



# ACC

Doc.no.: WD/LAB/FM/07

## Wadi Cement Work Ordinary Portland Cement 43 grade

Week No. 47 (18.11.2016 to 24.11.2016)

Sl.no.	Characteristics	Unit	Actual	IS 8112 :2013 specified requirement
1	<b>Chemical characteristics</b>			
	Magnesia (MgO)	%	0.9	Max. 6.0
	Sulphuric anhydride (SO <sub>3</sub> )	%	2.7	Max. 3.5
	Chloride (Cl <sup>-</sup> )	%	0.023	1. Max. 0.1 for structures other than prestressed concrete 2. Max. 0.05 for Prestressed concrete structures
	Insoluble Residue (IR)	%	0.8	Max. 4.0
	Loss on Ignition	%	1.9	Max. 5.0
	Lime Saturation Factor (LSF)		0.89	0.66 to 1.02
	Tri Calcium Aluminate (C <sub>3</sub> A)	%	6.63	-
2	<b>Physical characteristics</b>			
	Fineness (by Blaine method)	m <sup>2</sup> /kg	281	Min. 225
	(a) Le chatelier method	mm	1.0	Max. 10
	(b) Autoclave test method	%	0.09	Max. 0.8
	<b>Setting time</b>			
	(a) Initial Setting Time (IST)	Minutes	130	Min. 30
	(b) Final Setting Time (FST)	Minutes	190	Max. 600
	<b>Compressive Strength</b>			
	(a) 3-days	MPa	32.7	23
	(b) 7-days	MPa	42.9	33
	(c) 28-days	MPa	Awaited	43 to 58
	Normal consistency	%	27.5	-
	Temperature during Testing	°C	27+/-2	27+/-2

Head Quality Assurance