




Status of amount deposited by the user agency i.e Bhubaneswari OCP of MCL

Sl. No.	Description of Funds deposited by the User Agency	Trasur y Challan deposit in Forest Depositi t Head.	DD/ Check No.	Amount deposited (in Rs)	D.D. sent to CCF (Nodal) vide memo No. & Date	Amount Expendit ure
1	Cost of Bio-Logical Reclamation & Afforestation.	22.06.2 004	333204 dt. 12.06.2004	17076000	Deposited in Forest Deposit	0
2	Cost of Habitat Improvement Plan for surrounding area	07.09.2 004	422052 dt. 04.09.2004	5424896	Deposited in Forest Deposit	2500000
3	Cost of CA Scheme (225.042 ha.) in Chhendipada Range under Angul Division	21.07.2 003	417707 dt. 09.05.2003	3253159	Deposited in Forest Deposit	2198656
4	Cost of NPV for diverted forest land 112.521 ha.	---	5054-260 dt. 07.07.2007	84390750	Memo No. 3734 dt. 19.07.2007	0
5	Cost of Addl. NPV for SZ 6.033 ha.	----	868463 dt. 26.07.2010	5664987 (Rs.18,50,39,000/- for 7 Nos. Project. (copy enclosed))	Memo No. 5172 dt. 03.08.2010	0
6	Cost of Safety Zone Scheme 6.033 Ha.		007304 dt. 08.09.2008	2588100	Memo No. 6286 dt. 26.09.2008	171132
	Cost of 1.5 time Safety Zone 10.00 Ha. in Chhendipada Range under Angul Division			240200		65947

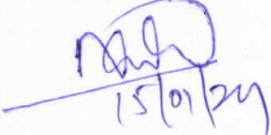

15/01/24
Staff Officer (Env't.)
Jagannath Area, MCL

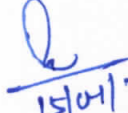

15/01/2024
महल प्रबंधक
जगन्नाथ क्षेत्र, एम.सी.एल.
General Manager
Jagannath Area, MCL.



Divisional Forest Officer
Angul Division
Divisional Forest Officer
Angul, Division

Status of expenditure towards Protection and re-generation of Safety zone scheme & Afforestation over 1.5 times of safety zone in degraded forest elsewhere (10 Ha)

Safety Zone 6.033 Ha (Talcher Range)	
Year	Amount (in Rs.)
2009-10	4300
2010-11	112148
2011-12	30793
2012-13	23891
TOTAL	171132
1.5 time Safety Zone 10.00 Ha (Chhendipada Range)	
Year	Amount (in Rs.)
2009-10	7100
2010-11	42774
2011-12	11413
2012-13	4660
TOTAL	65947


Staff Officer (Envt.)
 Jagannath Area, MCL


 15/01/2014
 महा प्रबंधक
 जगन्नाथ क्षेत्र, एम.सी.एल.
General Manager
 Jagannath Area, MCL.


 Divisional Forest Officer
 Angul Division
Divisional Forest Officer
 Angul, Division

Note No. #7

Attachment: Final MP&MCP BBSRI 30MTY.pdf

CONSULTANT
cmpdi

GEOLOGICAL DISTURBANCES

The block is traversed by altogether 25 faults, viz. F1-F1 to F25-F25, of which seven nos. throw northerly, and the rest throw southerly. They are trending east-west and northwest-southeast. One major east-west trending fault, F1-F1, almost cuts across the block in the central section, dipping towards the north and has a varying throw of around 150 m to 10 m. This fault divides the block into two sectors, i.e., north of F1-F1 and south of F1-F1. One other major fault, F24-F24 is on the southern boundary with throw varying from 180m to almost nil within a short distance. While seven nos. of faults throw northerly with slight variations, rest 18 throw southerly with minor variations. Except faults F1-F1, F10-F10 & F24-F24, rest of the faults have low to the medium magnitude of throw.

3.7 OPENING OF DEPOSIT AND SEQUENCE OF WORKING

The top-soil is proposed to be removed and stacked either in temporary storage areas or directly transported to a backfilled area and leveled for reclamation. Coal is proposed to be excavated by deploying a surface miner and a combination of Front End Loader (FEL) and rear dumpers.

In the original approved PR, an access trench for the main quarry had been proposed from the southwestern end of the quarry. The main haul road is proposed to be advanced straight along the (approx.) dip direction of the quarry, generally parallel to the southern floor boundary of the final quarry.

In the previous MP&MCP of Bhubaneswari OCP, Revision-1, the quarry extension is proposed over the northern patch in the Arkhapal-A block. A new access trench was proposed in the south of CMTL-168 from the surface RL of 87.0 m through the western and northern batter touching the floor at - 60 mRL. For Revision-2, the working quarry has to be extended over the easatern part to take the forest area and the left-out area due to forest, the new extension area is aligned by the borehole no. CTAR-177 and CMTL-042.

For coal deposits in the block under consideration, surface miner-pay loader-dump truck mining is being proposed. In the earlier approved report, a shovel dumper mining system was proposed to remove OB above the seams. The same is to continue.

Job No.: 172202020
MP & MCP of Bhubaneswari OCP (30 Mty) (Revision-2)

Chapter-3, Page - 8

[Signature]
General Manager
Jagannath Area
महानदी क्षेत्र, पप पी एल.
General Manager
Jagannath Area, MCL.

Note No. #7

Attachment:Final MP&MCP BBSRI 30MTY.pdf

CONSULTANT
cmpdi**3.5 ANNUAL TARGET AND LIFE**

An annual target of 30 Mt is proposed. At the targeted capacity, the balance mine life would be 5 years for the revised excavation area.

3.6 GEO-MINING CHARACTERISTICS

The block is about 6.3 km along strike (East-West) and 2.4 km along with the dip (South-North). The remaining two blocks, Ananta Extn. Block and Subhadra East block already form a part of approved Bhubaneswari OC Project, 20 Mty. Further, on the eastern part, the southern batter of the quarry falls in Lingaraj block. Geo-mining characteristics of the proposed quarry are given in table 3.4.

Table - 3.4
Geo-mining Characteristics (Including mined out area)

Sl.	Particulars	Unit	As per Expn. Project (30 Mty)
1.	Area		
i)	Along floor (Total)	ha	425.925
ii)	Along surface (Total)	ha	614.722
2.	Mineable Reserve*	Mt	124.46
3.	Overburden*	Mcum	186.42
4.	Stripping ratio*	m ³ /t	1.50
5.	Annual production	Mt	30
6.	Life of quarry*	year	5
7(a)	Strike length along floor		
i)	Minimum	m	189.86
ii)	Maximum	m	2100
7(b)	Strike length along surface		
i)	Minimum		
ii)	Maximum		550.54
8.	Depth of quarry		2400
i)	Minimum	m	97.99
ii)	Maximum	m	217.50
9.	Avg. seam thickness	m	95.30
10.	Gradient	-	2° - 7°
11.	Quarry perimeter Total	m	11858.70

*balance life as on 01.04.2022

Job No.: 172202020

MP & MCP of Bhubaneswari OCP (30 Mty) (Revision-2)

Chapter-3, Page - 7

27/04/2024
General Manager
Jagannath Area

महा प्रबंधक
जगन्नाथ क्षेत्र, एम पी एन.
General Manager
Jagannath Area, MCL.

Note No. #7

Attachment: Final MP&MCP BBSRI 30MTY.pdf

CONSULTANT
cmpdi

2.2.2 LOCAL GEOLOGY, STRUCTURE, STRATIGRAPHIC SEQUENCE, CHARACTERISTICS OF THE LITHO-LOGICAL UNITS (COAL SEAMS/ PARTINGS/ OVERBURDEN)

GEOLOGICAL STRUCTURE

Mostly soil, alluvium or weathered mantle cover the area in succession. As such, the geological features of the block are interpreted mainly on sub-surface data. The sub-surface borehole data as well as floor contour and cross-sections across the block reveal that the block is traversed by 25 faults, trending both east-west and northwest-southeast. Some east-west trending faults dip northerly and some southerly.

The northwest-southeast trending faults also dip both ways. There is one major east-west trending fault F_1-F_1 which almost cuts across the block in the central portion, which is dipping towards north and has a varying throw of around 150 m to 10 m. There is also another major fault $F_{24}-F_{24}$ in the southeastern boundary of the block, whose throw varies from 180 metre to almost nil within a short distance. This fault is continuing from adjacent Lingaraj block where its throw is around 250 metres. All other faults are minor having an average throw of around 20 to 30 metres throw. Most of the faults are truncated by other faults while some faults die out. The central and western part of the block is traversed by more number of faults and so the structure in this portion is complicated. Truncation of faults against other faults and block boundary forms the basis of sector formation for reserve estimation in the block. The data of the adjacent block has been fully utilized for ensuring the continuity of the seams, nomenclature, structural continuity, thickness and parting between the seams.

The block is traversed by 25 faults viz. F_1-F_1 to $F_{25}-F_{25}$. While 7 no. of faults throw northerly with slight variations, rest 18 of the faults throw southerly with minor variations. Except faults F_1-F_1 , $F_{10}-F_{10}$ & $F_{24}-F_{24}$, rest of the faults have low to medium magnitude of throw.

The faults extending from adjacent blocks have been tallied with the structural interpretation within the block. Since 25 faults have been deciphered, the nomenclatures of the faults have been given afresh following certain pattern.

Job No.: 172202020

MP & MCP of Bhubaneswari OCP (30.0 Mty) (Revision-2)

Chapter-2, Page - 5

General Manager
Jagannath Area

महानदी क्षेत्र, एम.पी.एल.
General Manager
Jagannath Area, MCL.