

LIST OF ON-GOING R&D PROJECTS
(As on 01.07.2018)

(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 Project code - CIL/R&D/1/35/10 Implementing agency : TCS,CMC & CMPDI(ME), Ranchi	Jan. 2010	Mar.2015	507.45 TCS/CMC-470.47 CMPDI-36.98
2	An integrated geo-physical approach for tectonic study in main coal basin of Singrauli Coalfields (CF) using 3-D 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	Sep 2018	349.40 ISM, Dhanbad-301.90 CMPDI-47.50
4	Cost -effective technology for beneficiation and recovery of fine coal Project Code: CIL/R&D/2/03/08 Implementing agency : CMPDI	June 2008	May 2010	2714.24
5	Development of a coal preparation plant simulator Project Code: CIL/R&D/2/04/08 Implementing agency : CMPDI	Sep.2009	Sep.2013	530.90
6	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 agencies : Blasting Cell , CMPDI Ranchi and DFPC, Pune	Sept. 2009	10 th October 2019	206.80
7	Demonstration of Cost-effective Technology for DryBeneficiation of Coal by Allair Jig . Project Code: CIL/R&D/2/06/10 Imple. Agencies : CMPDI, Ranchi and MCL	Dec.2010	January 2014	3837.41
8	Development of guidelines for prevention & mitigation of explosion hazard by risk assessment and determination of explosibility of Indian coal incorporating risk based mine emergency evacuation and re-entry protocol. Project code: CIL/R&D/1/60/2016. Implementing agencies: CIMFR, Dhanbad, ISM, Dhanbad, S&R Division, CIL (HQ), Kolkata and SIMTARS, Australia.	15th April 2016	14th April 2019	1629.71 IIT-ISM-833.57 CIMFR-796.14
9	Multiple layer trial blasting for better recovery with less diluted coal. Project Code:CIL/R&D/1/61/2016 Implementing agencies: ISM, Dhanbad, CMPDI , Ranchi.Technical Participation-University of Queensland, Brisbane, Australia	15 th July 2016	14 th July 2018	496.24 IIT- ISM-431.24 CMPDI-65.0
10	Studies on the Use of Coal and Petcoke as Fuel in the Cement Industry in India. Project Code:CIL/R&D/03/02/2016. Implementing agencies:ISM, Dhanbad, CMPDI, Ranchi.	15 th July 2016	14 th July 2018	471.95 IIT- ISM-431.28 CMPDI-40.67
11	Indigenous Development of Through The Earth (TTE) Two-Way Voice Communication System for Underground Mines.Project code:CIL/R&D/01/62/2016. Implementing Agencies:- Indian Institute Technology(IIT), Bombay and Central Mine Planing and Design Institute Limited (CMPDIL), Ranchi	15th Oct.2016	14th Apr 2019	139.8816 IIT, Bombay-121.8816 CMPDI- 18.00
12	Requirement of air in mine for Mass Production Technology. Project Code: CIL/R&D/01/63/2016 Implementing Agency: UMD, CMPDI(HQ), Ranchi	1st Nov. 2016	31st Oct. 2019	491.27

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13	Development of a methodology for regional air quality monitoring in coalfield area using satellite data and ground observations.Project code: CIL/R&D/04/08/2017. Implementing agency: Geomatics Department, CMPDI(HQ), Ranchi and National Remote Sensing Centre (NRSC), ISRO, Hyderabad.	15th Mar. 2017	14th Mar. 2020	709.82 NRSC, Hyderabad-589.87 CMPDI- 119.95
14	Design of cost effective process flowsheet for improved washing efficiency of Indian Coking and Non-coking coals. Project code: CIL/R&D/02/07/2017 Implementing agencies: IIT-ISM, Dhanbad and CMP Division, CMPDI (HQ), Ranchi , Washery Division,BCCL, Dhanbad. Technical collaboration with University of Newcastle (NIER Centre), Newcastle, Australia.	17th Apr. 2017	16th Jul. 2019	1266.98 ISM-1212.98 CMPDI-54.00
15	Development of Guidelines for Increasing the Height of Overburden Dumps at Opencast Coal Mines in India. Project Code: CIL/R&D/04/09/2016 Implementing Agency: UMD, CMPDI(HQ), Ranchi	1st June 2017	31st May 2019	428.08 378.45 CMPDI IIT,

	Project Code: CIL/R&D/01/64/2016. implementing agencies: Environment Division, CMPDI(HQ), Ranchi and IIT, Delhi.			Delhi-49.63
16	High ash coal gasification and associated upstream and downstream processes (Coal to Chemicals, CTC).Project Code: CIL/R&D/03/03/2017. Implementing agencies: IIT-ISM, Dhanbad, IIT-roorkee, CMPDI, Ranchi, MCL, Sambalpur, ECL, sanctoria and CCL, Ranchi. Technical collaboration of IIT-ISM, Dhanbad with Australian Universities: i) Curtin University, Western Australia, Perth-6102,ii) The University of Melbourne, Melbourne, Victoria 3010, Australia and iii) Monash University, Clayton, Victoria 3800, Australia.	20th Jul. 2017	19th July 2020	2160.721 IIT-ISM- 1872.007 IIT, Roorkee -131.804 CMPDI, Ranchi - 156.910
17	Assessment of applicability and performance of Ground based Interferometry Synthetic Aperture Radar (GblnSAR) in safety zoning of surface mining slopes. Implementing agencies: IIT, Kharagpur and ECL, Sanctoria. Project Code No: CIL/R&D/01/65/2017	1st August 2017	31st July 2019	478.27 IIT,KGP- 478.27 ECL- Nil
18	Optical fiber based solar illumination of pit bottom and underground mine roadways and working face. Implementing agencies: IIT, Kharagpur and ECL, SanctoriaProject Code No: CIL/R&D/01/66/2017	1st August 2017	31st July 2020	155.53 IIT,KGP- 155.53 ECL- Nil
19	Development of Virtual Reality Mine Simulator (VRMS) for improving safety and productivity in coal mines. Project Code No: CIL/R&D/01/67/2017.Principal Implementing Agency: IIT-ISM, Dhanba; Sub-Implementing agencies :UMD, CMPDI, Ranchi, BCCL, Dhanbad, NCL, Singrauli and SIMTARS, Australia	1st Sep. 2017	31st August 2019	1410.10 IIT-ISM, -1320.10 CMPDI, Ranchi- 90.00
20	Dry Beneficiation of High Ash Indian Thermal Coal.Project Code No: CIL/R&D/02/08/2017. Principal Implementing Agency:National Metallurgical Laboratory (NML), Jamshedpur ; Sub- Implementing agencies : CMPDI, Ranchi and MCL, Sambalpur	1st Sep. 2017	28th February January 2019	216.77 NML -197.87 CMPDI,-18.90
21	Demonstration of Coal Dry Beneficiation System using Radiometric Technique. Project Code: CIL/R&D/2/05/10 Imple. Agency: CMP Division , CMPDIL & Ardee Hi-Tech Pvt Ltd, Vishakhapatnam	Sep.2010	Jul. 2018	2565.70 CMPDI- 1814.40 Ardee Hi-Tech-751.30
22	Development of guidelines for design of all tiers of shovel-dumper dump above dragline dump, with delineation of phreatic surface, within dragline dump, throughout the year and validation study on two dragline mines of Coal India Limited (CIL). Project code: CIL/R&D/01/68/2018 Implementing agencies: BIT, Mesra & S&R Division, CIL(HQ), Kolkata	1st May 2018	30 th April 2021	Rs. 75.30 lakh
23	Seismic data processing, interpretation and identification of thin coal seams using Inverse Continuous Wavelet Transform Deconvolution (ICWT-Decon) for resource estimation. Project code: CIL/R&D/01/69/2018 Implementing agencies: Gujarat Energy Research and Management Institute(GERMI), Gandhi Nagar Exploration Division, CMPDI, Ranchi	1 st May 2018	30 th April 2019	Rs. 249.02 lakh GERMI - Rs. 197.18 lakh CMPDI, Ranchi- Rs. 51.84 lakh
24	Design guidelines for underground coal extraction beneath massive competent strata: a case study validation. Project code: CIL/R&D/01/70/2018 Implementing agencies: WCL, Nagpur & CIMFR, Dhanbad	1st May 2018	30th April 2020	Rs. 407.685 lakh WCL, Nagpur - Rs. 255.907 lakh CIMFR, Dhanbad- Rs.155.778 lakh