

The Scrutiny Comments on examination of Modified Mining Plan with Progressive Mine Closure Plan of Kochariya Mine for Garnet(Abrasive) mineral (M.L.No. 432/2007) over an area of 4.0011Ha. situated near Village- Kochariya Tehsil- Bhilwara, District- Bhilwara Rajasthan submitted by Shri Ummed Singh Ranawat Under Rules 17(3) of MCR,2016. The chapters and paragraphs should be numbered as per guidelines given.

1. This document should be submitted as Review of Mining plan under Rule 17(2) of MCR 2016 & Rule 23 of MCDR 2017 instead of Modified mining plan. This may be corrected in certificate, and all the relevant places including text & plans etc.
2. **Para 3.3(Review of earlier approval proposal)**
 - I Review should be given up to 2017-18.
 - II Some Colum are blanks and some Colum are filled with irrelevant information.
 - II Review of year wise PMCP proposal is not given.
 - III Review of Financial assurance table is also not given.
 - IV Item 3.4 - A inspection was carried out by IBM officer on 11-3-2017 and violation letter sent on 18-4-2017 and 20-9-2017, but no inspection and no violation is mentioned under the para.
 - V- The item 3.6 is for present submission.
3. **Under Geology & Exploration chapter:**
 - a) Chapter has not been prepared as per guideline.
 - b) It is existing mine, hence reserves and resources as per previous approved mining plan for all the minerals should be given first, than depletion and balance reserves may be given. If additional or fresh estimation of reserves than proper justification based on exploration carried out during last approved plan period should be given.
 - c) In future exploration programme the depth of bore hole may be kept till Mineral (Garnet Abrasive) encountered or limit of UPL. These proposals should be incorporated as per Rule 12(4) of MCDR 2017.
 - d) The recovery of Garnet considered as 30% which is very higher side. During the field visit it is observed that the recovery of Garnet (Abrasive) is not more than 20%. The necessary correction and recalculation should be done in all the relevant chapters.
 - e) Under Sub heading (i): Under this sub heading Future exploration programme, the programme for exploration of the whole area up to G1 level as per the rule 12(4) of MCDR, 2017, should be given. The year-wise programme of exploration should be given as per the Mineral (Evidence of Mineral Content) Rule, 2015 in the following format:

	Name of prospecting /exploration agency-	
	i) Address-	
	ii) E mails-	
	iii) Phone /fax etc-	

FUTURE EXPLORATION PROGRAMME						
Year	UNFC axis	Area covered	No. of boreholes (Core/RC/DTH)	Grid interval	Depth(mRL/Level)	Total meterage
	G1					
	G2					
	G3					
	G4					

Under Subheading (j) : Under this subheading Reserve & Resources as per UNFC, the following information should also be given:

Geological Axis :--	Depth (mRL/ Level)	Area	Resource (Million Tonne)	Grade
For G1 - Detailed exploration				
For G2 - General Exploration				
For G3 - Prospecting				
For G4- Reconnaissance				

FEASIBILITY AXIS :--	
Feasibility of mining	
Area considered non mineable	

under various items	
Mineral Reserves/ Resources Blocked /Non Mineable Category	
In G1 category in tonnes	
In G2 Category in tonnes	
In G3 category in tonnes	
In G4Category in tonnes	
Enclosed feasibility report	

ECONOMICAL AXIS	
Cost of production per tonnes of mineral estimated	
Average Ex- mine price for last three year period	
Comment on Economic viability	

Under subheading (k): under this sub-heading the following information should also be given:

- (i) The reserves depleted during the last 5 years
- (ii) The reserve added after exploration during the last 5 years
- (iii) The final reserve & resources figure as per the table given below:

	UNFC Code	Quantity in million tonnes	Grade
A. Total Mineral Reserve			
Proved Mineral Reserve 111	111		
Probable mineral Reserve	121 and 122		
B. Total Remaining Resources			
Feasibility mineral Resource	211		
Prefeasibility mineral resource	221 and 222		
Measured mineral resource	331		
Indicated mineral resource	332		
Inferred mineral resource	333		

Reconnaissance mineral resource	334		
Total Reserves + Resources			

4. Copy of all the violation letter/show-cause notices issued by this department with their compliance report is not found enclosed with the documents.
5. Mining:-
 - i In production table recovery factor may be mentioned.
 - ii In reject and waste table under mining and other chapter the common term may be used either reject or waste.
 - iii The year wise proposals, life of mines should be revised in view of revised recovery factor and supported with Grid.
6. Under Conceptual mine Planning (i.e. in the Text) the area for dumps may be revised in view of total waste dump quantity.
7. Chapter 7.0 Stacking of mineral reject/sub-grade materials. The nature and quantity of top soil, waste, mineral reject already stack should also be given to actual access the size and shape of proposed dump. More than 2.0lakhs tonnes rejects(including 19635 tonnes existing rejects) will be generate at the end of this plan period. The area for dumping shown is only 0.55 hect. Practically it is not possible to accommodate total rejects in 0.55 hact area. The terrace in dumps also not proposed. The proposed size and shape of dumping may be revised accordingly.
8. Chapter- Use of Mineral- The uses for quartz is not mentioned.
9. Chapter- 8 The existing land use is not matched with FA table.
10. Financial assurance in form of original Bank guarantee as per MCDR 2017 coterminous with mining plan validity in favour of Regional Controller of Mines, IBM, Ajmer should be submitted to this office and copy of the same should be enclosed as an annexure in the fair copies of mining plan.
11. Plans & sections;-
 - i Numbering on plates not in order.
 - ii The name and signature of surveyor/ draftsmen who prepared the plans are not given in any of the plan.

- iii Location plan is not found enclosed with the documents. Hence a rout map showing the route from district headquarters and from Ajmer may be given.
 - Iv The pit size and other surface features are not updated properly marked, may be revised.
 - iv Surface Geological plan-. The geological strata is not properly shown, Garnet is mentioned but this is garnetiferrous mica schist. Phyllite is not marked. In Geological cross sections at c-c, the garnet is not shown below 450 RL, but in other sections it is shown.
 - v The year wise development is not prepared as per rules and guidelines,. Benches shown in plan have not been marked bench like manners
 - vi Reclamation plan should be given separately as per guidelines
 - vii Conceptual plan is not found enclosed.
 - viii Financial Assurance Plan-The table given for calculation of Financial assurance should also be given on plan and correlate them with actual ground condition.
- 23 Some photographs representing the mine working, boundary pillar, stacks etc. should also be enclosed with the documents.
- 24 All the above maps/plate will be properly colour index & duly attested and authenticated with date of survey.
