregates
2 B3L1 RCC Concrete Work	Cr Aggregates	MR37	100	95.54	30.14	3.06	13.78	33.96	18.1			Source
3 B3L1 RCC Concrete Work	Cr Aggregates	MR38	100	95.34	31.28	3.28	13.93					Om shree
4 B3L1 RCC Concrete Work	Cr Aggregates	MR39	100	95.44	30.70	3.16	13.61					
5 B1L1 RCC Concrete Work	Cr Aggregates	MR40	100	97.24	35.91	2.23	13.75	34.16	19.2			Crusher
6 B1L1 RCC Concrete Work	Cr Aggregates	MR41	100	97.66	28.70	4.84	14.08	34.42	19.6			Plant
7 B1L1 RCC Concrete Work	Cr Aggregates	MR42	100	97.13	26.14	3.68	12.66					
8 B1L1 RCC Concrete Work	Cr Aggregates	MR43	100	96.82	26.18	3.58	13.99					
9 B2L1 RCC Concrete Work	Cr Aggregates	MR44	100	96.39	31.08	4.82	13.42	34.12	19.1			
10 B2L1 RCC Concrete Work	Cr Aggregates	MR45	100.0	97.43	28.33	3.38	13.61	33.80	18.9			
Section 900:IS 383-1970 Required			Graded nominal 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 Consultant Reps	CTCE-KALIKA JN Submitted by Project Manager Test conducted by O.C Manager Contractor Reps
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SECONDARY TOWNS INTEGRATED URABAN ENVIRONMENTAL IMPROVEMENT PROJECT

Biratnagar Sub-Metropolitan City

For The Month Of APRIL 2015

Summary of Concrete Crushed Aggregate 20mm down

S.N. DESCRIPTION / SOURCE	TYPE OF MAT.	LAB REF. NO.	Grain Size Distribution					FI %	LAA %	ACV	Unit Wt %	Sp. Gr.	REMARKS
			25	20	10	4.75							
11 B2L1 RCC Concrete Work	Cr Aggregates	MR46	100	97.01	28.70	3.01	13.48						Aggregates
12 B2L1 RCC Concrete Work	Cr Aggregates	MR47	100	97.02	26.91	2.86	13.21						Source
13 S11 RCC Concrete Work	Cr Aggregates	MR48	100	96.93	26.74	3.21	13.14	33.28	18.7				Om three
14 S11 RCC Concrete Work	Cr Aggregates	MR49	100	96.89	26.12	3.09	12.57	33.32	19.0				
15 S11 RCC Concrete Work	Cr Aggregates	MR50	100	96.2	25.3	3.16	11.81						Crusher
16 Sewerage line Work	Cr Aggregates	MR51	100	96.0	22.75	3.33	13.15	33.40					Plant
17 Sewerage line Work	Cr Aggregates	MR52	100	95.81	26.90	3.69	14.44	34.04					
18 Sewerage line Work	Cr Aggregates	MR53	100	95.75	27.93	4.25	13.03						
19 Contract yard Stock Pile	Cr Aggregates	MR54	100	97.99	31.77	4.12	12.64	32.76	18.5				
20 Contract yard Stock Pile	Cr Aggregates	MR55	100.0	97.87	32.92	3.79	12.94	32.24	18.8				
20 Contract yard Stock Pile	Cr Aggregates	MR56	100.0	96.82	33.06	4.06	13.67	33.6	19.0				
Section 900.13 383-1970 Required			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 JV

Submitted by Project Manager

Test conducted by Q.C Manager

Secondary Towns Integrated Urban Environmental Improvement Project Brindamer Sub-Metropolitan City TEST RESULT SUMMARY SHEET For the Month of APRIL 2015 COMPRESSIVE STRENGTH OF BRICKS (Process Control Test) STUEIP							
Ref. STUEIP LAB	Date of Testing	Location	Change	BRAND NAME 1 of class brick	Water Absorption	Compressive Strength N/mm ²	SCALE OF Sample From
MIR201	21/4/2015	SEWORAGE LINE	JATUWA	SHIRE		12.36	1500 Nos-5 Nos.
MIR202	24/4/2015	SEWORAGE LINE	National trading way	T&B		13.74	1500 Nos-5 Nos
MIR203	24/4/2015	SJ3	LIP	T&B		13.11	1500 Nos-5 Nos
MIR204	24/4/2015	S13	LIP	T&B		12.92	1500 Nos-5 Nos
MIR205	24/4/2015	S13	LIP	HIMAL		13.17	1500 Nos-5 Nos
MIR206	24/4/2015	R2 ROAD	4+150	HIMAL		14.39	1500 Nos-5 Nos
MIR207	24/4/2015	R2 ROAD	4+150	SHIRE		12.28	1500 Nos-5 Nos
MIR208	24/4/2015	SEWORAGE LINE	Pratha chowk	SHIRE		11.35	1500 Nos-5 Nos
MIR209	28/4/2015	R2 ROAD	3+550	SHIRE		13.64	1500 Nos-5 Nos
MIR210	28/4/2015	SEWORAGE LINE	National trading way	SHIRE		12.19	1500 Nos-5 Nos
Specification		IS1077, IS2180 for NSI/2035		10% <		> 10N/MM ² 15%	
SMEC-Brisbane-AQUA-BDA-CEMAT Approved by Construction Supervision Engineer Test Checked by Junior Engineer <i>Consultant Reps</i>				CTCF-KALIKA JV Submitted by Project Manager Test conducted by QC Manager <i>Contractor Reps</i>			

Secondary Towns Integrated Urban Environmental Improvement Project Biratnagar Sub-Metropolitan City TEST RESULT SUMMARY SHEET for the Month of APRIL 2015 COMPRESSIVE STRENGTH OF BRICKS (Process Control Test) STUEIP							
Ref. STUEIP LAB	Date of Testing	Location	Damage	BRAND NAME 1st class brick	Water Absorption	Compressive Strength N/mm ²	SCALE OF Sample From
MRI191	12/4/2015	Dharam health Road	0-470	STAR		12.97	1500 Nos. 5 Nos
MRI192	13/4/2015	RANI	Near Ram Temple	STAR		11.72	1500 Nos. 5 Nos
MRI193	13/4/2015	R2 Road	4-100	STAR		12.91	1500 Nos. 5 Nos
MRI194	17/4/2015	S13	LJP	SHREE		14.36	1500 Nos. 5 Nos
MRI195	17/4/2015	CN2	Sagarnatha Chowk	STAR		14.28	1500 Nos. 5 Nos
MRI196	17/4/2015	S13	LJP	HIMAL		13.13	1500 Nos. 5 Nos
MRI197	17/4/2015	CN2	Sagarnatha Chowk	SHREE		11.27	1500 Nos. 5 Nos
MRI198	17/4/2015	CN2	Sagarnatha Chowk	HIMAL		12.55	1500 Nos. 5 Nos
MRI199	17/4/2015	SEWARAGE LINE	T2 line 7-053	HIMAL		12.46	1500 Nos. 5 Nos
MRI200	17/4/2015	RANI	Near Ram Temple	HIMAL		12.94	1500 Nos. 5 Nos
Specification SMEC-British-AQUA-BDA-CEMAT Approved by Construction Supervision Engineer Test Checked by Junior Engineer <i>Consultant Reps</i>				IS1077, IS21800r NSI/2035 10% < > 10N/MM ² ±5% CTCE-KALIKA JV Submitted by Project Manager Test conducted by Q.C Manager Contractor Reps			

Secondary Towns Integrated Urban Environmental Improvement Project Bira (Upper Suburb) Metropolitan City TEST RESULT SUMMARY SHEET For the Month of APRIL 2015 STUIEIP COMPRESSIVE STRENGTH OF BRICKS (Process Control Test)							
Ref. STUIEIP LAB	Date of Testing	Location	Change	BRAND NAME 1st class brick	Water Absorption	Compressive Strength N/mm ²	SCALE OF Sample From
MR181	9/4/2015	RANI	Western side	SHREE	5.21		1500 Nos-5 Nos
MR182	9/4/2015	RANI	Western side	HIMAL	6.2	13.64	1500 Nos-5 Nos
MR183	10/4/2015	RANI	Western side	SHREE		13.36	3000 Nos-5 Nos
MR184	10/4/2015	CN2	Near syphone	STAR		12.83	1500 Nos-5 Nos
MR185	10/4/2015	RANI	Near Ram Temple	STAR		12.35	1500 Nos-5 Nos
MR186	10/4/2015	SEWAGE LINE	National trading way	Himal		13.71	1500 Nos-5 Nos
MR187	11/4/2015	RANI	Near Ram Temple	Himal		12.94	1500 Nos-5 Nos
MR188	11/4/2015	CN2	Near syphone	STAR		13.23	1500 Nos-5 Nos
MR189	12/4/2015	RANI	Near Ram Temple	SHREE		14.70	1500 Nos-5 Nos
MR190	12/4/2015	RANI	Near Ram Temple	Himal		11.29	1500 Nos-5 Nos
Specification				ISI 077, IS 2180 or NSI/2035			
SMEC-Brisbane-AQUA-BDA-CEMAT Approved by Construction Supervision Engineer Test Checked by Junior Engineer <i>Consultant Reps</i>				CTCE-KALILKA J/V Submitted by Project Manager Test conducted by Q.C Manager Contractor Reps			

Secondary Towns Integrated Urban Environmental Improvement Project Biratnagar Sub-Metropolitan City TEST RESULT SUMMARY SHEET For the Month of APRIL 2015 COMPRESSIVE STRENGTH OF BRICKS (Process Control Test)							STUEIP
Ref. STUEIP LAB/	Date of Testing	Location	Change	BRAND NAME 1 st class brick	Water Absorption	Compressive Strength N/mm ²	SCALE OF Sample From
MR171	5/4/2015	SEWAGE LINE	T3 0+70	SIREE		11.47	1500 Nos 5 Nos
MR172	5/4/2015	RANI	Western side	STAR		12.08	1500 Nos 5 Nos
MR173	5/4/2015	RANI	Western side	STAR		13.26	1500 Nos 5 Nos
MR174	6/4/2015	SEWAGE LINE	T30+100	AMBERY		13.34	1500 Nos 5 Nos
MR175	6/4/2015	RANI	Western side	SIREE		13.44	1500 Nos 5 Nos
MR176	6/4/2015	RANI	Western side	SIREE		12.47	1500 Nos 5 Nos
MR177	8/4/2015	SL3	LIF line	SIREE		14.05	1500 Nos 5 Nos
MR178	8/4/2015	SL3	LIF line	SIREE		13.77	1500 Nos 5 Nos
MR179	8/4/2015	RANI	Western side	SIREE		12.74	1500 Nos 5 Nos
MR180	8/4/2015	SL3	LIF line	T&B		11.31	1500 Nos 5 Nos
Specification				IS1077, IS1800 NSI/2035 10% < 1.0N/MM ² 1.5%			
SMEC-Brisbane-AQUA-BDA-CEMAT Approved by Construction Supervision Engineer Test Checked by Junior Engineer Consultant Reps				CTCCE-KALAJA JV Submitted by Project Manager Test conducted by Q.C Manager Contractor Reps			