

Caring for Environment.....

Giving back to society...

Promoting Sustainability...

Glimpses of Sustainable Coal Mining Activities



EASTERN COALFIELDS LIMITED

(A Subsidiary of Coal India Limited)



Eastern Coalfields Limited- An Overview

Eastern Coalfields Limited (ECL), a subsidiary of Coal India Limited, is a coal mining Public Sector Undertaking and falling in the States of West Bengal & Jharkhand. It operates in Raniganj Coalfield in in Districts of Paschim Bardhaman, Purulia and Bankura of West Bengal and in Saharjuri coalfields and Rajmhal coalfields in districts of Dhanbad, Deoghar and Godda of Jharkhand state. The company has its Headquarters in Sanctoria, Paschim Bardhaman. ECL has a rich heritage of Underground coal mining in India. The History of ECL can be traced back to the beginning of Coal Mining in India which dates back to 250 years from now in the year 1774 in the Raniganj Coalfields of West Bengal. It was started by John Summer and Grant Heatly.

Private coal mining continued in the Raniganj Coalfield region for about 200 years until the formation of Coal India Limited in the year 1975. Eastern Coalfields Limited was made a producing subsidiary of Coal India Limited.



Sustainable Development Cell

Under the aegis of Ministry of Coal, Govt. of India a Sustainable development cell has been constituted in Eastern Coalfields Ltd. with a objective to promote environmentally sustainable coal mining in the company.

Thrust Areas



Plantation and Eco-park



Mine water Utilization



Pollution control and mitigation



Renewable & Energy efficiency

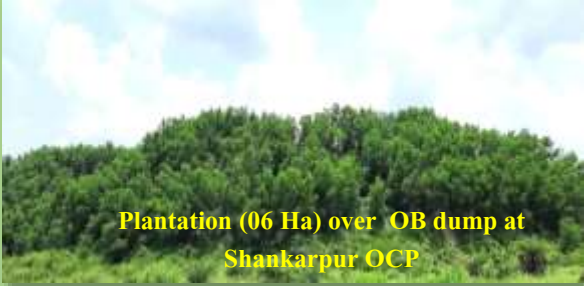


Gainful Use of Overburden




Awareness and information dissemination

ECL promotes sustainable plantation and its plantation activities are aimed at ecosystem restoration enhancement of biodiversity and creation of carbon sink. ECL has created plantation over 2962 Ha since 1994. In the last three FY ECL has created 393.14 Ha of Green Cover in the coalfields.



Plantation (06 Ha) over OB dump at Shankarpur OCP



Orchard Plantation (03 Ha) Sodepur Area

ECL has always aimed to create plantations for societal benefits by creating Orchards. In the last 10 years 27 Ha of orchards of fruit bearing trees have been created.



Gunjan Ecological Park



Orchard Plantation (08 Ha) over subsided land



Gunjan Ecological Park

Twenty Six parks and Gardens have been developed across ECL.

Three new Eco-Park to developed in next three financial year

Parks are expected to attract huge number of tourist and will be integrated with local tourism circuit



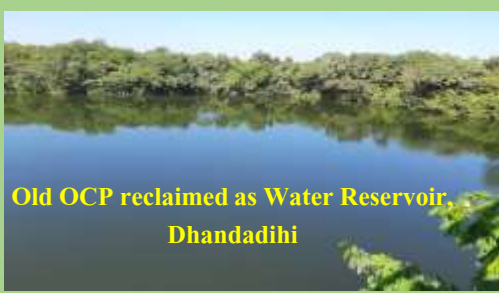
Buddha Park, Bankola Area



Proposed Jhanra Eco-park



Buddha Park, Bankola Area



**Old OCP reclaimed as Water Reservoir,
Dhandadihi**



Dhandadihi Water Treatment Plant

Mine water is being effectively utilized by local community. More than 200000 beneficiaries from 160 nearby villages are benefited by drinking water supply. Apart from this 575-Ha land in 86 villages uses mine water for irrigation



**RO Water Treatment Plant, Satgram
(capacity 5000 L/Hour)**



**Pressure Filter Plant, Jhanjra
(Capacity 32000 GPH)**



Mist Gun, Rajmahal



**Sensor Based Mist Sprayer,
Rajmahal**



**First Mile Connectivity,
Sonepur Bazari**

**DUST
SUPPRESSION
MEASURES**



Mist Sprayer, Satgram

Company is pursuing First Mile Connectivity (FMC) Projects to unlock constraints of transport of coal by road from mine to a rail rake and thus reduce pollution caused. EOL Envisages transportation of 42.5 MT of coal through FMC



**30 KWp Roof Top Solar Panel,
Bankola**



**35 KWp Roof Top Solar Panel,
Jhanjra**

ECL plans to become **NET ZERO CARBON COMPANY** by installation of 32 no. of Solar power projects in Pan India basis with a total capacity of 526.665 MW by FY 2023-24. It is estimated that total carbon offset from this solar project will be 899104.5Te per year



250 KWp Roof Top Solar Panel, Central Hospital Sanctoria

**Processed OB plant at Jambad
OC of Kajora Area**



ECL has taken an pilot project for alternative usage of Over Burden and is in the process of installation of Processed OB plant at Jambad OC of Kajora Area.

ECOLOGICAL STUDY OF MINES

Assessment of ecological status of reclaimed site of 245.20 ha at Sonapur Bazari OCP with the existing biodiversity and ecological gain using field-based study has been Conducted by CSIR-Central Institute of Mining and Fuel Research (CIMFR), Dhanbad. Study indicates that, Reclamation with different plant species significantly altered the ecosystem carbon pool in 10 years, indicating that increased revegetation age, increased tree biomass, and greater carbon accumulation in plant species and mine soil could potentially offset high CO₂ emissions due to mining.

Glossary



World Environment Day 2022



Vriksharohan Abhiyan (VA)



Inauguration of Jhanjra Eco-Park in VA 2022



Millennials of Coalfields and their view on Environment
– Painting competition organized by ECL