

## **Salient Features of Short-term Contract for Development & Operation of Banhardih Coal Mining Project**

**A.** The Banhardih Coal Mining Project is an open-cast coal block located in the Latehar District of Jharkhand. The key feature of the package is as below:

- This short-term contract is focused on exploiting **34.50 Million Metric Ton (MMT)** by removing **267.89 M. cum** of overburden at an average stripping ratio **7.76 cum/t**.
- This package is aimed at expediting the operationalization of the coal block through a short-term contract for **5 Operating years** with a development stage of **360 days**.
- The contracted quantity of 34.50 MMT shall be ramped up in subsequent years i.e Y1: 1.0 MTPA, Y2: 6.5 MTPA, Y3: 7.5 MTPA, Y4: 9.0 MTPA, Y5: 10.5 MTPA.
- Mining shall be carried out as per the approved mining plan & mine closure plan approved by Ministry of Coal, the area identified for this contract shall be as per the 5<sup>th</sup> year stage plan, for the area which is explored.
- Coal Quality: Average Grade of Coal is G11 (4001 – 4300 Kcal/Kg) with a range from G8 to G14.
- The mine development shall interalia involve land acquisition and R&R related activities such as interaction with PAPs, State Government and other agencies, physical possession of land for mining activities (Mining, dumping, Nallah Diversion, Road Diversion and other associated activities), for which a facilitation charges shall be paid to the mine operator (Short-term contractor).
- The package also includes development of infrastructure facilities like equipment workshop, pumping arrangements, haul road maintenance, construction of internal roads / culverts etc., and discharge of coal to delivery point of (-) 100 mm size within the block boundary and compliance to all statutory rules, regulations, and laws as applicable.
- The mine operator shall also carryout diversion and strengthening of Nallahs and construct road for village road diversion on fixed amount basis.

The MDO shall plan, design, engineer, finance, construct, develop, operate and maintain the Banhardih Coal Block (for which Mining Plan and Mine closure Plan has been approved by MoC) in addition to obtaining all statutory clearance to deliver coal of specified quantity and quality to PVUNL.

**B.** As a brief of the entire coal block, the Banhardih Coal Mining Block has an approved mining plan capacity of 12 MTPA (PRC scheduled to be achieved in 7<sup>th</sup> year). The total block area of the project spans 1818 Ha, with 1467 Ha designated for mining operations as per the approved plan. Of this, 1049 Ha has been explored, while 418 Ha remains unexplored, in which exploration is under progress by CMPDIL. An additional 139.87 Ha is set aside for infrastructure purposes, including railway siding, township, project office, and the R&R colony. The geological reserves of the project amount to 1536.55 million tonnes (Mt), with 401.56 Mt of reserves considered for mining up to a depth of 300 meters. The extractable reserves, according to the approved mining plan, total 250.50 Mt. In terms of excavation, the project involves handling a total overburden volume of 1173 million cubic meters (M. cum), which includes 17.94 M. cum of topsoil and 1155.06 M. cum of overburden. The stripping ratio for the mine is 4.68 cum/t. The mining method employed will be open-cast, utilizing a combination of shovel and dumper along with surface miner for efficient excavation. The coal seams in the area have a steep gradient, ranging from 20° to 45°. The life of the mine is projected to be 33 years, with 30 years allocated for coal production and 3 years reserved for overburden rehandling.

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