

**Table scrutiny comments on examination of Modification of Mining Plan including PMCP of Hanuman Dolomite and Iron Ore Mine over an area of 12.668 Hect. of Smt. D. Venkata Subbamma situated in Dhone Mandal, Kurnool District of Andhra Pradesh State by Shri S. Kartikeya, Senior Mining Geologist**

- 1) **General oversight & Cover Page:** (a) The category of the mine should be written as 'Category A Mechanised Mine'. (b) Since, the Progressive Mine Closure Plan is the additional part of the Mining Plan; hence, same should be mentioned in the cover page along with the relevant rule of PMCP. (c) The qualified person does not have professional experience of five years of working in a supervisory capacity in the field of mining after obtaining the degree as specified under Rule 15 of Minerals (Other than Atomic and Hydro Carbons Energy Minerals) Concession Rules, 2016. Hence, an appropriate and relevant experience certificate should be submitted for fulfilment of the desired experience to prepare the mining plan. (d) In the enclosed orders of state government for extension of the mining lease, mining lease area has been mentioned as 12.662 Ha., whereas, the present document is been prepared for 12.668 Ha. area. Difference in the mining lease area should be clarified. (e) While referring supporting annexure, page no. of the referred annexure may also be mentioned within bracket. (f) All the pages of the document should be numbered and duly signed by the Qualified Person. (g) In every page, the header should be written, 'Modified Mining Plan' of Hanuman Dolomite, Iron Ore and Calcite Mine of Smt. D. Venkara Subbamma over an area of 12.662 Ha. should be written. (h) Chapter numbers should be cross checked and corrected accordingly. (i) All the referred rules of MCDR, 1988 may be modified as per MCDR, 2017.
- 2) The following gist to be given before the introduction chapter:

MINING PLAN/REVIEW OF MINING PLAN AT GLANCE	
1	Name of the Applicant /lessee
2	IBM Registration no
3	Address of Applicant
4	Name of Mine
5	Mine code
6	Lease area in hectrs.
7	Forest area
8	Name of Mineral
9	Lease period from to
10	Plan proposal period-
11	Mineral Reserve (111, 121 & 112) in tonnes
12	Mineral Resources (211, 221,222, 331, 332, 333 & 334) in tonnes
13	Production proposal 2021-2022 (5t yr) in tonnes
14	OB/Waste handling proposal 5th yr CUM
15	Present EC permission in tonnes
16	Plantation proposal in five years in numbers
17	Plantation area proposal in five years (ha).
18	Back filling proposal in hectares in five years
19	Check Dams numbers in five year
20	Garland drain in meters five years
21	Settling ponds (Numbers)
22	Area put to use at end of five year in ha.
23	Bank Guarantee Amount Rs
24	Validity of BG upto
25	Any other important information

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**Chapter No. 2.0 Location and Accessibility of the Area/Mine**

- 3) The following information may also be incorporated in this chapter :- **(a)** Name & Distance from National Park (in Km). **(b)** Name & Distance from Archaeological Monument (in Km). **(c)** Name & Distance from Wild Life Sanctuary (in Km). **(d)** Name & distance from Firing Range (in Km). **(e)** Name & distance from Ordnance Factory (in Km). **(f)** Name & distance of the Power Grid (in Km). **(g)** Name & distance of Valasala Village from the mine/deposit (in Km). **(h)** Source of water.
- 4) Page no. 4: Range of latitude and longitude for the entire mining lease area may be given.
- 5) Page no. 5: Para (viii): Whether the GPS/DGPS co-ordinates are authenticated by the competent authority of the respective state government should be mentioned. It should be mentioned that whether the submitted co-ordinates are obtained from the GPS or taken after the DGPS survey.

**Chapter No. 3.0 Review of Earlier Approved Proposals**

- 6) Page no. 7: **(a)** Review chapter should be updated up to June 2021. **(b)** Page No. 7; Para 3.1: The mine does not have the valid approved document from F.Y. 2017-18 2019-20, hence, the said period should be considered under lapse period. **(c)** F.Y. 2017-18 to 2020-21 may only be reviewed in this chapter. Further, review for the period of 2012-13 to 2016-17 is not essential. **(d)** Para 3.3: Total meterage proposed for drilling and type of drilling along with its achievement should be given. **(e)**

Area proposed for put to use in last Mining Plan/Review of Mining proposals at end of five year period-				
	Item details	Proposed area in last document (ha.)	Actual area as on date ( ha.)	Remark
i)	Area under mining			
ii)	Storage for top soil			
iii)	Waste dump site			
iv)	Mineral storage			
v)	Infrastructure –workshop, Administrative building etc.			
vi)	Roads			
vii)	Railways			
viii)	Tailing pond			
ix)	Effluent Treatment Plant			
x)	Mineral Separation Plant			
xi)	Township area			
xii)	Others (to specify)			
xiii)	Total in ha			

Details of earlier submitted Financial Assurance	
a) Amount of Financial Assurance	
b) Validity of Financial Assurance-	
c) Details of Performance security, if any	

**Part A; 1.0 Geology and Exploration**

- 7) **(a)** In this chapter, dimension of the deposit/belt (describing strike length, width, depth, thickness of the deposit, either of the belt and/or of individual lenses, veins, bands, pockets etc.) should be given along with the length (in Km), Minimum, Maximum and Average Width (in Meters). **(b)** Physical and Chemical characteristics of Lateritic Iron Ore, Massive & Laminated Iron Ore, Iron Ore Fines and Friable Laminated Lateritic Ore are to be described with the supporting analytical results.
- 8) Page no. 13; **(a)** Para B Regional Geology: Regional geological succession should be given along with the source of information. **(b)** Physical and chemical characteristic of iron ore

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may be discussed in this chapter along with the different modes of occurrences of iron ore within mining lease area.

- 9) Page no. 15: Trial Pits: Detail logging of the trial pits/trenches should be given for supporting and few samples of these trial pits should be analysed from the NABL Accredited Laboratory to know the average grade of Fe Ore. Average grade of Iron Ore should be given and same should be supported with the analytical results.
- 10) Page no. 16: Based on the exploration data and the analytical results of the boreholes and surface/grab samples, minimum, maximum and the average of all the analysed radicals should be given.
- 11) Page no. 17 Para (I): Future Exploration Programme: the following parameters may be considered for the proposal of future exploration programme: Grid spacing should be maintained as 50 m x 50 m for irregular ore body.
- 12) Page no. 19: In this page, it has been mentioned that 20 nos. of Pits have been made within mining lease area. Whereas, in the page no. 15 it has been mentioned that 30 nos. of pits/trenches have been made during F.Y. 2019-20. Which statement is correct should be clarified
- 13) (a) The entire reserve and resource should be estimated based on the threshold value of Iron Ore, notified vide Gazette of India dated 25/04/2018. (b) No. of Sample drawn, No. of Samples analysed and the No. of samples analysed in the NABL Accredited Laboratory/Government Laboratory should have been given in this chapter.
- 14) Page no. 23: (a) Nomenclature of the category wise estimation of the mineral reserve and resources should be done according to the Minerals (Evidence of Mineral Contents) Rules, 2015. (b) Average depth of the mineralization of the iron ore and dolomite are to be mentioned. (c) Mineral blocked under the Safety Zone Habitation may not be considered as Proved Mineral Reserve (111), hence the entire calculation of the mineral reserve and resource should be re-established based on UNFC parameters given in the Minerals (Evidence of Mineral Contents) Rules 2015.
- 15) Area explored under G1, G2, G3, G4 and Non-mineralised should be given in hectares.

**2.0 Mining**

- 16) Year wise range of the UTM co-ordinates should be given for proposed development during financial year 2021-22.
- 17) Page no. 30: (a) Text of the year wise development cum production of Dolomite is not matching with the calculation table. (b) Incorrect stripping ratio has been calculated for iron ore production. Same may be cross checked and corrected accordingly. Stripping ratio for the dolomite production may also be calculated.
- 18) Page no. 38; Para Dump Management Plan: (a) Unit of the dump area should be mentioned. (b) The given calculation in this table is not matching with the calculation given in the page no 29 and 30.

**5.0 Use of Mineral and Mineral Reject**

- 19) Page no. 42: In this chapter, requirement of the dolomite from the end-users industry should be discussed and it should be supported with the average range of the radicals.

**Enclosures:**

- 1) Most of the enclosed annexures are not clear and visible, such as mining lease deed, Government Order for inclusion of Iron Ore and Calcite in the deed, etc.
- 2) Qualification degree of both the qualified persons should be enclosed.
- 3) Copy of the supplementary lease deed should be enclosed.
- 4) Copy of the financial assurance should be enclosed.

**Plates:**

- 1) **General:** (a) Shape file/KML file of all the lease boundary pillars may be submitted. (b) Shape file/KML file of the proposed year wise development, working pit dimension, dump position and afforestation are to be submitted. (c) A separate Location Plan should be drawn to know how to reach the mining lease area.
- 2) **Plate I; Key Cum Location Plan:** Co-ordinate range of the mining lease area may be drawn
- 3) **Plate II; Lease Map:** Clear and visible lease map should be enclosed.
- 4) **Plate IV(A); Geological Cross Sections:** (a) Incorrect UNFC codification has been shown in all the sections. (b) Collar RL of each borehole should be mentioned. (c) For consideration of depth, the actual depth of each borehole/quarry depth in each section should be considered for G-1 & G-2 stage of exploration along with the influence of 50 % towards the other borehole. This has not been considered. (d) Bench RL should be given in all the relevant sections. (e) Symbol/Pattern of iron has not been shown in the index.
- 5) **Plate VA and VB; Production and Development Plan and Sections:** Subsequent changes in the RL of Topsoil, Waste and Reject dumps should be marked in all the plans and sections.

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