

**LIST OF R&D PROJECTS**

( As on 01.04.2015)

(Rs in lakh)

Sl. No.	Project Title	Date of start of the project	Scheduled date of completion	Total Approved Cost
1	Underground Trapped Miner Location system <b>Project code</b> - CIL/R&D/1/35/10 <b>Implementing agency</b> : TCS,CMC & CMPDI(ME), Ranchi	15th Jan. 2010	Mar.2015	507.45 TCS/CMC-470.47 CMPDI-36.98
2	Demonstration of Coal Dry Beneficiation System using Radiometric Technique. <b>Project Code: CIL/R&amp;D/2/05/10</b> <b>Imple. Agency:</b> CMP Division , CMPDIL & Ardee Hi-Tech Pvt Ltd, Vishakhapatnam	Sep.2010	Sep.2015	2565.70 CMPDI- 1814.40 Ardee Hi-Tech-751.30
3	Construction of quick setting stopping in case of fire in underground mines using expansion foam agent . <b>Project Code : CIL/R&amp;D/1/48/11</b> <b>Impl Agencies</b> : S&R Division CIL (HQ), Kolkata, NIT, Rourkela and M/s Trans Marketing, Kolkata.	Oct.2011	Mar.2015	51.34
4	Green House Gas Recovery from Coal Mines and Coal Beds for Conversion to Energy (GHG2E) <b>Project Code:CIL/ R&amp;D/1/49/2012</b> <b>Impl. agencies:</b> CBM Cell, CMPDI(HQ), Ranchi and European Union Research Commission, London	Feb. 2012	Jul, 2015	165.30 R&D-80.00 EU Cont.-85.30
5	Development of Rubber Compound and Repair Techniques for Trailing Cables of Underground Mining Machines. <b>Project Code:</b> CIL/ R&D/1/54/2013. <b>Impl. agencies:</b> IIT,Kharagpur and ECL	Mar. 2013	Feb.2015	187.84
6	Development of Dynamic GIS enabled Forward Cost Modeling (FCM) of land reclamation , control and monitoring of acid mine drainage problems in the context of continuation and expansion of the coal mining in Assam – an ICT based Environment Management Approach. <b>Project Code:</b> CIL/R&D/4/07/2013 . <b>Impl. agency:</b> Birla Institute of Technology, Mesra, Kolkata Campus, Southern Conclave, Kolkata.	Mar. 2013	Aug.2015	95.68
7	Design, Develop and Demonstrate a Micro-Grid system for optimization and control of Multiple source of power supply. <b>Project Code:</b> CIL/R&D/1/56/2013 <b>Impl. agency:</b> E&M Department, CMPDIL, Ranchi and Gujarat Energy Research and Management	14th Aug.2013	13th August 2015	351.30 For CMPDI-33.80 GERMI, Gujarat-317.50
8	Development of guidelines to predict distance between toe of the Shovel-Dumper dump and that of Dragline dump with consideration of safety and economical design of both Shovel-Dumper dump and Dragline dump. <b>Project Code:</b> CIL/R&D/1/57/2013 <b>Impl. agency:</b> Civil Engineering Deptt. , BIT, Mesra, Ranchi	Sep.2013	Aug.2016	26.58
9	Design and development of an integrated system for monitoring and control of man and machine, to enhance safety and security in mines. <b>Project Code:</b> CIL/ R&D/1/52/2012 <b>Impl. agencies:</b> CIMFR, Dhanbad & Aryan It Solutions(AITS), Dhanbad and CCL, Ranchi	Jul. 2012	Mar.2015	437.29 For CIMFR-60.59 AITS, Dhanbad-376.70
10	To find a methodology of safe liquidation in thick seams of Raniganj Coalfields: Design & Development & show-casing demonstrative trials at Khottadih colliery, ECL. Project Code:CIL/ R&D/1/58/2014. Impl. agencies: CIMFR, Dhanbad & ECL	Jul. 2014	Jun.2016	41.066 For For CIMFR - 13.856 For ECL - 27.21
11	An integrated geo-physical approach for tectonic study in Moher main coal basin of Singrauli coalfield using 3D inverse modeling of Gravity, Magnetic and AMT data.Implementing agencies - Indian School of Mines, Dhanbad and CMPDI(HQ), Ranchi.Project Code:CIL/ R&D/1/59/2015.	26th March 2015	25th Sep 2017	337.18 For ISM, Dhanbad-289.68 For CMPDI-47.50
12	Cost-effective technology for beneficiation and recovery of fine coal Project Code: CIL/R&D/2/03/08 Implementing agency : CMPDI/ BCCL	June 2008	May 2010	2714.24

13	Development of a coal preparation plant simulator Project Code: CIL/R&D/2/04/08 Implementing agency : CMPDI/ CIMFR & BHEL	Sep.2009	Sep.2013	530.90
14	Studies of techno-commercial efficacy of ANFO with a low density Porus Prilled Ammonium Nitrate (PPAN) for blasting overburden in coal mines Project code - CIL/R&D/1/34/09 Implementing agency : Blasting Cell , CMPDI Ranchi and DFPCL, Pune	Sept. 2009	Dec.2013	206.80
15	Demonstration of Cost-effective Technology for Dry Beneficiation of Coal by Allair Jig . Project Code: CIL/R&D/2/06/10 Imple. Agency : CMPDI, Ranchi and MCL	15th Dec.2010	January 2016	3837.41