



CSIR-CBRI
12TH FIVE YEAR PLAN
LARGE MISSION PROJECT



TITLE: Development of a technology for optimal extraction of locked-up coal from underground mines using artificial pillars

Module Title: Development of underground artificial support system for providing support to overlying rock-mass

ACRONYM: DeCoalArt

CATEGORY: A⁺

NEED:

- Extraction of locked-up coal from underground mines for better energy resource
- Innovation of new technology not available in the world
- Economic benefit of the country and conservation of coal in particular
- Protection of land and important built-up structures

PROJECT INTENT (Role of CSIR-CBRI):

- Selection of suitable material for construction of artificial underground pillars
- Development of appropriate support system for depillaring
- Analysis & Design of conceived support system
- Replacement methodology and technique for installation of artificial underground pillars/system

PARTICIPATING LABORATORIES: CSIR-CBRI, CSIR-CIMFR (Nodal Lab); CSIR-CMERI; CSIR-CSIO

PARTICIPATING SCIENTISTS : 03 (From CSIR-CBRI)