

Ref. No.: MCL/MLA/GM/2023-2024/ 1099

Date: 18-12-2023

To

The Divisional Forest Officer,

Office of the Divisional Forest Officer,

Sundargarh Forest division, Sundargarh: 770001, Odisha.

Sub.: Proposal for non-forestry use of 227.62 ha of forest land within total mining lease area of 323.92 ha within Basundhara (West) Extension Opencast Coal mining project by Mahanadi Coalfields Limited (MCL) in Sundargarh district, Odisha.

[Proposal No: FP/OR/MIN/20559/2016 & State Serial No. OR-024/2018]

Ref.: Your Memo No. 5447/4F (Misc) dated 12.10.2023 seeking EDS.

Respected Sir,

With Reference to the Essential Details Sought by your good offices vide Your Memo No. 5447/4F (Misc) dated 12.10.2023 regarding the proposal for non-forestry use of 227.62 ha of forest land within total mining lease area of 323.92 ha within Basundhara (West) Extension Opencast Coal mining project by Mahanadi Coalfields Limited (MCL) in Sundargarh district, Odisha., the reply is as follows:

- 1. Earlier submitted mining plan of the project but safety zone area not mentioned in the mining plan:** The mining plan of the project has been revised and the safety zone area of 7.109 Ha has been duly incorporated in the mining plan. The revised mining plan is attached herewith as **Annexure A** for your kind reference and necessary action.
- 2. As per Land schedule, 7.109 Ha is involved in safety zone area.:** The revised mining plan consisting of 323.920 Ha (300.231 Ha of mining, 16.580 ha of infrastructure and 7.109 Ha of safety zone) is attached herewith as **Annexure A**.

Therefore, you are hereby requested to kindly do the necessary for the submission of **Form A Part II** regarding the Proposal for Non-forestry use of 227.62 ha of forest land within total mining lease area of **323.92** ha within Basundhara (West) Extension Opencast Coal mining project by Mahanadi Coalfields Limited (MCL) in Sundargarh district, Odisha.

Thanking You.

Yours truly,

18/12/23
General Manager,
Mahalaxmi Area,
Mahanadi Coalfields Limited
Basundhara, Odisha.



Copy to:

1. DT (P&P), MCL.
2. GM (E&F), MCL
3. Project Officer, B(W)OCP.
4. AEO, Mahalaxmi Area.



**OFFICE OF THE DIVISIONAL FOREST OFFICER,
SUNDARGARH FOREST DIVISION**



Phone No-06622-272243, E-Mail- dfo.sundargarh@odisha.gov.in

No. 5447 /4F (Misc.) /Dated. 12/10/2023

To

The General Manager,
Mahalaxmi Area of MCL.

Sub: - Proposal for diversion of 227.62Ha of forest land within total mining lease area of 323.92Ha for Basundhara (West) Extension OCP of MCL.

Ref: - EDS dated.12.10.2023.


Sir,

With reference to the letter cited above, you are requested to submit the compliances relating to the Forest diversion proposal of 227.62Ha of forest land within total mining lease area of 323.92Ha for Basundhara (West) Extension OCP of MCL, the details is furnished below:-

- a) Earlier submitted mining plan of the project but Safety Zone area not mentioned in the mining plan.
- b) As per land schedule, 7.109Ha is involved in Safety Zone area.

Therefore, you are requested to submit revised mining plan as per land schedule to this Office at an early date.

Yours faithfully,


...12/10/23
Divisional Forest Officer,
Sundargarh Forest Division.

संदर्भ संख्या: एमसीएल/मुख्यालय/महाप्रबंधक(परियोजना एवं योजना)/23/ 592-H

दिनांक: 4-Dec-23

सेवा में,

महाप्रबंधक, महालक्ष्मी क्षेत्र

महाप्रबंधक, पर्यावरण और वन, एमसीएल मुख्यालय, बुर्ला

विषय: Addendum to Mining Plan for Basundhara (West) Extension OCP .


महोदय,

Please find enclosed herewith Addendum to Mining Plan for Basundhara (West) Extension OCP prepared by CMPDI and Approved by 265th MCL Board, as communicated by the Company Secretary.

This is for your kind information & necessary action.

भवदीय

संलग्न: यथोपरि


महाप्रबंधक(परियोजना एवं योजना)

प्रतिलिपि:

कार्यालय कापी

ADDENDUM

TO

MINING PLAN AND MINE CLOSURE PLAN

(MARCH 2017)

FOR

**BASUNDHARA (WEST) EXTENSION OCP
(8.75 MTY)**



MCL

**IB-VALLEY COALFIELD
MAHANADI COALFIELDS LIMITED**



NOVEMBER, 2023

[Signature] 22/11/23
देवाशिस राय
महा प्रबंधक (उत्खनन)
विभागाध्यक्ष (यो. एवं. अ.)
सी.एम.पी.डी. आई, ब्लॉक-7
भुवनेश्वर (ओडिशा)

CENTRAL MINE PLANNING & DESIGN INSTITUTE LIMITED
(A Subsidiary of Coal India Ltd.)
REGIONAL INSTITUTE-VII
BHUBANESWAR-751013.

**ADDENDUM TO MINING PLAN & MINE CLOSURE PLAN
FOR
BASUNDHARA (WEST) EXTENSION OCP (8.75 Mty)**

PREFACE

Mining Plan and Mine closure Plan for Basundhara (West) Extension OCP was submitted in March 2017. Necessary information were provided.

Additional information on land use are required to be incorporated as per Guidelines circulated by the Ministry of Coal dated 29.05.2020.

The information sought by the D.F.O., Sundergargh is inclusion of "Safety Zone" in the land use pattern for mining use. This has been interpreted as "Minor Changes" as per clause 1.3(B).a, which states –

Notwithstanding anything contained in Clause (A) above, for other minor changes, the Project Proponent is empowered to make modification with the approval of the respective company Board. These minor changes shall cover a. changes in land type within the leased area, (contd.....)

Land details verified by the Tahsildar was made available by the Project Proponent in November 2023. These figures have been incorporated in the "Addendum". There are minor variations in figures of this report with EMP report. Records as per RoR have been retained.

As such, instead of Revision of Mining Plan, an Addendum has been prepared.

ADDENDUM TO MP & MCP FOR BASUNDHARA (WEST) EXTENSION OCP, 8.75 MTY OF MCL

1.0 GENERAL

Following Addendum incorporates the changed Land Schedule and the Updated Mine Closure Cost, which are as follows.

1.1 LAND REQUIREMENT & SCHEDULE (Chapter-9 of Original Report)

For incorporation of the Land schedule vide the DFO's proposal (Ref.:EDS dated 12.10.2023) in the Revised Mining Plan & Mine Closure Plan for Basundhara (West) Extension OCP 8.75 Mty, Table-9.1 of Chapter-9, **LAND REQUIREMENT**, has been changed as given below.

As mentioned above, land requirement is described in the following Table. Total land requirement under different heads as given by Project authorities is indicated in table 9.1 below:

Table-9.1
(Area in Hectares)

ABSTRACT OF LAND FOR BASUNDHARA (WEST) EXTENSION OPEN CAST PROJECT					
VILLAGE	LAND FOR -> (In Ha)	MINING	INFRAST- RUCTURE	SAFETY ZONE	GRAND TOTAL
Gopalpur	Forest	164.678	16.439	3.505	184.622
	GNF	43.994	0.142	0.247	44.383
	Tenancy	38.810	-	1.372	40.182
	TOTAL	247.483	16.580	5.123	269.187
Ratansara	Forest	35.844	-	1.093	36.936
	GNF	0.579	-	0.049	0.627
	Tenancy	10.834	-	0.274	11.108
	TOTAL	47.256	0.000	1.415	48.671
Jamkani R.F.	Forest	5.492	-	0.571	6.062
	GNF	-	-	-	-
	Tenancy	-	-	-	-
	TOTAL	5.492	-	0.571	6.062
GRAND TOTAL	Forest	206.014	16.439	5.169	227.620
	GNF	44.573	0.142	0.295	45.010
	Tenancy	49.644	-	1.646	51.290
	TOTAL	300.231	16.580	7.109	323.920

1.2 DETAILS OF LAND REQUIREMENT (Incorporated New)

Table 2.8: Details of Land Requirement

Particulars	Forest	Non-Forest	TOTAL (Area in Ha)
Excavation Area	206.01	94.22	300.23
Safety Zone	5.17	1.94	7.11
Infrastructure	16.44	0.14	16.58
External OB dumps	--	--	--
Mine Lease Area	227.62	96.30	323.92
Rehabilitation site	--	45.85	45.85
Outside Lease Area	--	45.85	45.85
Total (Area in Ha)	227.62	142.15	369.77

1.3 POST – CLOSURE SCENARIO (Incorporated New)

Table 2.9: Post-Closure Land use

Sl. No.	Land Use during Mining	Land use (Ha)				Total(Ha)
		Plantation	Water Body	Public Use	Undisturbed/Dip side slope	
1	External OB Dump	Nil				--
2	Top Soil Dump	Will Be Spread Concurrently In The backfilled Area				--
3	Excavation	168.35	130.64	--	1.24	300.23
4	Built up Area	16.58	--	--	--	16.58
5	Green Belt	7.11	--	--	--	7.11
	Mine lease Area	192.04	130.64	--	1.24	323.92

Note: Apart from above 9.17 Ha plantation will be done at R&R site outside the lease area.

1.4 UPDATED MINE CLOSURE COST

Abandonment Cost: Cost of Activities to be taken up for the closure of the mine

The item-wise cost of progressive and final closure will be assessed during and before starting the mining operations and while preparing the final mine closure plan. However, a broad guideline has been detailed below:

S.No	ACTIVITY	Weighted % of Mine Closure Cost		
		Progressive	Final	Average
A	Dismantling of Structures			
	Service Buildings	0.00	8.50	4.25
	Residential Buildings			
	Industrial structures like CHP, Workshop, field sub-station, etc.			
B	Safety & Security			
	Random rubble masonry/Concrete wall	6.50	3.20	4.85
	Toe wall around dump/Gabion wall			
	Barbed wire fencing			
	Fencing/Boundary wall, Fencing around water body			
	Garland drains			
C	OB Dump Reclamation			
	Grading of high wall slopes			
C.A	Technical Reclamation			
	Re-handling of OB	60.50	60.50	60.50
	Levelling by dozer			
	Grading			
	Levelling & grading of high wall slopes & OB dump			
C.B	Biological Reclamation & Plantation			
	Top soil management	15.00	11.70	13.35
	Grassing of OB Dump			
	Plantation around virgin area, safety zone, green belt, over external dump and internal reclaimed area			
	Plantation post care (including manpower)			
	Plantation over cleared area after dismantling			
D	Landscaping of the open space in leasehold area for improving its aesthetics			
	Drains, Pipelines, Peripheral road, Gates, Viewpoints, Cemented steps on bank	4.00	5.50	4.75
	Development of agricultural land			
E	Environment Mitigation and Management			
	Air Quality (Water tanker, Sprinkler & Other Control Measures)	12.00	1.50	6.75
	Water Quality (ETP & STP etc with operating cost)			
	Manpower cost and supervision			
F	Post Closure Monitoring			
	Air Quality	0.00	3.20	1.60
	Water Quality			
	Power cost			
	Manpower Cost and Supervision			
G	Entrepreneurship Development (Vocational/skill development training for sustainable income of affected people)	1.00	0.50	0.75
H	Miscellaneous and other measures like Golden Handshake, One Time Financial Grant, Alternative Job, Other Services etc.	1.00	5.40	3.20
	TOTAL	100.00	100.00	100.00

Financial Assurance: Amount to be deposited in Escrow account as a security against the mine activities to be carried out for the closure of the mine.

WPI as on	Oct. 2023* (Prov.)	152.10
WPI as on base data	01-04-2019*	121.10
Escalation rate of closure cost		1.256

Particulars	UG	OC
Base Rate of Closure Cost "Rs. (₹) Lakh/Ha"	1	9
Closure cost "₹ Lakh./Ha"	na	11.3039
Project Area "Ha"	na	323.92
Amount to be deposited into Escrow Account " ₹ in Lakh.	na	3661.5593
Amount already deposited into Escrow Account upto 31.03.2023* ₹ in Lakh.	na	NIL
Net Amount to be deposited into Escrow Account * ₹ in Lakh.	na	3661.5593
Rate of compounding of Annual Closure Cost	na	5%
Balance life of the project "in yrs"	na	12
Annual Closure Cost (Base Year-1) (₹ in Lakh)	na	305.1299
Amount to be deposited into Escrow Account after compounding @ of 5% (₹. In Lakh)		4856.7916

*Base date considered is 01.04.2024 and life of the mine considered is 12 years.

Year	Mine closure cost (₹ in Lakhs)
Year-1	305.1299
Year-2	320.3864
Year-3	336.4057
Year-4	353.2260
Year-5	370.8873
Year-6	389.4317
Year-7	408.9033
Year-8	429.3485
Year-9	450.8159
Year-10	473.3567
Year-11	497.0245
Year-12	521.8757
Total	4856.7916