

Highlights of achievement of CMPDI (2016-17)

Financial year 2016-17 had been a spectacular year for CMPDI. CMPDI, a Mini-Ratna Company, recorded excellent all-round performance during the year and received Corporate Award on CSR Expenditure (Special Appreciation Prize) on 42nd Foundation Day of Coal India Limited celebrated on 1st November, 2016 at Kolkata. **CMPDI also got the Excellent MoU rating (provided by DPE) for the year 2015-16.**

Highlights:

- CMPDI achieved a new record in the field of exploration during 2016-17 in drilling. CMPDI has achieved an **all-time high drilling of 11.26 lakh meter surpassing the target of 11.0 lakh metre during 2016-17** as compared to 9.94 lakh metre achieved in previous year, through departmental resources and outsourcing, registering a **growth of about 13%** over previous year. Through departmental drills, it carried out about **4.41 lakh metre of drilling which is the highest in a year till date registering a growth of 8% over last year** by adopting latest mud technology, induction of new higher capacity drills and high performance bits.
- Drill productivity of departmental drills of CMPDI has increased to about 583 metres/drill/month registering a growth of 6.2% over previous year.
- CMPDI and its contractual agencies took up exploratory drilling in 122 blocks/mines of 22 coalfields situated in 6 States.
- **16 Geological Reports** have been prepared by CMPDI and its agencies establishing about **4.6 Billion Tonnes** of additional coal resources to the '**Measured (Proved) category**'.
- **12 blocks were awarded to Outsourced agencies** for detailed exploration through E-tendering. Tender for additional 5 blocks published in Mar.'17.
- HRSS (2-D Seismic) survey has been carried out in Marki-Barka East block, Singrauli Coalfield, Kewai & Bherabhand blocks, Sohagpur Coalfield to decipher the structure and to help the geological interpretation of the blocks. Nearly 90 Line KM of seismic data has been collected in the above 3 blocks.
- For 3-D seismic survey, CMPDI has tied up with NGRI for taking up Belpahar block in IB valley coalfield under promotional scheme.

Data acquisition through 3D seismic survey covering an area of 10 sq.km. has been completed and draft report submitted in March'17.

- CMPDI has signed an MoU with CSIR-CIMFR Labs for analysis of coal cores generated during exploration activity in different coalfields in India. The MoU has been signed for a period of five years and CSIR-CIMFR labs will analyze 1,05,000 metre coal core each year which will facilitate in evaluation of the coal quality that will be mined in future by various coal companies all over the country.
- CMPDI has been included under section 4(i) of MMDR Act vide notification No.394 dated 07th June'16 issued by Ministry of Mines exempting the licence required for prospecting operations.
- **26 Project Reports** have also been prepared with **capacity addition of about 55 Mt per year.**
- **37 Environment Management Plans** (including 15 Form-I) have been prepared.
- **9 nos. of R&D and S&T projects** have been completed. Fund disbursed was ₹24.04 crores.
- **Land reclamation monitoring of total 50 nos. of opencast projects having more than 5 million cu.m. production capacity (coal+OB) and 32 opencast projects having less than 5 million cu.m. production capacity (coal+OB)** of CIL based on high resolution satellite data has been completed.
- **Vegetation cover mapping of six (6) Coalfields** viz. Jharia, Bishrampur, Wardha Valley, Kamptee, Talcher and Makum was carried out based satellite data for assessing the impact of coal mining on vegetation cover/land use pattern.
- Monitoring of Coal Mine Fire in Jharia, Raniganj, karanpura and Bokaro coalfields done based on Thermal Remote Sensing data for the year of 2015-16 & 2016-17.
- OBR check measurement in 201 nos. Departmental mines as well as Outsourced patches were carried out.
- CMPDI helped CIL HQ, Kolkata in achieving Certification for ISO 9001:2015 (Quality Management System) and ISO 50001:2011 (Energy Management System).
- CMPDI achieved Certification of ISO 27001 (Information Security Management System) for CMPDI HQ & its 3 Regional Institutes.

- Three Environment Labs (HQ, RI 4 & RI 5) have achieved Certification for OHSAS 18001 (Occupational Health & Safety Management System) and also for ISO 17025 (NABL Accreditation). CPCB recognition of Environment Lab, CMPDI(HQ) obtained in 2016-17.
- CMPDI has been granted the certification for new version of ISO 9001:2015 by Bureau of Indian Standards for HQ and all Regional Institutes.
- Controlled blasting and vibration studies were carried out in 14 different mines of CIL to protect the surrounding habitats/important structures and extraction of locked-up coal safely.
- Performance evaluation of 10 new explosive products were carried out during the year.
- **Development of coal based non-conventional energy source:**
 - Subsequent to permission by the Government of India allowing CIL to explore and exploit CBM within its mining leasehold areas in July, 2015, following steps has been taken up:
 - ✓ Two blocks, one each in Jharia and Raniganj coalfield, have been identified respectively for commercial development of CMM. An Action plan has been drawn for taking up commercial activities in these blocks.
 - ✓ Efforts have also been made for pre-drainage of methane from Moonidih mine, BCCL for which offers received against EoI are under evaluation.
 - ✓ CBM studies for 8 no. of boreholes and shale gas studies in 5 no. of boreholes have been completed under PRE funding mechanism.
 - ✓ 1200 Mine Air Samples from CIL have been analyzed by the CBM Lab as against 1000 nos. last year thereby registering growth of 20%.
 - A UCG Policy framework has been approved by the Government and an Inter-Ministerial Committee (IMC) has been constituted by MoC with stakeholders from Ministry of Power, Chemical and Fertilizers, Coal and other Government organization. CMPDI has been made a nodal agency for development of UCG.

- ✓ A model contract and bid evaluation document is under formulation by M/s CRISIL, identified by CMPDI on behalf of MoC, for development of UCG.
 - ✓ 14 blocks (7 Coal + 7 Lignite) identified are under consideration of IMC for their development.
 - ✓ A workshop on “Challenges & Opportunities in development of UCG (deep seated coal)” organized by CMPDI for future development of UCG in the country.
- **Information and Communication Technology Services were provided to CIL and its subsidiaries:**
- ✓ Video Conferencing facility between CMPDI (HQ) and its Regional Institutes has been established and the same connectivity is being used as Secondary MPLS for data communication thereby improving the reliability of Wide Area Network.
 - ✓ Portal for capturing of data from all opencast and underground mines of CIL has been developed for preparation of Mine Capacity Assessment reports
 - ✓ The existing ILL of BSNL has been upgraded from 34 Mbps to 100 Mbps. The existing BSNL MPLS has been upgraded from 10 Mbps to 25 Mbps at HQ, and from 4 Mbps to 6 Mbps at Regional Institutes.
 - ✓ 4 Mbps Internet Lease Line (ILL) from RailTel Corporation India Ltd has been installed as secondary ILL.
 - ✓ As a part of Mission Mode Program of GOI, eOffice has been successfully implemented at HQ and all Regional Institutes. This has substantially improved office efficiency by speedy communication and brought down dependence on paper based communication.
 - ✓ CMPDI has also been entrusted with the task of co-ordinating the implementation of eOffice for entire Coal India Limited. The centralized infrastructure establishment process has been done by CMPDI and work orders have been issued.
 - ✓ The following centralized software has been developed and is being maintained by CMPDI for entire CIL:
 - a. Contract Labour Information Portal (CLIP) - registering contract labourers working in various subsidiaries.
 - b. Web enabled On-Line PMS (Performance Management System) - PRIDE for Executives upto E7 and PAR for Executives above E7.

- c. Human Resource Information System (HRIS) for all executives of Coal India Limited.
 - d. Vigilance Clearance System/Vigilance Monitoring System for CIL and subsidiaries.
 - e. On-line web enabled Annual Property Return system for all executives of Coal India Limited for the year 2016.
- ✓ Mobile Apps have been developed on behalf of Coal India for Ministry of Coal.

▪ **Consultancy Services outside CIL:**

- ✓ CMPDI has obtained **jobs worth ₹141.38 crores during 2016-17, which is the highest ever value of jobs received in a year till date, registering a growth of 257%** over last year. This includes consultancy jobs from Ministry of Coal, PSUs/Govt. Organizations and Private Companies.
- ✓ Jobs worth ₹23.11 crores have been successfully completed for the clients' viz. NMDC, MOIL, NALCO, MAHAGENCO, Tata Steel, DVC, SAIL, UCIL, Odisha Coal & Power Ltd., West Bengal Power Development Corporation Ltd., Jindal Power, Chhattisgarh State Power Generation Company Ltd., etc.
- ✓ Some of the major jobs obtained are 'Detailed exploration and preparation of GR of Mandakini-B coal block, Talcher Coalfield of NTPC', 'Detailed exploration and preparation of GR in dipside area and drilling for negative proving in the external dump area in Pakri-Barwadih Coal block of NTPC', 'Preparation of Mine Plan & Mine Closure Plan and Technical Consultancy Services in selection of MDO/MO for Manoharpur coal block of OCPL', 'Preparation of PFR, DPR and EIA/EMP etc. in respect of Baitarni-West coal block of Orissa Mining Corporation (OMC)', 'Preparation of Mine Plan & Mine Closure Plan, Rapid & Comprehensive EIA/EMP for Utkal D&E of NALCO'.
- ✓ One overseas assignment for "Preparation of Feasibility Study Report for Benga Coal Project of M/s ICVL in Tete Province of Mozambique" has also been obtained.
- ✓ An MoU between CMPDI & SBI Cap was signed on 29th Nov.'16 to establish a strategic alliance for aligning and cooperating with each other in the areas of strategic business and commercial interest. This collaborative effort is a significant step towards utilizing each other's strengths to increase the market share of

both CMPDI and SBICAP in the rapidly growing consultancy arena.

- Technical assistance was provided to the subsidiary companies of CIL in setting up of 15 nos. of new coal washeries. E-tendering module for tenders related to construction of washeries on BOM basis was developed. Eight nos. of tender documents were prepared for various washeries of CIL (3 on BOM Concept and 5 on BOO Concept). Reports for modernization of 4 nos. of existing washeries in BCCL was also prepared.
- A report on 'Study for Augmentation of Coking Coal production and washing of LVMC Coal in CIL mines' was prepared for Ministry of Coal.
- A report on 'Ascertaining Optimum Grade mix of Raw coal feed to BCCL washeries' was prepared.
- "Recognition Award for WIPS Activities in CMPDI" was received amongst 10 award winning PSUs in India in Mini Ratna category at the 27th National Meet of Forum of Women in Public Sector (WIPS) held at Nagpur.
- Solar Roof top power plants have been commissioned at one Regional Institute (RI) of CMPDI and work is in process for its installation at three more RIs.
- Pipe conveyor technology for conveying of coal has been proposed for Hingula, Lakhanpur and Bhubaneswari CHPs of MCL.
- An "Archive building" for keeping of files and records was constructed at CMPDI (HQ), Ranchi and was inaugurated by Chairman, CIL on 27th July'16.
- Aadhar enabled Biometric Attendance System has been implemented in CMPDI including all its Regional Institutes.

Workshops:

- A daylong National Workshop on 'Development of Safety Management Plan in Indian Mines - Way Forward and decent work for Contractor Workers' was organized by CMPDI and MCL under the aegis of DGMS on 18th January, 2017 at CMPDI headquarters, Ranchi. The

Workshop was attended by more than 250 representatives from the subsidiary companies of CIL, SCCL, UCIL, NTPC, NALCO, BALCO, SAIL, Hindalco, Vedanta, Tata Steel, etc. and other outsourcing agencies.

- A National Seminar on 'Challenges for Sustainable Development of Mining Industry to meet Energy Security' was organized on 12th Feb.'17 at CMPDI, Ranchi on the occasion of 28th National Convention of Mining Engineers.
- A capacity building international workshop on "Best Practices in Methane Drainage and use in Coal Mines" was organized at Ranchi on 9th -10th March, 2017, jointly by GMI-USEPA, UNECE and CIL-CMPDI under aegis of Ministry of Coal, Govt. of India.

CSR:

Govt. is putting emphasis on carrying out more **CSR (Corporate Social Responsibility) activities** by the Public Sector Undertakings and this has become mandatory under the Companies Act for all PSUs. Following major activities were carried out during the year 2016-17:

- 1) Financial Support to different schools in form of supply of desk bench, dress, study materials, sponsorship to poor and meritorious students.
- 2) Financial Assistance to R.K Mission Tuberculosis Sanatorium, Tupudana, Ranchi for procurement of Medical Appliances.
- 3) Construction of Hostel-cum Computer Centre and annual education expenses for 10 blind girl students of Braj Kishore Netraheen Balika Vidyayalaya, Ranchi.
- 4) Constuction of Toilet for Girl students with bore well at Pramathanath Madhya Vidyalaya, Hinoo, Ranchi and Govt. New School, Murum Khadan, Khamtarai, Bilaspur, Chattisgarh
- 5) Construction of a Players floor & ground flooring at Zilla Parishad Uchh Prathmik Shala, Nandori Chandrapur and Marda Warora Chandrapur Maharashtra.
- 6) Provision of Solar Lights at Gram Panchayat, Marda, Warora, Chandrapur, Maharashtra.

Skill Development:

In addition to skill development of its employees, training were provided to people outside the company:

- ✓ Internship training were provided to 235 persons against the target of 200 during 16-17.
- ✓ 23 persons were imparted training under Apprentice Act (BOPT)

Sports:

- ✓ 'Coal India Inter-Company Carrom tournament 2016', 'Inter-RI Lawn Tennis tournament' and 'Inter-RI Football tournament' were successfully organized by CMPDI at its headquarters at Ranchi during 2016-17.
- ✓ A four day "Yoga Awareness Camp" was organized from 18th to 21st June'16 with establishment of 'Yoga Centre' in CMPDI on the occasion of International Yoga Day which was overwhelmingly attended by the employees and their families.
