



29, tulsi society, Nr. ctm, Ahmedabad.

FORM 2

ENGINEER'S CERTIFICATE

(To be submitted at the time of Registration of Ongoing Project and for withdrawal of Money from Designated Account –

Date: 16/06/2019

To

Adani Township and Real Estate Company Private Limited, Atreco House, CBD-Shantigram,
Nr. Vaishnodevi Circle, S.G. Highway, Ahmedabad-382421.
Subject: Certificate of Cost Incurred for Development of Elysium Phase I (Block B and H) for Construction of No. of 2 Building(s) 0 Wing(s) of the Entire Phase (GujRERA Registration Number-PR/GJ/AHMEDABAD/DASKROI/AUDA/RAA01522/EX1/311218) situated on the Plot bearing C.N. No./CTS No./Survey no./Final Plot no.344/P and 345/P/1 to Khodiyar.

Demarcated by its boundaries (latitude and longitude of the end points)

Lat 23°09'41.78"N, Long 72°32'36.99"E to the North Lat 23°09'39.44"N, Long 72°32'33.34"E to the South Lat 23°09'40.754"N, Long 72°32'37.69"E to the East Lat 23°09'38.33"N, Long 72°32'34.14"E to the West of Division Shantigram Township village Khodiyar taluka Daskroi District Ahmedabad PIN 382421 admeasuring 5721 sq.mts. area being developed by Adani Township and Real Estate Company Private Limited.

Ref: GujRERA Registration Number - PR/GJ/AHMEDABAD/DASKROI/AUDA/RAA01522/EX1/311218

Sir,

I Dilip Patel have undertaken assignment of certifying Estimated Cost for the Real Estate Project proposed to be registered under GujRERA, being No. of 2 Building(s) 0 Wing(s) of the Entire Phase situated on the plot bearing C.N. No./CTS No./Survey no./Final Plot no.344/P and 345/P/1 to Khodiyar of Division Shantigram Township village Khodiyar taluka Daskroi District Ahmedabad PIN 382421 admeasuring 5721 sq.mts. area being developed by Adani Township and Real Estate Company Private Limited.

1. Following technical professionals are appointed by Owner/Promoter:- (as applicable)

- (i) M/s./Shri/Smt. Rupesh M Bhatt as Architect/Engineer
- (ii) M/s./Shri/Smt. Haresh A Shah as Structural Consultant
- (iii) M/s./Shri/Smt. Jhaveri Associates as MEP Consultant
- (iv) M/s./Shri/Smt. Rupesh M Bhatt as Quantity Surveyor

2. We have estimated the cost of the completion to obtain Occupation Certificate/Completion Certificate, of the Civil, MEP and Allied works, of the Building(s) of the project. Our estimated cost calculations are based on the Drawing/Plans made available to us for the project under reference by the Developer and Consultants and the Schedule of items and quantity for the entire work as calculated by Rupesh M Bhatt quantity Surveyor appointed by Developer/Engineer and the site inspection carried out by us.

3. We estimate Total Estimated Cost of completion of the building(s) of the aforesaid project under reference as Rs.45,93,47,828 (Total of Table A and B). The estimated Total Cost of Project is with reference to the Civil, MEP and allied works required to be completed for the purpose of obtaining occupation certificate/completion certificate for the building(s) from the AUDA being the Planning Authority under whose jurisdiction the aforesaid project is being implemented.

4. Based on Site Inspection by undersigned on date 09/06/2019 The Estimated Cost Incurred till date is calculated at Rs.45,93,47,828 (Total of Table A and B). The amount of Estimated Cost Incurred is calculated on the base of amount of Total Estimated Cost.

5. The Balance Cost of Completion of the Civil, MEP and Allied works of the Building(s) of the subject project to obtain Occupation Certificate/Completion Certificate from AUDA (Planning Authority) is estimated at Rs.0/- (Total of Table A and B).

6. I certify that the Cost of the Civil, MEP and allied work for the aforesaid Project as completed on the date of this certificate is as given in Table A and B below;

Dilip R. Patel
AMC LIC. No. ER 0734110120 R1
9, Tulsi Society, CTM A'bad.

Table - A

Building/Wing bearing Number - Elysium Phase 1 (Block B) or called _____
(to be prepared separately for each Building/Wing of the Real Estate Project)

Sr. No	Particulars	Amount (in Rs.)
1	Total Estimated Cost of the building/wing as on 31/12/2018 date of Registration is	155542300.00
2	Cost incurred as on 09/06/2019	155542300.00
3	Work done in Percentage (as Percentage of the estimated cost)	100%
4	Balance Cost to be Incurred (Based on Estimated Cost)	0.00
5	Cost Incurred on Additional/Extra Items as on _____ not included in the Estimated Cost (Table -C)	0.00

Table - A

Building/Wing bearing Number - Elysium-Phase 1 (Block H) or called _____
(to be prepared separately for each Building/Wing of the Real Estate Project)

Sr. No	Particulars	Amount (in Rs.)
1	Total Estimated Cost of the building/wing as on 31/12/2018 date of Registration is	166001179.00
2	Cost incurred as on 09/06/2019	166001179.00
3	Work done in Percentage (as Percentage of the estimated cost)	100%
4	Balance Cost to be Incurred (Based on Estimated Cost)	0.00
5	Cost Incurred on Additional/Extra Items as on _____ not included in the Estimated Cost (Table -C)	0.00

Table - B

(to be prepared for the entire registered phase of the Real Estate Project)

Sr. No	Common areas and Facilities Amenities	Amount (in Rs.)
1	Total Estimated Cost of the Internal and External Development Works including amenities and Facilities in the layout as on 31/12/2018 date of Registration is	137804348.00
2	Cost incurred as on 09/06/2019	137804348.00
3	Work done in Percentage (as Percentage of the estimated cost)	100%
4	Balance Cost to be Incurred (Based on Estimated Cost)	0.00
5	Cost Incurred on Additional/Extra Items as on _____ not included in the Estimated Cost (Table -C)	0.00

Yours Faithfully,

Dilip R. Patel
AMC LIC. No. ER 0734110120 R1
9, Tulsi Society, CTM A'bad.

Name Dilip Patel
Local Authority Licence No : ER0734110120R1
Licence Valid till Date : 11/01/2020

Table - C

List of Extra/Additional Items executed with Cost
(Which were not part of the original Estimate of Total Cost)

Sr. No.	Items	Cost
1	<Item 1>	
2	<Insert items here>	



[FORM – 2 (Annexure)]

ENGINEER'S CERTIFICATE FOR QUALITY ASSURANCE

Quality Assurance Certificate for Project Registration Number –

PR/GJ/AHMEDABAD/DASKROI/AUDA/RAA01522/EX1/311218

(Certificate for the quarter ending – For QE)

Sir,

I / We DILIP R PATEL have undertaken an assignment of supervision of this real estate project.

*** Our Responsibility**

To carry out the work in accordance with the development permission and as per the approved plan and submit certificate of supervision of work and to carry out material testing in-situ or in the NABL approved Lab / GTU affiliated Eng. Colleges & Polytechnic Lab / GICEA Lab and to ensure quality of work and workmanship as per prescribed specifications as per NBC and or other relevant code of practice. The materials used in the project are conforming to the standards stipulated in IS SP21, 2005.

1. Material Testing:

I / We have applied following mandatory checks on the basic materials, used in the construction;

i. Cement –

It has been tested for its fineness, soundness, setting time, compressive strength etc. as per IS code 3535:1986 or as per other relevant IS/BS/NBC code, or as per industry standards and its results are within the permissible limits.

ii. Coarse Aggregate –


Dilip R. Patel
AMC LIC. No. ER 0734110120 R1
9, Tulsi Society, CTM A'bad.

It has been tested, for deleterious materials, clay lumps, crushing value, impact value as per IS 2430:1986 or as per other relevant IS/BS/NBC code or as per industry standards and its results are within the permissible limits.

iii. Bricks / Blocks –

They have been tested for water absorption, crushing strength etc. as per IS 5454:1978 or as per other relevant IS/BS/NBC code or as per industry standards and its results are within permissible limits.

iv. Concrete / Ready-mix Concrete –

It has been tested for compressive strength for various periods as per IS 456:2000 and IS 1199 or as per other relevant IS/BS/NBC code or as per industry standards and its results are within permissible limits.

v. Steel for Concrete –

It has been tested as per IS 2062:2011 or as per other relevant IS/BS/NBC code or as per industry standards for tensile strength, elongation and gauge length etc. and its results are within permissible limits.

vi. Testing of Other Materials –

Other materials like sand, crushed sand, floor tiles, fixtures and fittings, pipes and sanitary fittings etc. (List out all items) used in this project conform to relevant IS/BS/NBC code or as per standards laid down by the industry for a particular material.

vii. Number and Frequency of testing

The materials used are subjected to required tests in prescribed number and frequency.

viii. Codes of foreign country


Dilip R. Patel
AMC Lic. No. ER 0734110120 R1
9, Tulsi Society, CTM A'bad,

Material used in the project for which IS code or standard is not available, the same is tested using relevant code of other country or as per standards laid down by the industry.

ix. Fire Resistance

The materials/composites used in construction complied to the required fire resistance.

2. Workmanship:

I / We hereby certify that work has been carried out under my / our supervision. I / We further certify that workmanship and quality is satisfactory and up to the mark and the work has been acceptable within the permissible limits of deviations as per relevant code of practice.

3. Electrical Materials and Workmanship:

Works of all the electrical wiring / connections / lift installation / other electrical installations have been carried out under authorized / registered electrical engineer and its records has been maintained. The materials used conform to the relevant IS / BS / National Building Codes or as per industry standards.

4. Structural Engineer:

Promotor has engaged structural engineer Mr. Nikunj D Shah having Licenses no. SD – 0442020919 having office no. 105/T, Shrinand, Nagar-2, Makarba Road, Vejalpur, Ahmedabad-380051.

The structural design of buildings in this project has been done under his supervision. I / We have checked the soil report before laying PCC for foundation in consultation with soil consultant. The formwork and concrete mix design have been done as per relevant codes as applicable. His / Her periodic checks and certificates for STABILITY and SAFETY have been kept on record.

The structural design is carried out considering applicable earthquake and/or wind load for this project and copes with the required fire resistance.

Delip R. Patel
AMC LIC. No. ER 0734110120 R1
9, Tulsi Society, CTM Road

5. Preservation of Records:

Record of all test results of this project have been properly kept in the prescribed formats and will be preserved at least up to the defect liability period or for the period as required by any other provision of law.

- 6. The following materials or any other item of work which were not conforming to the standard specifications and which were not rejected, because of reasons specified hereunder;**

Dilip R. Patel
AMC LIC. No. ER 0734110120 R1
9, Tulsi Society, CTM A'bad.

Yours Faithfully,

Signature & Name (DILIP R PATEL) with Stamp of Engineer

Local Authority license no. ER0734110120R1

Local Authority License no. valid till (Date) 11/01/2020

Note : All latest records are attached herewith

hindware

Date - 17.04.2017

TO WHOM IT MAY CONCERN

This is to specify the warranty of the product mentioned below purchased from HSIL Ltd. supplied to ADANI TOWNSHIP & REAL ESTATE CO. PVT LTD, AHMEDABAD.

IE: ADANI TOWNSHIP & REAL ESTATE CO. PVT LTD, ATRECO HOUSE, CBD-SHANTIGRAM, NEAR VAISHNAV DEVI TEMPLE, SG HIGHWAY, AHMEDABAD-382421, GUJARAT-INDIA PONO. 4500244040

S No.	Product Description	Cat Code	Quantity
1	ETIOS Cistern with Lid (SW)	21056	340
2	ETIOS Extended Wall Mounted Closets (SW)	20096	340
3	Half Pedestal (SW)	11027	408
4	TANGO Cistern with Lid (SW)	21051	68
5	TANGO Coupled Closets (SW)	20083	68
6	TANGO Wash Basin (SW)	10086	408

Hindware products are designed as per standards to provide trouble free service to its customers.

All the Hindware products, sold in India, are warranted against any defect in manufacturing or faulty workmanship for the period mentioned below beginning from the date of purchase.

Warranty includes repairing of defective product/part/s and does not apply to damage resulting from normal wear & tear, abnormal use, misuse, improper use, abuse, neglect or accident.

Product	Warranty Period Residential	Warranty Period Commercial
Vitreous China/Concealed Cistern (in Wall Tank)	10 years	5 years
Internal Fittings/ PVC Cistern	2 years	1 year
Seat Cover/ Flush Plate	1 year	6 months
Electrical/ Electronic Components	1 year	6 months

SRINIVAS RAJU

HEAD Q.A., HSIL Ltd.

(THIS IS A COMPUTER GENERATED STATEMENT IT DOES NOT REQUIRE ANY SIGNATURE)

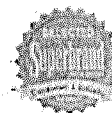
HSIL Limited
(An ISO 9001:14001 OHSAS 18001 Certified Company)

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Gurgaon Haryana - 122001
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Registered Office:
2, Red Cross Place, Kolkata, West Bengal - 700001

www.hindware.com

HSIL





NIKUNJ D. SHAH_{B.E.CIVIL}

105/E, SHRINAND NAGAR-2, MAKARBA ROAD,
VEJALPUR, AHMEDABAD-380051

AUDA : Structural Designer
Reg No. Auda/SD-I/299

AMC : Structural Designer
Lic No.: SD-0442020919

DATE : 19.03.2019

TO WHOM SO EVER IT MAY CONCERN

SUBJECT :- CERTIFICATE

THIS IS TO CERTIFY THAT "ADANI ELYSIUM" SITUATED AT ADANI SHANTIGRAM SUR NO BL.344/P, 345-1 TO 10/P 318, AT ADANI TOWNSHIP & REAL ESTATE COMPANY PVT LTD, ELYSIUM SHANTIGRAM NR.VAISHNODEVI CIRCLE, SG HIGHWAY, AHMEDABAD, GUJRAT. (BLOCK -A, 1 BASEMENT + GROUND FLOOR + 16 UPPER FLOORS, BLOCK -B, 2 BASEMENT + GROUND FLOOR + 16 UPPER FLOORS), (BLOCK -H, 1 BASEMENT + GROUND FLOOR + 17 UPPER FLOORS) (BLOCK -I, 1 BASEMENT + GROUND FLOOR + 17 UPPER FLOORS AND CLUB HOUSE) IS DESIGNED BY US PER RELEVANT CODES OF INDIAN STANDARD IN PRATICE.

WE FURTHER CERTIFY THAT OUR DESIGN OF BUILDING IS SAFE & STRUCTURALLY STABLE.

NAME:

STR. ENGR:

ADDRESS:

NIKUNJ D. SHAH
105/E, Shrinand Nagar-2,
Vejalpur, Makarba Road,
Ahmedabad
Reg. No. Auda/SD-I/299
Valid up to 31/08/2019



witness Test

Report No.: SGS/AHD/INDLAB/0789-A/15

Date: 28/09/15

TEST REPORT

AUTOCALVE AERATED CELLULAR BLOCK

Name of Client: Magicrete.
Address of Client: 101, Ritz Square, Nr. Narmad Library, Ghod Dod Road, Surat-395007, Gujarat.
Ref: _____
Name of Work: Project Name : Adani Township & Real Estate Company, Ahmedabad.
Details of Sample: AAC Block, Size : 600*200*100 mm.
Condition of Sample: Dry.
Sample Inward No.: INDLAB/2015/0789
JOE No.: 0789
Received Date: 18/09/2015
Testing Started On: 21/09/2015
Testing Completed On: 28/09/2015
Tested as Per: IS 2185(Part 3) 1984, IS 6441
Date of Casting: _____

Sr.No.	Moisture Content At the time of Comp. Strength Test (%)	Comp. Strength Of Individual Block(N/mm ²)	Average Comp. Strength Of 12 Blocks (N/mm ²)	Requirement as per IS:2185 (P-3) : 1984 Table-1					
1	10.52	3.9	4.3	Sr.No.	Density in Overdry Condition Kg/M ³	Compressive Strength Minimum N/mm ²			
2	9.25	4.3				For Grade-1 For Grade-2			
3	10.79	4.0				1	451 to 550	2.0	1.5
4	11.25	4.5				2	551 to 650	4.0	3.0
5	10.70	4.0				3	651 to 750	5.0	4.0
6	10.25	4.0				4	751 to 850	6.0	5.0
7	11.54	4.3				5	851 to 1000	7.0	6.0
8	11.85	4.7							
9	11.37	4.2							
10	10.85	4.6							
11	9.92	4.6							
12	10.66	4.5							
Block Density (Kg/m ³) :									
Sr. No.	Density (Kg/m ³)	Average Density (Kg/m ³)							
1	592	589							
2	580								
3	594								

1. The results are related to the

1. The results are related to the sample/s tested only.
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4. Details of sample are declared by client.
5. Sample not taken by SGS India Pvt. Ltd.

For SGS India Pvt. Ltd.

[Signature]
(Authorised Signatory)

[Signature]
06.10.2015

[Signature] B. H. Dumaniza

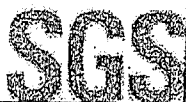
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Report No.: SGS/ARD/INDLAB/0789-B/15

Date: 09/10/15

TEST REPORT**AUTOCCLAVE AERATED CELLULAR BLOCK**

Name of Client: Magicrete,
Address of Client: 101, Ritz Square, Nr. Narmad Library, Ghod Dod Road, Surat-395007, Gujarat
Ref: ---
Name of Work: Project Name: Adani Township & Real Estate Company, Ahmedabad.
Details of Sample: AAC Block, Size: 600*200*100 mm.
Condition of Sample: Dry.
Sample Inward No.: INDLAB/2015/0789
JOE No: Q789
Received Date: 18/09/2015
Testing Started On: 21/09/2015
Testing Completed On: 09/10/2015
Tested as Per: IS 2185 (Part 3) 1984, IS 6441
Date of Casting: ---

Sr.No.	Length (cm)	Width (cm)	Height (cm)	Area (cm ²)	Load (KN)	Compressive Strength (N/mm ²)	Water Absorption (%)	Drying Shrinkage (%)	Moisture Movement (%)
1	-	-	-	-	-	-	-	0.043	-
2	-	-	-	-	-	-	-	0.043	-
3	-	-	-	-	-	-	-	0.047	-

Test Description	Results (Average)	Requirement as per IS 2185 (Part 3) : 1984	
Average Drying Shrinkage (%)	0.044	For Grade - I : 0.05 Max.	For Grade - II : 0.10 Max.

1. The results are related to the sample/s tested only.
2. This Test Report shall not be reproduced except in full, without the written approval of SGS INDIA PRIVATE LTD.
3. No samples will be retained without any request by client at the time of submitting the sample.
4. Details of sample are declared by client.
5. Sample not taken by SGS India Pvt. Ltd.

For SGS India Pvt. Ltd.

(Authorised Signatory)

(Checked By)

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Page 1 of 1

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Report No.:SGS/AHD/INDLAB/0813-A/15

Date:30/09/15

TEST REPORT**AUTOCLAVE AERATED CELLULAR BLOCK**

Name of Client: Eco Green Products Pvt. Ltd.
 Address of Client: B/5, Mantra, Opp. Amrapali III, Bodakdev, Ahmedabad.
 Ref: Letter dated 25/09/15
 Name of Work: Project Name: Adani Elysium, Adani Shantigram Township & Real Estate Co. Pvt. Ltd.
 Details of Sample: Identification : Size : 600*200*150 mm.
 Condition of Sample: Dry.
 Sample Inward No.: INDLAB/2015/0813
 JOE No: 0813
 Received Date: 25/09/2015
 Testing Started On: 25/09/2015
 Testing Completed On: 30/09/2015
 Tested as Per: IS 2185(Part 3) 1984,IS.6441
 Date of Casting: —

Sr.No.	Moisture Content At the time of Comp. Strength Test (%)	Comp. Strength Of Individual Block(N/mm ²)	Average Comp. Strength Of 12 Blocks (N/mm ²)	Requirement as per IS:2185 (P-3) : 1984 Table-1			
1	10.39	4.9	4.7	Sr.No.	Density in Overdry Condition Kg/M ³	Compressive Strength Minimum N/mm ²	
2	11.41	4.5				For Grade-1	For Grade-2
3	10.96	5.0					
4	10.73	4.5					
5	10.07	4.1					
6	9.85	4.4					
7	10.57	4.7					
8	10.14	5.4					
9	10.37	5.4					
10	9.67	4.6					
11	9.95	4.5					
12	10.48	4.3					
Block Density (Kg/m ³) :				1	451 to 550	2.0	1.5
Sr. No.	Density (Kg/m ³)	Average Density (Kg/m ³)		2	551 to 650	4.0	3.0
1	551	561		3	651 to 750	5.0	4.0
2	563			4	751 to 850	6.0	5.0
3	569			5	851 to 1000	7.0	6.0

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- Details of sample are declared by client.
- Sample not taken by SGS India Pvt. Ltd.

For SGS India Pvt. Ltd.

[Signature]
 (Authorised Signatory)

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Report No.: SGS/AHD/INDLAB/0813-B/15

Date: 12/10/15

TEST REPORT
AUTOClave AERATED CELLULAR BLOCK

Name of Client: Eco Green Products Pvt. Ltd.
 Address of Client: B/5, Mantra, Opp. Amrapali III, Bodakdev, Ahmedabad.
 Ref: Letter dated 25/09/15
 Name of Work: Project Name: Adani Elysium, Adani Shantigram Township & Real Estate Co. Pvt. Ltd.
 Details of Sample: Identification: Size: 600*200*150 mm.
 Condition of Sample: Dry.
 Sample Inward No.: INDLAB/2015/0813
 JOE No: 0813
 Received Date: 25/09/2015
 Testing Started On: 25/09/2015
 Testing Completed On: 12/10/2015
 Tested as Per: IS 2185 (Part 3) 1984, IS 6441
 Date of Casting: —

Sr.No.	Length (cm)	Width (cm)	Height (cm)	Area (cm ²)	Load (KN)	Compressive Strength (N/mm ²)	Water Absorption (%)	Drying Shrinkage (%)	Moisture Movement (%)
1	-	-	-	-	-	-	-	0.050	-
2	-	-	-	-	-	-	-	0.043	-
3	-	-	-	-	-	-	-	0.043	-

Test Description	Results (Average)	Requirement as per IS 2185 (Part 3) : 1984	
Average Drying Shrinkage (%)	0.045	For Grade - I : 0.05 Max.	For Grade - II : 0.10 Max.

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4. Details of sample are declared by client.
5. Sample not taken by SGS India Pvt. Ltd.

For SGS India Pvt. Ltd.

B. H. Othman
 (Authorised Signatory)

oil
 (Checked By)

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End of Test Report.

Page 1 of 1

Lab : Shop No.2, Basement, Agrawal Mall, Opp. Sola Bhagwat Vidyapith, S.G.Road, Ahmedabad - 380054. (Ph) : 079-65426712

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 CIN: U74990MH1950PTC008117 • E-mail: sgs.india@sgs.com Member of the SGS Group (SGS SA)

Report No.:SGS/AHD/INDLAB/0744-A/15

Date:09/09/15

TEST REPORT

AUTOCLAVE AERATED CELLULAR BLOCK

Name of Client : Brixo Industries.
Address of Client : Budasan Village, Chhatral - Kadi Road, Kadi, Mehsana.
Ref: Letter dated 01/09/15
Name of Work : Project Name : Adani Elysium, Adani Township, Shantigram.
Details of Sample: AAC Block, Size : 600*200*100 mm.
Condition of Sample : Dry.
Sample Inward No. : INDLAB/2015/0744
JOE No : 0744.
Received Date : 02/09/2015
Testing Started On: 02/09/2015
Testing Completed On: 08/09/2015
Tested as Per: IS 2185(Part 3) 1984,IS 6441
Date of Casting : —

Sr.No.	Moisture Content At the time of Comp. Strength Test (%)	Comp. Strength Of Individual Block(N/mm ²)	Average Comp. Strength Of 12 Blocks (N/mm ²)	Requirement as per IS:2185 (P-3) : 1984 Table-1			
1	9.37	5.0	4.5	Sr.No.	Density in Overdry Condition Kg/M ³	Compressive Strength Minimum N/mm ²	
2	10.14	4.2				For Grade-1	For Grade-2
3	10.92	4.3					
4	11.14	4.2					
5	10.84	5.1					
6	11.72	5.1					
7	8.80	3.9					
8	10.03	4.0					
9	8.62	4.3					
10	11.70	4.6					
11	9.54	5.1					
12	11.65	4.4					
Block Density (Kg/m ³) :				1	451 to 550	2.0	1.5
Sr. No.	Density (Kg/m ³)	Average Density (Kg/m ³)		2	551 to 650	4.0	3.0
1	539	544		3	651 to 750	5.0	4.0
2	543			4	751 to 850	6.0	5.0
3	549			5	851 to 1000	7.0	6.0

1. The results are related to the sample/s tested only.
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3. No samples will be retained without any request by client at the time of submitting the sample.
4. Details of sample are declared by client.
5. Sample not taken by SGS India Pvt. Ltd.

For SGS India Pvt. Ltd.

N. K. Patel
(Authorised Signatory)

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Report No.:SGS/AHD/INDLAB/0744-C/15

Date:09/09/15

TEST REPORT
AUTOCCLAVE AERATED CELLULAR BLOCK

Name of Client: Brixo Industries.
 Address of Client: Budasan Village, Chhatral - Kadi Road, Kadi, Mehsana.
 Ref: Letter dated 01/09/15
 Name of Work: Project Name : Adani Elysium, Adani Township, Shantigram.
 Details of Sample: AAC Block, Size : 600*200*200 mm.
 Condition of Sample: Dry.
 Sample Inward No.: INDLAB/2015/0744
 JOE No: 0744
 Received Date: 02/09/2015
 Testing Started On: 02/09/2015
 Testing Completed On: 08/09/2015
 Tested as Per: IS 2185(Part 3) 1984,IS 6441
 Date of Casting: ---

Sr.No.	Moisture Content At the time of Comp. Strength Test (%)	Comp. Strength Of Individual Block(N/mm ²)	Average Comp. Strength Of 12 Blocks (N/mm ²)	Requirement as per IS:2185 (P-3) : 1984 Table-1			
1	10.04	4.0	4.0	Sr.No.	Density in Overdry Condition Kg/M ³	Compressive Strength Minimum N/mm ²	
2	10.51	3.6				For Grade-1	For Grade-2
3	10.67	3.6					
4	10.98	4.1					
5	10.76	4.2					
6	10.65	4.2					
7	9.33	4.0					
8	9.62	4.0					
9	9.46	4.1					
10	10.44	4.1					
11	9.62	4.3					
12	9.97	3.9					
Block Density (Kg/m ³) :							
Sr. No.	Density (Kg/m ³)	Average Density (Kg/m ³)					
1	520	531					
2	536						
3	536						

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3. No samples will be retained without any request by client at the time of submitting the sample.
4. Details of sample are declared by client.
5. Sample not taken by SGS India Pvt. Ltd.

For SGS India Pvt. Ltd.

(Authorised Signatory)

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Report No.:SGS/AHD/INDLAB/0926-A/16

Date:01/09/16

TEST REPORT **REINFORCEMENT**

Name of Client: Adani Township & Real Estate Co. Pvt. Ltd.
Address of Client: CBD, Shantigram, Nr. Vaishnodevi Circle, Ahmedabad.
Ref: Letter No. ATRECOPL/16-17/SGS/1052 dtd. 01/09/16,
Name of Work: Building Works at Shantigram Township.
Details of Sample: —
Condition of Sample: Loose.
Sample Inward No: INDLAB/2016/0926
JOE No.: 0926
Received Date: 01/09/2016
Testing Started On: 01/09/2016
Testing Completed On: 01/09/2016
Tested as per: IS 1608 : 2005, IS 1599 : 1985.

OBSERVATION:-

Sr. No.	Dia meter (mm)	Length of Bar (mm)	Weight of bar (gm)	Weight (kg/m)	Gauge Length	Area (mm ²)	Yield Load (kN)	Yield Stress (N/mm ²)	Ultimate Load (kN)	Tensile Strength (N/mm ²)	Final Gauge Length (mm)	Elongation (%)	Bend Test	Rebend Test
Identification : Lot No. 471 (Invoice No. 6615), Grade: FE-500, Brand : Gallantt Metal Ltd. /														
1	20	1208	2959	2.45	100	312.10	200.00	640.82	226.30	725.09	121.30	21.30	Satisfactory	Satisfactory
2	20	1201	2920	2.43	100	309.55	184.50	596.03	221.75	716.36	120.80	20.80	Satisfactory	Satisfactory
Identification : Lot No. 504 (Invoice No. 6622), Grade: FE-500, Brand : Gallantt Metal Ltd. /														
3	12	1210	1042	0.861	60	109.68	67.50	615.43	77.35	705.23	72.00	20.00	Satisfactory	Satisfactory
4	12	1210	1050	0.868	60	110.57	70.60	638.51	80.45	727.59	68.60	14.33	Satisfactory	Satisfactory
Identification : Lot No. 482 (Invoice No. 6622), Grade: FE-500, Brand : Gallantt Metal Ltd. /														
5	25	1203	4599	3.82	125	486.62	295.40	607.04	350.00	719.25	148.10	18.48	Satisfactory	Satisfactory
6	25	1203	4593	3.80	125	484.08	286.65	592.15	345.50	713.73	147.00	17.60	Satisfactory	Satisfactory
REQUIREMENT (AS PER 1786:2008)														
								Min 500		Min 545		Min 12.0		

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- Details of sample are declared by client.
- Sample not drawn by SGS India Pvt. Ltd.
- Sr. No. 1 to 6, Dia 20, 12 & 25 mm Samples are Confirm in above parameters as per IS 1786:2008 for Grade Fe-500.

For SGS India Pvt. Ltd.

B. H. Dymandis

(Authorised Signatory)

[Signature]

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Member of the SGS Group ISGS SAI



Report No.:SGS/AHD/INDLAB/0272-A/16

Date:19/03/16

TEST REPORT**REINFORCEMENT**

Name of Client: Adani Township & Real Estate Co. Pvt. Ltd
 Address of Client: CBD, Shantigram, Nr. Vaishnodevi Circle, Ahmedabad.
 Ref: Letter No. ATRECOPL/15-16/SGS/1007 dtd. 18/03/16
 Name of Work: Building Works at Shantigram Township.
 Details of Sample: —
 Condition of Sample: Loose.
 Sample Inward No: INDLAB/2016/0272
 JOE No.: 0272
 Received Date: 18/03/2016
 Testing Started On: 18/03/2016
 Testing Completed On: 18/03/2016
 Tested as per: IS 1608 : 2005, IS 1599 : 1985.

OBSERVATION:-

Sr. No.	Dia meter (mm)	Length of Bar (mm)	Weight of bar (gm)	Weight (kg/m)	Gauge Length	Area (mm ²)	Yield Load (KN)	Yield Stress (N/mm ²)	Ultimate Load (KN)	Tensile Strength (N/mm ²)	Final Gauge Length (mm)	Elongation (%)	Bend Test	Rebend Test
Identification : Lot No. 31310B (Invoice No. 206606), Grade: FE-500, Brand : Electrotherm India Ltd.														
1	10	1200	698	0.582	50	74.14	41.25	556.38	47.55	641.35	60.80	21.60	Satisfactory	Satisfactory
2	10	1199	696	0.580	50	73.89	42.20	571.12	48.45	655.70	60.60	21.20	Satisfactory	Satisfactory
Identification : Lot No. 31212B (Invoice No. 206606), Grade: FE-500, Brand : Electrotherm India Ltd.														
3	12	1191	1042	0.875	60	111.46	57.50	515.88	68.25	612.33	73.90	23.17	Satisfactory	Satisfactory
4	12	1193	1040	0.872	60	111.08	58.80	529.35	69.05	621.62	73.70	22.83	Satisfactory	Satisfactory
Identification : Lot No. 31316B (Invoice No. 206608), Grade: FE-500, Brand : Electrotherm India Ltd.														
5	16	1201	1873	1.56	80	198.73	114.45	575.91	130.40	656.17	96.30	20.38	Satisfactory	Satisfactory
6	16	1194	1845	1.55	80	197.45	120.00	607.75	134.60	681.69	95.90	19.88	Satisfactory	Satisfactory
Identification : Lot No. 31425B (Invoice No. 206608), Grade: FE-500, Brand : Electrotherm India Ltd.														
7	25	1194	4548	3.81	125	485.35	307.60	633.77	364.00	749.97	143.60	14.83	Satisfactory	Satisfactory
8	25	1210	4639	3.83	125	487.90	295.20	605.04	353.25	724.02	147.20	17.76	Satisfactory	Satisfactory
REQUIREMENT (AS PER 1786:2008)								Min 500		Min 545		Min 12.0		

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- Details of sample are declared by client.
- Sample not drawn by SGS India Pvt. Ltd.
- Sr. No. 1 to 8, Dia 10, 12, 16 & 25 mm Samples are Confirm in above parameters as per IS 1786:2008 for Grade Fe-500.

For SGS India Pvt. Ltd.

(Authorised Signatory)

Received
21/3/16

B.H. Dumanidam

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Report No.:SGS/AHD/INDLAB/0076-A/16

Date:25/01/16

TEST REPORT**REINFORCEMENT**

Name of Client: Adani Township & Real Estate Co. Pvt. Ltd.
 Address of Client: CBD, Shantigram, Nr. Vaishnodevi Circle, Ahmedabad.
 Ref: Letter No. ATRECOPL/15-16/SGS/986 dtd. 23/01/16.
 Name of Work: Building Works at Shantigram Township.
 Details of Sample: —
 Condition of Sample: Loose.
 Sample Inward No: INDLAB/2016/0076
 JOE No.: 0076
 Received Date: 23/01/2016
 Testing Started On: 23/01/2016
 Testing Completed On: 23/01/2016
 Tested as per: IS 1608 : 2005, IS 1599 : 1985.

OBSERVATION:-

Sr. No.	Dia meter (mm)	Length of Bar (mm)	Weight of bar (gm)	Weight (kg/m)	Gauge Length	Area (mm ²)	Yield Load (KN)	Yield Stress (N/mm ²)	Ultimate Load (KN)	Tensile Strength (N/mm ²)	Final Gauge Length (mm)	Elongation (%)	Bend Test	Rebend Test
Identification : Lot No. HSPL/0230 (Invoice No. EX/2351/15-16), Grade: FE-500, Brand : Hag Steel Pvt. Ltd.(German Steel)														
1	8	1200	453	0.386	40	49.17	32.24	655.68	36.75	747.41	43.00	20.00 ✓	Satisfactory	Satisfactory
2	8	1202	475	0.395	40	50.32	38.81	771.26	42.50	844.59	47.60	19.00 ✓	Satisfactory	Satisfactory
Identification : Lot No. HSPL/0247 (Invoice No. EX/2349/15-16), Grade: FE-500, Brand : Hag Steel Pvt. Ltd.(German Steel)														
3	12	1197	1044	0.872	60	111.08	58.80	529.35	70.70	636.48	74.80	24.67 ✓	Satisfactory	Satisfactory
4	12	1201	1059	0.882	60	112.36	61.30	545.57	74.40	662.16	74.80	24.67 ✓	Satisfactory	Satisfactory
Identification : Lot No. HSPL/0237 (Invoice No. EX/2346/15-16), Grade: FE-500, Brand : Hag Steel Pvt. Ltd.(German Steel)														
5	16	1202	1854	1.54	80	196.18	110.70	564.28	133.10	678.46	95.70	19.63 ✓	Satisfactory	Satisfactory
6	16	1208	1882	1.56	80	198.73	101.25	509.49	132.85	668.49	96.90	21.13 ✓	Satisfactory	Satisfactory
REQUIREMENT (AS PER 1786:2008)								Min 500		Min 545		Min 12.0		

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- Sample not drawn by SGS India Pvt. Ltd.
- Sr. No. 1 to 6, Dia 08, 12 & 16 mm Samples are Confirm in above parameters as per IS 1786:2008 for Grade Fe-500.

For SGS India Pvt. Ltd.

B. H. Duman

(Authorised Signatory)

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28/1/16*(Signature)*
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Member of the SGS Group (SGS SA)



Report No.:SGS/AHD/INDLAB/1101-D/16

Date:13/10/16

TEST REPORT**CEMENT TESTING (PHYSICAL)**

Name of Client : Adani Township & Real Estate Co. Pvt. Ltd
Address of Client : CBD, Shantigram, Nr. Vaishonodevi Circle, Ahmedabad.
Ref : Letter no. ATRECOPL/16-17/SGS/1066 dated 03/10/16
Name of Work : Building Works at Shantigram.
Details of Sample : Brand : Sanghi, Grade : OPC 53, Invoice No. 4116089959.
Condition of Sample : Loose.
Sample Inward No : INDLAB/2016/1101
JOE No.: 1101
Received Date : 03/10/2016
Testing Started On: 06/10/2016
Testing Completed On (7 Days): 13/10/2016
Tested as per : IS 4031

Sr.No.	Test Description	Result	Requirement as per IS 12269 :1987
1	Consistency (%)	30.0 ✓	-
2	Initial Setting Time (min)	145 ✓	Min 30
3	Final Setting Time (min)	209 ✓	Max. 600
4	Soundness by Le-Chatelier (mm)	1.0 ✓	Max. 10
5	Fineness (m ² /kg)	308 ✓	Min 225
6	Compressive Strength (Mpa)		
a)	3 days	35.8 ✓	Min 27
b)	7days	44.5 ✓	Min 37
c)	28 days	Results Awaited	Min 53

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2. Above mentioned details of sample is declared by client.
3. This Test Report shall not be reproduced except in full, without the written approval of SGS INDIA PRIVATE LTD.
4. No samples will be retained without any request by client at the time of submitting the sample.
5. Sample not drawn by SGS India Pvt. Ltd.
6. Test carried out at temperature $27 \pm 2^{\circ}\text{C}$ and relative humidity $65 \pm 5\%$.

For SGS India Pvt. Ltd.

(Authorised Signatory)

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K. J. J. J.
13/10/16

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Report No.:SGS/AHD/INDLAB/1101-F/16

Date:03/11/16

TEST REPORT**CEMENT TESTING (PHYSICAL)**

Name of Client : Adani Township & Real Estate Co. Pvt. Ltd
Address of Client : CBD, Shantigram, Nr. Vaishonodevi Circle, Ahmedabad.
Ref : Letter no. ATRECOPL/16-17/SGS/1066 dated 03/10/16
Name of Work : Building Works at Shantigram.
Details of Sample : Brand : Sanghi, Grade : OPC 53, Invoice No. 4116089959.
Condition of Sample : Loose.
Sample Inward No : INDLAB/2016/1101
JQE No.: 1101
Received Date : 03/10/2016
Testing Started On: 06/10/2016
Testing Completed On (28 Days): 03/11/2016
Tested as per : IS 4031

Sr.No.	Test Description	Result	Requirement as per IS 12269 :1987
1	Consistency (%)	30.0	-
2	Initial Setting Time (min)	145	Min 30
3	Final Setting Time (min)	209	Max. 600
4	Soundness by Le-Chatelier (mm)	1.0	Max. 10
5	Fineness (m ² /kg)	308	Min 225
6	Compressive Strength (Mpa)		
a)	3 days	35.8	Min 27
b)	7days	44.5	Min 37
c)	28 days	57.2	Min 53

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3. This Test Report shall not be reproduced except in full, without the written approval of SGS INDIA PRIVATE LTD.
4. No samples will be retained without any request by client at the time of submitting the sample.
5. Sample not drawn by SGS India Pvt. Ltd.
6. Test carried out at temperature $27 \pm 2^{\circ}\text{C}$ and relative humidity $65 \pm 5\%$.

For SGS India Pvt. Ltd.

(Authorised Signatory)

(Checked By)

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End of Test Report.

Page 1 of 1

Received
14/11/16

Lab : Shop No.2, Basement, Agrawal Mall, Opp. Sola Bhagwat Vidyapith, S.G.Highway, Ahmedabad. - 380054 (Ph) : 079-65420712

SGS India Private Ltd. 201, 2nd Floor, Sumel-II, Near Gurudwara, S. G. Highway, Ahmedabad - 380 054 t: (91-79) 6160 3100 & 6060 0747 f: (91-79) 6160 3111

Regd. & Corp. Off.: SGS House, 4B, A. S. Marg, Vikhroli (West), Mumbai - 400 083 t: (022) 6640 8888 f: (022) 6640 8829

www.sgs.comCIN : U74990MH1950PTC008117 e-mail : sgs.india@sgs.com

Member of the SGS Group (SGS SA)



Report No.:SGS/AHD/INDLAB/0893-B/16

Date:23/09/16

TEST REPORT**CEMENT TESTING (PHYSICAL)**

Name of Client : Adani Township & Real Estate Co. Pvt. Ltd
Address of Client : CBD, Shantigram, Nr. Vaishonodevi Circle, Ahmedabad.
Ref : Letter no. ATRECOPL/16-17/SGS/1051 dated 23/08/16
Name of Work : Building Works at Shantigram.
Details of Sample : Brand : Sanghi, Grade : OPC 53, Invoice No. 4116067980.
Condition of Sample : Loose.
Sample Inward No : INDLAB/2016/0893
JOE No.: 0893
Received Date : 23/08/2016
Testing Started On: 26/08/2016
Testing Completed On (28 Days): 23/09/2016
Tested as per : IS 4031

Sr.No.	Test Description	Result	Requirement as per IS 12269 :1987
1.	Consistency (%)	28.0 ✓	
2	Initial Setting Time (min)	154 ✓	Min 30
3	Final Setting Time (min)	241 ✓	Max. 600
4	Soundness by Le-Chatelier (mm)	1.0 ✓	Max. 10
5	Fineness (m ² /kg)	319 ✓	Min 225
6	Compressive Strength (Mpa)		
a)	3 days	37.5 ✓	Min 27
b)	7days	48.2 ✓	Min 37
c)	28 days	61.3 ✓	Min 53

1. The results are related to the sample/s tested only.
2. Above mentioned details of sample is declared by client.
3. This Test Report shall not be reproduced except in full, without the written approval of SGS INDIA PRIVATE LTD.
4. No samples will be retained without any request by client at the time of submitting the sample.
5. Sample not drawn by SGS India Pvt. Ltd.
6. Test carried out at temperature $27 \pm 2^{\circ}\text{C}$ and relative humidity $65 \pm 5\%$.

For SGS India Pvt. Ltd.

(Authorised Signatory)

(Checked By)

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End of Test Report

Received
10/9/16
28/9/16

Page 1 of 1



Report No.:SGS/AHD/INDLAB/0893-B/16

Date:03/09/16

TEST REPORT

CEMENT TESTING (CHEMICAL)

Name of Client: Adani Township & Real Estate Co. Pvt. Ltd
Address of Client: CBD, Shantigram, Nr. Vaishonodevi Circle, Ahmedabad.
Ref: Letter no. ATRECOPL/16-17/SGS/1051 dated 23/08/16
Name of Work: Building Works at Shantigram.
Details of Sample: Brand : Sanghi, Grade : OPC 53, Invoice No. 4116067980.
Condition of Sample : Loose.
Sample Inward No : INDLAB/2016/0893
JOE No.: 0893
Received Date : 23/08/2016
Testing Started On: 23/08/2016
Testing Completed On: 31/08/2016
Tested as per.: IS 4032 : 1985

Sr.No.	Test Description	Result	Requirement as per IS : 12269:2013
1	Lime Saturation Factor	0.89	0.80 - 1.02
2	Alumina Iron ratio	1.33	Min 0.66
3	Insoluble Residue (% by mass)	1.01	Max. 4.0 %
4	Magnesia (% by mass)	2.36	Max. 6.0 %
5	Sulphuric Anhydride (% by mass)	2.40	Max. 3.5 %
6	Loss On Ignition(% by mass)	3.21	Max. 4.0 %

1. The results are related to the sample/s tested only.
2. Above mentioned details of sample is declared by client.
3. This-Test Report shall not be reproduced except in full, without the written approval of SGS INDIA PRIVATE LTD.
4. No samples will be retained without any request by client at the time of submitting the sample.
5. Sample not drawn by SGS India Pvt. Ltd.

For SGS India Pvt. Ltd.

B. H. Dumanidya

(Authorised Signatory)

(Checked By)

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End of Test Report.

5001764427



IS:15622:2006
CWL 9829610



SOMANY

Test Certificate/Technical Specification

Ref. : SCL/QA/SFF/305/17
ADANI TOWNSHIP & REAL ESTATE CO. PVT LIMITED
Material : Glazed Ceramic Wall Tiles: GREY TRAVERTINO
Invoice No : 900483
Nominal Size : 300X600X10.0 mm
Group : Dust - Pressed tiles with Water absorption of E > 10 % (Group B III)
All characteristics tested are in compliance with Specification IS 15622:2006 (Superseding IS 13753:1993)

Date: 20.02.2017

	Test Reference	Requirements	Results
	IS: 13630(Pt-1):2006 (EN-98) Dimensions Thickness Dev. Straightness (%) Dev. Rectangularity (%) Dev. max. Center curvature (%) Dev. max. Edge curvature (%) Dev. max. Corner warpage (%) Surface Quality	$\pm 0.20\%$ $\pm 4.0\%$ $\pm 0.15\%$ $\pm 0.15\%$ $\pm 0.22\%$ $\pm 0.22\%$ $\pm 0.22\%$ >95% free from visible defects.	Confirms Confirms Confirms Confirms Confirms Confirms Confirms Confirms.
	Water Absorption IS:13630(pt-2):2006 (EN-99)	E>10 %	Confirms.
	Modulus of Rupture [N/mm ²] IS: 13630(Pt-6): 2006 (EN-100)	Average > 15	Confirms.
	Scratch Hardness (Moh's scale) IS: 13630(Pt-13):2006 (EN-101)	Min.3	Confirms.
	Resistance to surface Abrasion of tiles IS: 13630(Pt-11): 2006 (EN-154)	Specified by the manufacturer	Not Applicable
	Coefficient of linear thermal expansion IS: 13630(Pt-4): 1992 (EN-103)	Max $9 \times 10^{-6} \text{ K}^{-1}$	Confirms.
	Thermal Shock Resistance IS:13630(Pt-5):2006(EN-104)	10 Cycle passed	Resistant
	Crazing Resistance IS: 13630(Pt-9):2006 (EN-105)	4 Cycles @ 7.5 bar	Confirms.
	Chemical Resistance IS:13630(Pt-8):2006 (EN-122) Resistance to staining of glazed tiles class 1-3 Resistance to household chemicals and Swimming pool water cleaners. Class AA-D Resistance to acids and alkalis (with the exception of hydrofluoric acid and its compounds) Class AA-D	Min Class 1 Min Class AA Required if agreed	Confirms. Confirms. Confirms.

Tested By



SOMANY CERAMICS LIMITED

Works : Kassar-124 507, Distt. Jhajjar, Bahadurgarh, Haryana, India. Tel : +91-1276-223300, 241001 to 05, Fax: +91-1276-241006 / 241011.
Corporate Office : F-36, Sector-6, Noida - 201 301, Telefax : +91-120-4627900 to 4627999, 4628000 to 4628099.
Registered Office : 82/19, Bhakerwara Road, Mundka, New Delhi-110 041, India. Tel : +91-11-28341085.
Corporate Identity Number (CIN) : L40200DL1968PLC005169

R 2008
20.02.17



IS:15622:2006
CM/L 9829610



Certificate/Technical Specification

SOMANY

Ref No. : SCL/QA/SFF/1880/16

Date-28.10.2016

ADANI TOWNSHIP & REAL ESTATE CO PVT LTD

Material : Glazed Floor Tiles: TRAVERTINO FORTE

Invoice No : 900427

Nominal Size : 300X600X10.0 mm

Group : Dust - Pressed tiles with Water absorption of $E > 10\%$ (Group B III)

*All characteristics tested are in compliance with Specification IS 15622:2006 (Superseding IS 13753:1993)

GRN-500 1699668

08/11/16

	Test Reference	Requirements	Results
	IS: 13630(Pt-1):2006 (EN-98) Dimensions Thickness Dev. Straightness (%) Dev. Rectangularity (%) Dev. max. Center curvature (%) Dev. max. Edge curvature (%) Dev. max. Corner warpage (%) Surface Quality	$\pm 0.20\%$ $\pm 4.0\%$ $\pm 0.15\%$ $\pm 0.15\%$ $\pm 0.22\%$ $\pm 0.22\%$ $\pm 0.22\%$ >95% free from visible defects.	Confirms Confirms Confirms Confirms Confirms Confirms Confirms Confirms.
	Water Absorption IS:13630(pt-2):2006 (EN-99)	$E > 10\%$	Confirms.
	Modulus of Rupture [N/mm ²] IS: 13630(Pt-6): 2006 (EN-100)	Average > 15	Confirms.
	Scratch Hardness (Moh's scale) IS: 13630(Pt-13):2006 (EN-101)	Min.3	Confirms.
	Resistance to surface Abrasion of tiles IS: 13630(Pt-11): 2006 (EN-154)	Specified by the manufacturer	Not Applicable
	Coefficient of linear thermal expansion IS: 13630(Pt-4): 1992 (EN-103)	Max $9 \times 10^{-6} K^{-1}$	Confirms.
	Thermal Shock Resistance IS:13630(Pt-5):2006(EN-104)	10 Cycle passed	Resistant
	Crazing Resistance IS: 13630(Pt-9):2006 (EN-105)	4 Cycles @ 7.5 bar	Confirms.
	Chemical Resistance IS:13630(Pt-8):2006 (EN-122) Resistance to staining of glazed tiles class 1 - 3 Resistance to household chemicals and Swimming pool water cleaners. Class AA-D Resistance to acids and alkalis (with the exception of hydrofluoric acid and its compounds) Class AA-D	Min Class 1 Min Class AA Required if agreed	Confirms. Confirms. Confirms.

Tested By

Received
08/11/16

Authorized Signatory
SOMANY CERAMICS LIMITED
(Assured Quality)

SOMANY CERAMICS LIMITED

Works : Kassar-124 507, Distt. Jhajjar, Bahadurgarh, Haryana, India. Tel : +91-1276-223300, 241001 to 05, Fax : +91-1276-241006 / 241011.

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Registered Office : 82/19, Bhakerwara Road, Mundka, New Delhi-110 041, India. Tel : +91-11-28341085.

Corporate Identity Number (CIN) : L40200DL1968PLC005169



IS:15622:2006
CML 9829610



CIRN- 5001678741
5001684935
24.09.16



Test Certificate/Technical Specification

Ref No. : SCL/QA/FTP/1587/16

Date-14.09.2016

ADANI TOWNSHIP & REAL ESTATE CO PVT LTD.

Material : Glazed Floor Tiles: EC ANDREA BIANCO

Invoice No : 900317 ~~2~~ 0248

Size : 300 mm X 300 mm X 7.3 mm

Group : Pressed tiles with Water absorption of $3\% < E \leq 6\%$ (Group B II)

All characteristics tested are in compliance with Specification IS 15622:2006 (Superseding IS 13755:1993)



	Test Reference	Requirements	Results
	IS: 13630(Pt-1) : 2006 (EN-98) Dimensions Thickness Dev. Straightness (%) Dev. Rectangularity (%) Dev. max. Center curvature (%) Dev. max. Edge curvature (%) Dev. max. warpage (%) Surface Quality	$\pm 0.10\%$ $\pm 5.0\%$ $\pm 0.1\%$ $\pm 0.1\%$ $\pm 0.5\%$ $\pm 0.5\%$ $\pm 0.5\%$ >95% free from visible defects.	Confirms Confirms Confirms Confirms Confirms Confirms Confirms Confirms
	Water Absorption IS:13630(pt-2):2006 (EN-99)	$3\% < E \leq 6\%$ Individual Max 6.2 %	Confirms
	Modulus of Rupture [N/mm ²] IS: 13630(Pt-6): 2006 (EN-100)	Average 30 Individual min 28	Confirms
	Abrasion Resistance IS: 13630(Pt-11): 2006 EN-154	Min-IV(Com), Min-II (Home)	Confirms
	Scratch Hardness (Moh's scale) IS: 13630(Pt-13):2006 (EN-101)	Min-7(Com), Min-5 (Home)	Confirms
	Coefficient of linear thermal expansion IS: 13630(Pt-4): 2006 (EN-103)	Max $9 \times 10^{-6} K^{-1}$	Confirms
	Thermal Shock Resistance IS:13630(Pt-5):2006 (EN-104)	Min 10 Cycles	Resistant
	Crazing Resistance IS: 13630(Pt-9):2006 (EN-105)	Min 4 Cycles	Confirms
	Chemical Resistance IS:13630(Pt-8):2006 (EN-122) Resistance to staining of glazed tiles class I - 3 Resistance to household chemicals and Swimming pool water cleaners. Class AA-D Resistance to acids and alkalis (with the exception of hydrofluoric acid and its compounds) Class AA-D	Min Class 1 Min Class AA Required if agreed	Confirms Confirms Confirms

Tested By

Authorized Signatory
(Asst Manager Quality)

SOMANY CERAMICS LIMITED

Works : Kassar-124 507, Distt. Jhajjar, Bahadurgarh, Haryana, India. Tel : +91-1276-223300, 241001 to 05, Fax : +91-1276-241006 / 241011.

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Registered Office : 82/19, Bhakerwara Road, Mundka, New Delhi-110 041, India. Tel : +91-11-28341085.

Corporate Identity Number (CIN) : L40200DL1968PLC005169



IS:15622:2006
GM/L 9829610



Test Certificate/Technical Specification

SOMANY

Ref No. : SCL/QA/FTP/1586/16
ADANI TOWNSHIP & REAL ESTATE CO PVT LTD.

Date-14.09.2016

Material : Glazed Floor Tiles: EC LAND BROWN

Invoice No : 900317

Size : 300 mm X 300 mm X 7.3 mm

Group : Pressed tiles with Water absorption of $3\% < E \leq 6\%$ (Group B II)

All characteristics tested are in compliance with Specification IS 15622:2006 (Superseding IS 13755:1993)

	Test Reference	Requirements	Results
	IS: 13630(Pt-1) : 2006 (EN-98) Dimensions Thickness Dev. Straightness (%) Dev. Rectangularity (%) Dev. max. Center curvature (%) Dev. max. Edge curvature (%) Dev. max. warpage (%) Surface Quality	$\pm 0.10\%$ $\pm 5.0\%$ $\pm 0.1\%$ $\pm 0.1\%$ $\pm 0.5\%$ $\pm 0.5\%$ $\pm 0.5\%$ >95% free from visible defects.	Confirms Confirms Confirms Confirms Confirms Confirms Confirms Confirms
	Water Absorption IS:13630(pt-2):2006 (EN-99)	$3\% < E \leq 6\%$ Individual Max 6.2 %	Confirms
	Modulus of Rupture [N/mm ²] IS: 13630(Pt-6): 2006 (EN-100)	Average 30 Individual min 28	Confirms
	Abrasion Resistance IS: 13630(Pt-11): 2006 EN-154	Min-IV(Com), Min-II (Home)	Confirms
	Scratch Hardness (Moh's scale) IS: 13630(Pt-13):2006 (EN-101)	Min-7(Com), Min-5 (Home)	Confirms
	Coefficient of linear thermal expansion IS: 13630(Pt-4): 2006 (EN-103)	Max $9 \times 10^{-6} K^{-1}$	Confirms
	Thermal Shock Resistance IS:13630(Pt-5):2006 (EN-104)	Min 10 Cycles	Resistant
	Crazing Resistance IS: 13630(Pt-9):2006 (EN-105)	Min 4 Cycles	Confirms
	Chemical Resistance IS:13630(Pt-8):2006 (EN-122) Resistance to staining of glazed tiles class 1 - 3 Resistance to household chemicals and Swimming pool water cleaners. Class AA-D Resistance to acids and alkalis (with the exception of hydrofluoric acid and its compounds) Class AA-D	Min Class I Min Class AA Required if agreed	Confirms Confirms Confirms

Tested By

Authorized Signatory
R. R. Mishra
(Asstt. Manager Quality)

SOMANY CERAMICS LIMITED

Works : Kassar-124 507, Distt. Jhajjar, Bahadurgarh, Haryana, India. Tel : +91-1276-223300, 241001 to 05, Fax : +91-1276-241006 / 241011.

Corporate Office : F-36, Sector-6, Noida - 201 301, Telefax : +91-120-4627900 to 4627999, 4628000 to 4628099.

Registered Office : 82/19, Bhakerwara Road, Mundka, New Delhi-110 041, India. Tel : +91-11-28341085.

Corporate Identity Number (CIN) : L40200DL1968PLC005169



CM/L 3841566

Test Certificate/Technical Specification

KUCH NAHIN BIGDEGA

Ref. : SCL/QA/SFF /1588/16

Date: 14.09.2016

ADANI TOWNSHIP & REAL ESTATE CO PVT LTD.

Material : Glazed Ceramic Wall Tiles: CASTILA BEIGE LIGHT

Invoice No : 0362

Nominal Size : 300X600X10.0 mm

Group : Dust - Pressed tiles with Water absorption of E> 10 % (Group B III)

All characteristics tested are in compliance with Specification IS 15622:2006 (Superseding IS 13753 :1993)

	Test Reference	Requirements	Results
	IS: 13630(Pt-1):2006 (EN-98) Dimensions(mm) Thickness Dev. Straightness (%) Dev. Rectangularity (%) Dev. max. Center curvature (%) Dev. max. Edge curvature (%) Dev. max. Corner warpage (%) Surface Quality	$\pm 0.20\%$ $\pm 4.0 \%$ $\pm 0.15\%$ $\pm 0.15\%$ $\pm 0.22\%$ $\pm 0.22\%$ $\pm 0.22\%$ >95% free from visible defects.	L-600.15-600.00 W-300.20-300.00 10.05 -9.75mm -0.25 - +0.40mm -0.20 - +0.45mm +0.35 - +0.60mm +0.40 - +0.73 mm +0.32 - +0.55 mm 99.00% free from visible defects
	Water Absorption IS:13630(pt-2):2006 (EN-99)	E>10 %	15.98
	i) Modulus of Rupture [N/mm ²] ii) Breaking Strength in N IS: 13630(Pt-6): 2006 (EN-100)	i) Average > 15 ii) Min 600	i) Min-21.33 ii) 658
	Scratch Hardness (Moh's scale) IS: 13630(Pt-13):2006 (EN-101)	Min.3	3 Pass
	Moisture Expansion IS: 13630(Pt-3): 2006	0.04	0.021
	Coefficient of linear thermal expansion IS: 13630(Pt-4): 1992 (EN-103)	Max $9 \times 10^{-6} \text{ K}^{-1}$	Max $8.4 \times 10^{-6} \text{ K}^{-1}$
	Thermal Shock Resistance IS:13630(Pt-5):2006(EN-104)	10 Cycle passed	10 Cycle passed
	Crazing Resistance IS: 13630(Pt-9):2006 (EN-105)	4 Cycles @ 7.5 bar	4 Cycle passed
	Chemical Resistance IS:13630(Pt-8):2006 (EN-122) Resistance to staining of glazed tiles class 1 - 3 Resistance to household chemicals and Swimming pool water cleaners. Class AA-D Resistance to acids and alkalis (with the exception of hydrofluoric acid and its compounds) Class AA-D	Min Class 1 Min Class AA Required if agreed	Class-1 Class-AA. Class-AA

Tested By
Gurudyal SinghAuthorized Signatory
(Asst. Manager Quality)**SOMANY CERAMICS LIMITED**

7 to 14, 4th Floor, Agrawal Mall, Opp. Sola Bhagwat Vidhyapeeth, S. G. Road, Sola, Ahmedabad - 380060.

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14, GIDC Industrial Estate, Kadi-382715. Gujarat Tel. : +91-02764-242153/154/630 Fax : +91-02764-263011

Registered Office: 82/19, Bhakerwara Road, Mundka, New Delhi- 110041, Tel: +91-11-28345049/4282

Visit us: www.somanyceramics.com

E-mail: marketing@somanyceramics.com

TOLL FREE NO. 1800-108-0004



IS : 15622



CM/L 3841566

Test Certificate/Technical Specification**SOMANY**

KUCH NAHIN BIGDEGA

Ref. : SCL/QA/SFF /1589/16

Date: 14.09.2016

ADANI TOWNSHIP & REAL ESTATE CO PVT LTD.

Material : Glazed Ceramic Wall Tiles: CASTILA BEIGE DARK

Invoice No : 0362

Nominal Size : 300X600X10.0 mm

Group : Dust - Pressed tiles with Water absorption of $E > 10\%$ (Group B III)

All characteristics tested are in compliance with Specification IS 15622:2006 (Superseding IS 13753:1993)

	Test Reference	Requirements	Results
	IS: 13630(Pt-1):2006 (EN-98) Dimensions(mm)	$\pm 0.20\%$	L-600.10-590.90 W-300.20-300.05
	Thickness	$\pm 4.0\%$	10.05 - 9.75mm
	Dev. Straightness (%)	$\pm 0.15\%$	-0.25 - +0.40mm
	Dev. Rectangularity (%)	$\pm 0.15\%$	-0.20 - +0.35mm
	Dev. max. Center curvature (%)	$\pm 0.22\%$	+0.35 - +0.60mm
	Dev. max. Edge curvature (%)	$\pm 0.22\%$	+0.40 - +0.73 mm
	Dev. max. Corner warpage (%)	$\pm 0.22\%$	+0.32 - +0.55 mm
	Surface Quality	>95% free from visible defects.	99.00% free from visible defects
	Water Absorption IS:13630(pt-2):2006 (EN-99)	$E > 10\%$	15.98
	i) Modulus of Rupture [N/mm ²] ii) Breaking Strength in N IS: 13630(Pt-6): 2006 (EN-100)	i) Average > 15 ii) Min 600	i) Min-21.33 ii) 658
	Scratch Hardness (Moh's scale) IS: 13630(Pt-13):2006 (EN-101)	Min.3	3 Pass
	Moisture Expansion IS: 13630(Pt-3): 2006	0.04	0.021
	Coefficient of linear thermal expansion IS: 13630(Pt-4): 1992 (EN-103)	Max $9 \times 10^{-6} K^{-1}$	Max $8.4 \times 10^{-6} K^{-1}$
	Thermal Shock Resistance IS:13630(Pt-5):2006(EN-104)	10 Cycle passed	10 Cycle passed
	Crazing Resistance IS: 13630(Pt-9):2006 (EN-105)	4 Cycles @ 7.5 bar	4 Cycle passed
	Chemical Resistance IS:13630(Pt-8):2006 (EN-122) Resistance to staining of glazed tiles class 1 - 3 Resistance to household chemicals and Swimming pool water cleaners. Class AA-D Resistance to acids and alkalis (with the exception of hydrofluoric acid and its compounds) Class AA-D	Min Class 1 Min Class AA Required if agreed	Class-1 Class-AA Class-AA

Tested By
Gurudyal SinghAuthorized Signatory
(Asst. Manager - Quality)**SOMANY CERAMICS LIMITED**

7 to 14, 4th Floor, Agrawal Mall, Opp. Sola Bhagwat Vidhyapeeth, S. G. Road, Sola, Ahmedabad - 380060.
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 14, GIDC Industrial Estate, Kadi-382715. Gujarat Tel. : +91-02764-242153/154/630 Fax : +91-02764-263011
 Registered Office: 82/19, Bhakerwara Road, Mundka, New Delhi- 110041, Tel: +91-11-28345049/4282

Website: www.somanyceramics.com

E-mail: marketing@somanyceramics.com

Toll Free No. 1-800-1030002

Test Certificate/Technical Specification

Ref. : SCL/QA/WT/158 Date: 19.08.2016
Material : Glazed Ceramic Wall Tiles
Design name : ARIAN BIANCO LIGHT, Batch No: 0899 Quality: Standard
Date of Mfg. : 17.07.2016
Nominal Size : 300X600X9.5 mm
Group : Dust - Pressed tiles with Water absorption of E > 10 % (Group B III)

All characteristics tested are in compliance with Specification IS 15622-2006 (Superseding IS 13753:1993)

	Test Reference	Requirements	Results
	IS: 13630(Pt-1):2006 (EN-98) Dimensions Thickness Dev. Straightness (%) Dev. Rectangularity (%) Dev. max. Center curvature (%) Dev. max. Edge curvature (%) Dev. max. Corner warpage (%) Surface Quality	$\pm 0.2\%$ $\pm 4.0\%$ $\pm 0.15\%$ $\pm 0.15\%$ $\pm 0.22\%$ $\pm 0.22\%$ $\pm 0.22\%$ >95% free from visible defects.	Confirms Confirms Confirms Confirms Confirms Confirms Confirms Confirms.
	Water Absorption IS:13630(pt-2):2006 (EN-99)	E>10.0%	Confirms.
	Modulus of Rupture [N/mm ²] IS: 13630(Pt-6): 2006 (EN-100)	Average 15 N/mm ²	Confirms.
	Breaking Strength (N) IS: 13630(Pt-6): 2006 (EN-100)	500 min	Confirm
	Moisture expansion, in mm/m	0.04 mm/m	Confirm
	Scratch Hardness (Moh's scale) IS: 13630(Pt-13):2006 (EN-101)	Min.3	Confirms.
	Coefficient of linear thermal expansion IS: 13630(Pt-4):1992 (EN-103)	Max $9 \times 10^{-6} \text{ K}^{-1}$	Confirms.
	Thermal Shock Resistance IS:13630(Pt-5):2006(EN-104)	10 Cycle passed	Resistant
	Crazing Resistance IS: 13630(Pt-9):2006 (EN-105)	4 Cycles @ 7.5 bar min	Confirms.
	Chemical Resistance IS:13630(Pt-8):2006 (EN-122) Resistance to staining of glazed tiles class 1 - 3 Resistance to household chemicals and Swimming pool water cleaners. Class AA-D Resistance to acids and alkalis (with the exception of hydrofluoric acid and its compounds) Class AA-D	Min Class 1 Min Class AA Min Class AA	Confirms. Confirms. Confirms.

Tested By

Authorized Signatory,

RAJESH KARMAKAR
SR. MANAGER QA

For

Received
19/8/16

SOMANY CERAMICS LIMITED

14, GIDC Industrial Estate, Kadi - 382 715. Gujarat Tel. : +91 - 02764 - 242153/154/630 Fax : +91 - 02764 - 263011 E-mail : adm.kadi@somanytiles.co.in
Ahmedabad Office : 7 to 14, 4th Floor, Agrawal Mall, Opp. Sola Bhagwat Vidhyapeeth, S. G. Road, Sola, Ahmedabad - 380060. Tel. : 079-66042500 to 599
Registered Office: 82/19, Bhakerwara Road, Mundka; New Delhi- 110041, Tel: +91-11-28345049/4282



CERN No: 500 1737 115.



Test Certificate/Technical Specification

Ref. : SCL/QA/PVT/D.C/2398
 Material : Polished vitrified tile.
 Invoice No. : 21618050903580, Invoice Date: 30.11.2016
 Design name : DACIA PEARL
 Nominal Size : 605X605X9.20mm.
 Group : Dust - Pressed tiles with Water absorption of $E \leq 0.08$ (Group B Ia)
 Quality: Premium

Date: 20.12.2016

All characteristics tested are in compliance with Specification IS 15622:2006 (Superseding IS 13753:1993) & ISO 13006.

Test Reference	Requirements	Results
 IS: 13630(Pt-1): 2006 (EN-98) Dimensions (Length & width) Thickness Dev. Straightness (%) Dev. Rectangularity (%) Dev. max. Center curvature (%) Dev. max. Edge curvature (%) Dev. max. warpage (%) Surface Quality	$\pm 0.10\%$ $\pm 4.0\%$ $\pm 0.1\%$ $\pm 0.1\%$ $\pm 0.2\%$ $\pm 0.2\%$ $\pm 0.2\%$ $>95\%$ free from visible defects.	Confirms Confirms Confirms Confirms Confirms Confirms Confirms
 Water Absorption IS: 13630(pt-2):2006 (EN-99)	Averages ≤ 0.08 , Individual Max 1.0	Confirms
 Modulus of Rupture [N/mm ²] ISO: 10545 Part-4 (EN-100) Breaking Strength (N)	Min.35, Individual Min.32	Confirms
 Deep Abrasion Resistance IS: 13630(Pt-12): 2006 EN-154	Not Less Than 1500 Max 100	Confirms
 Scratch Hardness (Moh's scale) IS: 13630(Pt-13):2006 (EN-101)	Min.-6	Confirms
Bulk density	Min. 2.2	Confirms
Coefficient of linear thermal expansion IS: 13630(Pt-4): 2006 (EN-103)	Max $6 \times 10^{-6} K^{-1}$	Confirms
 Thermal Shock Resistance IS: 13630(Pt-5):2006 (EN-104)	Min 10 Cycle Passed	Confirms
 Frost Resistance (EN-202) IS 13630:2006 part-10	Required	Confirms
Impact Resistance IS 13630:2006 Part 14	Test Method Available	Confirms
 Chemical Resistance IS: 13630(Pt-7):2006 (EN-122) Resistance to household chemicals and Swimming pool water cleaners. Class AA-D Resistance to acids and alkalis (with the exception of hydrofluoric acid and its compounds) Class AA-D	Min Class AA Required if agreed	Confirms Confirms

Tested By

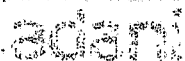
Authorized Signatory.

RAJESH KARMAKAR
 SR.MANAGER QA

Recieve.
 K.A. Chaudhary
 20/12/16.

SOMANY CERAMICS LIMITED

14, GIDC Industrial Estate, Kadi - 382 715. Gujarat Tel. : +91 - 02764 - 242153/154/630 Fax : +91 - 02764 - 263011 E-mail : adm.kadi@somanytiles.co.in
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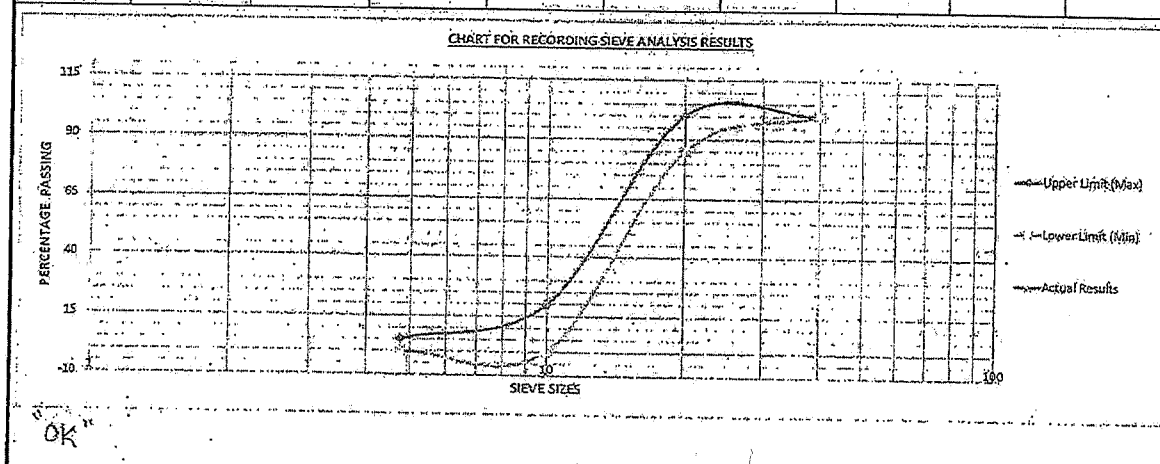
Adani Township & Real Estate Company Pvt. Ltd.
Gradation of Coarse Aggregate (20mm)

Shantigram

Format No. - QA/ATRECO/008 REV 0 (05-July-2011)

Name of Project :	Shantigram Township	Report No. :	ATRECO/PC/16000045
Description of work/Location :	RMC Plant	Date of Report :	19/1/16
Date of Sampling :	19/1/16	Sample ID. / Lab Request No. :	S-6562
Date of Testing :	19/1/16	Condition of material :	Over Dry / Air Dry
Name of Supplier :	-	Method of Sampling :	2480-1995
Source of Material :	-	Method of Testing :	2386 (P-1)
Vehicle No. :	-	Specification as per IS :	333 & 1607
Challan No. :	-	Size and Shape of Sieve Frame :	(300mm / 450mm / 200mm) Round
Sampled From :	RMC Plant Stock Pile	Sieving Medium :	Perforated Plate / Wire Cloth
Sampled by :	Kanishk	Shape of the Apertures :	Round hole / Square hole
Sample brought in by :	ATRECOPL	Method of Sieving :	Hand / Mechanical
Min Qty Required for Test : (As per IS 2386 (P-1))	2000 gm	Duration of Hand Sieving: (Not less than 2 minutes for each Sieve)	2 to 5 min.
Constant Weight of Oven dry Sample (gm) :	5000 gms.	Duration of Mechanical Sieving: (Not less than 10 minutes for each test)	-

IS Sieve Designation (mm)	Weight Retained (gm)	Maximum Weight to be Retained at the Completion of sieving (gm)		Cumulative weight retained (gm)	% Retained	% Passing	% Passing Limits As per IS: 383		Remarks
		450mm Dia Sieve	300mm Dia Sieve				Min	Max	
40	00	3000	3500	00	00	100	100	100	
20	980	4000	2000	980	15.6	84.4	35	100	
10	3710	2000	1000	4490	89.8	10.2	0	20	
4.75	470	1000	500	4960	99.2	0.8	0	5	
Pan									



Client (QC Dept.)	Date	Name	Signature	Client (Execution Dept.)	Name	Signature	Contractor	Name	Signature
Tested By	19/1/16	Kanishk	[Signature]	Witnessed By			Witnessed By		
Checked By	19/1/16	[Signature]	[Signature]						



Adani Township & Real Estate Company Pvt. Ltd.

Aggregate Impact Value

Shantigram

Format No. - QA/ATRECO/013 REV 0 (16 July 2014)

Name of Project :	Shantigram Township	Report No :	AtreCOPL/04/16000046
Description of work/Location :	RMC Plant	Date of Report :	20/1/16
Description of Materials:	20 mm Agg	Sample ID/Lab Request No :	S- 6562
Source of Material:	-	Condition of Material:	Oven Dry/Air Dry
Name of Supplier:	-	Method of Sampling:	As per IS : 2430-1995
Date of Sampling:	18/1/16	Test Method:	As per IS 2386(Part-4)-1963
Date of Testing:	20/1/16		
Vehicle No:	-		
Chalkan No:	-		
Sampled From :	RMC Stock Pile	Required Oven Temperature 100 to 110 °C: (for 4 hours)	110 °C
Sample By:	Kaushik		
Sample brought in by:	AtreCOPL		

Sr No	Description	Test-1	Test-2
1	Weight of Dry aggregate taken for the Test (in cup) A (gm)	348	340
2	Weight of Crushed Aggregate retained on 2.36 mm IS Sieve B (gm)	310	308
3	Weight of Crushed Aggregate passing on 2.36 mm IS Sieve C (gm)	38	32
4	Impact Value = (C/A) X 100	10.9	9.6
5	Average Impact Value = (Test 1 + Test 2)/2	10.2 %	

Remarks: "OK"

Acceptance Criteria for the Impact value of Aggregates (As per IS 383-1997):

a. It should not exceed 45% - For Aggregates used for Concrete.

b. It should not exceed 30% - For Aggregates used for concrete of Wearing Surfaces such as Roads, Runways & Pavements.

Client (QC Dept.)	Date	Name	Signature	Client (Ex. Dept.)	Name	Signature	Contractor	Name	Signature
Tested By	20/1/16	Kaushik	Kaushik	Witnessed By			Witnessed By		
Checked By	20/1/16	Smita	Smita						



Adani Township & Real Estate Company Pvt. Ltd.

Shantigram

Aggregate Crushing Value

Format No. - QA/ATREC/014 REV 0 (16 July 2011)

Name of Project :	Shantigram Township	Report No. :	ATREC/014/16000047
Description of work/Location :	RMC Plant	Date of Report :	20/1/16
Description of Materials:	20mm Agg.	Sample ID/Lab Request No. :	S-6562
Source of Material:	-	Condition of Material:	Oven Dry/Air Dry
Name of Suppliers:	-	Method of Sampling:	As per IS : 2430-1995
Date of Sampling:	18/1/16	Test Method:	As per IS 2386(Part-4)-1963
Date of Testing:	20/1/16		
Vehicle No. :	-		
Challan No. :	-		
Sampled From :	RMC Plant Stock Pile	Required Oven Temperature 100 to 110 °C (for 4 hours)	°C
Sample By:	Kanishk		
Sample brought in by:	ATREC/014		

Sr No.	Description	Test-1	Test-2
1	Weight of Dry aggregate taken for the Test (A)	2860	2890
2	Weight of aggregate retained on 2.36 mm IS Sieve (B) gm	242.2	2424
3	Crushing Value = $\frac{(A-B)}{A} \times 100$	15.3	16.1
4	Average Crushing Value	15.7 %	

Remarks:-

OK

Acceptance Criteria for the Impact value of Aggregates(As per IS 383-1997):-

a. It should not exceed 45% - For Aggregates used for Concrete.

b. It should not exceed 30% - For Aggregates used for concrete of Wearing Surfaces such as Roads, Runways & Pavements.

Client (QC Dept.)	Date	Name	Signature	Client (Ex. Dept.)	Name	Signature	Contractor	Name	Signature
Tested By	20/1/16	Kanishk	[Signature]	Witnessed By			Witnessed By		
Checked By	20/01/16	Kanishk	[Signature]						

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Adani Township & Real Estate Company Pvt. Ltd.

Shantigram

Flakiness & Elongation Index for the Aggregates

Format No:- QA/ATRECO/016 REV 0 (22 July 2011)

Name of Project :	Shantigram Township	Report No :	ATRECOPL/SC/16000048
Description of work/Location :	RMC Plant	Date of Report :	21/1/16
Description of Materials:	20 mm Agg.	Sample By:	Kaushik
Source of Material:	-	Sample brought in by:	ATRECOPL
Name of Supplier:	-	Sample ID/Lab Request No :	S-4562
Date of Sampling:	18/1/16	Condition of Material:	Oven Dry/Air Dry..
Date of Testing:	21/1/16	Method of Sampling:	As per IS:2430-1995
Vehicle No:	-	Test Method:	As per IS:2386(part I)-1963
Challan No:	-	Min Quantity of Sample is Required for Test:	200 pcs Required for each fraction for each test
Sampled From :	RMC Plant Stock Pile		

Flakiness Test Result						Elongation Test Result			
IS Sieves Size	Wts Retain on Sieves	No. of Test Pcs (Min 200 Pcs)	Wts Passing through Gauge	% of the Mass of the total number of pieces in each fraction X % (By Weight) $X = (B/A) * 100$	% of the total mass of the whole sample which is retained on 6.3 mm sieve Y % (By Weight) $Y = (A/EA) * 100$	FI = $(X+Y)/100$	Total Wts Retain on Each Sieve Fraction	Weight Retain on Length Gauge	EI = $(EJ/EI) * 100$
63-50									
50-40									
40-31.5									
31.5-25									
25-20	2240		213	9.51	36.78	3.50	2027	205	
20-16	1886		330	19.57	27.68	5.42	1356	223	
16-12.5	1124		315	28.02	18.45	5.17	809	186	
12.5-10	781		152	19.46	12.82	2.49	629	160	
10-6.3	260		40	15.38	4.27	0.66	220	66	
Total (EA)	6091		1050				5041	840	

Remarks:-

"ok"

FI = 17.24 %

EI = 16.66 %

Acceptance Criteria for the FI & EI Value of the Aggregates:- Flakiness Index is not greater than 25% is suggested for coarse Aggregates (as per SP-23, Clause no-2.2.2.2) & 35% maximum value of Flakiness Index as per (Morth, Section no-1007).

Client (QC. Dept)	Date	Name	Signature	Client (EX. Dept)	Name	Signature	Contractor	Name	Signature
Tested By	21/1/16	Kaushik	[Signature]	Witnessed By			Witnessed By		
Checked By	21/1/16	[Signature]	[Signature]						

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Adani Township & Real Estate Company Pvt. Ltd.
Specific Gravity & Water Absorption of Aggregates By Wire Basket Method

Shantigram

Format No. - QA/ATRECO/011-REV 0 (16 July 2011)

Name of Project :	Shantigram Township	Report No. :	ATRECOPL/OC/16000049
Description of Work/Location :	RMC Plant	Date of Report :	22/1/16
Description of Materials :	20 mm Agg.	Sample ID/Lab Request No. :	S-6562
Source of Material :	—	Condition of Material :	Ordn Dry/Air Dry
Name of Supplier :	—	Method of Sampling :	As per IS 2430-1995
Date of Sampling :	18/1/16	Test Method :	As per IS 2386 (Part 3)-1997
Date of Testing :	22/1/16	Temperature of Water to be used for the Test (21 to 32 °C)	29 °C
Vehicle No. :	—	Required Oven Temperature 100 ± 1 °C (for 24 ± 1/2 hours)	110 °C
Challan No. :	—		
Sampled From :	RMC Plant Stock Pile		
Sample By :	Kunishik		
Sample brought in by :	ATRECOPL		

Sr No.	Description	Test 1	Test 2	Limits as per IS 4326:2003 [Annex-B]
1	Weight of saturated surface dry (SSD) aggregate in Water (A) gm	1314	1410	The Tolerance for the Last four Results ± 0.04 .
2	Weight of saturated surface dry (SSD) Sample in air (B) gm	2093	2144	
3	Weight of Oven dry Sample in Air (C) gm	1983	2123	
4	Specific Gravity = $C/(B-A)$	2.878	2.892	
5	Mean Specific Gravity = $(\text{Test 1} + \text{Test 2})/2$	2.885		
6	Apparent Specific Gravity = $C/(C-A)$	2.964	2.978	
7	Mean Apparent Specific Gravity = $(\text{Test 1} + \text{Test 2})/2$	2.971		
8	Absorption (%) = $100 \times (B-C) / C$	1.01	0.99	
Remarks: 4.0%				

Remarks: OK

Client (QC Dept.)	Date	Name	Signature	Client (Ext Dept.)	Name	Signature	Contractor	Name	Signature
Tested By	22/1/16	Kunishik	[Signature]	Witnessed By			Witnessed By		
Checked By	22/1/16	[Signature]	[Signature]						



Adani Township & Real Estate Company Pvt. Ltd.

Bulk Density & Voids of Aggregates

Shantigram

Format No. - QA/ATRECO/015 REV 0 (21 July 2011)

Name of Project :	Shantigram Township	Report No :	ATRECOPL QC / 16000050
Description of work/Location :	RMC Plant	Date of Report :	23/1/16
Description of Materials :	20mm Agg	Sample ID/Lab Request No :	S-6562
Source of Material :	—	Condition of Material :	Oven Dry/Saturated & Surface Dry/Percentage of Moisture
Name of Supplier :	—	Method of Sampling :	As per IS:2430-1995
Date of Sampling :	18/1/16	Test Method :	As per IS:2386 (part-3)-1997
Date of Testing :	23/1/16	Specific Gravity Of Aggregate (G_s) :	—
Vehicle No :	—	Required Oven Temperature 100 to 110 °C: (for 24 ± 1/2 hours)	110 °C
Challan No :	—	Identification of Cylindrical Metal Measure :	15 Ltr
Sampled From :	RMC Plant stock pile		
Sample By :	Kanishk		
Sample brought in by :	ATRECOPL		

Sr No.	Description	Test-1	Test-2	Test-3
A.	Density of Rodded or Compacted Aggregates :-			
1	Weight of Empty Cylindrical Metal Measure	←	8679	→
2	Volume of Cylindrical Metal Measure (A)	←	14729	→
3	Weight of Cylindrical Metal Measure + Rodded or Compacted Aggregates	31790	31895	31680
4	Net Weight of Rodded or Compacted Aggregates (B)	23091	23216	23001
5	Bulk Density (γ) in kg/litre = (B/A)	1.568	1.576	1.562
6	Average Bulk Density (γ_{avg}) in kg/litre		1.569	
7	Percentage of Voids = $G_s - \gamma_{avg} / G_s$			
B.	Density of Loose Aggregates :-			
1	Weight of Empty Cylindrical Metal Measure	←	8679	→
2	Volume of Cylindrical Metal Measure (A)	←	14729	→
3	Weight of Cylindrical Metal Measure + Loose Aggregates	30296	30561	30395
4	Net Weight of Loose Aggregates (B)	21617	21882	21816
5	Bulk Density (γ) in kg/litre = (B/A)	1.468	1.486	1.474
6	Average Bulk Density (γ_{avg}) in kg/litre		1.476	
7	Percentage of Voids = $G_s - \gamma_{avg} / G_s$			

Remarks:-

Client (QC Dept.)	Date	Name	Signature	Client (Ex. Dept.)	Name	Signature	Contractor	Name	Signature
Tested By	23/1/16	Kanishk	[Signature]	Witnessed By			Witnessed By		
Checked By	23/1/16	[Signature]	[Signature]						



Adani Township & Real Estate Company Pvt. Ltd.
Gradation of Coarse Aggregate (20mm)

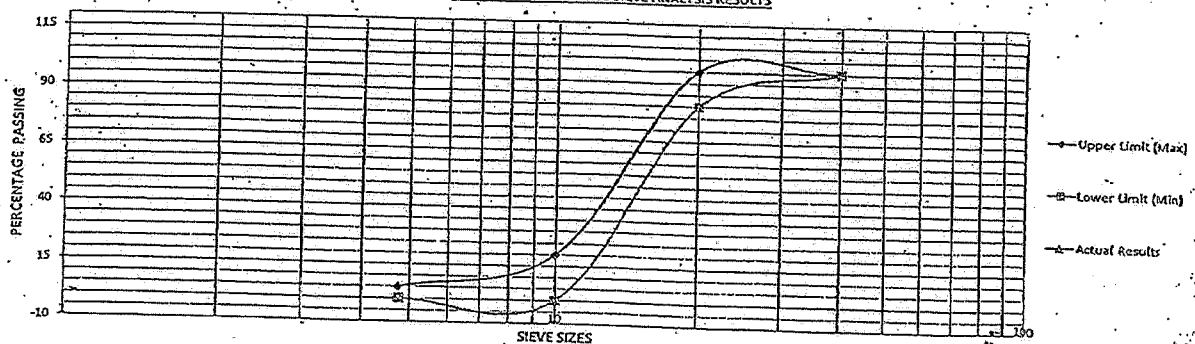
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THE GOOD LIFE

Format No. - QA/ATRS/REC/008 REV 0 (05-July)

Name of Project :	Shantigram Township	Report No. :	AtrecoPL/OC/16000772
Description of work/Location :	RMC work	Date of Report :	9/8/16
Date of Sampling :	9/8/16	Sample ID / Lab Request No. :	S-7129
Date of Testing :	9/8/16	Condition of material :	Oven Dry / Air Dry
Name of Supplier :	-	Method of Sampling :	2430-1995
Source of Material :	-	Method of Testing :	2386 (P-1)
Vehicle No. :	-	Specification as per IS :	383 & 1607
Challan No. :	-	Size and Shape of Sieve Frame :	(300mm / 450mm / 200mm) Round
Sampled From :	RMC Plant stock pile	Sieving Medium :	Perforated Plate / Wire Cloth
Sampled by :	Kanishk	Shape of the Apertures :	Round hole / Square holes
Sample brought in by :	AtrecoPL	Method of Sieving :	Hand / Mechanical
Qty Required for Test : As per IS 2386 (P-1)	3000 gm	Duration of Hand Sieving: (Not less than 2 minutes for each sieve)	2 to 5 min.
Constant Weight of Oven dry Sample (gm) :	5000 gms.	Duration of Mechanical Sieving: (Not less than 10 minutes for each test)	-

IS Sieve Designation (mm)	Weight Retained (gm)	Maximum Weight to be Retained at the Completion of sieving (gm)		Cumulative weight retained (gm)	% Retained	% Passing	% Passing Limits As per IS : 383		Remarks
		450mm Dia Sieve	300mm Dia Sieve				Min	Max	
40	00	8000	3500	00	00	100	100	100	
20	640	4000	2000	640	12.8	87.2	85	100	
10	3740	2000	1000	4380	87.6	12.4	0	20	
4.75	590	1000	500	4970	99.4	0.6	0	5	
Pan									

CHART FOR RECORDING SIEVE ANALYSIS RESULTS



OK

Client (QC Dept.)	Date	Name	Signature	Client (Execution Dept.)	Name	Signature	Contractor	Name	Signature
Tested By	9/8/16	Kanishk	[Signature]	Witnessed By			Witnessed By		
Checked By	9/8/16	VINAY	[Signature]						

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Adani Township & Real Estate Company Pvt. Ltd.

Flakiness & Elongation Index for the Aggregates

Shantigram
THE GOOD LIFE

Format No:- QA/ATRECO/016 REV 0 (22 July 2011)

Name of Project :	Shantigram Township	Report No :	ATRECOPL/DC/16000773
Description of work/Location :	RMC Work	Date of Report :	11/8/16
Description of Materials:	20 mm Agg.	Sample By:	Kaushik
Source of Material:	-	Sample brought in by:	ATRECOPL
Name of Supplier:	-	Sample ID/Lab Request No :	S-7129
Date of Sampling:	9/8/16	Condition of Material:	Oven Dry/Air Dry
Date of Testing:	11/8/16	Method of Sampling:	As per IS:2430-19-95
Vehicle No:	-	Test Method:	As per IS:2386(part-1)-1963
Challan No:	-	Min Quantity of Sample is Required for Test:	200 pcs Required for each fraction for each test
Sampled From :	RMC Plant Stock Pile		

Flakiness Test Result

Elongation Test Result

IS Sieves Size	Wts Retain on Sieves	No. of Test Pcs (Min 200 Pcs)	Wts Passing through Gauge	% of the Mass of the total number of pieces in each fraction X % (By Weight)	% of the total mass of the whole sample which is retained on 6.3 mm sieve Y % (By Weight)	F.I = (X*Y)/100	Total Wts Retain on Each Sieve Fraction	Weight Retain on Length Gauge	E.I = ((ΣJ/ΣI) * 100)
	A.		B.	X = (B/A) * 100	Y = (A/ΣA) * 100		I	J	
63-50									
50-40									
40-31.5									
31.5-25									
25-20	2842		239	8.41	43.53	3.66	2603	212	
20-16	1623		265	16.33	24.86	4.06	1358	245	
16-12.5	1168		231	19.78	17.89	3.54	937	197	
12.5-10	610		140	22.95	9.34	2.14	490	152	
10-6.3	286		49	17.13	4.38	0.75	237	76	
Total (ΣA)	6529		924				ΣI = 5605	ΣJ = 882	

Remarks:-

"OK"

$$FI = 14.15 \%$$

$$EI = 15.74 \%$$

Acceptance Criteria for the FI & EI Value of the Aggregates:- Flakiness Index is not greater than 25% is suggested for coarse Aggregates (as per SP-23, Clause no-2.2.2.2) & 35% maximum value of Flakiness Index as per (Morth, Section no-1007).

Client (QC Dept)	Date	Name	Signature	Client (EX. Dept)	Name	Signature	Contractor	Name	Signature
Tested By	11/8/16	Kaushik	Kaushik	Witnessed By			Witnessed By		
Checked By	11-8-16	VINAY	AC						

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Adani Township & Real Estate Company Pvt. Ltd.

Aggregate Impact Value

Shantigram

Format No. - QA/ATRECO/013 REV 0 (16 July 2011)

Name of Project :	Shantigram Township	Report No. :	ATRECOPL/OC/16000774
Description of work/Location :	RMC WORK	Date of Report :	12/8/16
Description of Materials:	20mm Agg.	Sample ID/Lab Request No. :	S-7129
Source of Material:	-	Condition of Material:	Oven Dry/Air Dry
Name of Supplier:	-	Method of Sampling:	As per IS : 2430-1995
Date of Sampling:	3/8/16	Test Method:	As per IS 2386(Part-4)-1963
Date of Testing:	12/8/16		
Vehicle No:	-		
Challan No:	-		
Sampled From :	RMC Plant stock pile	Required Oven Temperature 100 to 110 ° C: (for 4 hours)	110° C
Sample By:	Kareshik		
Sample brought in by:	ATRECOPL		

Sr No	Description	Test-1	Test-2
1	Weight of Dry aggregate taken for the Test (in cup) A (gm)	346	340
2	Weight of Crushed Aggregate retained on 2.36 mm IS Sieve B (gm)	308	300
3	Weight of Crushed Aggregate passing on 2.36 mm IS Sieve C (gm)	38	40
4	Impact Value = (C/A) X 100	11.0	11.8
5	Average Impact Value = (Test 1 + Test 2) / 2	11.4 %	

Remarks: "OK"

Acceptance Criteria for the Impact value of Aggregates (As per IS 383-1997):-

a. It should not exceed 45% - For Aggregates used for Concrete.

b. It should not exceed 50% - For Aggregates used for concrete of Wearing Surfaces such as Roads, Runways & Pavements.

Client (QC Dept.)	Date	Name	Signature	Client (Ex. Dept.)	Name	Signature	Contractor	Name	Signature
Tested By	12/8/16	Kareshik	[Signature]	Witnessed By			Witnessed By		
Checked By	12.8.16	VINAY	[Signature]						

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Adani Township & Real Estate Company Pvt. Ltd.

Shantigram

Aggregate Crushing Value

Format No. - QA/ATRECO/014 REV 0 (156 July 2011)

Name of Project :	Shantigram Township	Report No :	ATRECOPL/OC/16-000775
Description of work/Location :	RMC Plant	Date of Report :	12/8/16
Description of Materials:	20mm Agg	Sample ID/Lab Request No :	S-7129
Source of Material:	—	Condition of Material:	Oven Dry/Air Dry
Name of Supplier:	—	Method of Sampling:	As per IS : 2430-1995
Date of Sampling:	9/8/16	Test Method:	As per IS 2386(Part-4)-1963
Date of Testing:	12/8/16	Required Oven Temperature 100 to 110 °C: (for 4 hours)	110 °C
Vehicle No:	—		
Challan No:	—		
Sampled From :	RMC Plant Stock Pile		
Sample By:	Kaushik		
Sample brought in by:	ATRECOPL		

Sr No.	Description	Test-1	Test-2
1	Weight of Dry aggregate taken for the Test (A) gm	2850	2872
2	Weight of aggregate retained on 2.36 mm IS Sieve (B) gm	2404	2420
3	Crushing Value = (A-B)/A X 100	15.6	15.7
4	Average Crushing Value	15.7	15.7

Remarks:-

OK

Acceptance Criteria for the Impact value of Aggregates(As per IS 383-1997):-

a. It should not exceed 45% - For Aggregates used for Concrete.

b. It should not exceed 30% - For Aggregates used for concrete of Wearing Surfaces such as Roads, Runways & Pavements.

Client (QC Dept.)	Date	Name	Signature	Client (Ex. Dept.)	Name	Signature	Contractor	Name	Signature
Tested By	12/8/16	Kaushik	Kaushik	Witnessed By			Witnessed By		
Checked By	12.8.16	VINAY	VINAY						

adani

Adani Township & Real Estate Company Pvt. Ltd.

Specific Gravity & Water Absorption of Aggregates By Wire Basket Method

Shantigram

Format No. - QA/ATRECO/011 REV 00 (16 July 2011)

Name of Project :	Shantigram Township	Report No :	ATRECO/PC/16000776
Description of work/Location :	RMC Work	Date of Report :	13/8/16
Description of Materials:	20mm Agg	Sample ID/Lab Request No :	S-9129
Source of Material:	—	Condition of Material:	Oven Dry/Air Dry
Name of Supplier:	—	Method of Sampling:	As per IS:2430-1995
Date of Sampling:	9/8/16	Test Method:	As per IS:2386 (part-3)-1997
Date of Testing:	13/8/16	Temperature of Water to be used for the Test: (22 to 32 °C)	28°C
Vehicle No:	—	Required Oven Temperature 100 to 110 °C: (for 24 ± 1/2 hours)	110°C
Challan No:	—		
Sampled From :	RMC Plant Stock Pile		
Sample By:	Koushik		
Sample brought in by:	ATRECOPL		

Sr No.	Description	Test-1	Test-2	Limits as per IS 4926:2003 [Annex-B]
1	Weight of saturated surface dry (SSD) aggregate in Water (A) gm	1529	1340	The Tolerance for the Last four Results ± 0.04
2	Weight of saturated surface dry (SSD) Sample in air (B) gm	2338	2035	
3	Weight of Oven dry Sample in Air (C) gm	2314	2016	
4	Specific Gravity = $C / (B - A)$	2.86	2.90	
5	Mean Specific Gravity = (Test 1+Test 2)/2	2.88		
6	Apparent Specific Gravity = $C / (C - A)$	2.95	2.98	
7	Mean Apparent Specific Gravity = (Test 1+Test 2)/2	2.965		
8	Absorption (%) = $100 \times (B-C) / C$	1.04	0.94	

Remarks: OK

Client (QC Dept.)	Date	Name	Signature	Client (Ex. Dept.)	Name	Signature	Contractor	Name	Signature
Tested By	13/8/16	Koushik	[Signature]	Witnessed By			Witnessed By		
Checked By	13.8.16	VINAY	[Signature]						



Adani Township & Real Estate Company Pvt. Ltd.
Gradation of Fine Aggregate, Finer than 75 μ & Moisture Content

Shantigram
THE CO-OP LIFE

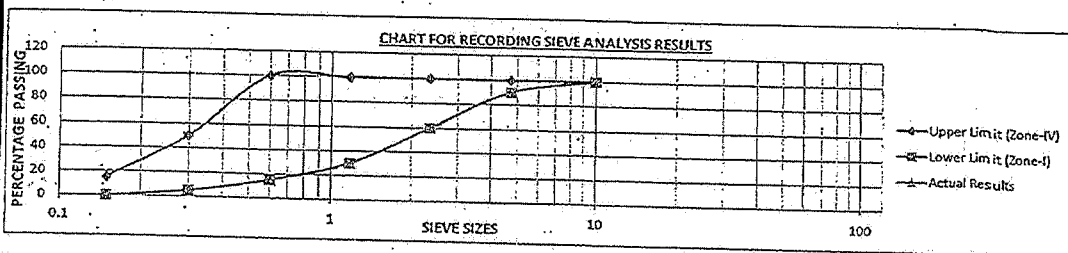
Format No. - QA/ATRECO/010 REV 0 (05-July-2011)

Name of Project :	Shantigram Township	Report No. :	ATRECOPL/0016000782
Description of work/Location :	RMC WORK	Date of Report :	10/8/16
Date of Sampling :	9/8/16	Sample ID. / Lab Request No. :	S-7131
Date of Testing :	10/8/16	Condition of material :	Oven Dry / Air Dry
Name of Supplier :	-	Method of Sampling :	2430-1995
Source of Material :	-	Method of Testing :	2386 (P-1)
Vehicle No. :	-	Specification as per IS :	383 & 1607
Challan No. :	-	Size and Shape of Sieve Frame :	(300mm / 450mm / 200mm) Round
Sampled From :	RMC Plant Stock Pile	Sieving Medium :	Perforated Plate / Wro. Cloth
Sampled by :	Kaushik	Shape of the Apertures :	Round hole / Square hole
Sample brought in by :	ATRECOPL	Method of Sieving :	Hand / Mechanical
Min Qty Required for Test : (As per IS 2386 (P-1))	200 gm	Duration of Hand Sieving: (Not less than 2 minutes for each Sieve)	2 to 3 mins
Constant Weight of Oven dry Sample (gm) :	1000 gms	Duration of Mechanical Sieving: (Not less than 10 minutes for each test)	-

IS Sieve Size (mm)	Weight Retained (gm)	Maximum Weight to be Retained at the Completion of sieving (gm)	Cumulative weight retained (gm)	Cumulative Percentage Retained	Percentage Passing	Percentage Passing Limits As per IS :383			
		200mm Dia Sieve				Zone-I	Zone-II	Zone-III	Zone-IV
10	00	Not Specified	00	00	100	100	100	100	100
4.75	46	Not Specified	46	4.6	95.4	90-100	90-100	90-100	95-100
2.36	46	200	92	9.2	90.8	60-95	75-100	85-100	95-100
1.18	178	100	270	27.0	73.0	30-70	55-90	75-100	90-100
0.6	163	75	433	43.3	56.7	15-34	35-59	60-79	80-100
0.3	468	50	901	90.1	9.9	5-20	8-30	12-40	15-60
0.15	94	40	995	99.5	0.5	0-10	0-10	0-10	0-15
Pan	-	-	-	-	-	-	-	-	-

Total Cumulative Percentage Retained =

FM = Total Cumulative Percentage Retained / 100



Finer than 75 μ									
Weight of Oven dry sample taken A (gm)			Weight of material retained on 75 micron sieve after washing B (gm)			Passing through 75 μ (%) = (A-B)/A x 100			
Moisture Content									
Weight of sample taken for the test A (gm)			Weight of oven dry material after 24 hours B (gm)			Moisture content (%) = (A-B)/B x 100			
Remarks : "OK"									
Client (QC Dept.)	Date	Name	Signature	Client (Execution Dept.)	Name	Signature	Contractor	Name	Signature
Tested By	10/8/16	Kaushik	[Signature]	Witnessed By			Witnessed By		
Checked By	10.8.16	VINAY	[Signature]						

adani

Adani Township & Real Estate Company Pvt. Ltd.

Shantigram

Specific Gravity & Water Absorption of Aggregates By Pycnometer Method

Format No. - QA/ATRECO/012 REV 0 (16 July 2014)

Name of Project :	Shantigram Township	Report No. :	ATRECOPL QC 1600078-3
Description of Work/Location :	RMC work	Date of Report :	13/8/16
Description of Materials:	Sand	Sample ID/Lab Request No. :	S-9130
Source of Material:	-	Condition of Material:	Oven Dry/Air Dry
Name of Supplier:	-	Method of Sampling:	As per IS:2430-1995
Date of Sampling:	9/8/16	Method of Testing:	As per IS:2386 (part-3)-1997
Date of Testing:	13/8/16	Temperature of Water to be used for the Test: (22 to 32 °C)	28°C
Vehicle No:	-	Required Oven Temperature 100 to 110 °C: (for 24 ± 1/2 hours)	110°C
Challan No:	-		
Sampled From :	RMC Plant Stock pile		
Sample By:	Kamshik		
Sample brought in by:	ATRECOPL		

Sr No.	Description	Test-1	Test-2	Limits as per IS 4926:2003 [Annex B]
	Pycnometer No			
1	Weight of Saturated Surface Dry(SSD) Sample in air (A) gm	604	622	The Tolerance for the Last four Results ± 0.04
2	Weight of Pycnometer filled with SSD Sample & Water (B) gm	2004	2014	
3	Weight of Pycnometer filled with Water.(C)gm	1621	1621	
4	Weight of Oven Dry Sample in Air (D) gm	594	611	
5	Specific Gravity = $D/(A-(B-C))$	2.688	2.668	
6	Mean Specific Gravity = (Test 1+Test 2)/2	2.678		
7	Apparent Specific Gravity = $D/(D-(B-C))$	2.815	2.803	
8	Mean Apparent Sp.Gravity = (Test 1+Test 2)/2	2.809		
9	Absorption = $100 \times (A-D)/D$	1.684	1.80	

Remarks:- "OK"

Client (QC Dept.)	Date	Name	Signature	Client (Ex. Dept.)	Name	Signature	Contractor	Name	Signature
Tested By	13/8/16	Kamshik	[Signature]						
Checked By	13.8.16	VDAY	[Signature]	Witnessed By			Witnessed By		

edani

Adani Township & Real Estate Company Pvt. Ltd.
Gradation of Fine Aggregate, Finer than 75 μ & Moisture Content

Shantigram

Format No. - QA/ATRECO/010 REV 0 (05-July-2011)

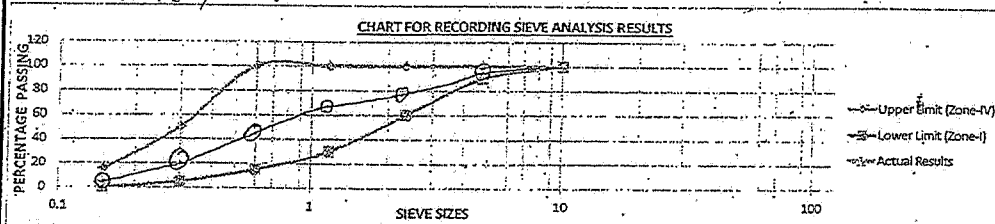
Name of Project :	Shantigram Township	Report No. :	ATRECO/01/16000162
Description of work/Location :	RMC Work	Date of Report :	22/02/2016
Date of Sampling :	22/02/2016	Sample ID. / Lab Request No. :	5-6651
Date of Testing :	22/02/2016	Condition of material :	Over Dry / Air Dry
Name of Supplier :	—	Method of Sampling :	2430-1995
Source of Material :	—	Method of Testing :	2386 (P-1)
Vehicle No. :	—	Specification as per IS :	383 & 1607
Challan No. :	—	Size and Shape of Sieve Frame :	(300mm / 450mm / 200mm) Round
Sampled From :	RMC Stock Pile	Sieving Medium :	Perforated Plate / Wire Cloth
Sampled by :	Vinayak Borkar	Shape of the Apertures :	Round hole / Square hole
Sample brought in by :	ATRECOPL	Method of Sieving :	Hand / Mechanical
Min Qty Required for Test : (As per IS 2386 (P-1))	200 gm	Duration of Hand Sieving: (Not less than 2 minutes for each Sieve)	2 to 5 min
Constant Weight of Oven dry Sample (gm) :	1000 gms	Duration of Mechanical Sieving: (Not less than 10 minutes for each test)	—

IS Sieve Size (mm)	Weight Retained (gm)	Maximum Weight to be Retained at the Completion of sieving (gm)	Cumulative weight retained (gm)	Cumulative Percentage Retained	Percentage Passing	Percentage Passing Limits As per IS :383			
		200mm Dia Sieve				Zone-I	Zone-II	Zone-III	Zone-IV
10	0	Not Specified	0	0	100	100	100	100	100
4.75	68	Not Specified	68	6.8	93.2	90-100	90-100	90-100	95-100
2.36	146	200	214	21.4	78.6	60-95	75-100	85-100	95-100
1.18	152	100	366	36.6	63.4	30-70	55-90	75-100	90-100
0.6	206	75	572	57.2	42.8	15-34	35-59	60-79	80-100
0.3	222	50	794	79.4	20.6	5-20	8-30	12-40	15-50
0.15	152	40	946	94.6	5.4	0-10	0-10	0-10	0-15
Pan									

Total Cumulative Percentage Retained = 276

FM = Total Cumulative Percentage Retained / 100

= 27.6 %



Finer than 75 μ

Weight of Oven dry sample taken A (gm)	Weight of material retained on 75 micron sieve after washing B (gm)	Passing through 75 μ (%) = (A-B)/A $\times$ 100
—	—	—

Moisture Content

Weight of sample taken for the test A (gm)	Weight of oven dry material after 24 hours B (gm)	Moisture content (%) = (A-B)/B $\times$ 100
—	—	—

Remarks : "OK"

Client (QC Dept.)	Date	Name	Signature	Client (Execution Dept.)	Name	Signature	Contractor	Name	Signature
Tested By	22/02/16	Vinayak	[Signature]	Witnessed By			Witnessed By		
Checked By	23/2/16	[Signature]	[Signature]						

adani

Adani Township & Real Estate Company Pvt. Ltd.

Shantigram

Specific Gravity & Water Absorption of Aggregates By Pycnometer Method

Format No. - QA/ATRECO/012 REV 0 (16 July 2011)

Name of Project :	Shantigram Township	Report No. :	ATRECO/012/16000163
Description of work/Location :	RMC Work	Date of Report :	25/02/16
Description of Materials:	Sand	Sample ID/Lab Request No. :	S-6651
Source of Material:	—	Condition of Material:	Oven Dry/Air Dry
Name of Supplier:	—	Method of Sampling:	As per IS:2430-1995
Date of Sampling:	22/02/16	Method of Testing:	As per IS:2386 (part-3)-1997
Date of Testing:	25/02/16	Temperature of Water to be used for the Test: (22 to 32 °C)	29.2°C
Vehicle No:	—		
Challan No:	—		
Sampled From :	RMC Stock Pile	Required Oven Temperature 100 to 110 °C: (for 24 ± 1/2 hours)	110°C
Sample By:	Vinayak Borkar		
Sample brought in by:	ATRECOPL		

Sr.No.	Description	Test-1	Test-2	Limits as per IS 4926:2003 [Annex B]
	Pycnometer No			The Tolerance for the Last four Results ± 0.04
1	Weight of Saturated Surface Dry(SSD) Sample in air (A) gm	564	608	
2	Weight of Pycnometer filled with SSD Sample & Water (B) gm	1975	2001	
3	Weight of Pycnometer filled with Water (C)gm	1619	1619	
4	Weight of Oven Dry Sample in Air (D) gm	554	598	
5	Specific Gravity = $D/(A-(B-C))$	2.663	2.646	
6	Mean Specific Gravity = $(\text{Test 1}+\text{Test 2})/2$	2.655		
7	Apparent Specific Gravity = $D/(D-(B-C))$	2.800	2.768	
8	Mean Apparent Sp.Gravity = $(\text{Test 1}+\text{Test 2})/2$	2.784		
9	Absorption = $100 \times (A-D)/D$	1.81	1.68	

Remarks: "OK"

Client (QC Dept.)	Date	Name	Signature	Client (Ex.Dept.)	Name	Signature	Contractor	Name	Signature
Tested By	25/02/16	Vinayak	<i>[Signature]</i>						
Checked By	25/2/16	Swami	<i>[Signature]</i>	Witnessed By			Witnessed By		

S. No.: 079/D1078/0001107

CUSTOMER COPY

Warranty Certificate

For Faucets, Flushing Systems, Sanitaryware, Wellness, Shower Enclosures & Geysers

Dear Customer,

Congratulations! You have bought a world-class product. Jaquar, the leader in the Indian bath fitting industry has always emphasised on Quality, Reliability and Service. The key philosophy of the Company is to provide consumers more value for their money.

The very reason why Jaquar believes that its products must make Friends, not just customers.

Our customer-centric approach manifests in many ways. The technical standards being followed by Jaquar are unique. All Jaquar ranges conform to BS-EN-200 standards (the ultimate in European standards). All the raw material used conform to International standards. Jaquar has the largest pre-sales and after-sales network with 26 regional centres, 21 Orientation Centres, over 2000 dealers, 2701 production people, a sales & marketing force of 316 professionals, 174 support staff, 473 customer care professionals and more.

Although the specifications used make our products work for a much-much longer period, the followup of the Maintenance Guidelines will enhance the life of the product further. We thank you once again & wishing you a very pleasant experience.

Details of Jaquar Product Range purchased:

No. of rooms	Faucets	Flushing Systems	Sanitaryware	Wellness	Shower Enclosures	Geysers
Bathroom 1	Essee					
Bathroom 2	Astra					
Bathroom 3	STF					
Bathroom 4	Conti					
Bathroom 5						
Kitchen						

Customer Details :

M/s/Mr./Ms.: Adani Township & Real Estate Co Pvt Ltd
 Site Address: A1200 House, CBD Shantigram, SA Road
 Site No.: Shreyas Patel Telephone No.: 9099055169
 E-mail: _____

Issued by :

Seller/Dealer Name: OCHRAVLAL GORDHANDAS SHAH
 Address: 1, Upper Level, Gopal Palace, Opp. Ocean Park, Satellite Rd., Ahmedabad
 Contact No.: 9824256608, 9824321688 E-mail: _____
 Invoice No.: BT/823
 Invoice Value: Rs 1526913.00
 Date of Invoice: 07/03/2017

We make this Warranty in order to convince you that Team JAQUAR is dedicated to Proactive Service Management "Priority No.1 - Quality and Customer Satisfaction"

Jaquar

experience bathing

Warranty Certificate

For Faucets, Flushing Systems, Sanitaryware, Wellness, Shower Enclosures & Geysers

Warranty Description	Business Division	Business Entity	Name of the Jaquar Products or parts	Warranty Period
Warranty against failure arising through faulty designs material or workmanship as mentioned below from the date of purchase, subject to certain terms and conditions specified in this warranty certificate.	Faucets	Jaquar and Company Pvt. Limited	• Jaquar Faucets	10 Years
			• Artise Faucets	10 Years
	Faucets	Esco Sanitations	• Sensor Faucets	10 Years
			• Electronic/Electrical Assembly for Sensor Faucets	5 Years
	Faucets	Esco Sanitations	• Battery for Sensor Faucets	5 Years
			• ESSCO Faucets	NIL
	Flushing Systems	Jaquar and Company Pvt. Limited	• Flush Valve	10 Years
			• Concealed Cistern	7 Years
	Flushing Systems	Jaquar and Company Pvt. Limited	• Sensor based Flushing System Body	10 Years
			• Electronic/Electrical Assembly for Flushing System	5 Years
	Flushing Systems	Jaquar and Company Pvt. Ltd.	• Battery for Sensor based Flushing System Body	NIL
			• Jaquar Idealform Bath Tubs & Whirlpools	3 Years
	Wellness	Jaquar and Company Pvt. Limited (Trading Division)	• Glass Bath Tub, Whirlpools & Combi System	3 Years
			• Glass Bath Tub, Whirlpool & Combi System Electronic & Electrical Component	2 Years
	Wellness	Jaquar and Company Pvt. Limited (Trading Division)	• My SPA	3 Years
			• My SPA Electronic & Electrical Component	2 Years
	Wellness	Jaquar and Company Pvt. Limited (Trading Division)	• Shower Panel	5 Years
			• Steam Cabin	5 Years
	Wellness	Jaquar and Company Pvt. Limited (Trading Division)	• Jaquar Artise Bath Tubs & Whirlpools	5 Years
			• Steam Cabin Electronic & Electrical Component	2 Years
	Geysers	Jaquar and Company Pvt. Limited (Trading Division)	• Tank (EWJ/CEWHR SERIES)	7 Years
			• Tank EWP Series only	5 Years
	Geysers	Jaquar and Company Pvt. Limited (Trading Division)	• Glass lined Heating Elements (EWJ/CEWHR SERIES)	2 Y
			• Incoley Elements EWP Series only	2 Y
	Sanitaryware	Jaquar and Company Pvt. Limited (Trading Division)	• Parts other than Tank, Heating Element and Incoley Elements	2 Years
			• Built Sanitary Appliances (Water closet, Washbasin, Cistern, Pedestal, Ur, Bidet, Urinal)	10 Years
	Shower Enclosures	Jaquar and Company Pvt. Ltd.	• Water Seal Gasket of the fill valve	2 Years
			• Water Seal Gasket of the flush valve	2 Years
	Shower Enclosures	Jaquar and Co. Pvt. Ltd. (Trading Division)	• Seal-cover hinge assembly that provides self-close action	2 Years
			• Jaquar Glass Enclosures	5 Years
	Shower Enclosures	Jaquar and Co. Pvt. Ltd. (Trading Division)	• Glass Enclosures (Jaquar Breuer)	5 Years

MAINTENANCE GUIDELINES FOR JAQUAR PRODUCTS:

Kindly follow the guidelines mentioned below to give you the best results and to maintain the finishes and longevity of the product.

- Clean the product with water-soaked soft towel or bathing soap solution once in a day or two to keep the plated surface clean and free from any deposits.
- Don't use any type of cleaning/detergent agents which contain acids or chemicals such as flush cleaner, Harpic etc.
- Don't use salt or vinegar-based cleaning agents to remove scale or scale-related stains. They may damage the surface or finish of your Jaquar products.
- Special colour combination products should not be rubbed by Emery paper/cleaning powder. This can cause abrasion.

You need to protect your product from:

- 1) **Water Scaling:** Due to presence of minerals and salt in water, scaling is formed on the product if it is not cleaned regularly. The products should be cleaned gently at regular intervals. Also take extra care to clean the edges and corners of the products because these areas are more vulnerable for scale settling. Clean the aerators from time to time for a perfect foam flow of water from the fittings.
The property of water being used is very important for your plumbing installations (Pipes etc.), as well as for your own hygiene. The hardness of water should not exceed 300-400ppm.
- 2) **Acid Fumes:** When we clean the tiles or floors in the bathroom with cleaning agents which contain acids or chemicals, acid fumes are formed. Because the basic material used in the products is brass, brass being an alloy of copper reacts with these acid fumes. With this reaction, a green colour layer is formed on the products resulting in damage to the outer finish or coating.
- 3) **Scratching while cleaning:** Scratching or scrubbing occurs due to hard nature of cloth or coarse cleaning powder being used for cleaning. Use a gentle fluffy soft cloth for cleaning the surface.
- 4) **Atmospheric conditions:** This condition applies mostly to salt content in the air in coastal areas, sometime the air reacts with brass and black spots emerge on the surface of product. Therefore the product is required to be cleaned regularly. At the time of installation of these products, cover the products with the cloth covers provided in packaging or with polythene till the time you actually start using them.

JAQUAR VALUE ADDED SERVICES

- We offer pre/post installation guidance for Jaquar products.
- As proactive service we offer Preventive Maintenance Contract (PMC). PMC is peace of mind for monthly check-ups and maintenance of Jaquar products at a nominal price.
- To maintain sheen and shine of Nickel/Chrome surface of the product we offer GLITZ, a cleaning agent for this purpose.

You may kindly contact us for service assistance, by our customer care team at: 1800 121 6808 (Toll Free)

Branch Address: **Jaquar & Company Pvt. Ltd.**, Solitaire Corporate Park, Block B, 301, 302, 303, 3rd Floor, B-1, Divya Bhaskar, Makarba, S.G. Highway, Ahmedabad.
Jaquar & Company Pvt. Ltd., 21, Siddhi Shopping Centre, Opp. Uthav Party Plot, Nr. Agrasen Bhawan Chor Rosta, City Light Road, Surat.

Jaquar

experience bathing