



CONCEPT TO COMMISSIONING

5.0 mio tpa capacity Jaypee Balaji Cement Plant A.P., India (Green-Field Project)

The JAIPRAKASH Group (Jaypee Group) is the third-largest cement producer in India, closely following Ultra Tech Cement and Holcim India (ACC+Ambuja Cement). Jaypee group's around 40 mio tpa cement capacity plants are spread all over India.

Owner

Jaiprakash Associates Limited, New Delhi, India.



Project Consultant

Holtec Consulting Private Limited, India

Supply of Main Machinery

- F.L.Smith, Denmark & India
- Gebr. Pfeiffer SE Germany & India

Scope of Consulting Services

- Techno Economic Feasibility Report
- Assistance in dealing with financial institutions and project progress reporting on periodic basis.
- Procurement assistance and project engineering of the cement plant including integration of railway siding with cement plant.
- Project planning and control for all project work
- Site supervision services

Special Features

- LS Crushing plant is connected to main plant by belt-conveyor in a tunnel, below public road and railway siding.
- 8,000 t capacity RCC silo installed for pet-coke.
- From 33 m to 170 m level, preheater tower is in steel construction.
- Biggest vertical roller mill, in multi-drive design, installed for cement grinding.
- Plant has vertical roller mill, ball mill, roller press in conjunction with ball mill and a fly ash classification and blending system, for cement manufacturing.
- Plant has one of the largest automation system consisting 19 process controllers of Siemens

comprising of 30,000 I/Os, biggest power distribution system consisting 7 HT Switch Boards, 9 LT Switchboards and 35 MCC's.

Key Project Data

Quantities	
- Excavation	6,00,000 m ³
- RCC	2,35,000 m ³
- Reinforcement Steel	34,800 t
- Steel Fabrication	27,500 t
- Equipment Erection	30,000 t
- Refractory	7,600 t
- Insulation	65,000 m ²
- Packages (Cement + CPP)	150 nos.
- Execution Agencies	25 nos.

Main Equipment/Storages Capacities

- Crusher	2 x 900 tph
- Raw Mill	2 x 450 tph
- Raw Meal Silo	1 x 24,000 t
- Kiln	10,000 tpd
- Clinker Storage	1,00,000 t
- Coal Mills	2 x 50 tph
- Cement Mills	1 x 285 tph 1 x 150 tph 1 x 320 tph
- Blender(OPC+classified ash)	1 x 300 tph
- Flyash Silo	1 x 20,000 t
- Cement Silos	2 x 20,000 t
- Packing Plant (with truck loading and wagon loading)	5 x 240 tph

Significant Achievement

- Excluding the time of 'Hold-Ups', on account of delay in statutory clearances, plant was commissioned in 29 months from date of main machinery ordering including railway siding and the power plant.
- **SATISFIED CUSTOMER**