



Coal Ministry Accelerates Sustainable Development Efforts: Constitutes Sustainable Development Cell

Coal and Lignite Companies plan to Install Additional 5560 MW Renewable Capacity Investing Rs.15000 crore by 2030

39 First Mile Connectivity Projects worth Rs.13000crore in Coal Sector by 2023-24

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With recent announcement on new climate targets by the Prime Minister at COP26 under 'Panchamrit Strategy', India has taken a big step towards cementing its commitment to clean energy. Since coal has to play a role of primary fuel for power generation in our country for the time being, till renewable source fully caters to our energy demand, Ministry of Coal, in line with the commitment, has already moved forward with a comprehensive Sustainable Development Plan. Action has already started for its speedy implementation. Emphasis is to put major thrust on Sustainable Development in coal mining, taking care of its environmental and social impact.

A full-fledged Sustainable Development Cell (SDC) in Ministry of Coal has been established to advice, mentor and plan action to minimise the adverse impact of mining. Apart from suggesting way-forward, its implementation and monitoring, SDC is also formulating future policy framework for environmental mitigation in Coal and Lignite sector of our country. Extensive work by Coal India Ltd. (CIL) and its subsidiaries along with Singareni Coal Company Ltd. (SCCL) & NLC India Ltd. (NLCIL) has already started, effect of which could now be seen in some of these mining companies.

In line with the commitment of our country to reduce the total projected carbon emissions by one billion tonnes from now onwards till 2030, **Bio-Reclamation of mined out** land has already been taken up on a big scale by all coal companies through massive tree plantation drive. In next five years target is

f to cover more than 12000 hectares of land for plantation which will help in having carbon sink potential to the tune of more than one lakh tonne per annum. Monitoring of such efforts is being done through remote sensing.

🐦 In order to contribute in our commitment to increase non-fossil energy capacity to 500GW by 2030, Coal & Lignite companies have planned to install additional 5560 MW of **renewable capacity** with an investment of over Rs. 15000 Crores. This will take the total installed capacity to 7 GW. Coal India alone has planned to install 3 GW of solar Power in next 5 years to achieve its net zero target.



Solar Park (30 MW) at Manuguru, SCCL

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in **First Mile Connectivity (FMC)** is other major initiative by coal companies to minimise environmental pollution, where coal is being transported through conveyor belt from Coal Handling Plants to Silo for loading. This process eliminates movement of coal through road. Taking a big step, 39 such projects have been planned to be commissioned by 2023-24 with an investment of over Rs. 13000 Cr. CIL alone will enhance its mechanical loading and transport of coal from the present level of 120 million tonnes to 565 million tonnes by 2023-24. These FMC projects will save diesel worth Rs.2100 crores per annum. There will be reduction in vehicle density by 2770 trucks per hour paving the way for significant reduction in carbon emission.



FMC Project at Nigahi OC of NCL – Rapid Loading with closed Belt Conveyor

Similarly, Surface **Coal Gasification Projects** have been planned for Syn Gas production to be used further either for production of Methanol/Ethanol, Urea or Petrochemicals. This will be a way forward for use of dry fuel as green coal with relatively lesser carbon footprint and environmental pollution. One such CIL JV project of 2.5 MTPA capacity is already in operation in Talcher Coalfield in Odisha. Other five projects with an investment of about Rs.30,000 Cr is under formulation by different Subsidiaries of CIL.

Use of LNG to **substitute diesel consumption** in mining and coal transport equipment has also been planned on a massive scale. Pilot Project has been initiated in one of the coal companies. This technology will be replicated shortly in coal transporting dumpers in the first phase for substantial reduction in carbon footprint.

On social front, priority has been given on gainful utilisation of Mine Water for irrigation and providing treated water for drinking to rural population in and around command area of mining subsidiaries of CIL, SCCL & NLCIL. Huge volume of mine water released during mining operation is partially utilised for internal consumption in mining area for providing drinking water in the colony, dust suppression etc. Some of the subsidiaries of CIL are already providing mine water for irrigation purpose and drinking water to nearby villages. Target is **to provide 4600 lakh cubic meter of mine water for drinking and irrigation purpose to adjoining villages in next 5 years**. This will cover rural population of 16.5 lakh with irrigable potential of around 3.4 Lakh acres of rural land.



Mine Water discharge from Pipla UG in WCL benefitting around 17000 villagers

On showcasing clean environment front, 12 new Eco-Parks in mining area are under different stages of development in all the subsidiaries of CIL, SCCL & NLCIL and will be completed by next year. WCL has already developed a huge Eco-Park in its mining area near Nagpur and is running Eco-Mine Tourism Circuit, a first of its kind in India, in collaboration with MTDC where people visit mining operation of both Opencast & Underground Mine. On similar pattern, Eco-Mine Tourism Circuit is going to start shortly in different coal companies with an investment of over Rs. 100 crores to showcase efforts made by coal companies in environmental protection. Bamboo plantation along coal transport roads and on the edges of mines will help in minimising dust pollution.

f Extraction of sand from Over Burden (OB) dump for use in construction is another unique initiative for sustainable development. This will not only help in availability of cheaper sand to masses for house and other construction but will also minimise the land required for OB dump in future projects. Such effort has already started in WCL, where sand produced through large Sand Processing Plant is **🐦** being used for low cost housing scheme under PradhanMantriAavasYojana (PMAY) and also for construction by other Govt. & Private Agencies. Sand Plants contributing over 1.3 crore cubic meter in **🗨️** next 5 years are being erected in different coal and lignite companies.

In addition to this, Energy Efficiency Measures are also being taken for reduction in carbon foot print. **✉️** New environment friendly mining equipment have been introduced on a mass scale by different coal companies to mitigate impact of carbon emission.

in All these activities will pave way in coming five years for benchmarking a better Sustainable Development effort by Coal Industry on Economic, Environmental and Social front and also in line with the commitment made in COP26.

MV/RKP

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