

ABOUT JSW CEMENT

JSW Cement is a part of USD 12 billion JSW Group. Its rapid growth has been led by Mr. Parth Jindal M.D. JSW Cement, whose multi-pronged approach to the business placed JSW Cement as the youngest among the top 10 cement companies of India, with a capacity of 14 MTPA. JSW entered the Cement market in 2009 with a vision to ensure a sustainable future for the country by producing eco-friendly cement, with its steadfast commitment to business values, sustainability norms, and quality has already carved out its niche in the cement industry. Its plants at Vijayanagar in Karnataka, Nandyal in Andhra Pradesh, Dolvi in Maharashtra, Salboni in West Bengal, Jajpur in Odisha to produce environment-friendly green cement. Which helps to reduce the carbon footprint and ensures optimal utilization of natural resources. Apart from this, the company has a listed subsidiary named Shiva Cement Ltd., in Odisha and a wholly-owned overseas subsidiary JSW Cement FZE, UAE.

JSW Cement produces Portland Slag Cement (PSC), Concreel HD (CHD), Ordinary Portland Cement (OPC), Comp Cem (Composite Cement - PCC), Ground Granulated Blast Furnace Slag (GGBS), Screened Slag and Portland Pozzolana Cement (PPC) With these green products re-affirms groups commitment towards the preservation of natural resources and sustainable construction

ORDINARY PORTLAND CEMENT



JSW Cement is manufacturing high quality Ordinary Portland Cement (OPC 43 & OPC 53) conforming to IS:269-2015.

JSW OPC:

Ordinary Portland Cement (OPC) is the most common cement used in general construction works.

OPC Cement or Ordinary Portland Cement (OPC) is manufactured by grinding a mixture of limestone and other raw materials which are argillaceous, calcareous in nature, along with gypsum.



ADVANTAGES OF OPC

JSW OPC can be used wherever very high early strength and fast setting is required along with quick deshuttering of form work. JSW OPC can be used on its own or it can be blended with mineral admixtures, such as flyash and GGBS at construction sites, using high efficient mixture, as per requirement.

JSW OPC CAN BE USED FOR FOLLOWING APPLICATIONS:

- Construction of high-rise buildings, roads, dams, bridges, flyovers.
- Grouts and mortars.
- Construction of residential and industrial complexes, specially where speed of construction is fast & quick deshuttering are required.
- Construction of Pre-cast items such as blocks, tiles, pipes etc.
- Asbestos products such as sheets and pipes.
- Pre stressed concrete girders.
- Ready mix concrete plants.

PROPERTIES OF OPC

EN 15188

JSW Cement

ISO 9001:2015
ISO 14001:2015
OHSAS 18001:2014

JSW CEMENT LTD.
IN: 288-2813

**OPC 43 GRADE (VARIETY) ORDINARY PORTLAND CEMENT
TEST CERTIFICATE**

S.No	Characteristics	Requirement as Per IS 288-2013	Test Result
CHEMICAL REQUIREMENTS			
1	Lime Saturation Factor (Range)	0.99-1.02	0.94
2	Alkaline (Na ₂ O) (Min.)	0.68	1.51
3	Magnesia (MgO) % (Max.)	8.0	1.78
4	Loss On Ignition (%) (Max.)	9.0	1.10
5	Insoluble Residue (%) (Max.)	9.0	0.25
6	Chloride (%)(Max.)	0.1	0.006
7	Sulphate (As Sulfate) (SO ₃) (Max.)	3.5	2.30
PHYSICAL REQUIREMENTS			
1	Fineness (90 %)(µm)	225	218
2	Setting Time (minutes)		
	a) Initial (Min)	30	180
	b) Final (Max)	600	215
3	Soundness		
	a) Le-Chatelier (mm) (Max.)	10	1.0
	b) Auto-Clave (%)(Max.)	0.8	0.06
4	Compressive Strength (MPa)		
	a) 3 days (Min.)	33	31.0
	b) 7 days (Min.)	33	41.0
	c) 28 days (Min/Max)	43-58	52.0

Authorized signatory

JSW Cement Limited

JSW OPC Cement : 53 GRADE
BEST STRENGTH/LOW STRENGTH
TEST CERTIFICATE
Ordinary Portland Cement as per IS 288-2013

PROPERTY/TEST	RESULT (%)	REQUIREMENT (IS 288-2013)
1) CHEMICAL COMPOSITION		
(i) Lime Saturation Factor	0.97	0.93 to 1.02
(ii) Maximum Alkalies (% by mass)	1.50	0.6 Maximum
(iii) Insoluble residue (IS) (% by mass)	0.36	0.2 Maximum
(iv) Magnesia (MgO) (% by mass)	1.43	0.2 Maximum
(v) Sulphate (as sulphate) (% by mass)	2.38	3.5 Maximum
(vi) Loss on ignition (IS) (% by mass)	0.30	0.3 Maximum
(vii) Chloride (% by mass)	0.017	0.10 Maximum
2) FINENESS (IS 288-2013)		
(i) Fineness (90 %)(µm)	200	225 of 90 fineness
3) SOUNDNESS		
(i) Le-Chatelier Expansion (mm)	1.00	10.0 mm Maximum
(ii) Autoclave Expansion (%)	0.06	0.8 % Maximum
4) Setting Time		
(i) Initial (in Minutes)	190	30 minimum
(ii) Final (in Minutes)	190	600 maximum
5) Compressive Strength (MPa)		
(i) at 3 days (1.5 m)	40.30	33 MPa Minimum
(ii) at 7 days (1.5 m)	49.90	33 MPa Minimum
(iii) at 28 days (1.5 m)	51.90	43 MPa Minimum
Remarks:		
1) Temperature during testing : 27 ± 0.5 °C		
2) Ordinary Portland Cement conforms to the requirements of IS 288-2013 as per IS 288-2013		

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Bangalore: JSW Cement Ltd, "The Estate", 121, 3rd Floor, East Wing, Dickenson Road Bangalore - 560 042.Ph: 080-22220385.

Chennai: Unit No. 1, Kalyani, New # 12, Old # 41, Chakrapani Street, Mambalam, Chennai 600 033.Tamil Nadu. Phone No. (044) 4211 2441 / 4511 2442.

Kerala: M/S. JSW Cement Limited, Balakrishna Arcade,Ratna Lane,South Janatha Road, Palarivattom Post, Ennakulam, Kochi – 682 025.Ph:9961355522.

Pune: JSW Cement Limited, Epic Centre, 2nd Floor, CTS No. 4/6, Shivajinagar – Wakdedwadi, Pune – 411 005, Mob: 9921154888.

Goa: C/o. West Coast Clearing Co.Shop No.AG-6, Ramulo Complex, Opp: Pepsi (Varun Bev Int LTD)/Arlern, Fatorda - Goa- 403602. PH:0832-2749327, Mob: 9765327300.

Odisha: JSW Cement Ltd, Monasa Building, Main Road, Gosaninugaon, Near jagannath temple, Barhampur, Odisha-760003.

Kolkata: Godrej Water Side, Tower - 1,10th floor, Unit No: 1003,Plot DP-5, Sector - V,Salt Lake City, Kolkata - 700091.Phone-9830017081.

Mumbai: Grande Palladium,6th floor,175 CST Rd, Kalina, Santacruz,(E) Mumbai-400 098, Phone: 022-61871249.

Corporate Office:Mumbai: JSW Centre, MMRDA Ground, Bandra Kurla Complex, Bandra (East), Mumbai- 400051. Ph: 022-42865047.

Nandyal: Bilakalagudur Village, Gadivemula Mandal, Kurnool, Andhra Pradesh - 518 508. Ph: 08514-202304.

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