



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 FMCP/FM/33-ORI/BHU/2018-19

दिनांक / Date: 03.10.2018

To

The Managing Director/  
Nominated Owner, M/s OMC  
Limited, OMC House, Bhubaneswar,  
Odisha - 751001.

Sub: Approval of Final Mine Closure Plan of Rantha Iron Ore Mines over an area of 139.992 ha in Sundargarh district of Odisha of M/s OMC Limited submitted under Rule-24 of Mineral Conservation and Development Rules, 2017.

Ref: - i) Your letter no. 14010/OMC/18 dated 10.09.2018 received on 13.09.2018.  
ii) This office letter of even no. dated 13.09.2018.  
iii) This office letter of even no. dated 13.09.2018 addressed to the Director of Mines, Govt. of Odisha, copy endorsed to you.

Sir,

This has reference to the letters cited above on the subject. The draft Final Mine Closure Plan (FMCP) has been examined in this office based on site inspection carried out on 20.09.2018 by Shri Dayanand Upadhyay, Sr. Assistant Controller of Mines. The deficiencies observed are enclosed herewith as Annexure-I.

You are advised to carry out the necessary modifications in the draft Final Mine Closure 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 and JPG format in resolution of 100x100 pixels on same CD)** with financial assurance under Rule 27 of MCDR' 2017 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 Final Mine Closure 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 Final Mine Closure Plan. It may be noted that no extension of time in this regard will be entertained and the Final Mine Closure 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 / yours faithfully,

(HARKESH MEENA)

क्षेत्रीय खान नियंत्रक / Regional Controller of Mines

Copy for kind information and necessary action to:

1. Shri S. C. Nayak, Qualified Person, M/s Minesketch Consultants (P) Limited, A/185, Saheed Nagar, Bhubaneswar, Odisha -751007.

(HARKESH MEENA)

क्षेत्रीय खान नियंत्रक / Regional Controller of Mines

**Scrutiny comments on examination of FMCP of Rantha Iron of Mine over 139.992 Ha in Sundergarh district of Odisha State of M/s OMC**

**General:**

1. Sequence of Para and its numbering as per IBM Manual appraisal MP 2014 has not been covered in text. All the annexure and text have not been properly indexed/ numbered/ paged and signed by qualified person. All the certificates/annexures should bear dated signature.
2. The term 'subgrade ore' may be replaced with "Mineral Rejects" at all relevant places text, tables and from plates.
3. Letter no. 3142/DM, dated 25/04/2018 from Director of Mines, Odisha has not been enclosed.
4. All the annexure to be properly numbered/paged and signed by the RQP.
5. Some photographs covering ML Boundary pillars and Area applied for surrender to be enclosed.

**FMCP TEXT:**

6. Page-5, method of mining and mineral processing operations pertaining to lease area applied for surrender has not been mentioned.
7. Chapter 1.1, Page-6, the reasons for closure in relation to uneconomic operations as stated have not been justified properly. Further there is no description of lateritic iron ore exposures as observed in field and also shown in plan. The area showing BHJ exposures has been validated at field where lateritic iron ore outcrops were seen. These field observations have to be incorporated in geological map.
8. Para-1.2, Page-6, it has been mentioned that the State Govt. shall allowed part surrender of mining lease but necessary supporting document has not been enclosed.
9. Page-10, description of lateritic iron exposure as observed in field and also shown in plan has not been described. The area showing BHJ exposures has been validated at field in which lateritic iron ore outcrops were seen. The geology of the area has to be revised with field observations and also the geological map has to be revised.
10. Exploration carried out so far in the applied part surrender lease area should be summarized as per table below:

Total Lease area:						
Item of information	Part of the Lease area applied for surrender explored as per UNFC norms (in Ha) as on dt.					Remarks/Comments including reasons for not carrying out the exploration as per UNFC norms.
	Total Lease area = A+B+C+D+E					
	G1 Level	G2 Level	G3 Level	Explored and found non-mineralized with level exploration (Remarks)	Unexplored lease area	
	A	B	C	D	E	
Area as per level of exploration						
No. of BH Drilled						
No. of BH considered for Resource Estimation.						
Meterage Drilled						
Grid Interval						
Scale of Mapping						
Reserve estimated after above exploration as on dated :						
Remaining Resource after above exploration as on dated:						
Total Reserve/Resource after above exploration as on dated:						

11. Details of all drilled boreholes along with their chemical analysis maintained in in Form J (MCDR 2017) or in Form K (earlier MCDR 1988) have not been furnished. Details of samples analysis undertaken from a NABL accredited Laboratory or Government laboratory or equivalent also has not been furnished.
12. Para 2.2, Page No-12- The statement "there is no iron ore or any other mineral of economic importance in the area applied for surrender" has not been justified. In annexure -17, the chemical analysis of samples shown for e.g., in borehole no RANT/30 does not corroborate with the lithology mentioned for the borehole RNT/30 in Form K (annexure-16). Therefore, original lithologs of the drill cores along with chemical analysis of the samples have to be submitted for all boreholes. Accordingly, necessary changes in the lithology have to be done where

Fe content analyzing more than +45% Fe in the borehole samples has been termed as BHJ and Shale. Necessary modifications have to be done in Geological plan and section and at all relevant places (text, plates, calculations etc.) in the document.

13. Indicate the mineral reserves available category wise in the lease area estimated in the last mining plan/ mining scheme approved along with the balance mineral reserves at the proposed mine closure including its quality available ( for final mine closure plan only). UNFC boundaries have not been drawn as per provision of MEMC Rules 2015. Resource and reserves have to be re-estimated as per the provision of MEMC Rules, 2015. Proper justification has not been submitted for considering Bulk density of 2.5 t/m<sup>3</sup> for iron ore ranging between +45% Fe to 55% Fe. Necessary corrections to be done in text, plates and in all relevant places in the document.
14. Page-15, Proper justification of UNFC has not been submitted. For Economic Axis under "E3" category of UNFC, detail calculation of operating and selling cost has not been submitted along with documentary evidence. Under Feasibility axis, there is no documentary evidence submitted showing inability to obtain forest clearance. Also, the term "proposed reserved forest" may be rechecked and rectified. Necessary corrections to be done.
15. Para-2.3, Page-17, method of mining has not been described properly. Mining activity is closed for a long period but reason of closure and date of closure of mining lease has not been furnished with documentary evidence.
16. Reason of closure should be justified in light of rule 21(1) of MCR 2016 in reference to surrender of the part area under mining lease.
17. Para 4.1, Page No- 18, Describe 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 relevant plans and sections depicting the method of land restoration / reclamation / rehabilitation.
18. Pre-feasibility study to establish the said reason i.e. "mining is not feasible due to un-economic operation", may be submitted with exploitation cost per tonne & sale value per tonne of mineral and Cost-Benefit analysis and financial appraisal to be carried out based on real time cost involved.
19. Amount of financial assurance as per rule 27(1) of MCDR-2017 should be submitted accordingly.
20. A certificate may be submitted duly signed by the lessee to the effect that said closure plan complies all statutory rules, regulations, orders made by the Central or State Government, statutory organisations, court etc. have been taken into consideration and wherever any specific permission is required the lessee will approach the concerned authorities. The lessee may also give an undertaking to the effect that all the measures proposed in this closure plan will be implemented in a time bound manner as proposed.

**PLATES :**

21. Authenticated lease plan of applied surrender area duly certified by competent authority of State Govt. gas not been enclosed.
22. Key plan has not been furnished with wind rose diagram and index does show the approach road to lease area and area proposed to be retained.
23. Prominent surface features may be indicated on the Surface plan. Few pillars may be correlated with some permanent ground features giving distance and direction.
24. Surface plan should be prepared and certified by the certified Surveyor. Certificate of Surveyor should be enclosed.
25. UNFC boundaries have not been plotted as per the provision of MEMC Rules' 2015. The area showing BHJ exposures has been validated at field where lateritic iron ore outcrops were seen. These field observations have to be incorporated in geological map. Necessary corrections to be done in Geological plan and sections.
26. Reclamation plan has not been submitted. In Reclamation Plan no. of plants, tree density, area covered, time schedule may be shown and also describe in text.
27. The Environment Plan should be satisfied the provision as laid down rule 32(5)(b) of MCDR2017. Contours in 60m periphery of lease boundary may be shown.