

Brief summary of KDH Extension OCP (4.5/5.0 MTPA), North Karanpura Area, CCL, Ranchi, Jharkhand

The environmental clearance for this Project was last granted in 1993 for a rated capacity of 4.50 MTPA and lease area of 545.82 Ha vide letter Number J-11015/35/84-Env.5/IA.II (M) dated 29.10.1993.

The present proposal has been prepared by extending the dip side boundary of the existing KDH OCP (4.5 MTPA) without any expansion in the mine capacity and named as KDH Extension OCP (4.50 /5.0 MTPA) in non-forest land only.

This will increase the mine life from four years in existing part to nine years (4 years in existing part +5 years in phase-I). In this proposal, the increase in lease area is to the tune of 18.54 Ha, so the total lease area after the implementation of KDH Extension OCP in phase-I will be 489.30 Ha.

Location / site alternatives under consideration:

It is located in the south central part of North Karanpura Coalfield and is included in Survey of India toposheet no. 73 E/2 and 73 A/14 in Ranchi district of Jharkhand. KDH Opencast project is bounded between latitude 23°39' 21" to 23°42'0" and longitude 84°59'15" to 85°00'24".

The mine is located at about 65km from Ranchi. The Khalari railway station on the Gomoh-Dehri-on-Sone loop line of the Eastern Railway is about 1 km from the southern extremity of mine. Refer Plate-I for location plan.

The Extension Project Report of KDH OCP (4.50/5.0 MTPA) has been proposed in order to sustain the level of production from the existing KDH OCP and also to fulfill the demand of power grade coal from N.K. Coalfield and to reduce the gap to some extent of demand and production of CCL for XI plan period.

The existing project area is nearing exhaustion having balance reserves of about 14.51 MT of coal and 22.50 Mcum of OB at a stripping ratio of 1.55cum/te is left. The balance life of existing mine will be about 4 years. So it is proposed to exploit the coal seams in the dip side of the existing KDH Expn OCP from K3 Seam to Lower Dakra Seam which is demarcated by the KD South Geological Block and a part of Karkata Geological Block (upto Kendua Nala in the West). The proposed Project Report has been prepared by extending the dip side boundary of the existing KDH Expn OCP (4.50/5.0 MTY) into the above area without any expansion in the mine capacity.

The Project Report envisages shovel dumper combination of mining for normative capacity of 4.50 MTY. The mine can achieve peak capacity of about 5.00 MTY in any one or more years during its production plan period.

Coal evacuation is proposed through pit top CHP & Railway siding.

Purpose of submission of Form-I

The purpose of submission of Form-I is to apply for grant of environmental clearance for the proposed extension of KDH OCP of 4.50 MTPA normative capacity and 5.00 MTPA highest achievable capacity in phase-I extension part.

Size of the Project:

Normative capacity 4.50 MTPA and highest achievable capacity 5.00 MTPA.

Land Requirement:

Additional 18.54 Ha.

The break-up of land requirement is given below:

Particulars	Existing	Proposed Extension		Proposed Total	
		Phase-I	Phase-II	Phase-I	Phase-II
Area (Ha)	470.76	18.54	186.61	489.30	675.91
Normative Capacity (MTPA)	4.50	4.50	4.50	4.50	4.50
Peak Capacity (MTPA)	4.50	5.00	5.00	5.00	5.00

Project Life :

Sanctioned Project	4 Years (Balance)
Extension Project	25 Years
Total Life	29 Years