

**SCRUNITY COMMENTS ON MODIFICATIONS TO THE APPROVED REVIEW AND UPDATATION OF MINING PLAN IN RESPECT OF NARAYANPUR MANGANESE AND IRON ORE MINE (ML NO. 1602) OF M/S NARAYAN MINES PVT. LTD., OVER AN AREA OF 107.54 HA. NARAYANPUR VILLAGE, SANDUR TALUK, BELLARY DISTRICT OF KARNATAKA STATE**

**COVER PAGE**

1. Name of the document may be corrected as 'Modification to the Approved Review and Updation of Mining Plan'.
2. Actual period for the modification should be corrected as from February 2019 to 2019-20.
3. Educational qualification of the qualified persons may be mentioned in the cover page.

**INTRODUCTION**

4. Reference of CEC approval letter regarding enhancement of production permissible limit from 8.45 lakh TPA to 1.112 million TPA to be mentioned here. Copy of the letter may be enclosed as annexure.

**LOCATION & ACCESSIBILITY**

5. Copy of the high resolution satellite image, obtained from CARTOSAT-2 satellite LISS-IV sensor on the scale of cadastral map, as on 31st March for that financial year, covering the mining lease and an area of 2 kilometres from the lease boundary require to be enclosed with the document.

**DETAILS OF APPROVED REVIEW AND UPDATATION OF MINING PLAN**

6. Para 3.1: Remarks furnished against last approved documents, approved dated 08.01.2019 are found to be incorrect.
7. Para 3.2: Reasons for last three modifications of approved RMP may be furnished separately for each occasion.
8. Para 3.6: Main two factors for seeking present modifications viz. enhancement of proposed production and enhancement of reserve and resources by additional exploration should be discussed in this para.

**PART-A**

9. Para 1.0 (e): Details of boreholes drilled and considered for enhancement of reserve and resources after the last approved modification to the approved RMP, approved dated 08.01.2019, should be mentioned here separately.  
In details of exploration carried out by the lessee it is to be mentioned whether depth of the iron and manganese ore mineralization is ascertained by the detailed exploration. Average proved depth of the ore body may be mentioned.
10. Para 1.0 (i): It is to be furnished in this para whether discontinuance of ore body has been established by exploration in the ML area as per the Rule 12(4A)(b) of the Mineral Conservation and Development (Amendment) Rules, 2018.
11. Para 1.0 (j): In economic evaluation of siliceous ore, end use of such material, marketability and existing/proposed beneficiation or blending practice should be elaborated in details.

12. Para 1.0 (k): Since ore handling of this mine is more than one million tonnes per annum, Reserve and Resource calculation also to be furnished 'level wise slice plan' method. Variation of ore estimation, between 'cross sectional area' method and 'slice plan' method, if any, may be given.
13. Para 2.0 (a): In table-30, name of the mineral in respect of pit no.4 may be corrected as Iron ore.
14. Para 2.0 (b): Proposed waste generation quantity and stripping ratio for manganese ore as mentioned in table no. 32 should be corrected since recovery of manganese has been considered as 40%. It is to be mentioned in all proposed production tables that proposals for F.Y 2018-19 (balance period) is applicable with effective from Feb. 2019.
15. Para 2.0 (b) (II): Proposed old dumps (sub-grade stacks) re-handling proposals should be updated in the production and development plans. Name of the mineral available in the old dumps to be mentioned in table-36. Fresh processed stocks and old dump material available in the ML area may be furnished in two separate tables.
16. Para 2.0 (e): Section wise and bench wise (RL) proposed production and development of iron and manganese should be furnished in this para for F.Y. 2018-19 (balance period) to 2019-20.
17. Para 2.0 (f): Dumping area up to the mining plan period as mentioned in the table no. 44 should be corrected; conceptual dumping(PD) area has been considered as 11.06 Ha, please clarify.
18. Para 4.0 (c): Environment protective measures like construction of retention wall, gully plugs and check dams should be undertaken along the toe of the proposed active surface dump (AD1) to prevent escape of material. Year wise such proposals may be furnished here in a tabular format.
19. Para 8.3.5: In dump management item head (ref. table no.56), actual position may be updated as on 31.01.2019.
20. Para 8.6: In the Financial Assurance table, 'area put on use at the start of mod. RMP period' should be updated as on 31.01.2019. Despite of enhancement of production, additional area requirements for 'mining' and for 'OB dumping' till end of the plan period are remained unchanged w.r.t. last approved RMP, please clarify. Calculation of OB dumping area at the end of the plan period is not clear and found inconsistent with the table no. 44.

## **PART-B**

### **21. Para 10, Plates:**

- a) Surface Plan (Plate no. II/a): This plan may be updated as on 31.01.2019 to incorporate latest pit, active dumping, R & R measures and mineral stock positions. Temporary mineral stack locations and extent should be demarcated clearly in the plan.
- b) Production and Development Plans(Plate nos. II/a & III/b): Proposed year wise locations of mineral stacks and haul road from working pits to active waste dump (AD1) should be demarcated in all plates. Year-wise proposed afforestation and other environment protective measures also to be demarcated.
- c) Dump Management Plan (Plate no. VI/b): Dump management proposals in conceptual stage should be restricted up to the expiry of the extant lease, i.e. 31.03.2020.
- d) Financial Area Assurance Plan (Plate no. VII): This plate may be corrected in accordance with the comments offered for para no. 8.6, text part.

### **22. Para 11, Annexure:** Any type of stamping should be avoided in annexure. Following items are required to be annexed with the document:

- a) Copy of the CEC approval letter on revised permissible annual production.

- b) Copy of the drilled borehole logs, drilled during January 2019.
- c) Feasibility study report of the deposit for 1.112 MMT iron ore production per annum.
- d) Copy of chemical analysis report of recently drilled boreholes from NABL or similar accredited Lab.
- e) Few photographs of iron and manganese working pits, waste dump, boundary pillars, R&R activities etc.
- f) Copy of the required Bank Guarantee, valid up to 31.03.2020.

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