

BRIEF SUMMARY

Manoharpur and Dip-Side of Manoharpur Coal Mine project (Expansion of Manoharpur Coal Mine) at villages Manoharpur, Paramanandpur, Kathafali, Ghumudasan, Dulanga, Durubaga, Katarbaga, Laikera and Sarbahal, Tehsil Hemgir, District Sundargarh, Odisha, of M/s Odisha Coal and Power Ltd. (regarding TOR)

This application is for request for issuance of Terms of Reference for the above mention project of Odisha Coal and Power Ltd. (OCPL) along with Form-I and Pre Feasibility Report (with relevant annexures).

OCPL has been allotted the **Manoharpur and Dip-Side of Manoharpur Coal Mine** by Ministry of Coal for supply of coal to OPGC for 4X660 MW power generation.

Of the above, Manohar Coal block has already received an environment clearance from MOEF&CC vide letter no. J-11015/139.2008-IA.II(M) dated 21.02.2014 for project area of 977.875 ha and capacity 8 MTPA. Dip-side Manoharpur is contiguous to Manoharpur Coal Block, hence, it is planned to extract the coal through a common quarry area in interest of mineral conservation. The mining plan has been accordingly prepared for both blocks together, which has been approved by the Ministry of Coal on 26.09.2019 & 01.10.2019. Thus, this proposal is an expansion of the Manoharpur Coal Mine Project of 8 MTPA over an area 977.875 ha expanding to 16 MTPA over an area of 1848.379 ha.

The required mine lease is 1781.591 ha. The area required outside lease is 66.78 ha. Thus, total project area will be 1848.379 ha. The production from the mine will be through open cast method for a design capacity of 16 MTPA. The Approved Mining Plan (Including Mine Closure Plan) (Rev-III) is also of the same capacity and area. The mine will be operated through Opencast Mechanized method. Life of mine shall be 44 years. The coal will be transported by road/ rail.

Presently project area has agricultural 531.127 ha (502.81 in ML area & 28.317 outside ML area), Homestead land (18.47ha), water body(29.989ha), Forest 618.644 ha (609.205 ha in ML area & 9.439 ha outside ML area), Barren Land 582.928 ha (553.896 ha inside the ML area & 29.032 outside ML area) & Grazing Land 67.221ha.

Proposed land use at end of life of mine shall comprise of Excavation Area (1234.44 ha), Top Soil Dump (10.84 ha), External Dump(269.51 ha), Green Belt (50 ha), Water Reservoir near pit/Water body (8.56 ha), Colony (66.788 ha), Road, Infrastructure & dispatch (155.166 ha) and Balance area in Safety Zone/ Rationalisation area/ nala Diversion/ Garland drains/ Embankment/ Mining right and Undisturbed area.

There is no national park/ sanctuary located within 15 km. Various Protected forests and Reserved forest are located in 15 km radius of the project some of them are as follows: Hunderakhol R.F. (Within ML), Kanhupahad RF (RF near Kathapali) (Within ML), Satparlia R.F. (0.07 km, E), Kalamegha R.F. (0.2 km, E), Balijori R.F. (Adjoining NE), Jhatikhol R.F. (2.1 km, N), Dense Sal R.F. Near Durubagal (0.52 km, NNW), Giripahar R.F. (1.7 km, S), Makurachata R.F. (3.2 km, SE), (5.8 km, S) Chhengapaharh R.F. (1.5 km, S) Punjipaharh R.F. (6.3 km, NNE) Garjanjor R.F. (0.27 km, NW) Lalma R.F. (6.0 km, N) Korbahal P.F (10.0 km, WNW) Kanthidungri P.F. (1.8 km, SW).

Various rivers and nalas are present in the 15 km radius study area. Some of them are Garia Nala (within ML), Brahmani Nala, (1.0 km, SW), Lilari Nala (1.4 km, SSE) and Ichha Nadi (14.2 km, NE). Nearest city is Sundargarh at 30 km NE. The site falls in Seismic zone-II.

The proposed project will have a manpower of 205 by OCPL and about 500 through Mine Operator. Water requirement for the project is estimated as 3780 KLD. Which will be sourced from Hirakud reservoir & ground water. NoC for abstraction of 720 Cum/day of ground water has been obtained from CGWA. Further, approval of drawal of 5.55 cusec water from Hirakud Reservoir has also been obtained. Mine discharge water will be collected in a sump pit located in the mine floor from where it will be pumped out and diverted to mine discharge treatment plant consisting of oil and grease trap and sedimentation pond(s) with chemical dosing arrangement to arrest suspended solids and oil and grease. Oil and grease will get generated in the workshop where effluent will be skimmed and separated by oil water skimmer and will be sold to recycling authorized vendor.

As per the approved Mining Plan, the maximum connected load is planned for 45 MW, to be brought through transmission line from Remja substation initially and later from Darlipalli substation of NTPC.

Total cost of the proposed project will be Rs. 2143 crores.

No rejects will be generated during coal minning. The over burden and soil cover will be removed before minning the coal and sent to dumping area as well as backfilled. Soil and overburden is non-toxic in nature, hence, water contamination due to mining is not anticipated. The top soil shall be used simultaneously for the plantation over backfill areas, in green belt, avenues, colonies and other areas.