

Scrutiny Comments on draft ‘Modified Review & updation of Mining Plan’ in respect of Wadi Cement Works Limestone Mine of M/s ACC Limited, covering 471.03 Ha of area in Ingalgi & Ravoor Village,, Chittapur Taluk , Kalaburagi District of Karnataka State.

All the **headings, subheadings, para nos. & format should be strictly replicated** as per the standard guidelines as given in “IBM Manual on Appraisal of Mining Plan 2014” and information’s to be given in order.

All the chapters may be given on a new page.

COVER PAGE:

1. Name of the document may be corrected as “Modified Review & updation of Mining plan including Progressive Mine Closure Plan” along with rule no. at all places in the text, certificates & plates.
2. Period of Review & updation of Mining plan and Modified Review & updation of Mining plan may be given.
3. Date of grant of Mining Lease & Expiry of the Mining Lease may be given.
4. Break up of forest and non forest may be given for the ML area.
5. Under Category, it may be given as A-(FM)/Opencast/Public Limited Company/Non Forest/ Captive/Private.
6. Address of the QP may be deleted.

INTRODUCTION:

7. In the introduction chapter, Date of grant, Execution and date of expiry of mining lease area as per the lease deed may be given. Lease period mentioned up to 31st March 2030 may be supported by the letter from the State DMG.
8. Statutory clearances like EC of the ML area & mineral, their capacity etc. may be discussed.
9. State wise leases already held by the lessee, other than the said mining lease may be furnished in a tabular column.

LOCATION AND ACCESSIBILITY:

10. Para 2.0(a): (i) Lat/Long. of any boundary pillar may be furnished. (ii) Expiry date of ML may be furnished as per lease deed or supported by letter from the State DMG, Karnataka

DETAILS OF APPROVED MINING PLAN:

11. Para 3.3: Review of approved proposals in respect of explorations, production, development & reclamation may be given in the appended table separately.

For exploration:

Year	No of bore holes/ pits/trenches planned	Achieved	Deviation in %	Reasons for deviation

For Production, Development & reclamation:

Year	Production/Development /reclamation Proposed	Achieved	Deviation in %	Reasons for deviation

12. Para 3.6: Since the Review & updation of mining plan is submitted for modification, all the reasons with justification may be discussed & furnished accordingly.

PART-A; GEOLOGY & EXPLORATION:

13. Para 1.0 (e): (i) Year wise exploration carried out in the past (since the inception of the mine) may be tabulated indicating type, diameter, spacing (grids), inclination, collar level, maximum depth drilled etc with reference to geological plan may be furnished. (ii) Under details of sample analysis, at least 10% of total samples may be completely analysed for all radicals from a NABL accredited laboratory or Government laboratory. Findings in terms of quality may be enumerated in brief.

14. Para 1.0 (k): (i) Section wise detailed calculation of reserves/resources may be furnished in this para. (ii) Blocked reserves/resources due to safety zone of 7.5 mts, plant area, HT line & village road may be calculated & furnished. (iii) Parameters considered for reserve/resource estimation may be aligned as per Minerals (Evidence of Mineral Contents) Rules, 2015. (iv)Reserves may be estimated by slice plan & cross sectional area method separately & variance may be analyzed & explained.

15. Para 1.0 (l): (i) Mineral reserve/resources may be furnished as per the format specified in the standard guidelines as given in “IBM Manual on Appraisal of Mining Plan 2014” & be corrected as per the section wise calculation. (ii) Recovery factor may also be discussed in this para. (iii) The reserves/resources table may be updated as on 01.08.2020.

MINING; OPEN CAST MINING:

16. Para 2.0(A)(a): The existing details of mine pit, OB dumps,rain water harvesting ponds their status indicating the location ,quantity, area covered and other details may be enclosed in a tabular column.

17. Para 2.0(A) (b) (I): (i) The year wise tentative excavation indicating development, ROM, pit wise may be summarized in only one table given below. (ii)Bulk density & recovery factor of each of the material proposed to be handled in the mine may be tabulated below the appended table. (ii) Similar tabular column for shale may also be given.

Year	Pit No	Total Tentative Excavation (Tons)	Top soil (Tons)	OB/IB/S B (Tons)	ROM		Mineral reject	ROM/W aste ratio
					Ore (Tons)	Mineral Reject (Tons)		

18. Para 2.0 (c): (i) Year wise, bench wise, section wise calculation of production & development quantities may be given in this para & discussed in brief. The same may be

aligned with the production & development section given in plate No.VI D. (ii) The details of working may be furnished in the below appended table.

Year	Area	Sections	Advancement	No of Benches		Level mRL		Working depth	UTM coordinates	
				Ore	Waste	Top	Bottom		Northing	Easting

(iii) The backfilling done over the mineral bench may be proposed to be handled. Details of backfilling may be given in the table given below:

Year	Extent (Ha)	Quantity (Tons)	Top mRL	Bottom mRL	No of Stages	Slope angle	Northing coordinates	Easting coordinates

19. Para 2.0 (f): (i) Year wise engineering measures like retaining wall & garland drain may be proposed for OB dumps. (ii) Re-grassification of the entire mined out area at the conceptual stage of mining may be proposed & few sections of the same may be given. (iii) Land use pattern at the conceptual stage of mining in regard to top soil storage & infrastructure may be verified & furnished as per Financial Assurance Table given in para 8.6. (iv) Fencing of the entire broken up area may be proposed.

20. Para 3.0 (a): In this para indicate the maximum & minimum depth of water table.

21. Para 3.0 (b): Maximum & minimum depth of working in the plan period may be furnished.

22. Para 4.0(c): Details of backfilling may be given in the appended table

Year	Extent (Ha)	Quantity (Tons)	Top RL	Bottom RL	No of stages	Location coordinates

23. Para 8.1: Under water regime, quality of air & noise levels, the yearly avg. levels may be given in tabular form & discussed in brief.

24. Para 8.2: A tabular column may be inserted for monitoring the environment parameters of air, water, noise & soil in the core & buffer zone with their respective locations and no of samplings proposed in core & buffer zone.

25. Para 8.3.1: Land use pattern at the end of plan period & conceptual stage may be tabulated and discussed in this para.

26. Para 8.3.2: Quantity of top soil available, area occupied & its utilization may be discussed in the plan period & in the conceptual stage of mining.

27. Para 8.3.5: Year wise PMCP proposal may also be given in the format appended below:

Year	Afforestation						Backfilling (ha)			Rehabilitated Area (ha)			Dump rehabilitation									use of water				
	No. of saplings			Area of plantation (ha)									Retaining wall construction (Mtrs)			Garland drains (mtrs)			Setting pond (Nos.)			Water Sprinkling/irrigation/plant use		Drinking water		
	Proposed	Achieved	Cumulative	Proposed	Achieved	Cumulative	Proposed	Achieved	Cumulative	Proposed	Achieved	Cumulative	Proposed	Achieved	Cumulative	Proposed	Achieved	Cumulative	Proposed	Achieved	Cumulative	Proposed	Achieved	Proposed	Achieved	

28. The Consent letter/Undertaking /Certificate from the lessee may be corrected as per point no.1 placed above.

29. PLATES:

- a) Key Map (Plate No.I): (i) True North May be indicated. (ii) Topo sheet no may be given.
- b) Surface Plan (Plate No.III): (i) All the features shown in the plate may be indexed accordingly. (ii) The position of the working/worked out developmental faces is shown outside the UPL at places. Necessary corrections may be done.
- c) Surface Geological Plan (IV): (i) Colour coding for mining & allied activities may be kept same in all the plans & section.
- d) Geological sections (Plate No. V-A & V-B): The sections may be prepared as per the guidelines given in Minerals (Evidence of Mineral Contents) Rules, 2015. (ii) Interpolation of the ore body may be confined only to the maximum depth of the ore body explored. Necessary corrections may be done accordingly.
- e) Production & development sections (Plate No. VI D): (i) This plate may be attended in accordance with the point placed at Sl. No. 29 (d). (ii) Year wise minimum & maximum working mRL may be projected, tabulated & shown in this plate. (iii) Backfilling shown on mineral bench may be evacuated & proposal of the same may be enclosed in the text. (iv) Progress of the year wise backfilling of waste may be shown & indexed accordingly.
- f) Conceptual Plan (Plate No.VIII): (i) In this plate only the details pertaining to conceptual land use pattern may be shown with outlines & solid fill colours. The same may be tabulated. (ii) Re-grassification of the entire mined out area at the conceptual stage of mining may also be proposed & shown. (iii) The working proposal for 2023-2030 may be deleted, as the lease period has not been extended by the State DMG,GoK. (iv) Few section of the conceptual stage of mining may be given in a separate plate showing all the details.
- g) Financial Assurance Plan (Plate No.IX): (i) The status of the land use at the end of plan period may be shown and indexed accordingly. (ii) The break up of the land use may be given and be in accordance with the Financial assurance table.

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