

## 33 GRADE OPC-BOKAJAN CEMENT SAMPLE TESTED AS PER IS:269-2015

S.NO.	TEST	REQUIREMENT	NTH GUWAHATI (JAN-MARCH' 2017)	BKO LAB (SEPT.' 2017)
Compressive strength MPa				
(a)	3 days	16 (Min.)	24.8	19.7
(b)	7 days	22 (Min.)	32.8	25.7
(c)	28 days	33 (Min.) 48 (Max.)	39.8	37.3
Setting time (Minutes)				
(a)	Initial	30 Minutes (min.)	90	90
(b)	Final	600 Minutes (max.)	215	160
3.	Fineness- Sq.M/Kg.	225 (Min.)	300	325
Soundness				
(a)	Le-Chatelier (mm)	10.0 (max)	1.3	2.0
(b)	Autoclave (%)	0.8 (max)	0.07	0.16

## 43 GRADE OPC-BOKAJAN CEMENT SAMPLE TESTED AS PER IS:269-2015

S.NO.	TEST	REQUIREMENT	NTH GUWAHATI (JAN-MARCH' 2017)	BOKAJAN LAB (MARCH' 2017)
Compressive strength MPa				
(a)	3 days	23 (Min.)	29.6	25.7
(b)	7 days	33 (Min.)	36.8	36.0
(c)	28 days	43 (Min.) 58(Max.)	48.2	45.7
Setting time (Minutes)				
(a)	Initial	30 Minutes (min.)	165	85
(b)	Final	600 Minutes (max.)	255	155
3.	Fineness- Sq.M/Kg.	225 (Min.)	289.5	356
4. Soundness				
(a)	Le-Chatelier (mm)	10.0 (max)	1.0	2.0
(b)	Autoclave (%)	0.8 (max)	0.01	0.18

## 43, 53 &amp; 53S GRADE OPC-TANDUR CEMENT SAMPLE TESTED AS PER IS:269-2015

S.N O.	TEST	REQUIREMENT	NCBM HYDERABAD 43 GRADE (NOV.' 2016)	NCBM HYDERABAD 53 GRADE (JAN.' 2017)	NCBM HYDERABAD 53S GRADE (DEC.' 2016)
		43 GR 53 GR 53-S GR			
Compressive strength MPa					
(a)	3 days	23 27 27 (Min.)	36.5	34.5	45.0
(b)	7 days	33 37 37.5 (Min.)	51.0	49.0	54.0
(c)	28 days	43 53 53 (Min.) 58(Max.)	57.0	64.5	67.5
2. Setting time (Minutes)					
(a)	Initial	30 30 60 Minutes (min.)	215	160	120
(b)	Final	600 600 600 Minutes (max.)	230	300	135
3.	Fineness- Sq.M/Kg.	225 225 370 (Min.)	324	283	415
4. Soundness					
(a)	LeChatelier (mm)	10.0 10.0 5.0 (max)	1.0	1.0	1.0
(b)	Autoclave(%)	0.8 0.8 0.8 (max)	0.27	0.12	0.07

43 GRADE & PPC-RAJBAN CEMENT SAMPLE TESTED AS PER IS:269-2015 AND IS:1489 (Part-1) 2015

S.NO.	TEST	REQUIREMENT PPC	TEST RESULT (JULY-.2017)	REQUIREMENT 43 Gr. OPC	TEST RESULT (JULY.2017)
Compressive strength MPa					
(a)	3 days	72 + 1h 160 (Min.)	183	230 (Min.)	280
(b)	7 days	168 + 2h 220 (Min.)	275	330 (Min.)	385
(c)	28 days	672 + 4h 330 (Min.)	380	430 (Min.)	490
Setting time (Minutes)					
(a)	Initial	30 Minutes (min.)	82	30(Min.)	77
(b)	Final	600 Minutes (max.)	138	600 (Max.)	142
3.	Specific Surface cm <sup>2</sup> /gm	3000 (Min)	3348	2250 (Min.)	3241
4. Soundness Expansion by.					
(a)	Le-Chatelier (mm)	10.0 (max)	2.00	10.0 (Max.)	2.00
(b)	Autoclave (%)	0.80 (max)	0.17	0.80 (Max.)	0.12