

COMPUTERISATION & I.T. ENABLED SERVICES

Activities of e-Tendering Cell in ECL:

During 2020-21, a total of 3892 tenders were published on CIL e-Tendering portal i.e. <https://coalindiatenders.nic.in> out of which a total of 1643 tenders were finalized, 290 were cancelled and the rest are at different stages of finalization.

In-house & remote training/assistance were imparted to areas/workshops using different modern software tools pertaining to processes involved in e-Tendering.

Interaction programme through webinar in respect of the issues of e-tendering in ECL with 42 Nodal Officers/Staff were conducted.

Digital Signature Certificates (DSC) were arranged for 56 officers of different areas and workshops including HQ during the year.

Average cycle period of completion of tender through e-Tendering portal has been maintained at an average of 126 days in 2020-21. Minimum cycle period of completion of tender through e-tendering portal is 11 days.



Special Achievements:

CoalNet: CoalNet application software has been implemented in Central Server at ECL HQ. Different modules of CoalNet software and their implementation status are as under:

CoalNet Module	Implementation Status
Finance	Implemented in all Area, Stores, Workshops and other establishments like Mines Rescue Station and Central Hospital Kalla.
Material Management	Implemented in all Area Stores and Workshops except Rajmahal Area Store where Oracle Based OMMS is running.
Sales Module (Rail & Road)	Implemented in all Area and Weighbridges.
PIS Module	Implemented centrally at ECL HQ.
Payroll Executive	Implemented in all Areas of ECL.
Payroll Non- Executive	Implemented in all Areas of ECL including Piece Rated Salary.
New Addition in OMMS Module	FOC Module in CoalNet OMMS has been implemented for accounting of free of cost materials.
New Addition in Sales Module	Sale Order closer software has been made ready for implementation.

Web Based Portal Development: Following web-based portals were developed during the year 2020-21:

Name of Web Based Portal	Description
Online Quarter Allotment System	Online portal for allotment of quarters to employees of ECL.
Mines Rescue System Management (MRSM)	Portal for managing Mines Rescue Services of the company. This portal contains details of rescue trained person across the company and the provision for summoning the Rescue Trained Persons (RTPs) during any emergency. Used for display of up to date colliery wise position of active RTPs.
CSR Portal	This portal showcases CSR policy, glimpse of major CSR works, Budget and expenditure, video gallery and events etc.

Activities under Mission SUMIT:

Mission SUMIT has been initiated which aims for Systematic Up-gradation of Mining & Information Technology. Since very old conventional technologies were being used in almost all the mines, as such, a need was felt for integration of Mining & Allied process with Information Technology through a project SUMIT. The following works were taken up under Mission SUMIT during the year:

Mine Gas Monitoring System: This System monitors the percentage of different gases (Oxygen, Methane and Carbon Monoxide & CO₂) available in the exhaust of Main Mechanical ventilation fan. It also monitors rpm and air pressure & real time monitoring is done which can also be viewed through internet. By analyzing the exhaust of mine, mine fire can be identified & accidents can be prevented. This system is installed at Khottadih UG, Pandaveswar Area.

Wireless Cage Communication System: This system maintains wireless communication among people located at pit top, pit bottom & inside the cage. This wireless communication from cage to pit top & pit bottom will become very helpful during emergency situation. Wireless cage communication system has been installed in Khottadih Underground Mines at Pit No. 2 of Pandaveswar Area. Five (05) sets of communication devices are installed, two inside cage, one at Pit Top, one at Pit Bottom & one with Winding Engine Operator.

CCTV Surveillance System: CCTV plays an important role in security and monitoring of processes. CCTV system has been established at mine view point in Sonepur Bazari Area and is in operation. At present, the live feed of CCTV system established at the weighbridges and coal heaps of Rajmahal Area is operational and monitored at CIL level. Seventy-two (72) nos of CCTVs are installed in Pandaveswar Area. Eighteen (18) nos of CCTVS are online i.e. can be access from anywhere through internet. For better performance and footage transmission from camera to Monitoring location, P2P Switches for wireless communication and optical fiber have been used. Continuous monitoring of coal siding, Area Store, Coal Heap and premises is maintained. 4 Pieces of Hidden Camera with LED Lights were installed in Khottadih Opencast Mines workshop to prevent theft and pilferage.

Weighbridge Automation System: ECL has successfully taken a step to implement “Weighbridge Automation System” for all the 105 road weighbridges of ECL with RFID based boom barrier access control system.

Online Quarter Allotment System (OQAS) (2020-21): Online Quarter Allotment System (OQAS) has been successfully launched in ECL HQ on 21.12.2020 under Mission SUMIT. URL:- secureloginecl.co.in/oqas.

SDL Simulator Model: SDL simulator model has been developed in Bankola Area, ECL under mission SUMIT. This will be useful for training of the workers before operating the real machine thereby helping them in safe operation of the SDL. This will ensure the safety of the machine as well as the co-workers.