

**BRIEF SUMMARY
OF
INTEGRATED LAKHANPUR- BELPAHAR- LILARI OCP
(40 MTY)**

INTRODUCTION

Ib-valley coalfield is located in Jharsuguda, Sambalpur and Sundergarh districts of Odisha between 21°42'12" N to 21°47'20" N Longitudes: 83°48'00" E to 83°52'41" E in toposheet 64O/13 & 64O/14 with Scale 1:50,000. The coalfield is named after the river IB, a tributary of the river Mahanadi.

Coal demand from Ib-valley coalfield has increased many fold due to its strategic location with Howrah-Mumbai railway line passing through the coalfield. Coal of this coalfield is suitable for thermal power plants.

Many pit head power plants and other coal based plants have come up due to easy availability of coal and water. The southern, western & central India power stations have to depend on Ib valley coalfield for their growth. The Howrah-Mumbai line passes through the coalfield. So coal can move from this coalfield to western India power houses via rail route. Coal to Tamil Nadu Electricity Board is also supplied via rail-cum-sea route through Vishakhapatnam and Haldia ports. Coal can easily move from this coalfield to Eastern India and Northern India as well. Necessary infrastructure facilities like rail etc. are being developed/ augmented in the region.

The proximity of Ib-valley coalfield to Hirakud reservoir has generated a lot of opportunities for setting-up super thermal power stations in the vicinity of the coalfield.

In the present proposal, Lakhanpur, Belpahar and Lilari OCPs have been proposed to be integrated into one mine to exploit all the three principal seams of the coalfield i.e. Ib, Rampur and Lajkura by open cast mining.

The capacity of the proposed project is 40 MTY with mine lease area of 4399.246 Ha and total project area of 4742.877 Ha. The mine life is 41 years.

➤ **STATUS OF INTEGRATED LAKHANPUR- BELPAHAR- LILARI OCP**

Lakhanpur, Belpahar and Lilari OCPs have been proposed to be integrated into one mine.

➤ **PROJECT REPORT**

The CIL Board in its 364th meeting held on 22.05.2018, approved the Project Report for Integrated Lakhanpur-Belpahar-Lilari OCP.

➤ **MINING PLAN**

Mining Plan for Integrated Lakhanpur-Belpahar-Lilari OCP (40 MTY) was approved by MCL Board in its 205th meeting held on 23.10.2018. (Annexure - III)

➤ **STATUS OF EMP**

For Lakhanpur OCP (21.0 MTY), EC was granted by MoEF&CC Govt. of India vide letter No J-11015/391/2012-IA.II (M) dated 28.02.2018.

For Belpahar OCP (9.0 MTY), EC was granted by MoEF&CC Govt. of India vide letter No J-11015/189/2008-IA.II (M) dated 22.01.2015.

For Lilari OCP (1.69 MTY), EC was granted by MoEF, Govt. of India vide letter No. J-11015/27/89-IA dated 30.07.1990.

➤ **STATUS OF FORESTRY CLEARANCE**

The proposed project is an integration of 3 different existing mines i.e. Lakhanpur OCP, Belpahar OCP and Lilari OCP. Total Forest land involved in proposed project is 958.695 Ha. Out of which FC has been obtained for 541.622 Ha whose details are given below.

Following are the FC letters: (Annexure-I)

1. Lakhanpur OCP (233.43 Ha)

Forest Clearance was obtained for forest land 233.43 Ha vide letter no. 8-280/89-FC dated 08.10.1990 Government of India MoEF.

2. Belpahar OCM (123.220 Ha + 22.772 Ha)

a) 123.220 Ha - Diversion of Forest land was obtained for 103.52 Ha vide No: 8-104/89-FC dated 02.06.2000 and 19.70 Ha vide no.8-104/1991-FC dated 15.09.2014 Government of India MoEF&CC.

b) 22.772 Ha - Forest diversion of 159.616 Ha vide no. F.No.8-93/2012-FC Dated 19.01.2015 out of which 10.453 Ha falls within area of Integrated Lakhanpur-Belpahar-Lilari OCP & Stage-I forest clearance of 13.630 Ha obtained vide no: 5-ORA155/2012-BHU Dated 23.05.2017 out of which 12.319 Ha falls within area of Integrated Lakhanpur-Belpahar-Lilari OCP. Diversion done by OPGC.

3. Lilari OCP (162.20)

Forest Clearance was obtained for forest land 162.20 Ha vide letter no 8-281/8-FC dated 31/07/1990.

For the remaining forest land area of 417.073 Ha, application is under process.

LOCATION AND COMMUNICATION

Lakhanpur-Belpahar-Lilari Integrated OCP (40.0 Mty) is proposed within Combined Belpahar I,II & III Geological block of Rampur tract of Ib-valley coalfield, in Jharsuguda distt. of Odisha.

Belpahar I, II & III combined block is situated between the latitude 21°42'12" – 21°47'20" N and longitude 83°48'00" – 83°52'41" E in the district of Jharsuguda, Odisha, covering an area of 42.81 sq. kms.

The block falls under Survey of India toposheet no. 64O/13 & 64O/14 on R.F. 1:50,000 and Survey of India special toposheet nos. C-4, C-5, B-4, B-5 and D-4 on R.F. 1:10000.

The area under consideration is well connected by rail and road to all important business and industrial centres of the country. The Mumbai-Howrah main line of the SE railway passes close to the northern boundary of Belpahar I,

II & III combined block. The Belpahar railway station is situated at a distance of about 5 km. Jharsuguda, the dist. Headquarter is 30 km from the area. Jharsuguda is connected with Sambalpur-Rourkela and Bilaspur by a state Highway No.10. The district headquarter Raigarh of State Chhattisgarh is also around 70 km away from Belpahar.

The block is also connected with different working opencast coal mines of MCL viz. Lakhanpur OCP, Belpahar OCP and Lilari OCP (all within the block). Samaleswari OCP, Lajkura OCP, HR collieries, Orient collieries, Hirakud Bundia Inclines etc. of MCL are all within 5 to 15 km away from the block. Tata Refractories Limited (TRL) is situated in the Gomodera small township, 2 to 3 km away in the north western corner of the block. Ib Thermal Power Station of OPGC (Odisha Power Generation Corporation of Govt. of Odisha) is situated around 2 to 3 km away, from the southern boundary in the south-east corner of the block and is well connected by road.

GEO-MINING CHARACTERISTICS:

Sl. No.	Particulars	Unit	Value
1	Quarry floor area	Ha	3034.31
2	Quarry surface area	Ha	3688.56
3	Mineable reserve as on 01-04-2018	Mt	1262.86
4	Overburden	Mcum	4334.33
5	Stripping ratio	cum/t	3.43
6	No. of workable seams/ sections	No.	11
7	Annual peak capacity	Mt	40
8	Life from 01-04-2018	Years	41
9	Average seam gradient	Degrees	4-6
10	Strike length(along floor)	m	9427
11	Strike length(along surface)	m	10145
12	Quarry depth		
	Maximum	m	354
	Minimum	m	5
13	Quarry perimeter (from beginning)	m	33853
14	Dip-rise length		
	Along floor	m	4276
	Along surface	m	4994