

**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 |



Contact:

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JKsuper
— cement —
BUILD STRONG



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, Uttrakhand, 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
- QCX and 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 strong.
- 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 reduce strength of concrete or mortar by 4%.

- Wet cement should be used within 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 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 hessian cloth to get better results.
- Never remove shuttering before the time period mentioned in IS 456:2000.