

**CALL OUR EXPERT TO AVAIL JK BUILD-EXPERT -
FOUNDATION TO ROOF ON-SITE SERVICES**



STAGE	SERVICE OFFERING
Raw material selection & Testing	Testing/Guidance on selection of Cement, Aggregates (fine/coarse), Bricks, Steel, Water
Site Excavation	Costing and estimation/Tips on Layout, Excavation, Foundation, Damp Proof Course
Concrete Making (Foundation/Column/Beam/Slab)	Concrete Mix Design/Making/Casting/Compaction/Laying & Finishing guidance & supervision
Scaffolding/Formwork	Type/Suitability/de-shuttering schedule
Reinforcement	Selection/Quality inspection/suitability/cover/lap length
Pre/Post Slab Supervision	Slab casting supervision-concrete making/roof-casting/finishing/strength certification
Brickwork	Quality Inspection/Type/precautions/brick-bonds
Plastering	Mix proportion/outside/inner plaster /plastering techniques
Curing	Vertical/horizontal surface curing techniques/schedule
Flooring	Substrate preparation/marble/tiles/mosaic flooring
Roof waterproofing	Precautions/guidance/suitability
Value added offerings	Earthquake resistant design tips, rainwater harvesting, special concrete
Premium Product offering	Cover blocks, Masking tape on premium product



Customer Technical Services
 Padam Tower, 19 DDA Community Centre, Okhla Phase -1, New Delhi -110020
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 Help line : 1800 266 4606
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Company Overview



JK Cement Limited is pioneer in manufacturing world class cement of different types and grades in India. From a modest beginning in the year 1974 with a capacity of 0.3 million tons at Nimbahera, today the company has an annual combined production capacity of 15.0 MTPA. The company's state-of-the-art cement production extended its footprints by setting up 4 integrated plants, 3 grinding unit and spread it's market operations across Rajasthan, Gujarat, Western Uttar Pradesh, Uttarakhand, Haryana, Punjab and Jammu & Kashmir in North and Maharashtra, Karnataka, Kerala and Goa in the South. The company is also one of the leading manufacturer of White Cement in India and enjoys a Pan India presence. The company made its first international foray with setting up of a green field dual process white cement-cum-grey cement plant in the free trade zone at Fujairah, U.A.E. to cater the GCC and African markets.

About JK Super Portland Pozzolana Cement (PPC)

- Conforming to IS:1489(part 1) -2015
- Surpasses all national and international standards
- 28 days strength more than 43 grade cement
- Increased fineness for enhanced cohesiveness in mix
- Low heat of hydration
- Sulphate and chloride resistance
- Suitable in all climates, geographies and applications
- Protects reinforcement from corrosion and increases life of the structure

Technology & Quality Assurance

- Our all units are ISO 9001:2015 (QMS), ISO 14001:2015 (EMS), OHSAS 18001:2007 & ISO 50001:2011 (EnMS) certified by LRQA
- Manufacturing units incorporate technical expertise of Denmark based cement giant F. L. Smidth & Co
- Our units have the latest technology process control including Gama Matrix Analyser, Robo Lab, Automatic Blaine Analyser which ensures the consistent quality
- QCXand QXRD : Quality Control by Computer, X-Ray Analyser and X-Ray Diffractometer to automatically control the quality of raw mix composition and clinker
- Complete operations controlled by Fuzzy Logic System to ensure consistent and best quality
- Higher Blaine maintained at 3500 cm²/gm while IS requirement is of 3000 cm²/gm
- Higher fineness increases the rate of strength gaining.
- Use of roller press in production ensures right PSD of cement

Benefits of JK Super Cement

- Continuously increasing strength after application
- Better workability and smooth finish due to higher fineness
- No micro cracks due to lower heat of hydration
Protection against dampness due to lesser permeability
- No leaching of lime and unpleasant deposits on the surface
- Double action cement
- Reliable and prompt technical services



Suggested Mix proportions with JK Super Cement

CONCRETE WORK

Type of construction	Minimum Grade of concrete	Compressive strength after 28 days (N/mm ² or MPa)	Proportion with JK Super Cement
Beam, Slab, Column	M20	20	1:1.75:3.5
Foundation, Prestress Concrete	M25	25	1:1.25:2.5
For PCC	M15	15	1:2.5:4.5

MORTAR WORK

Type of application	With JK Super Cement
Masonry 9"	1:6
Masonry 4.5"	1:5
Wall Plaster Internal	1:6.5
Wall Plaster External	1:4.5
Ceiling Plaster	1:4

Value Added Customer Technical Services

- Concrete testing at JK Concrete Innovation and Application Centre (CIAC)
- Free concrete mix design
- Sand, coarse aggregates and water testing
- Slump cone and concrete testing at site
- Slab supervision by Qualified Civil Engineer
- NDT/rebound hammer test

- Cover blocks/shuttering tape on slab casting application
- "Service on Wheels"
Mobile concrete technical lab



Best Practices for Safe, Strong and Durable Construction:

Pre-construction or Application

- Always use fresh and good quality cement like JK Super cement for your dream home.
- Ensure robust and water tight shuttering to reduce the chances of seeping out of cement slurry from the wet concrete.
- Aggregate used in concrete should be well graded, angular and storng.
- Use cover blocks to maintain the proper cover to reinforcement for durable construction and proper bonding.
- Use 1.25'x1.0'x1.0' size measuring boxes to measure the sand and aggregate for preparing mix.

During construction or Application

- Use potable water for mixing in cement to get higher strength.
- Always use mechanical mixture machine to mix the mortar to get a homogeneous mix.
- Always maintain right water cement ratio. It is

observed that one liter extra water can reduces strength of concrete or mortar by 4%.

- Wet cement should be used with in 1.5 hrs. to get better results.
- Do not pour concrete from more than 1 meter height to avoid segregation.
- For better compaction always use vibrator (needle/plate vibrator as per requirement).
- Do not add Sugar/Molasses in mortar or concrete.

Post construction or Application

- In normal condition curing should be done for at least for 7 days to get good strength. In dry and hot condition curing should be done for minimum 12 days.
- For vertical components like column or wall curing should be done after wrapping hesian cloth to get better results.
- Never remove shuttering before the time period mentioned in IS 456:2000.