



# ARC TESTING LABORATORY

NABL ACCREDITED & ISO:9001:2008 CERTIFIED LABORATORY

Kh.No.- 42/9/4, Village - Badli, Near Aastha Hospital, New Delhi - 110042

Phone: 011-64642265, 9818555221, 9599221236

Email:- arctestlab@gmail.com, website:- www.arctestlab.com

## TEST REPORT

**Issued To:** Assistant Engineer-III/ C-10  
DUSIB, Inderlok, Near Metro Station,  
New Delhi

**Report No.:** 022117ATL1732  
**Job Order No.:** ATL-1732  
**Ref. No.:** D-35/AE-III/EE C-10/DUSIB/2016-17  
**Sample Received On:** 21/02/2017  
**Period of Testing:** 21/02/2017-25/02/2017  
**Date of Report:** 27/02/2017

**Sample Name** : Construction Water  
**Sample Quantity** : 2 Ltr.  
**Sample Condition** : Good (Packed in Pet Bottle)  
**Name of Work** : JSC Pay & Use. (SH:- Upgradation & renovation of JSC at Mandir Marg, Manak Pura, Karol Bagh AC-23 (Project ID 000007398))  
**Name of Agency** : M/S. Bharat Building Construction Co.

S. No.	Test	Test-Method	Result	Requirement as per IS: 456:2000 RA 2005	Conformity
1	0.02N NaOH required to Neutralize 100 ml sample using Phenolphthalein indicator, ml.	IS 3025 (P-22)-1986 Reaff.: 2009	0.3	5 Max	Yes
2	0.02N H <sub>2</sub> SO <sub>4</sub> required to Neutralize 100 ml sample using Mixed indicator, ml.	IS 3025 (P-23)-1986 Reaff.: 2009	12.5	25 Max	Yes
3	Chloride as Cl, mg/l	IS 3025 (P-32)-1988 Reaff.: 2009	197.9	500/2000 Max. R.C.C/C.C	Yes
4	Sulphate as SO <sub>3</sub> mg/l	IS 3025 (P-24)-1986 Reaff.: 2009	214.2	400 Max.	Yes
5	Organic Solid, mg/l	IS: 3025(P-18)-1984 Reaff.: 2012	102	200 Max.	Yes
6	Inorganic Solid, mg/l	IS: 3025(P-18)-1984 Reaff.: 2012	827	3000 Max	Yes
7	Total Suspended Solids. mg/l	IS: 3025(P-17)-1984 Reaff.: 2012	26	2000 Max.	Yes
8.	pH	IS 3025 (P-11)-1983 Reaff.: 2009	7.38	Not less than 6.0	Yes

\*In case of construction water the retaining period will be 15 days from the date of issue of certificate.

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Lab Incharge

  
Authorised Signatory

- (1) The result listed refer only to tested sample and applicable parameters. Endorsement of product is neither inferred nor Implied.
- (2) Total liability of our lab is limited of the invoiced amount.
- (3) Sample will be destroyed after 90 days from date of test report unless otherwise specified.
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## TEST REPORT

**Issued To:** Assistant Engineer-III/C-10  
DUSIB, Inderlok, Near Metro Station,  
New Delhi

**Report No.:** BD- 210217007  
**Job Order No.:** BD-2102007  
**Ref. No.:** D-37/AE-III/EE C-10/DUSIB/2016-17  
**Letter Dt:** 21/02/2017  
**Sample Received On:** 21/02/2017  
**Period of Testing:** 21/02/2017-01/03/2017  
**Date of Report:** 02/03/2017

**Sample Name** : Ceramic Glazed Wall Tile (300x200mm)  
**Sample Quantity** : 24 Pcs.  
**Sample Condition** : Good (Packed in Carton Box)  
**Name of Work** : JSC Pay & Use. (SH:- Upgradation & renovation of JSC at Mandir Marg, Manak Pura, Karol Bagh AC-23.  
(Project ID 000007398))  
**Name of Agency** : M/s. Bharat Building Construction Co.

<u>S. No.</u>	<u>Test</u>	<u>Test Method</u>	<u>Result</u>	<u>Requirement</u> <b>IS 15622:2006</b> <b>Group B-III</b>	<u>Conformity</u>
1	Water Absorption, % by mass	IS. 13630(p.2):2006	12.9	≥10%When the value Exceed 20% This Shall be indicate by the Manufacture	Yes
2	Modulus of Rapture N/mm <sup>2</sup>	IS. 13630(p.6):2006	13.5	Avg: 12 for thickness < 7.5mm Avg: 15 for thickness ≥7.5mm	Yes
3	Scratch Hardness of surface(Mohs)	IS. 13630(p.13):2006	4	3Min	Yes
4.	Thermal Shock Resistance (10 Cycle Min)	IS.13630(p.5):2006	Passes the test	Pass Std.	Yes
5	Crazing Resistance 4 Cycle @7.5bar, Min	IS.13630 (p.9):2006	Passes the test	Pass Std.	Yes
<b>Chemical Properties</b>					
(i)	Resistance to Staining	IS. 13630 (p.8):2006	Class I	Class 1,Min	Yes
(ii)	Resistance to house hold chemicals and swimming Pool Water Cleansers Except to Cleansing Agents Containing hydrofluoric acid and its Components	IS. 13630(p.8):2006	Class AA	Class AA Min	Yes

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## TEST REPORT

**Issued To:** Assistant Engineer-III/ C-10  
DUSIB, Inderlok, Near Metro Station,  
New Delhi

**Report No.:** BD-210217009

**Job Order No.:** BD-2102009

**Ref. No.:** D-36/AE-III/EE C-10/DUSIB/16-17

**Letter Dt. :** 21/02/2017

**Sample Received On:** 21/02/2017

**Period of Testing:** 21/02/2017-03/03/2017

**Date of Report:** 04/03/2017

**Sample Name** : Cement OPC-43 Grade

**Sample Quantity** : 1 Bag

**Sample Condition** : Good (Packed in PVC Bag)

**Name of Work** : JSC Pay & Use. (SH:- Upgradation & renovation of JSC at Mandir Marg, Manak Pura, Karol Bagh AC-23. (Project ID 000007398))

**Name of Agency** : M/s. Bharat Building Construction Co.

S. No.	Test	Test Method	Result	Requirement As Per IS : 269 – 2015 Gr – 43	Conformity
(A)	<b>Physical Characteristics</b>				
1.	Fineness, m <sup>2</sup> /Kg	IS: 4031 (P-2): 1999 Reaff:2009	280.5	225 Min.	Yes
2.	Soundness				
a.	Le-Chatelier Expansion, mm	IS: 4031 (P-3): 1988, Reaff:2013	1.5	10 Max.	Yes
b.	Autoclave Expansion, %	IS: 4031 (P-3): 1988, Reaff:2013	0.15	0.8 Max.	Yes
3.	Setting Time, Minutes				
a.	Initial	IS: 4031 (P-5): 1988, Reaff:2013	130	30 Min.	Yes
b.	Final	IS: 4031 (P-5): 1988 Reaff:2013	225	600 Max.	Yes
4.	Compressive Strength, MPa				
a.	72 ± 1 hour	IS: 4031 (P-6): 1988 Reaff:2013	29.0	23 Min.	Yes
b.	168 ± 2 hours	IS: 4031 (P-6): 1988Reaff:2013	38.0	33 Min.	Yes
c.	672 ± 4 hours	IS: 4031 (P-6): 1988Reaff:2013	Awaited	43-58	--
5.	Consistency %	IS: 4031 (P-4): 1988Reaff:2013	28.0	--	--
(B)	<b>Chemical Characteristics</b>				
1.	Ratio of % age of lime to % age of SiO <sub>2</sub> , Al <sub>2</sub> O <sub>3</sub> & Fe <sub>2</sub> O <sub>3</sub>	IS:4032:1985Reaff:2010	0.90	0.66-1.02	Yes
2.	Ratio of % age of Alumina to that of Iron Oxide	IS:4032:1985Reaff:2010	1.13	0.66 Min.	Yes
3.	Insoluble Residue, % by mass	IS:4032:1985Reaff:2010	2.86	5.0 Max.	Yes
4.	Magnesia, (as MgO) % by mass	IS:4032:1985Reaff:2010	2.50	6.0 Max.	Yes
5.	Total sulphur Content (as SO <sub>3</sub> ), % by mass	IS:4032:1985Reaff:2010	1.97	3.5 Max.	Yes
6.	Loss on Ignition, % by mass	IS:4032:1985Reaff:2010	3.22	5.0 Max.	Yes
7.	Chloride % by mass	IS:4032:1985Reaff:2010	0.067	0.1 Max. 0.05 Max. (for Prestressed Structures)	Yes

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*B. Nayak*  
Lab Incharge

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Authorised Signatory  
DELHI

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