

Scrutiny Comments on ‘Modification of Mining Plan’ in respect of Ferozabad Limestone Mine of M/s Gulbarga Cement Ltd., ML No. 2558, covering 765.22 Ha of area in Ferozabad, Kirani and Somnathahalli Village, Kalaburagi Taluk of Kalaburagi District, Karnataka State.

All the headings, subheadings and para nos. should be 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.

COVER PAGE

1. Modification of Mining Plan may be named as “Modification in Review & updation of Mining Plan” in all places in the text & plates.
2. Mining Lease No. may be given.
3. Mining Lease area may be specified
4. Original Plan Period & Modified Plan period may be given.
5. Date of Grant and Expiry of the ML area may be given.
6. Land Status (Forest/Non Forest) may be specified on the cover page.
7. Under Category it is to be mentioned as “A” (Fully Mechanized) /Opencast/Captive/Public Limited/Non Forest.
8. Address of the Qualified Person may be deleted

INTRODUCTION

9. State wise leases already held apart from the existing mining lease may be given as per the format given below:

Lease reference no. & date	Area	Postal address/Location	Type of Mineral	Working/Non working	Status of approval of mining plan	Date of execution and Date of expiry	Remarks

GENERAL

10. Para 1.0 (a): (i) In this para, the details like Name, address, phone no., Fax, Mobile No and E-mail ID of the nominated owner may be given.(ii) Contact person address may be deleted.
11. Para 1.0 (d): Minerals which the lessee intends to mine is missing.

LOCATION AND ACCESSIBILITY:

12. Para 2.0(a): Period of expiry of lease area is mentioned as 04.10.2057. The same may be supported by the letter from DMG, Karnataka.
13. Para 2.0 (b): This para may be written in order and be given as per the standard format.

14. Para 3.0 (a): Plan period may be given in each of the column from the date of execution of mining lease.
15. Para 3.3:
16. Para 3.5: Since the said document is submitted under rule 17(3), for modification, all the reasons with justification for modification may be given.

PART-A: GEOLOGY & EXPLORATION

17. Para 1.0 (e): (i) the details of 146 boreholes drilled in the past may be summarized in the appended table

Year	No of boreholes (Core/RC/DTH)	Grid interval	Location	Collar level	Depth	Diameter

18. Para 1.0 (f, g & h): The surface plan/geological plan/ geological sections may be submitted on a scale of 1:2000. The above plans is submitted on a scale of 1:5000, therefore scale relaxation letter may be attached & reference may be given.
19. Para 1.0 (l): (i) The reserve & resources of limestone furnished in table no.18 does not match with the section wise calculation given in Para 2.0(k). May be crosschecked and corrected accordingly. (ii) Year wise depletion of reserves may be given to arrive at reserve & resources given in table no.20 as on 01.02.2020. Table no.20 may be aligned with table no.18 & section wise calculation (table no.13a to 18).

MINING

20. Para 2.0 (a): (i) The existing details of OB dumps, indicating the location, quantity, area covered and their status may be enclosed in a tabular column. (ii) The existing details of Mineral stock lying in the mines may be given in a tabular column indicating the location, quantity, area covered and quality. (iii) Only the existing & proposed method of mining may be given in this para, rest of the information's may be placed at appropriate para's in the text.
21. Para 2.0 (b): (i) Table no.26 may be given in Tonnage. (ii) The stripping ratio may be verified & corrected.
22. Para 2.0 (c): Table no.25 may be placed under this para. (ii) Year wise stacking of mineral & OB dump may also be discussed in brief. (iii) Details of workings may be given in the appended table

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

- (iv) Details of dumping may be given in the table given below

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

23. Para 2.0(e): In this para discussion on site for disposal of Overburden, ground preparation, dumping inside/outside the UPL and dumping ground proved for absence/presence of mineral may be discussed.
24. Para 2.0(f): (i) Land use pattern at the start & end of the modified plan period wrt mineral storage & top soil may be reviewed & necessary corrections may be applied at all relevant place in the text.(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.
25. Para 3.0(b): The Maximum & minimum depth of working in the plan period is not matching with the information given in table no.25.
26. Para 4.0(b): In this Para, it is to clearly state that the dumping ground is proved for presence or absence of mineral supported by bore hole data and be outside/inside the UPL.(ii) Since the location of the proposed dumping is on mineralized area in few sections(plate No.7), the same may be termed as temporary dumping at all places in the document & the same may be incorporated in the proposed conceptual plan.(iii)Year wise Length of the retaining wall & garland drain may be clearly specified.
27. Para 8.2: (i) 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. (ii) In the table of year wise a forestation, details like survival rate, area covered, species proposed to be planted & cost may be given. (iii) Mitigation measures to reduce the ground vibration may also be enumerated.
28. Para 8.3.5: All the details with respect to dump management, afforestation, environmental monitoring may be given in summary of year wise proposals during the plan period.
29. Para 8.6: The land use at the start of the plan period ,additional requirement during the plan period & net area considered for calculation may be verified & corrected as per the relevant comments placed

PART-B: (Plates)

The Plate Nos may be given serially & appropriately.

All the plans & sections may be given in a scale of 1:2000 except Key plan.

Sheet 1 & 2 may be shown, wherever 2 sheets are submitted

- a) Key Plan (Plate No.1): (i) True North may be shown. (ii) The approach road to the ML area with distance from known place may be marked. (iii) Few more samples of air, water & noise may be marked in the core zone as per IBM/MOEF guidelines. The same needs to be corrected in the text part as well.
- b) Surface Plan (Plate No.III (a)): (i) All the feature shown in the surface plan may be indexed accordingly. (ii) Surface plan is to be signed by the surveyor with date.
- c) Geological Plan (Plate No.IVA): (i) Area under G-1, G-2, G-3 & G-4 may be shown prominently with thick lines, filled with full colour & table to be inserted.(ii) UPL is not marked properly.(iii) Geological plan & section is to be signed by the surveyor with date.

- d) Production and Development Plan (Plate No VA-VB): (i) Top soil & mineral stacking area may shown in year wise proposals.(ii) The proposed engineering measure like construction of retaining wall & garland may be shown year wise .Technical details of RW & GD may be given in the table.(iii) Year wise proposed afforestation to be show prominently.(iv) Proposal for the year 2020-21 may be deleted and only proposal for 2021-22 may be kept.
- e) Production and Development Section (Plate No.VI): Production & development sections may be given year wise rather than bench wise.
- f) Environment Plan (Plate No.VIII): All the monitoring stations may be marked with in & core & buffer zone. (ii) Progress of Engineering measures for dump may be shown, tabulated & indexed properly.
- g) Conceptual Plan & sections (Plate No.IX): (i) In this plan, measures proposed to restore & reclaim the mined out area at the end of the life of the mine may be given & shown aligned with para 2.0 (f). (ii) Re-grassification of the entire mined out area at the conceptual stage of mining may be proposed .(iii) few sections of the same may be given (iii) The ultimate land use pattern may be given aligned with the conceptual plan & section.
- h) Financial Area assurance Plan (Plate No.X): (i)The are considered for financial assurance should be shown by different colours and indexed.(ii) This plate may be corrected in accordance with the comments offered in point no.29, para no. 8.6 mentioned above.
