

SCRUNITY COMMENTS ON ‘REVIEW AND UPDATION OF MINING PLAN’ IN RESPECT OF BHADIGUND LIMESTONE MINE (ML NO. 2660) OF M/S VISVESVARAYA IRON & STEEL PLANT (SAIL), OVER AN AREA OF 40.12 HA. SITUATED NEAR BHADIGUND VILLAGE, BHADRAVATHI TALUK, SHIMOGA DISTRICT OF KARNATAKA STATE

COVER PAGE

1. Name of the document may be corrected as ‘Review & updation of Mining Plan’ at all places in the text part, consent letter, certificates and plates.
2. Under Category it is to be mentioned as A (Fully Mechanised)/Opencast/ Public Sector Undertaking/Captive on the cover page.
3. For the years 2018-19 to 2022-23 may be replaced by Plan period : 2018-19 to 2022-23
4. Address of the Lessee and QP may be removed from the cover page.
5. The document may be prepared as per the standard format & guidelines including numbering.

INTRODUCTION

6. The gap is to be clearly explained between the previously approved document and the present submission for the continuing years.
7. The latest status regarding suspension and other details of the lease may be mentioned in the introduction chapter.
8. Under details of mining lease sanctioned, a column may be inserted giving the status of working/Non Working.

GENERAL

9. Para 2.3: The local correspondence address with phone no., fax and E-Mail may be given.
10. Para 2.5: During site inspection it was found that Shri. Viswanathan is not the nominated owner. The same may be corrected and details of the directors /Nominated owner may be given.
11. Para 2.6: NA may be given in this column ,since this is applicable for PL (fresh grant)
12. Para 4.1: Row No.5 may be deleted.
13. Para 4.3: (i) The reasons for deviation/variance may be given for Exploration (ii) In Mine development, the quantum of OB/Waste proposed and actual handled year wise with reasons may be given.(iii) In Exploitation , the quantum of production proposed and actual production done year wise with reasons may be given.
14. Para 4.3:This para may be answered appropriately

PART – A

1. Geology & Exploration

15. Para 1.0 (i): Since 24 core bore holes were proposed in the previously approved plan period and no exploration was carried out ,hence exploration proposals may be given in this plan period to cover the entire mineralized area.
16. Para 1.0 (k): (i) Since no exploration has been done in the previous approved plan period, the question of re-estimation does not arise. The estimation of the Reserve/Resources is to be done on the basis of threshold value of limestone declared by Indian Bureau of Mines.

17. Para 1.0 (l): (i) Estimation of mineral reserve/resources may be given as on 01.04.2018. (ii) Since there is no screening facility available in the mines and the entire ROM is transported to the plant, the recovery factor of 95% is not justifiable with 5% mining losses. Proper justification may be given. (iii) Since this is a captive mine, the word "Saleable" may be removed from this place and entire documents wherever appearing.

2. Mining

18. Para 1.0 (l):

19. Para 2.1(a): The existing dimension of the pits may be given under existing method of excavation.

20. Para 2.2.1: (i) A single Insitu Excavation Table may be given as per the format. The quantum of proposed material to be handled may be given in CuM & Tons as well. (ii) The tonnage conversion factor (TCF) or Bulk density and recovery factor of each of the material handled in the mines may be established on time series. (iii) In Insitu Tentative excavation proposal table, the distinction between the sub grade and mineral reject needs to be clarified. (vi) Bench wise & RL wise excavation proposals may be given in a separate tabular Column.

21. Para 2.5: (i) This paragraphs may be rewritten considering that the proposed workings are in the broken up area and no waste or OB is handled. (ii) Present workings and previously disposed of waste with respect to UPL may be described in detail.

22. Para 4.0 (b): This para may be rewritten as per the requirement. The proposed dumping ground of OB/mineral reject within the lease area be proved for presence or absence of mineral and be outside/ Inside the UPL with proper justification.

23. Para 4.0 (c): (i) In this para, attach a brief note indicating the manner of disposal of OB/mineral , configuration & sequence of build –up of OB/mineral reject dumps along with proposals of protective measures. (ii) In the details of existing dumps, additional information like quantity of material in each of the dump, dead/alive, no. of terraces, slope angle and stabilized/not stabilized may be given in a separate table along with precautionary measures envisaged for confinement of the OB/mineral reject/top soil dumps.

24. Para 5.0 (a): The % utilization of High grade limestone and low grade limestone may be given used in the Iron & Steel plant.

25. Para 5.0 (e): The details of process adopted to upgrade the ROM may be given in this para. It is to be clearly mentioned if the unusable limestone is stacked in the plant or mines and if it is stacked in the mines, is it been reflected in the monthly and annual returns.

26. Para 6.0(b): The details as desired in this para may be furnished. This para is incomplete.

27. Para 6.0(g): Water balance chart may be given indicating the quantity of water required in different activities of mining.

28. Para 8.1(vi): The proposed yearwise survival rate along with location may be given under afforestation programme.

29. Para 8.2: Under Environment Management Plan, the sources & mitigation measures including air, water ,noise, soil & ground vibration may be given . All the environmental monitoring stations in the core & buffer zone may be enumerated in separate table against each of the heads of environmental parameters.

30. Para 8.3.5: The year wise proposed reclamation & rehabilitation works may be provided in the standard table.

31. Para 8.6: The financial assurance table may be rechecked and financial assurance amount may be worked accordingly.

PART-B

28. PLATES:

- a) Key Plan (Plate No.1): (i) Approach roads to the lease area may be marked. (ii) The leases surrounding the said ML may be marked with name of the company. (iii) Demographic details may be furnished in a tabular column. (iv) Wind rose diagram may be depicted appropriately. (v) Topo sheet no. may be given. (vi) The key map may be shown in a scale of 1:50000.
- b) Lease Map (Plate No.3): The Approved DGPS readings of the corner pillars along with the certificate endorsed by DMG, Karnataka may be enclosed if available; else reasons may be given in the text part along with an undertaking by the nominated owner.
- c) Surface Plan (Plate No.4): (i) The surface plan is to be signed by the surveyor with registration no. (ii) Features shown in the plan may be shown in the Index prominently and features not shown in the plan may be removed from the Index.
- d) Surface Geological Plan (Plate No. 5): G1, G2 & G3 area with their extent may be shown in this plan. (ii) The feature proposal of exploration may be marked year wise.
- e) Surface Geological Section (Plate No.6): (i) Sections lines may be kept as per the previous approved document. (ii) Proposed exploration holes may be marked on the sections.
- f) Production & Development Plan & sections (Plate No.7 (i) -7(v)): (i) The interval of the Y axis in the section may be decreased and confined only till the bottom of the working pit. (ii) The distance and direction of movement of each of the working faces may be marked /coloured prominently.
- g) Reclamation Plan (Plate No.9): Tabular column of year wise proposals of reclamation may be inserted and depicted in different colours, as given in the text. (ii) Environmental monitoring locations in the core & buffer zone of air, water, noise & soil may be marked with tabular column.
- h) Environment Plan (Plate No.10): Environment Plan is to be submitted in 1:1000 or 1:2000 scale.
- i) Conceptual Plan (Plate No.11): (i) The expected land use pattern at the end of the life may be inserted in a tabular column. (ii) The expected land use pattern at the end of the life of the mine may be marked with the outlines and colours filled with proper indexing.
- j) Financial Assurance Plan (Plate No.13): The F.A table should be incorporated as per para 8.6 of text part. Detailed breakup of the area to be marked on the plate with outlines in different colour.

29. Annexure: Following items are required to be annexed with the document:

- a) Consent letter/Undertaking /Certificate from the applicant must be in original.
- b) A copy of the resolution of Board of Directors, nominating the owner should be enclosed.
- c) Latest analysis report of air, water, noise, soil and Ground vibration may be enclosed on the letter head of the company, if analysis is done in the company Laboratory. Recognition certificate of the laboratory may also be enclosed.

- d) The test report of Minerals for its chemical composition should be tested from NABL accredited Laboratory.
- e) The cross section wise estimation of reserves /resources may be done till 01.04.2018.The recovery factor & threshold value may be considered appropriately including G-1, G-2 stages of exploration. The section lines may be kept as per the previous approved document.
