

Scrutiny comments in respect of Modification and Review of Mining Plan including Progressive Mine Closure Plan (PMCP) of Raikela Iron Ore Mine over an area 18.315 ha in Sundergarh district of Odisha state, submitted by Shri Prabodh Mohanty under Rule 17 of MCR, 2016 for the period 2017-18 to 2021-22.

INTRODUCTION:

1. Mining Lease was for the period 30 years from 03.04.1982 to 02.04.2012.
Renewal of mining lease has been dispensed with under Mines & Minerals (Development & Regulation) Amendment Act 2015. As per Section 8A (3) of the MMDR Amendment Act 2015, henceforth all the mining leases granted before the commencement of this act shall be deemed to have been granted for 50 years. Supplementary lease deed may be prepared / executed for the extended period.
However it is seen that whether Renewal application filed at the State Govt. prior to expiry of lease i.e 02.04.2012 has not been mentioned. Status of the lease is to be furnished.

2.0 LOCATION AND ACCESSIBILITY

1. At page no.6 it is mentioned that date of execution of lease is 20.01.1987 and period of lease expired on 19.01.2007. Clarify and necessary correction may be made.
1. Latitude and Longitude of all boundary pillars / points have not been mentioned in the Surface Plan etc.
2. DGPS map has not been enclosed with the document.
3. An undertaking should be submitted that, the lease boundary demarcation on the basis of geo-referenced cadastral map to be prepared by the ORSAC / any agency approved by the State Government will be treated as the actual lease map.
4. The Surface right acquired area has not been marked on surface plan & geological plan etc..

PART - A

1.0 GEOLOGY AND EXPLORATION

1. The details of exploration already carried out along with supporting data and the area explored under different level of exploration may be marked on the geological plan and UNFC code for area considered for different categories of reserves / resources estimation may also be marked on geological cross sections.

A summary of lease area explored as per UNFC norms indicating G1, G2, etc. should be given in the following format.

Item of information	Lease area explored as per UNFC norms(in ha) as on dated....					Remarks / Comments including reasons for not carrying out the exploration as per UNFC
	Total Lease Area = A+ B+ C+D+E					
	G1 Level	G2 Level	G3 Level	Explored and found non-mineralised with level of exploration (Remarks)	Unexplored Lease Area	
A	B	C	D	E		

											NORMS.
Lease Area as per level of exploration											
No of BH drilled											
No of BH considered for Resour 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...											

Exploration proposed in Scheme of Mining and carried out :								
Years	Exploration proposed			Achieved / Carried out			Gap in exploration, if any	Remarks / Reason for gap in exploration
	No of BHs	Grid interval	Meterage Drilled	No of BHs	Grid interval	Meterage Drilled		

2. Exploration proposal should be given for entire lease area, apart from explored area if any and the same should be completed within this scheme period as per directive of ministry of mines vide letter number 10/75/2008-MV dated 23rd Dec 2010. An undertaking to complete exploration in time bound manner should be enclosed.

3. Expenditure incurred in various prospecting operations have not been submitted.

4. The life of the mine is to be reported both in terms of available reserves and resources.

2.0 MINING

1. Being the mine area is in forest, blast vibration study is to be carried out. Proposal is to be given as per CCOM circular. Controlled blasting should be proposed with all technical detail as mentioned at item no.5.1.5 on page no.40.

3.0 STACKING OF MINERAL REJECT / SUB GRADE MATERIAL AND DISPOSAL OF WASTE.

1. The dimensions of existing dumps, their area along with number of terraces & their levels to be furnished as per following table. Steps proposed to be taken from the beginning of this Scheme period for their rehabilitation to be spelt.

Name of the Mine					As on date:			
Sl No.	Dump Number	Location	Length	Width	No. of Terraces	Top mRL	Bottom mRL	Grade

The dump analysis report should be from a lab accredited by NABL or government lab. Similar information of sub-grade material in tabulated form as above may be given.

4.0 USE OF MINERAL AND MINERAL REJECT

In the interest of mineral conservation, the requirement of end-use industry specifically in terms of physical and chemical composition should be described.

5.0 OTHER

In the Employment potential the requirement of Mine Surveyor has not been proposed. Since the mine is a Category A (OTFM) mine Mine Surveyor is required for systematic & scientific working of the mine.

6.0. PMCP UNDER RULE 23 OF MCDR, 1988.

1. Protective measures already carried out and proposed should be given in tabular form.

PART B

7.0. List of the Plans and Sections to be submitted :

DGPS Map: (Plate IA)

1. DGPS Map prepared by ORSAC has not been submitted as mentioned in the list of plates where as Joint Surveyed ML Boundary map has been submitted as Plate I (A).

Surface Plan. (Plate II)

1. Magnetic meridian has not been mentioned.
2. Latitude and longitude of all boundary points have not been mentioned on surface plan.
3. The Surface right acquired area has not been marked on surface plan..
4. In the Index the garland drain has been shown in single line where as in the Plan the garland drain has been shown in double line, clarify and correct it.
5. Surface Plan has not been signed by Mine Surveyor with date and certificate number.

Geological Plan: (Plate III)

1. Magnetic meridian has not been mentioned.
2. Level of exploration as per UNFC and UNFC code have not been mentioned.
3. In the Index the garland drain has been shown in single line where as in the Plan the garland drain has been shown in double line, clarify and correct it.
4. In the text at page no.16 it has been mentioned that total 21 number of BH have been drilled (13 in mineralized zone & 8 in non-mineralized zone) where as in the plan BH number upto 17 only has been shown, clarify and correct it.
5. Different zone of proved, probable reserve and other resources have not been marked on Geological plan and section based on exploration so far carried out as per UNFC norm. The lateral and depth wise extension taken for marking such zone of mineral may be detailed in text part also.

Geological Section (Plate IIIA)

1. Level of exploration as per UNFC and UNFC code have not been mentioned.
2. Different zone of proved, probable reserve and other resources have not been marked on Geological plan and section based on exploration so far carried out as per UNFC norm. The lateral and depth wise extension taken for marking such zone of mineral may be detailed in text part also

Development Plan (Plate IV)

1. Magnetic meridian has not been mentioned.
2. The Surface right acquired area has not been marked on Development plan..
3. In the Index the garland drain has been shown in single line where as in the Plan the garland drain has been shown in double line, clarify and correct it.
4. Level of exploration as per UNFC and UNFC code have not been mentioned.

Development Section (Plate IVA)

1. Level of exploration as per UNFC and UNFC code have not been mentioned.

Financial Assurance Area Plan

1. All area considered for calculation have not been shown in the plan like Retaining wall, garland drain & settling ponds have not been shown.

8.0. List of documents to be annexed :

- a. Chemical analysis of ore from NABL Accredited laboratory to be furnished. It is advised to submit the supporting Certificate of Accreditation in favour of the laboratory from NABL (National Accreditation Board for Testing and Calibration Laboratories) Department of Science & Technology, India.
- b. Some photographs of ML boundary pillars showing pillar name and its co-ordinates,, mining, waste dumping, environmental protection aspects and other allied activities of the mine should be enclosed.