

# Rajrappa OCP & Washery (3.00 MTPA)

## Executive Summary

1	<p>Rajrappa OCP &amp; Washery is an operating project under Rajrappa Area of Central Coalfields Limited, Jharkhand. The DPR for Rajrappa OCP for a rated capacity of 3.0 MTPA of ROM coal capacity was sanctioned by the Govt. on 17.6.1983, at an estimated capital investment of Rs. 91.46 crores. A revised RCE has been prepared with a capital outlay of Rs. 510.85 Cr and was approved by CIL board in its 364 th meeting dated 23/12/2009.</p> <p>Rajrappa washery is also an existing project located within the acquired area of Rajrappa OCP. Rajrappa washery was designed for a rated capacity of 03 MTY ROM in 1975 with a capital outlay of Rs. 2576.89 Lakhs.</p>
2	<p>Rajrappa OCP and washery are located in the Ramgarh Block-I, Block II &amp; Block-IV of south-eastern part of Ramgarh Coalfield, Ramgarh &amp; Bokaro District, Jharkhand State. The block is bounded by latitudes 23°34'40'' N to 23°38'33'' N and longitudes 85°39'44'' E to 85°42'45'' E. The block is covered in Survey of India toposheet no. 73E/10 (RF: 25000).</p>
3	<p>The proposed project is characterized by generally undulating and the general slopes towards the Damodar river. The maximum and minimum elevation is 340 m &amp; 300 m respectively.</p>
4	<p>Rajrappa OCP &amp; washery is connected by an all-weather road to Ramgarh &amp; Bokaro. The National Highway NH-33 is connected to Ranchi and Hazaribagh from Ramgarh. The nearest railway station Barkipona is about 06 km from the block. The nearest township Ramgarh is about 20 km from Rajrappa OCP.</p>
5	<p>Environmental Clearance of Rajrappa OCP was granted vide letter no J-11015/10/88-IA-II(M) dated 23.11.1992 for coal production capacity of 3.0 MTPA. Rajrappa washery obtained Environmental Clearance vide letter no. J-11015/4/85-IA dated 30.01.1987.</p>
6	<p>Pre-feasibility report of Rajrappa OCP and washery is being prepared for the rated capacity of 03 MTPA within the project area of 2263.83 Ha. for making an application in Form I for EC as per MoEFCC notification no: S.O 1530 (E) dt. 06.04.2018</p>
7	<p>The project area of present proposal is 2263.83 Ha. (Block II: 585.65 Ha. &amp; Block I&amp;IV: 1678.18 Ha). Proposed capacity of OCP and Washery is 03 MTY. The total mineable reserves as on 31.03.2018 have been estimated as 78.46 M.tonne corresponding to a volume of OBR of 241.77 Mm<sup>3</sup> at an average stripping ratio of 3.08 M<sup>3</sup> per tonne. Total estimated life of mine and washery is 29 years.</p>

8	It is proposed to backfill the total OB generated from Block I, II& IV into the mine void created in Block I & IV.
9	6 no of seams from seam V to seam IIIA have been proposed for working. The seams are dipping between 6 deg to 10 deg. The maximum depth of the quarry is 150m and the surface area of excavation of the above quarry is 437.65 Ha in Block I&IV and 389.08 Ha in Block II.
10	The Main source of Power supply of Rajrappa OCP & washery is DVC (Gola sub-station). The power is received at the main sub-station. Transformer Proposed: 2 x 12.5 MVA, 33 / 6.6 kV.
11	The avg. quantity of raw coal fed into washery is 9090 TPD. The ash content of raw coal is 28% and that of washed coal is around 12-15%. 60% of raw coal is converted into product, 22% of middling and 18% as rejects.
12	The total mine water discharge is 8500 Cu.m/day The industrial and domestic demand is 4200 MLD including 1600 MLD of water requirement for washery
13	The existing manpower for Rajrappa OCP & washery for a rated capacity of 03 MTY of coal has been estimated as 1542 Executive : 96 Monthly Rated& Daily Rated : 1446 Total : 1542
14	The project includes land of 14 villages in Ramgarh Dist. and 2 villages in Bokaro Dist. The Buffer zone consists of around 80 villages surrounding the area at 10 Km radius from the Core Zone.

