

Scrutiny comments in respect of Modified Mining Plan with Progressive Mine Closure Plan of RAS I Limestone Mine of M/s Ambuja Cements Ltd. Over an area 183.53 hectares in District Pali, Rajasthan State submitted under rule 17(3) of MCR 2016 & 23 of MCDR 2017.

1. The document has been prepared by four qualified persons hence text, annexures and plates should be signed by all the qualified persons who have prepared the mining plan.
2. In annexure XV the Degree certificate in respect of Sh. Pankaj Kumar Saran has not been enclosed. Similarly as per rule 15(b) of MCR 2016, the required minimum 5 year experience certificates in respect of all the qualified persons have also not been enclosed.
3. Annexure III Copy of lease grant order and lease deed are not legible. As per annexure V presently the lease is on the name of M/s Gujarat Ambuja Cement Ltd. while this document has been submitted on the name of M/s Ambuja Cement Ltd. Hence Necessary lease transfer order of State Govt. from M/s Gujarat Ambuja Cement Ltd to M/s Ambuja Cement Ltd should be enclosed.
4. Every new chapter should be start from fresh page.
5. Under location and accessibility chapter the latitude and longitude of all the boundary pillars should be given in tabular form.
6. Under location and accessibility chapter on page no. 10 agriculture land has not been shown in table while on page no.11 total 13.04 Bigha land shown under agriculture land category. It should be checked and corrected.
7. Page no. 1 & 2 of Annexure I Copy of earlier mining plan approval letter are not legible.
8. Under review of earlier approved proposal; Under exploration during the year 2017-18 total 11 bore holes drilled against 27 bore holes and in annexure XVII core log of only 5 bore holes (year 2017-18) have been enclosed. Please enclose results of 27 bore holes which were proposed to be drilled till 2017-18.
9. On page no. 13 the status of compliance of violations pointed out by IBM: The detail of last inspection & violation has not been given.
10. Under Geology & Exploration chapter:
 - a) Under the heading geology of the area, the classification of deposit as per MEMC rule 2015 should also be given.
 - b) It is existing mine, hence reserves and resources as per previous approved mining plan 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 limestone encountered. These proposals should be incorporated as per Rule 12(4) of MCDR 2017.
 - d) 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 plan period
- (ii) The reserve added after exploration during last plan period
- (iii) The final reserve & resources figure as on 01.04.2018 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			

11. Under Mining Chapter:
 - a) The details of the existing pit with dimension may be given here to know and easy for fresh development proposals.
 - b) In tables on page no. 29, 31 & 32 the opening reserve may be updated as on 01.04.2018.
 - c) The production proposal enhanced up to 2.8 million tonnes per annum but detail calculation of required mine machinery has not been given to meet the enhanced production proposal.
 - d) On page no. 28 the use of hydraulic rock breaker mentioned while in the list of machinery on page no. 27 it is not mentioned.
12. Under stacking of mineral reject chapter: In mining chapter on page no. 29 screen reject and OB/SB/IB generation shown separately while on page no. 39 all the waste has been shown under category of mineral reject. It should be shown separately in text as well as plates.
13. Under stacking of mineral reject chapter: the proposed location (grid coordinates) of waste dumps and screen reject dump shown in the text are not matching plates. Similarly waste dump numbers have also not been marked. It should be checked and corrected in text and plates. The area of proposed waste dumps and screen reject dump in hectare should also be mentioned in this chapter.
14. Under processing of ROM and Mineral reject: The detail of proposed crusher, belt conveyor and screening plant should be given. The location and proposed year of installation should also be mentioned in the text as well as on relevant plates.
- 14A. The site of proposed crusher, screening plant and silo lies partly within UPL and partly outside of UPL. It may be reviewed and entirely be proposed outside of UPL in the interest of mineral conservation.
15. Under chapter others: It is mentioned that copy of appointment given as annexure XV while in this annexure the qualification certificates of the qualified persons have been enclosed.
16. Under PMCP chapter: On page no. 47 the current land use pattern should be updated as on 01.04.2018.
17. Under PMCP chapter: on page no. 60 to 63 in the year wise summary tables the word actual should be removed on the top of the tables, only proposal should be required.
18. Under PMCP chapter: on page no. 60 to 63 in the year wise summary tables the plantation shown in the item of management of worked out benches while in plates the planation shown away from the worked out benches. It should be checked and corrected as per guidelines.
19. Under PMCP chapter on page no. 60 to 63 in the year wise summary tables: the protective measures for proposed screen reject waste dump have not been given.
20. The area put to use under mining at the end of Modified mining plan period should be rechecked and the area put to use for installation of crusher and mineral screening reject should also be included in FA calculation and revised the FA accordingly.

21. A single financial assurance in form of original Bank guarantee as per MCDR 2017 coterminous with mining plan validity should be submitted to this office and copy of the same should be enclosed as an annexure in the fair copies of modified mining plan.
22. Feasibility report has not been prepared as per Minerals (Evidence of Mineral Contents) Rules, 2015.
23. A soft copy covering the entire document and plans including kml file should be enclosed at the time of final submission. An undertaking in this regards by the qualified persons that soft copy contains same documents & plates as submitted by hard copy of document & text should be given.

Plates

24. Authentic lease plan with all the Khasra details of the villages duly verified by department of Mines and Geology of State Govt showing the location of the lease area with DGPS coordinates of boundary pillars should be enclosed. Authentic lease plan shall be the basis for the preparation of all the plans and sections. There should not be any deviations in all the plans and sections with respect to configuration given in the lease plan.
25. Precise superimposition of authentic lease plan is to be carried out before preparation of all the plans.
26. All the plates should be updated as on 31.03.2018 based on latest survey.

Plate No. 4 (Surface Plan)

27. It should be prepared as per the rule 32(a) of MCDR, 2017 showing all the features indicated under rule.
28. 7.5m Statuary lease boundary has not been marked.
29. Lowest and highest RL of the lease area have not been marked.
30. Agriculture land/ other pvt. Land have has not marked on plan and index.

Plate No. 5A & 5B (Geological Plan & Section)

31. It should be prepared as per the rule 32(b) of MCDR, 2017 showing all the features indicated under rule 32(b)(i) to (vii).
32. The UNFC code is not shown, different zone of proved, probable reserve and other resources have not been marked on plan based on exploration so far carried out as per UNFC norm.
33. Assay value of existing drilled bore holes to be marked.
34. Longitudinal section and transverse section both may be given.

Plate No. 6A to 6D (Year wise development plan & section)

35. The word using for proposed waste dump and proposed screen reject dump are 'development' on the plans. It should be checked and corrected.
36. The two waste dump and one screen reject dump shown on the year wise plan but no waste dump nos. have been given on the plates. Similarly in text the location of dumps shown in chapter 4 are not matching with plates. It should be checked and corrected on plates as well as text.

Plate No. 11(Reclamation Plan)

37. The year wise proposed protective measures for waste dumps and screen reject dumps should be marked on the plan.

Plate No. 12(Financial Assurance Plan)

38. FA plan should be revised and correlate with fresh FA calculation table.