CENTRAL BUILDING RESEARCH INSTITUTE ROORKEE

Precast R.C. Plank and Joist Scheme for Floors and Roofs

Application/Uses	:	For economical and faster construction of floors and roofs of single and multistoreyed buildings such as houses, schools, offices etc.
Salient Technical Features	:	The floor/roof is constructed with precast R.C. joists 15 x 15 cm in section and upto 4.2 m long and precast R.C. planks 30 cm wide, 3/6 cm thick and upto 1.2 m long. The components are produced on a casting platform at construction site and as soon as the wall reaches the floor/roof level, the components are erected, assembled and partly filled up with concrete to form the floor/roof.
Environmental Aspect	:	No pollution or other adverse effects on environment
Level/Scale of Development	:	Commercial scale
Status of Commercialisation	:	Technology is being released free. Used in the construction of large number of houses and other buildings all over the country
Major Components/ Raw Materials	:	Aggregate, cement and steel
Major Plant Equipment and Machinery	:	Simple steel/ timber moulds and light hoisting equipment
Techno-Economics	:	Results in savings of 20% in overall cost, 25% in cement and 10% in steel as compared to conventional R.C. slab floor/roof
Technology Package	:	Details are described in CBRI Building Research Note No. 4.

For further details please contact :

Director
Central Building Research Institute, Roorkee - 247 667 (INDIA)
Phone : +91 1332 72243; Telex : 0597 203 CBRI IN
Fax : +91 1332 72272 & 72543; E. Mail : cbri@sirnetd.ernet.in