



CHECKLIST NO-4

DETAILED NOTE ON THE PROPOSAL

DIVERSION OF 44.64 Ha. OF FOREST LAND & 13.09 Ha. OF LOOKLIKE FOREST OVER GOVT. NON-FOREST LAND INCLUDING CHANGE IN LAND USE OF 0.18 Ha. OF ALREADY DIVERTED SAFETY ZONE WITH MAINTAINING 0.36 Ha. OF NEW SAFETY ZONE FOR BHARATPUR OCP EXPN. OF M/S MAHANADI COALFIELDS LIMITED.

FORM-"A"

(Form for seeking prior approval under section-2 of the proposals by the State Governments and other Authorities)

Part-I

(to be filled by user agency)

1. PROJECT DETAILS:

i. Short narrative on the proposal and project/ scheme for which the forest land is required:

The proposed Bharatpur Expansion OCP lies in Kalinga east geological blocks which belong to MCL. Owner of the mine is Mahanadi Coalfields Limited (MCL), a subsidiary of Coal India Limited, a Central Public Sector company. MCL operates its coal mines within the State of Odisha, which has two major coalfields, Talcher & Ib-valley. Bharatpur mine is in Talcher coalfield, situated on the western part of Brahmani River, in the Mahanadi River basin. Bharatpur has proposed for a mining plan of 13.65 square kilometer of block area, out of which 6.81 square kilometer is approved & Mining Plan is ready. The Geological Report named "Revised Geological Report on Coal Exploration Bharatpur Reorganization Block" was prepared in February 2014 by CMPDIL on full payment basis from Mahanadi Coalfields Limited.

The net coal reserve in the proposed geological are is 828.826 Mt, out of which the approved blocked reserve is 213.656 Mt. Mineable coal reserve is 663.016 Mt, while the extractable coal reserve is 639.491 Mt. Coal reserve that is depleted is 231.833 Mt.

Jagannath open cast mine is on the eastern side of Bharatpur mine. Jagannath mine was going to be exhausted. In order to add life to Jagannath mine, a part of planned Bharatpur mine was transferred to Jagannath mine. In order to obtain environmental clearance for extended Jagannath mine, the boundaries of Bharatpur mine had to be adjusted as per new common boundary and obtain approval of revised mining plan.

Since Coal is site specific, the proposed expansion of Bharatpur OCP into Kalinga-east block with an additional area of 629.52ha which also involves 44.64ha of forest land is vital. Also to meet the energy demand of the nation and to narrow the demand-supply gap, the proposed expansion is required.

If analyzing on the cost benefit ratio, the project benefits Rs 18237,93,65,192.80/- to the nation's economy while losing an amount of Rs 142,20,54,599.72/- on grounds of Forests. So, the Cost - Benefit Ratio is 1: 128.25.



The total area of the proposed expansion mine is 1556.94 Ha out of which the total forest land is only 222.41 Ha. However, an area of 177.77ha has already been diverted for Bharatpur OCP. The proposed expansion is for additional area of 629.52ha which involves of 44.64ha of Forest land which is to be diverted. The location of the site for coal mining operation fully depends upon nature's deposit of minerals and geological structure of the coal seams. Hence question of exploring alternative site for the purpose does not arise.

ii. Details of Forest area proposed to be diverted and already diverted:

a) Forest Land already diverted: An area of 71.64 ha of Forest land has been diverted vide Stage II FC no. 8-348/98-FC dated 02.04.1997. Subsequently an area of 134.41 ha of Forest land has been diverted vide Stage II FC no. 8-87/2012-FC dated 07.02.2014. About 3.0ha of area is common/ overlapped in both the proposals.

b) Forest Land proposed to be diverted: The total area proposed for expansion of Bharatpur OCP is 629.52 Ha, amongst which an area of 44.64 Ha of Revenue Forest land is involved which is proposed for diversion. However, DFO, Angul through EDS vide letter no. 9468/DRP/2022 dated 27.12.2022 has requested to revise the proposal including the sal forest of 13.09 ha over Govt. Non-Forest land in the diversion proposal owing to its dense vegetation. The total land proposed to be diverted is 57.73 Ha.

S.No	Type	Status of Land	Area in Ha.
01	Forest Land involved in Expansion area	Revenue Forest	44.64
02	Looklike Forest (Sal forest) over Govt. Non-Forest Land	Govt. Non-Forest Land	13.09
03	Change in Land use of already diverted safety zone for the purpose of Mining included in the proposal at serial no.1	Revenue Forest	0.18
04	Proposed Safety Zone in Forest area (included at serial no.1)	Revenue Forest	0.36
05	Total area proposed to be diverted for Bharatpur OCP: Sl no. 1 + 2 (Sl no. 3&4 included at sl. No1)		57.73

iii. Details of Safety Zone proposed to be diverted and already diverted:

a) Already diverted for safety zone and included in the proposal for change in land use for the purpose of Mining: An area of 0.18has has already been diverted for the purpose of safety zone in the diversion proposal of 134.41ha vide Stage II FC no. 8-87/2012-FC dated 07.02.2014. This area of 0.18ha is presently included in the proposal for diversion for the purpose of mining.

b) Area proposed for safety zone: An area of 0.36ha of Revenue Forest land within the expansion mine boundary has been provided for safety zone and hence included in the diversion proposal for diversion of 0.36ha towards safety zone.

iv. Compensatory Afforestation: For the purpose of creation of compensatory afforestation (double the degraded forest lands) in respect of proposals seeking prior approval of Central Government under Sec.2 of Forest (Conservation) Act, 1980, degraded forest area of 115.46 Ha. is required towards CA purpose for approving the diversion of 57.73 Ha. forest land situated in the expansion mine area. An area of 115.46 ha against twice the area of the forest land proposed to be diverted and an area of 0.54ha against 1.5 times of the forest land proposed to be diverted for safety zone is required for compensatory afforestation. Accordingly an area of 115.98 ha of degraded Reserve Forest has been identified in Dhenkanal Division and DGPS survey has been carried out by ORSAC. The details of CA land identified are given below:





Site	Range	Division	Type of Forest	Area in Ha.
Bhuban Range	Bhuban	Dhenkanal	R.F	43.519
Ramei R.F	Sadangi	Dhenkanal	R.F	72.462
Total Area in Ha.				115.981
Total cost of CA scheme @ 1000 plants per ha. (Attached)				Rs. 5,50,53,200/-

v: Map showing the forest land and mine boundary on a 1:50,000 scale:

The boundaries of proposed expansion area of Bharatpur OCP Expansion 20 Mty including the forest patches, safety zone and proposed change in land use of 0.18ha (from safety zone to mining purpose) are marked on the map. DGPS surveyed and ORSAC authenticated map on 1: 3960 scale and marked on Survey of India Toposheet (F45T1).

vi: Justification for locating the project in the forest area:

The location of the site for coal mining operation entirely depends on nature's deposits of minerals and geological structure of the coal seams. The proposed area is a coal bearing area i.e Kalinga-East block duly notified by The Govt. of India and as such it is a site specific activity. The justification is also attached with the application.

vii: Cost Benefit Analysis:

The Cost Benefit Analysis is prepared as per the rules and guidelines with Cost-Benefit Ratio being 1:128.25. The Benefit to the economy is calculated to be Rs. 18237,93,65,192.80 with loss on forests estimated to be Rs. 142,20,54,599.72/-

viii: Employment likely to be generated:

The project is likely to generate direct employment of about 1093 persons in addition to indirect employment of about 3000 persons during mining operations and its allied activities.

ix: Villages Involved:

In the proposed expansion area, Nakeipasi (part), Niladripur, Teleipas, Khajuria, Solada (Part), Danara (Small Part), Joragadia (Part), Prasannanagar (Part), Kurihan (Small Part), Satyabadipur, Sarang, Kishorechandrapur are involved. The villages Nakeipasi, Teleipasi, Khajuria, Sarang and Satyabadipur are to be shifted fully.

2. PURPOSE WISE BREAK UP OF THE TOTAL AREA:

SL No	Purpose	Land use of the proposed expansion area of Bharatpur OCP		
		Forest	Non- (Govt. Tenancy)	Forest & Total (in Ha)
1	Quarry Excavation	44.28	576.83	621.11
2	Safety Zone (7.5m)	0.36	3.07	3.53
4	Infrastructure & coal Corridor Road	0	4.88	4.88
Total Mining Lease of expansion area		44.64	584.78	629.52

The detailed explanation of the Land use table is given below:

- a) The safety zone of the existing mine is proposed to be used for mining purpose in the proposed expansion mine. The new safety zone area for the proposed expansion mine is 3.53ha out of which 0.36 ha. is forest land.
- b) There is no infrastructure proposed over the forest land in the expansion area.

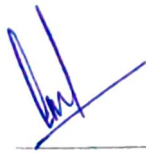
3. DETAILS OF DISPLACEMENT OF PEOPLE DUE TO THE PROJECT, IF ANY:

There is no human habitation in the forest area proposed for diversion:

- Number of Families: Nil.
- Number of Schedules Castes/ Schedule Tribes Families: Nil
- Rehabilitation Plan: Nil

However, in the Non-Forest Land, about 1093 families are residing and Rehabilitation and Resettlement activities are in advanced stage. The Rehabilitation of the villages Nakeipasi, Teleipasi, Khajuria, Danara have almost been completed and resettlement of Nakeipasi, Teleipasi and Khajuria is under process. R&R of the villages Solada and Prasannanagar has been carried out by Hingula Area.

STATUS OF REHABILITATION & RESETTLEMENT (Bharatpur Area)									
Sl. No	Name of Village	Rehabilitation				Resettlement			Remark
		Employment	C.C	Annuity	Total	Plot	Cash	Total	
1	Nakeipasi	406	14	5	425	0	0	0	Awarded, PDF List is approved.
2	Teleipasi	54	1	2	57	0	60	60	Awarded
3	Khajuria	32	1	0	33	0	49	49	Awarded
4	Sarang	Under process.							Comp. Roll has been approved.
5	Niladripur								
6	Satyabadipur								
7	Kishorechandrapur								
8	Joragadia(Part)	Only a small part of the land (mostly agricultural involved). Under process.							
9	Kurihan (Part)								
10	Prasannanagar	Acquired by Hingula area and R&R has been completed by Hingula area.							
11	Solada								




Save our Environment for a better Tomorrow



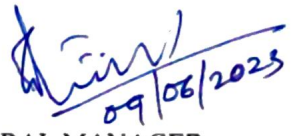


4. WHETHER CLEARANCE UNDER ENVIRONMENT PROTECTION ACT, 1986 REQUIRED (YES/NO):

Yes. Application in Form I was submitted and accordingly, the proposal was considered in 31st EAC held on 9th June 2022 and ToR was issued by MoEF&CC vide letter no: J-11015/630/2007-IA. II(M) dated 28th June 2022. The draft EIA-EMP has been submitted to Member Secretary for conducting Public Hearing. The public hearing is scheduled to be held on 28th June 2023.

5. UNDERTAKING TO BEAR THE COST OF RAISING AND MAINTENANCE OF COMPENSATORY AFFORESTATION AND/OR PENAL COMPENSATORY AFFORESTATION AS WELL AS COST FOR PROTECTION AND REGENERATION OF SAFETY ZOEN ETC. AS PER THE SCHEME PREPARED BY THE STATE GOVERNMENT (UNDERTAKING TO BE ENCLOSED)

Undertakings to bear the cost of raising and maintenance of compensatory afforestation and/or penal compensatory afforestation as well as cost for protection and regeneration of safety zone etc. as per the scheme prepared by the state government are enclosed.


09/06/2023
GENERAL MANAGER
MCL, BHARATPUR AREA
भारतपुर क्षेत्र/ Bharatpur Area

