

TEST REPORT

CIN - U74990MH2010PTC201958

Issued To: **GREEN TECH**
623, AREJA CORNER, SECTOR-17,
VASHI,

MUMBAI-400705

Kind Attn.: MR. KISHORE HIRANI
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Report No.: 170125013/1701250035

Dated: 11-Feb-2017

DOB: 25-Jan-2017

Sample Description: GGBS SAMPLE (SOURCE: VADRAJ CEMENT LTD, SURAT G
GBS)

Customer Ref. No: MAIL DT.: 25.01.17

ID-1701250035

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Date of Start: 01/01/2017

Date of Completion: 11/02/2017

GGBS

S. No.	Test	Results	Requirements As per IS 12089 - 1987
1	Magnesium Oxide (as MgO), % by mass	7.14	17.0 Max
2	Sulphide Sulphur*, % by mass	0.18	2.0 Max
3	Calcium Oxide (as CaO), % by mass	35.22	-
4	Silica (as SiO ₂), % by mass	33.80	-
5	Alumina (as Al ₂ O ₃), % by mass	10.24	-
6	(CaO+MgO+1/3 Al ₂ O ₃) SiO ₂ +2/3 Al ₂ O ₃	1.13	≥ 1.0
7	Insoluble Residue, % by mass	0.85	5.0 Max
8	Glass Content*, % by mass	86.34	85.0 Min
9	Specific Surface Area (Fineness)*, m ² /kg	507.12	-
10	Moisture, % by mass	0.21	-
11	Chloride (as Cl)*, % by mass	0.015	-
12	Soundness (Lechatelier Expansion)*, mm	1.06	-
13	Initial Setting Time*, Minutes	160	-
14	Final Setting Time*, Minutes	240	-
15	Retention on 45 μ IS Sieve*, % by mass	15.23	-
16	Specific Gravity*	2.85	-
17	Density*, gm/cc	1.05	-

* Not under our NABL scope.

TEST METHOD: IS: 12089 - 1987/4032/BS 6699-1995/ IS: 1727-1967(RA: 2008)

-----END OF REPORT-----



COREQD11RA0001A6870

CHEMICAL : T-2372

Analyst



Signature

R 10069

NABL Accredited & ISO 9001:2008 Certified Laboratory

Subject to Terms & Conditions Overleaf.



**BUREAU
VERITAS**

Ref: BVIPL:GGBS:BL/1340/2/2017
Test Order dated: 15.02.2017

Date: 20.03.2017

M/s Green Tech
#623, Arenja Corner, Sector 17,
Vashi, Navi Mumbai - 400 705.

**FINAL PHYSICAL TEST REPORT ON GGBFS
(GROUND GRANULATED BLAST FURNACE SLAG)**

Source of sample for testing : Sample supplied by the customer
Customer's reference : Letter dated 15.04.2017
UIN : 17004418
Project* : Not Furnished
Source* : Eagle Business Services, Tumkur.
Period of Test : 17.02.2017 to 17.03.2017
Condition of sample : Satisfactory

Test Conducted	Test Results	Test Method
Specific Gravity	2.82	IS: 1727 - 1967
Fineness - Specific surface in m ² /kg by Blaine's permeability method	385	IS: 1727 - 1967
Comparative compressive strength, % \$, 7 day 28 day	57.5 67.0	--
Residue on 45 micron sieve, %	11.2	IS: 1727 - 1967
Compressive strength (MPa) \$ 7 day 28 day	26.0 41.0	IS: 4031 (Part 4 & 6) - 1988

\$ 70% GGBFS and 30% OPC 53 grade. (The proportion of GGBFS : Cement chosen as per the maximum permissible replacement of GGBFS allowed in IS: 455 - 2015.)

* As furnished by the customer

- Note:**
1. The results relate only to the items tested.
 2. Report shall not be reproduced except in full, without the written approval of the lab.
 3. Any corrections invalidate this report.

**for BUREAU VERITAS (INDIA) PRIVATE LIMITED
Construction Services Laboratory**

Shikhi

23/3/2017

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