



Wagon Loading Shed

Sagar Cements Ltd., Mattampally, Nalgonda

A pictorial representation

Project Description

PRECA was bestowed with the opportunity to work with industry giants, Sagar Cements on the construction of Wagon Loading Shed at their manufacturing facility in Nalgonda. The structural consultants – RV Consultants– gave us a good picture of the needs of the client.

The uniqueness of the structure of the lies in the integration of precast elements with steel framing structure. Gable shaped beams of 16m spans were produced and were erected at height of 12.5m from ground level.

A single storied shed, spanning a length of about 750m was built using 1,13,765 sq.ft. of Precast Prestressed Hollow core slabs & Precast Main Rafter beams. This structure was built in a period of 3 months.





Erection of Rafter beams





Erection of Rafter elements





Erection of Rafter elements





Erection of roof slabs





Erection works in progress





Erection of roof slabs in progress





The Rafter Beam design in integration with steel structure





The Rafter Beam design in integration with steel structure





The erected roof slabs





The erected roof slabs





The erected roof slabs





The erected roof slabs





A portion of the 750m long shed





A portion of the 750m long shed





Ariel view of the wagon loading shed





The Art of PRECAsting..



Thank You.