



# 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:- arctestng.lab@gmail.com, website:- www.arctestnglab.com

## TEST REPORT

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

**Report No.:** BD-210217002  
**Job Order No.:** BD-2102002  
**Ref. No.:** D-27/AE-III/EE C-10/DUSIB/16-17  
**Letter Dt. :** 21/02/2017  
**Sample Received On:** 21/02/2017  
**Period of Testing:** 21/02/2017-02/03/2017  
**Date of Report:** 03/03/2017

**Sample Name** : Cement OPC-43 Grade  
**Sample Quantity** : 1 Bag  
**Sample Condition** : Good (Packed in PVC Bag)  
**Name of Work** : JSC Pay & Use. (SH:- Up-gradation & renovation of JSC (33 seater) at Bapa Nagar, Military Road, Karol Bagh, AC-23. (Project ID 000007553))  
**Name of Agency** : M/s. Mohd. Firoz Khan.

<u>S. No.</u>	<u>Test</u>	<u>Test Method</u>	<u>Result</u>	<u>Requirement</u> <u>As Per IS : 269 – 2015</u> <u>Gr – 43</u>	<u>Conformity</u>
<b>(A) <u>Physical Characteristics</u></b>					
1.	Fineness, m <sup>2</sup> /Kg	IS: 4031 (P-2): 1999 Reaff:2009	284.2	225 Min.	Yes
2.	Soundness				
a.	Le-Chatelier Expansion, mm	IS: 4031 (P-3): 1988, Reaff:2013	1.0	10 Max.	Yes
b.	Autoclave Expansion, %	IS: 4031 (P-3): 1988, Reaff:2013	0.14	0.8 Max.	Yes
3.	Setting Time, Minutes				
a.	Initial	IS: 4031 (P-5): 1988, Reaff:2013	120	30 Min.	Yes
b.	Final	IS: 4031 (P-5): 1988 Reaff:2013	220	600 Max.	Yes
4.	Compressive Strength, MPa				
a.	72 ± 1 hour	IS: 4031 (P-6): 1988 Reaff:2013	29.5	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	28.5	--	--
<b>(B) <u>Chemical Characteristics</u></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	0.87	0.66-1.02	Yes
2.	Ratio of % age of Alumina to that of Iron Oxide	IS:4032:1985Reaff:2010	1.08	0.66 Min.	Yes
3.	Insoluble Residue, % by mass	IS:4032:1985Reaff:2010	2.85	5.0 Max.	Yes
4.	Magnesia, (as MgO) % by mass	IS:4032:1985Reaff:2010	2.26	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	3.46	5.0 Max.	Yes
7.	Chloride % by mass	IS:4032:1985Reaff:2010	0.041	0.1 Max. 0.05 Max. (for Prestressed Structures)	Yes

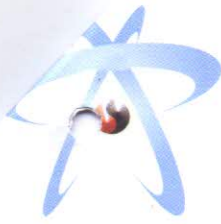
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*B. Nayak*  
Lab Incharge

ARC TESTING LABORATORY  
Authorised Signatory  
DELHI

- (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.
- (4) This report not be reproduced wholly or in part and cannot be used as an evidence in the court of law and should not be used in any advertising media our special permission in writing .
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## TEST REPORT

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

**Report No.:** BD- 210217005  
**Job Order No.:** BD-2102005  
**Ref. No.:** D-28/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:- Up-gradation & renovation of JSC (33 seater) at Bapa Nagar, Military Road, Karol Bagh, AC-23. (Project ID 000007553))

**Name of Agency** : M/s. Mohd. Firoz Khan.

<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	12.0	≥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	15.3	Avg: 12 for thickness < 7.5mm Avg: 15 for thickness ≥7.5mm	Yes
3	Scratch Hardness of surface(Mohs)	IS. 13630(p.13):2006	5	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

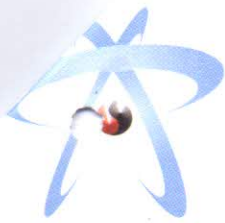
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Authorised Signatory

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## TEST REPORT

**Issued To:** Assistant Engineer-III/C-10  
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**Report No.:** BD-210217012  
**Job Order No.:** BD-2102012  
**Ref. No.:** D-26/AE-III/EE C-10/DUSIB/2016-17  
**Letter Dt. :** 21/02/2017  
**Sample Received On:** 21/02/2017  
**Period of Testing:** 21/02/2017-25/02/2017  
**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:- Up-gradation & renovation of JSC (33 seater) at Bapa Nagar, Military Road, Karol Bagh, AC-23. (Project ID 000007553))  
**Name of Agency** : M/s. Mohd. Firoz Khan.

<u>S. No.</u>	<u>Test</u>	<u>Test-Method</u>	<u>Result</u>	<u>Requirement</u> <u>IS:456:2000,</u> <u>RA 2005</u>	<u>Conformity</u>
1	0.02N NaOH required to Neutralize 100 ml sample using Phenolphthalein indicator, ml	IS 3025 (P-22)-1986, Reaff: 2009	0.6	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	12.0	25 Max	Yes
3	Chloride as Cl, mg/l	IS 3025 (P-32)-1988, Reaff: 2009	195.9	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	209.4	400 Max.	Yes
5	Organic Solid, mg/l	IS: 3025(P-18)-1984, Reaff: 2012	97	200 Max.	Yes
6	Inorganic Solid, mg/l	IS: 3025(P-18)-1984, Reaff: 2012	747	3000 Max	Yes
7	Total Suspended Solids. mg/l	IS: 3025(P-17)-1984, Reaff: 2012	31	2000 Max.	Yes
8.	pH	IS 3025 (P-11)-1983 Reaff: 2009	7.23	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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