

ONGOING GAP PROJECTS

Sl. No.	Project No.	Title of the Project	Sponsor	Value (Rs. In Lakhs)	Date of Start
1.	GAP/MS/CIL/104/2016-17	Development of guideline 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.	CIL R&D Board	796.140	May, 2016
2.	GAP/MEIT/108/2017-18	Development of digital mine using internet of things.	Ministry of Electronics and IT, Govt. of India	222.30	February, 2018
3.	GAP/MOC/109/ 2017-18	Design and Stability of Pillars / Arrays of Pillars for Different Mining Methods in Coal Mine Workings	Ministry of Coal, Govt. of India	299.37	March, 2018
4.	GAP/MOEFCC/112/2018-19	Improved Fugitive Methane Emission Factors for Coal Mining and Handling in India including abandoned mines	Ministry of Environment Forests & Climate Change, Govt. of India.	55.86	July, 2018
5.	GAP/MOS/113/2018-19	Integrated cost-effective technology for attaining zero liquid discharge in steel plants with emphasis on steel slag utilization	Ministry of Steel	23.24	November, 2018
6.	GAP/MEIT/114/2018-19	Development of Vision Enhancement System for Foggy Weather	Ministry of Electronics and IT, Govt. of India	509.75	November, 2018
7.	GAP/MEIT/115/2019-20	Setting up of information and facilitation centre for empowering living of SC in Jharkhand State	Ministry of Electronics and Information Technology	135.45	April, 2019
8.	GAP/DST/116/2019-20	Fluoride and toxic metal contamination in great mica belt of Jharkhand: Geochemistry and Health Implications	Department of Science & Technology	31.60	July, 2019
9.	GAP/MSPCB/117/2019-20	Technology development for treatment of acid mine water for its reuse and safe disposal.	Meghalaya State Pollution Control Board, Shilong-793014, Meghalaya	59.00	Sept, 2019
10.	GAP/MoC/118/2019-20	Development of suitable paste fill material from fly ash (Power Plant reject) and its transportation system to underground coal mines for stabilization of working as an alternative of sand stowing for increasing the percentage of extraction of coal with due regard to safety and environment to ascertain its coal effectiveness in Sarani UG Mine, Pathakhera Area, WCL	CIL R&D Board	73.48	December, 2019
11.	GAP/CIL/119/2019-20	Development and adoption of Real-Time Prognosis System (RTPS) for cost effective safe operation of mobile machinery: show-cased demonstration of dumper fleet	CIL R&D Board	180.00	December, 2019

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12.	GAP/DST/120/2019-20	Standalone forward osmosis for energy efficient and sustainable industrial wastewater treatment	Department of Science & Technology	19.543	January, 2020
13.	GAP/MOM/N/121/2020-21	Development of Emperical Methodology for Design of crown Pillar during transition from opencast to underground mining for Indian Mines	Ministry of Mines,	37.89	February, 2021
14.	GAP/MOM/122/2020-21	Studying, modeling and evolving a new blasting technique for mine excavations near the proximity of structures (beyond 50 m) using the structural response analysis and dynamic finite element modelling.	Ministry of Mines,	38.19	March, 2021
15.	GAP/MOM/123/2021-22	Determination of optimum safe distance of toe of dump from crest of open pit slope for stability of pit slope under different geo-mining conditions	Ministry of Mines,	52.00	August, 2021
16.	GAP-7039/2020-21	Amelioration and bioenergy plantation on mine spoil using composite biochar fertilizer.	DST, Ministry of Science and Technology, Government of India	27.81000	21-05-2020
17.	GAP-7040/2020-21	Rock Mass Characterisation and numerical modelling of slopes subjected to blast loading	Defence terrain research lab(DTRL), Ministry of Defence	19.46504	20-05-2020
18.	GAP-7041/2020-21	Development of coal quality exploration technique based on convolucional neural network and hyperspectral images	CMPDIL, Ranchi(Ministry of Coal, Govt. of India.)	103.59000 (CIMFR Nagpur-23.30000, Ramdeo Baba College, Nagpur-80.29000)	15-03-2021
19.	GAP-7042/2021-22	Hydrogen powered desalination system using recycled aluminium: A novel process to extract potable fresh water from seawater	Dept. of Science & Technology(DST), Ministry of Science & Technology, New Delhi	20.63520	03-01-2022
20.	GAP-7043/2021-22	Development of advanced composite pressure vessels for hydrogen storage(ADHERE)	Dept. of Science & Technology(DST), Ministry of Science & Technology, New Delhi	81.62301	07-01-2022
21.	GAP-7044/2021-22	Exploration and chemical fractionation of critical elements in fly ash and bottom ash generated from coal and biomass combustion.	SERB, DST, Govt. of India, New Delhi	28.29859	28-02-2022
22.	GAP-7045/2021-22	Investigation of mercury and its mode of occurance in indian coal.	SERB, DST, Govt. of India, New Delhi	22.83724	28-02-2022