



INTERNATIONAL COOPERATION



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1. Indo-Australia Collaboration:

Central Mine Planning & Design Institute Limited (CMPDI) has a Memorandum of Understanding (MoU) with Commonwealth Scientific and Industrial Research Organisation (CSIRO), Australia signed on 12th June, 2013 for a period of five years for furthering scientific cooperation. The MoU has been renewed for further ten years, signed on 16th November, 2018 at Brisbane (Australia) and exchanged on 22nd November, 2018 at Sydney (Australia) in presence of Hon'ble President of India, to encourage programs of exchange and collaboration in areas of mutual interest and benefit to both the organizations.

➤ **R&D project funded by Coal India Limited (CIL) jointly implemented by CMPDI, CIL and CSIRO, Australia**

The R&D project titled "Highwall Mining Feasibility Assessment and Layout Design" was approved by CIL in June 2022 and the project cost is ₹ 4.93 crore. CSIRO, Australia team visited 20 mines of different subsidiaries of CIL for the preliminary evaluation to identify the potential sites suitable for Highwall mining from 24th October 2022 to 9th November 2022. CSIRO submitted a "Preliminary Assessment of Highwall Mining Feasibility" report on 06.12.2022. The CSIRO team again visited CIL and different mines of Eastern Coalfields Limited (ECL), Bharat Coking Coal Limited (BCCL) & Central Coalfields Limited (CCL) to discuss different issues related to Highwall mining from 21st August 2023 to 31st August 2023 and two mines of CCL, namely Balkudra OCP & Kargali OCP were selected for Detailed Highwall layout design. Drilling of three boreholes at Balkudra

OCP was completed in December 2023 and physico-mechanical properties of the strata were provided to CSIRO in May 2024. Drilling of four boreholes at Kargali OCP was completed in January 2024 and physico-mechanical properties of the strata were provided to CSIRO in June 2024. Highwall Mining Layout Design for Balkudra OCP has been submitted by CSIRO in August 2024.

2. India-Canada Collaboration:

➤ **R&D project funded by CIL jointly implemented by CMPDI, ECL and Ergo Exergy Technology Inc. (EETI), Canada**

The R&D project titled "A pilot project on Underground Coal Gasification (UCG) to establish Technology in Indian Geo-Mining condition" was approved by CIL in March 2024. The project started on 29.03.2024 and the project cost is ₹ 23.09 crore. Three hydrogeological wells and two deep-water sampling wells have been drilled and three shallow-water monitoring wells have been constructed. Geological modelling, Hydrogeological testing, Groundwater testing, Hydrogeological modelling, Rock mechanics testing, and Coal analysis have been completed. Three process wells are being drilled.

3. Meetings held between Ministry of Coal and foreign delegations:-

➤ Meeting held between Secretary, Ministry of Coal and Hon'ble Minister for Energy and Natural Resources, Royal Government of Bhutan on 11.07.2024 in the Ministry of Coal to discuss areas of mutual cooperation in the field of coal sector.





Meeting held between Secretary, Ministry of Coal and Hon'ble Minister for Energy and Natural Resources, Royal Government of Bhutan on 11.07.2024.

- Courtesy meeting, following the swearing in of the new government, held between Hon'ble Minister of Coal & Mines, Sh. G. Kishan Reddy and Australian High Commissioner to India, H.E. Philip Green OAM on 01.08.2024 in the Ministry of Coal.
- Meeting held between Hon'ble Minister of Coal & Mines, Sh. G. Kishan Reddy and Hon'ble Minister of Enterprises and Made in Italy, H.E. Adolfo Urso on 02.12.2024 in the Ministry of Coal to discuss critical raw materials policies and mechanisms in Italy and India.



Meeting held between Hon'ble Minister of Coal & Mines, Sh. G. Kishan Reddy and Hon'ble Minister of Enterprises and Made in Italy, H.E. Adolfo Urso on 02.12.2024.



4. Memorandum of Understanding (MoU)/ Joint Working Groups (JWG) of Ministry of Coal-

This Ministry has signed the following MOUs/JWGs with other countries-

- MoU between India and Poland on cooperation in the area of coal mining was executed on 04.02.2019.
- 5th Joint Working Group on Coal between India and Indonesia held on 5th November, 2020.
- The first Joint Working Group meeting on “Coal and Mines” between India and Australia was held virtually on 23rd September, 2021.

5. Participation of Ministry of Coal in International Conferences & Events-

This Ministry participates in the following Conferences & Events-

- International Mining and Resources Conference (IMARC), Australia.
- Mining Indaba, South Africa.
- Prospector Developers Association of Canada (PDAC), Canada.
- Other study related and invitation based events.

6. Target for FY 2024-25-

- To enhance participation of country in Global Bodies & Institutions like World Mining Congress, Global Methane Initiative etc.

