



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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Plot No.149, Pokhariput
BHUBANESWAR-751020

No. MRMP/A/11-ORI/BHU/2021-22

Date: 14.07.2021

To

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

Sub: Approval of modification of Review of Mining Plan of Gandhmardan-B Iron Ore Mine along with Progressive Mine Closure Plan (PMCP), over an area of 1590.8673 ha in Keonjhar district of Odisha State, submitted by M/s Odisha Mining Corporation Ltd under Rule 17(3) of MCR, 2016.

Ref: - i) Your letter No. 8607/OMC/PMC/2021 dated 16.06.2021 received on 21.06.2021.
ii) This office letter of even no. dated 21.06.2021.
iii) This office letter of even no. dated 21.06.2021 addressed to the Director of Mines, Govt. of Odisha, copy endorsed to you.

Sir,

This has reference to the letter cited above on the subject. The draft of modification of Review of Mining Plan along with Progressive Mine Closure Plan (PMCP) has been examined in this office based on site inspection carried out on 03.07.2021 by Shri Ramkishan R, Senior Asst. Controller of Mines & Shri S K Mohapatra, Senior Mining Geologist. The deficiencies observed are enclosed herewith as Annexure- I.

You are advised to carry out the necessary modifications in the draft modification of Review of Mining Plan in the light of the contents vide Annexure- I and submit **three (3) firm bound and two (2) soft copies of the document text in CD in a single MS Word file (the drawing/plates should be submitted in Auto CAD compatible format or JPG format in resolution of 100x100 pixels on same CD)** with financial assurance under Rule 27 of MCDR 2017 of the Modification of Review of Mining Plan within 15 (Fifteen) days from the date of issue of this letter, for further necessary action. If the total page of annexures exceeds 50 (Fifty) then it should be submitted as separate volume. But reference of these annexures must appear in the modification of Review of Mining Plan document. The plates are also to be submitted in separate volume.

The para-wise clarifications and the manner in which the deficiencies are attended should invariably be given while forwarding the modified copies of the modification of Review of Mining Plan. It may be noted that no extension of time in this regard will be entertained and the modification of 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.

Yours faithfully,

(HARKESH MEENA)

क्षेत्रीय खान नियंत्रक / Regional controller of Mines

Copy for kind information and further necessary action to Shri Saroj Kumar Prusty & Shri Rabindra Mohanty, M/s Odisha Mining Corporation Ltd, OMC House, Bhubaneswar -751001.

(HARKESH MEENA)

क्षेत्रीय खान नियंत्रक / Regional controller of Mines

Scrutiny comments on examination of Modification of Review of mining plan with PMCP of Gandhmardhan-B Iron Ore Mines over an area of 1590.8673 Ha in Keonjhar District of Odisha State of M/s OMC Ltd

GENERAL:

1. Lease period mentioned on cover page may not be required. Supplementary lease deed period should be mentioned.
2. All the text, tables and annexures to be properly indexed/ numbered/ paged and signed by qualified person. All the certificates/annexures should bear dated signature.
3. Every new chapter should start in a new page. Necessary corrections should be made.

Geology and Exploration

4. It is observed that G1 level of exploration over entire area has not been proposed. Further, within the G1 explored areas, proposal should be furnished to intersect ore body at depth, if any considering the continuity of boreholes in adjacent sections. The depth of the boreholes proposed should be considered, considering the lateral and depth wise continuity of ore body in geological cross-sections and till the end of mineralization intersecting the ore body at depth. The exploration proposal should be complete by 2021-22 as per the extent provisios of rule 12(4) of MCDR, 2017 and. The grid spacing for G1 level of exploration for iron ore should be as per the exploration norms defined in Part III of MEMC Rules 2015 . Core type of boreholes only should be proposed.
5. The copies of Form –I and particulars of boreholes drilled till date and recorded in Form –J as per the format specified in MCDR 2017 should be furnished and enclosed as annexures.
6. All the existing boreholes within in the waste dumping area are of RC/DTH type hence some boreholes of core type should be proposed in the proposed waste dumping area during the plan period for confirmation of non-mineralization of the area.

MINING

7. Justification for site selection for mining during the proposed plan period has not been furnished. Proposed method of mining has not been furnished in light of development proposal i.e. annual production capacity, nos. of pits proposed for production, site of waste dump and other mine design parameters.
8. Dump re-handling (for the purpose of recovery of mineral) should be submitted in format specified in IBM Appraisal of MP 2014 only for waste dumps. The Total ROM proposed for the years should be within EC limit, both combined from in-situ excavation and dump re-handling.
9. Conceptual Mine planning upto the end of lease period taking into consideration the present available reserves and resources describing the excavation, recovery of ROM, Disposal of waste, backfilling of voids, reclamation and rehabilitation showing on a plan with few relevant sections. List of existing equipment with capacity with proposed new equipment should also be furnished.
10. In pursuant to the order dated 14.01.2020 passed by MoM, GoI, consequent up on the order dated 08.01.2020 of the Hon'ble Apex Court passed in W.P.(C) No. 114/2014, the lessee shall carryout "regrassing in mining area after closure of mines". Accordingly proposal has not been submitted in conceptual planning, conceptual plan and sections.

MINE DRAINAGE

- The details of construction of check dams/ settling tanks etc. shall be given along with their design in the chapter on mine drainage. The mode of disposal of surface run-off water shall be discussed indicating the schematic route showing its discharge with proposed provisions of check dams/ settling tanks/ water quality monitoring stations etc. The proposal shall also to be shown in the reclamation plan.

STACKING OF MINERAL REJECT/SUB GRADE AND DISPOSAL OF WASTE:

- In Para 4a, the nature and quantity of top soil, overburden / waste and Mineral Reject to be disposed of have not been furnished in the following format.

Year	Top Soil (cum)		Waste (cum)				Mineral Rejects (tones)			
	Reuse/spreading	storage	Total generation	Backfilling	Storage (dumping)	Utilization	Total generation	Blending	Storage	Beneficiation

- The proposed waste and mineral rejects quantities that are going to be handled during the proposed plan period should be furnished with proper justification like present waste dumps, mineral rejects stacks holding capacities.
- The proposed waste dumping furnished, a column should be added for whether it is in outside UPL or within UPL, nature of dumping whether it is permanent or temporary and also whether it is mineralized area or non-mineralized area .
- The above should also be furnished for mineral rejects stacks.

OTHERS

- The proposed manpower and existing manpower strength should be categorized under category of managerial, supervisory, skilled, semiskilled, unskilled etc.,

PROGRESSIVE MINE CLOSURE PLAN

- The environment monitoring data of last one year to be enclosed for ready reference.
- The land degraded due to mining and allied actives as furnished in the FA table should be rechecked.
- Year wise mining plan proposals and land use pattern should be submitted in softy copy in the format of .kml or .shp file along with document. Need to do necessary corrections.
- Copy of bank guarantee should be submitted.

PLATES (General):

- The conventions provided under the Metalliferous Mines Regulations, 2019, shall be used in preparing all plans and sections. All plans and sections should comply with the provisions of Rule 32 of MCDR 2017. The plans and sections submitted should bear the certificate that - the plans and sections are prepared based on the lease map authenticated by the state government.
- The existing and proposed bench positions clearly with mRL to be mentioned in the all plans and sections. Date of survey has not been given on every plan and sections and the same should be signed by with date. Grid Lines have not been be shown in all plans and sections. All plans and sections should be signed with date by certified Surveyor, Qualified Person, Mine Manager, Mining Engineer and Mining Geologist.

3. Date of survey should be given on plan and sections and the same should be signed by with date. Grid Lines to be shown in all sections - Geological Sections, Development Sections, Conceptual sections, Dump sections etc.
4. With reference to CCOM Circular No 2/2010, the geo-referenced mining leases map superimposed on latest high-resolution satellite data has not been submitted over the lease area by certifying the lease area over the plan. Lessee has submitted but it is not superimposed on satellite image.

Key Plan:

5. The key plan should incorporate all features as mentioned Rule 32 5 (a) of MCDR 2017 and all features should be shown in index as well.
6. Approach road to lease area should be shown in key plan. The Latitude/longitude of the extreme ML pillar coordinates should be marked in key plan. Wind rose diagram should be depicted.

Surface Plan:

7. UTM coordinates to be mentioned along with local coordinates along the grid lines. The features shown in the index is not distinguishably shown in the plan. Diverted forest area to be shown in the plan as well as marked in the index of the map. The UPL should be shown over the plan and in index. Necessary corrections to be done.
8. The Surface Plan should be prepared to satisfy the provision as laid down rule 32 (1) (a) of MCDR'2017.

Geological Plan & Section:

9. In the Geological plan, the UTM coordinates should be mentioned along with local coordinates along the grid lines. The part plan and sections should cover the entire lease area.
10. The proposed boreholes to be plotted in dotted lines in Geological sections along with proposed borehole number, RL and proposed closing depth at the bottom of the borehole. The year wise proposal for drilling to be shown in different contrasting color in both Geological Plan and Geological sections. The year wise color of the boreholes proposed in Geological plan should match with the plotted proposed boreholes in Geological sections.
11. The Geological Plan should be prepared to satisfy the provision as laid down rule 32 (1) (b), (c) and (d) of MCDR'2017.

Development plan & Section:

12. Quarry name, existing and proposed bench profiles, waste dump, mineral reject dumps etc. to be shown in the development plans and sections.
13. The lithology of the area should be clearly shown in year wise development plan and sections in the area proposed for development.
14. Each year development proposal for different blocks should be shown separately in different color. The UPL may be redefined and benching pattern of existing and proposed to be made in all development plans and sections. The UPL should be shown in Red color which should contrast to the year wise development proposal color shown in development plan and sections. The existing and the proposed quarry positions year wise should be properly demarcated.

15. Year wise mining plan proposals should be submitted in softy copy in the format of .kml or .shp file along with document. Need to do necessary corrections.

Environment plan:

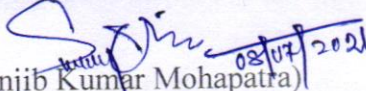
16. The Environment Plan as prepared should be satisfy the provision as laid down rule 32 (5) (b) of MCDR'2017.

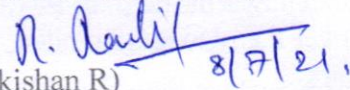
Reclamation plan along with sections.

17. Reclamation plan should be submitted as per IBM appraisal of mining plan describing the proposals to be implemented for reclamation and rehabilitation of mined-out land including the manner in which the actual site of the pit will be restored for future use. The proposals may be supported with yearly plans and sections depicting yearly progress in the activities for land restoration/ reclamation/rehabilitation, afforestation, protective measures etc.

FA Plan/PMCP

18. The area under different heads of FA table should be properly shown in different hatching with present area and additional area in FA plan. The FA table should be furnished.


(Sanjib Kumar Mohapatra)
Senior Mining Geologist


(Ramkishan R)
Senior Asst. Controller of Mines