



भारत सरकार GOVERNMENT OF INDIA
खान मंत्रालय MINISTRY OF MINES
भारतीय खान ब्यूरो INDIAN BUREAU OF MINES
क्षेत्रीय खान नियंत्रक के कार्यालय
OFFICE OF THE REGIONAL CONTROLLER OF MINES



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No. BBS/SNG/IRON/2175/RMP/2022-23

Date: 08.08.2022

To

The Managing Director & Nominated Owner,
M/s Odisha Mining Corporation Ltd
OMC House, Bhubaneswar -751001

Sub: Approval of Review of Mining Plan of Rantha Iron Ore Mine along with Progressive Mine Closure Plan (PMCP), over an area of 268.84 ha in Sundargarh district of Odisha State, submitted by M/s OMC Ltd under Rule 17 of MCR, 2016.

Ref: - Your letter No. 10873/OMC/PMC/2022 dated 08.07.2022.

Sir,

This has reference to the letter cited above on the subject. The draft Review of Mining Plan along with Progressive Mine Closure Plan (PMCP) has been examined in this office based on site inspection carried out on 21.07.2022 by Shri R K Das, Deputy Controller of Mines. The deficiencies observed are enclosed herewith as Annexure I.

You are advised to carry out the necessary modifications in the draft Review of Mining Plan in the light of the contents vide Annexure I and submit:-

- (i) Three (3) firm bound copies of text (A4 size printable paper), plate/plan and Annexure in hard copy. The consents and certificates by the Lease holders/Qualified Person shall be attached in hard copy of document.
- (ii) Two (2) soft copies of the document in USB Pendrive. The text of document should be in excel(.xls) and word format. The plates/plans are to be submitted in .kml/.kmz/.shp and .dwg format. All the annexures shall be submitted in soft copy.
- (iii) Financial assurance under Rule 27 of Mineral Conservation and Development (Amendment) Rules, 2021 shall be submitted.
- (iv) It is also advised to submit all details of mining plan online on <https://miningplan.ibm.gov.in> simultaneously for processing.

The aforesaid final copies of document will be submitted within **15 (Fifteen)** days from the date of issue of this letter, for further necessary action.

The para-wise clarifications and the manner in which the deficiencies are attended should invariably be given while forwarding the final copies of the Review of Mining Plan. It may be noted that no extension of time in this regard will be entertained and the Review of Mining Plan will be considered for rejection if not submitted within above due date. It may also be noted that if the deficiencies are not attended completely, the submission would be liable for rejection without further correspondence.

भवदीय,

(बाबुलाल गुर्जर)

क्षेत्रीय खान नियंत्रक

Copy for kind information to:-

(i) The Controller of Mines (EZ), Indian Bureau of Mines, CP-13, Sector V, Salt Lake City, Kolkata- 700 091.

(ii) Shri Pradip Ku Sahoo and Shri Rabindra Mohanty, M/s Odisha Mining Corporation Ltd OMC House, Bhubaneswar -751001.

(बाबुलाल गुर्जर)
क्षेत्रीय खान नियंत्रक

Inspection Report cum Scrutiny comments on the Review of Mining Plan for Rantha Iron ore Mine over an extent of 268.84 Hectors in Rantha Village, Tehsil Lahunipara & District Sundergarh of M/S OMC Ltd by Rajesh Kumar Das, DCOM dated 21.07.2022

1. The lease was executed 31.12.1968, Environment Clearance granted on 11.06.2008, consent to establish also grant 26.04.2007 but still stage I application applied on 20.02.2020. The same should be clarified the delay for application for forest clearance.
2. In Para 2.1.1 Highest level (m) from MSL is given 1015 and lowest level (m) from MSL is mentioned as 7.5 but avg. level(m) from MSL is given 310. The correction to be done.
3. The information furnished in Para 2.1.2 should be reviewed and accordingly information to be furnished. The information should be given as per heading given. Inside lease area or outside lease (within 5 km) and rest information should be given in remarks column. In given column it is mentioned no public road within lease area but public road (Tar road) is going within lease area, power line also seen within lease area. The information regarding hutments within also to be provide in the row any other. The correction to be done.
4. Geology & Reserves: In last approved document Reserve is established 88.187 million tons and 7 resources together it is 90.141 million tons but in present document it is reduce to 70.91 million tons and 79.56 million tons. The bulk density for calculation has no change it is considered as 2.7 & 3t/m³, influence for calculation also almost same, production reported nil. Kindly justify the reduction of reserves/resources.
5. The Blocked reserves/resources due to 7.5m safety barrier, benches and other features i.e. canal, road, electric line, etc should be furnished for clarity.
6. Future Exploration: During the study of the borehole logs it has been found that most of the boreholes have been closed/terminated in the ore. Hence, the present drilled boreholes are not indicating the depth wise mineralization in the area. Therefore, the following parameters may be considered for the proposal of future exploration programme:
 - a) As per MCDR,2017 Rule12(4) in the case of existing mining leases detailed exploration (G1 level) over the entire potentially mineralised area under the mining lease shall be carried out within a period of five years from the date of commencement of these rules. The future exploration should be proposed accordingly.
 - b) Year wise proposal for the future exploration plan may be given.
 - c) GPS (WGS84; degree minute second) co-ordinates of all proposed boreholes may be given along with the reason for site selection and ground RL.
 - d) All the proposed boreholes may be marked in the geological plan with distinct colours for each financial year proposal.
7. In the calculation table for reserves/resources depth is not mentioned, the same should be incorporated.
8. Mining : In the Para 4.2.2.1 & 4.2.2 following discrepancies observed:
 - i. The production proposal is given from very first year. The lease is not having many clearances i.e. forest clearance, consent to operate, etc still date, village people encroach near excavation proposal area, No access to working proposed area, no infrastructure,etc. In the view of above the same should be revieed and accordingly proposals should be revised.
 - ii. The proposed bench height in mineral bench is given 6-10m but width is 10-15m. The proposal should be as per Mines Act and circular by DGMS.
 - iii. The overall pit slope is mentioned as 20 degree whereas slope of benches mentioned 70-80 degree.
 - iv. The recovery factor from ROM to saleable ore is changing year wise (47%-69%). The correction to be done.
9. In Para 4.4.2 the swell factor given to be reviewed and accordingly correction to be done.
10. In Para 4.7.2 the height of dump is proposed 60 meter, the same should be reviewed and accordingly correction to be done.

11. The dumps should be proposed with terracing and proper protective measures for stabilization of dumps proper protective measures and there should be proposals of gully plugs, settling tanks, check dams, etc for zero discharge of mine water directly and silt should not be discharge outside lease area.
12. In chapter 5 for sustainable mining there are many measure where proposal has mentioned nil i.e. water storage & recharge facility, housing for local community, adoption for ODF, efforts for green energy, water & recycled use are all important measures require for sustainability should be proposed.
13. In Para 5.3 for project affected persons it is mentioned nil but during mine visit it was observed that there are many people making hutments and staying in lease area. Therefore the Para should be revised accordingly.
14. In Para 6.2.2.1 for ground water recharging no proposal given, the same should be revised.
15. During mine visit it was observed that electric line is passing inside lease area and some part along lease boundary. There should not be any proposal mining and allied activities within safety barrier as per statute from Electric line and safety barrier should be marked in respective plans and sections.
16. **Surface plan:** In the given plan the following discrepancies observed:
 - i. The belt conveyor corridor which is proposal for future is shown in surface plan and also in Geological plan. The surface plan should show only the existing features.
 - ii. During mine visit it was observe that encroached hutments are with in lease area are not shown in the plan.
17. **Surface Geological Plan & Section(in pdf/dwg format as well as in KML/KMZ,SHP):** In the given plan following deviation observed:
 - i. The ultimate pit limit marked in plan and section is not proper and it is shown in safety barrier zone near electric line, roads, nala, etc. The same should be reviewed and accordingly the correction to be done as per practical mining can be done.
 - ii. In the given plan the boreholes shown should be furnished with the holes collar and depth as per log.
 - iii. In the given plate the negative bore holes to be marked and accordingly the ultimate pit limit and non-mineralised zone should be marked in plan and index.
 - iv. In Geological plan & section G1,G2,G3 area should be marked.
 - v. The ultimate pit limit marked in section is not proper and it is changing from one section to other in shape and vertical extent. The same should be reviewed and accordingly the correction to be done as per practical mining can be done.
The correction to be done.
18. **Five year Production and Development plan(.KML /.KMZ/.SHP format):**The Plan should be submitted showing different color coding for: (1) Active Pit and Excavation area with top and bottom RL and excavation should be proposed in G1 or G2 area, (2) Year wise excavation proposal for year I to V (3) Active dump and year wise dump proposal for year I to V with top and bottom RL with the proposal of terracing.
19. **Five year Production and Development sections(in pdf/dwg format):** Year wise excavation and dumping proposals with different color coding depicting all the features as shown in the Five year Production and development plan including the advancement with bottom and top RL, ramp bottom top RL, key plan of lease area shown in part production plan should be marked the area of proposal, Stack yard ST-2 & St-3 not having RL. The parking yard should be proposed outside lease area.
20. The experience Certificate of Qualified person should be as per Rule 15(1)(b) of MCR,2016.
21. It is found that the Kml file submitted by lessee of all relevant plan not in proper order .
The landuse patterns, feature type and file type required are broadly classified and given below for kml/shp file for all plates

Sl. No.	Description	Format	Remarks
1.	Mining Lease Boundary	.shp or .kml file	Feature type polygon
2.	Pit area	.shp or .kml file	Feature type polygon
3.	Dump area	.shp or .kml file	Feature type polygon
4.	Stack yard	.shp or .kml file	Feature type polygon
5.	Tailing dam (if applicable)	.shp or .kml file	Feature type polygon
6.	Reclaimed and Rehabilitated land	.shp or .kml file	Feature type polygon
7.	Afforestation area	.shp or .kml file	Feature type polygon
8.	Others – Road, railway, Infrastructure, processing plant etc	.shp or .kml file	Feature type polygon

22. Attribute data, symbology i.e. dump, pit ,etc and projection should be proper in all submitted KML file.
23. **Progressive Mine Clouser Plan (.KML /.KMZ/.SHP format)**: The Plan should be submitted showing different color coding for : (1) Yearwise excavated area Reclaimed & rehabilitated for year I to V (2) Year wise dump area to be stabilized and dump area to be rehabilitated for year I to V (3) Year wise Green area proposed from year I to V.(4) Any other reclamation and rehabilitation measures proposed.(5) Lease boundary (with reference to chapter 6).KML file of FA plan submitted is corrupted file it should be resubmit
24. SHP file should be submit for all plates along with KML.
25. As per Rule 34A(3) of MCDR,2017 and as per SOP of IBM Drone data not submitted with Review of Mining Plan.
26. All the plates should be index properly as the features shown in the plan with the same colour code for clarity and signed with date. The plan and section attached should be marked with scale; True north, Latitude & Longitude and section should be as per plan. The ultimate pit should be shown in plan and section and should be visible.

Rajesh Kumar Das
Deputy Controller of Mines