



CENTRAL BUILDING RESEARCH INSTITUTE ROORKEE

Production of Solid Prestressed Concrete Poles Employing Direct Electric Curing



- Application/Uses** : Used for accelerated curing of the precast concrete poles and like products
- Salient Technical Features** : Ensures consistent quality product and increased productivity as accelerated gain in strength is achieved. Use of low voltage eliminates chances of electrical hazards. Set-up is portable, ensures daily turnover of moulds. Hence less number of moulds and lesser area as compared to equal capacity plant with normal moist curing.
- Environmental Aspects** : Clean environment in contrast to set-up using steam/hot water for accelerated curing
- Level/Scale of Development** : Process developed at pilot scale in laboratory
- Status of Commercialisation** : Know-how ready for commercialisation
- Major Components/ Raw Materials** : Cement, sand, aggregate, high tension wire
- Major Plant Equipment and Machinery** : Set-up with horizontal casting of poles with tensioning/detensioning arrangement, Isolating power transformer, Fabricated electrodes, Concrete mixer, Shutter vibrator, Gantry etc.
- Techno-Economics** : Estimated investment for a battery limit plant of 24 poles per day is around Rs. 40 Lakh
- Technology Package** : Fabrication drawings of the set-up; procedure and quality assurance method and assistance in commissioning of the plant, if required

For further details please contact :

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