

Table Scrutiny comments on examination of Review of Mining Plan including PMCP of Julakalva Dolomite, Limestone and White Shale Mine over an area of 35.265 Hect. of Shri J. C. Ravindra Reddy in Nalgonda District of Telangana State inspected by Shri S. Kartikeya, Senior Mining Geologist

- 1) **General oversight & Cover Page:** (a) Name of the mine should be mentioned in the cover page. (b) According to the enclosed proceedings and the mining lease deed, the mining lease has been granted for the mineral Dolomite, Limestone and White Shale, whereas, in the present document, in addition to the granted mineral, production proposal for the mineral steatite has also been given through the underground method. Proposal for the Production the mineral steatite may not be considered without inclusion of the mineral steatite in the mining lease deed. Hence, the entire production plan and method of mining should be modified accordingly. (c) Since, in the present Review of Mining Plan, working has been proposed by opencast method, hence, the term underground mine may be removed. (d) Since the present document has been prepared for the financial year 2019-20 to 2023-24 and the financial year 2019-20 to 2020-21 have already passed. Hence, the retrospective approval for the financial year 2019-20 to 2020-21 could not be accepted and processed. Necessary corrections and modifications should be done in all the respective places. Lapse period should be mentioned in all the respective places of this document. (e) The term 'A' Category Opencast and Underground Mine in the Proposed Category of the Mine may be replaced with the term Category 'A' Fully Mechanised Mine in all the relevant places of the submitted document. (f) IBM Registration number along with the Mine Code should be mentioned in the cover page. (g) While referring, any supporting document, enclosure no. and page no. should be given. (h) Every new chapter should start with a new page. (i) All the pages should be duly signed by the qualified person. (j) Reason for the modification of the earlier approved Review of Mining plan should be given. (k) Whether the supplementary mining lease agreement has been made and duly executed by the lessee is not clear. Details should be mentioned in the document and the copy of the supplementary lease agreement should be enclosed for reference. (l) Since the mine does not have the valid approved document during financial year 2014-15 to 2018-19, hence, this period may also be considered as lapse period.
- 2) The following gist to be attached 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 hectares	
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 2020-21 (3rd yr) in tonnes	
14	Production proposal 2022-23 (4th yr) in tonnes	
15	Production proposal 2023-24 (5th yr) in tonnes	
16	OB/Waste handling proposal 3rd yr CUM	
17	OB/Waste handling proposal 4th yr CUM	
18	OB/Waste handling proposal 5th yr CUM	
19	Present EC permission in tonnes	
20	Plantation proposal in five years in numbers	

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21	Plantation area proposal in five years (ha).	
22	Back filling proposal in hectares in five years	
23	Check Dams numbers in five year	
24	Garland drain in meters five years	
25	Settling ponds (Numbers)	
26	Area put to use at end of five year in ha.	
27	Bank Guarantee Amount Rs	
28	Validity of BG upto	
29	Any other important information	

3)

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

- 4) 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 Jalakalva Village from the mine/deposit (in Km). **(h)** Source of water.
- 5) Page no. 4: Range of latitude and longitude for the entire mining lease area may be given.

Chapter 3.0 Details of Approved Mining Plan/Review/Scheme of Mining

- 6) Page no. 5: Complete details of the earlier approved document should be given in tabular form. Lapse period may also be mentioned in the table.

5.0 Review of Earlier Approved Proposals

- 7) Page No. 6; Since the underground mining of mineral steatite is not accepted as is not included in the mining lease deed. Hence, the earlier made incline no. 1 and incline no. 2 should be closed and these should be protected with suitable measures.
- 8) Page no. 7: **(a)** Review chapter should be updated up to June 2021. **(b)** In this chapter, year wise proposal and its achievement for (i) Number of pits proposed for production, (ii) Location of Development (Range in UTM Co-ordinates), (ii) Overall Stripping ratio (Ore to OB) in five years period. (T/m³), (iii) Height of benches in Overburden (mts), (iv) Height of benches in Ore (mts) (v) Location of topsoil dumps, OB & mineral reject dumps, (vi) Length of the Retaining wall or garland drain all along dump, (vii) Area under backfilling of mined out area, (viii)

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	

are to be given

File No.: AP/ANP/MP/LST-51/HYD**Part A; 1.0 Geology and Exploration**

- 9) 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).
- 10) Physical characteristics of Dolomite, Limestone and White Shale are to be given.
- 11) Page no. 9: (a) Source of the Geological Succession should be mentioned for reference. (b) Detail structural features present within the mining lease area may also be discussed in this chapter. (c) Genesis for the occurrence of White Shale should be given.
- 12) Page no. 26 Para (i): Future Exploration Programme: During the study of the document it has been found that none of the boreholes have been drilled within mining lease area and the mineralization of Limestone, Dolomite and White Shale is not uniform. Hence, the following parameters may be considered for the proposal of future exploration programme:
 - a) The entire mining lease area should be explored under G1 axis during this Review period.
 - b) All the proposed boreholes may be marked in the geological plan with distinct colours for each financial year proposal.
- 13) Area explored under G1, G2, G3, G4 and Non-mineralised area should be given in hectares and marked on marked on the geological plan.
- 14) Page no. 34 to 50: With insufficient subsurface exploration data, reserve and resource estimation has been done in very high side. Since, no subsurface data is available below the depth of trial pits, hence, mineral/ore estimation with low confidence level of exploration parameters will be considered as "Resource". Same should be shown in the relevant cross sections as well as in the slice plan.
- 15) Detail logging of the trial pits should be given.

2.0 Mining

- 16) In this chapter, mining of the mineral steatite through the underground method will not be accepted. Accordingly this chapter should be modified.
- 17) Page no. 53: In-correct stripping ratio has been calculated in all the places.
- 18) Mineral wise summary table for the proposed production of dolomite, limestone and white shale should be given.
- 19) During study of the document it has been found that the production of dolomite, limestone and white shale have been increased thousand times without any supporting market requirement. The entire enhancement of the production of mineral/ore is subjected to the environment clearance.
- 20) Page no. 93: Number of mining equipments required for achieving the proposed production of dolomite, limestone and white shale should be given under the extent of mechanization.
- 21) (a) Proposal for construction of the garland drain and the retaining wall along the working pit and the waste dumps area should be given. (b) Approach road for connecting the waste dump and the crusher site should be drawn.

4.0 Stacking of Mineral Reject/Sub-grade Material and Disposal of Waste

- 22) Page no. 99: (a) Details of the existing topsoil dumps and waste dumps present in the lease area should be mentioned including their locations in the form of range of UTM co-ordinates. (b) Number of active/alive, dead and stabilized dumps present in the lease area, should be mentioned. (c) Year wise changes in the waste dumps and the topsoil dumps should be given along with the changes of ground RL.

6.0 Processing of ROM and Mineral Reject

- 23) Page no. 103: Detail specification of the crushing unit should be described including feed size of the ore/mineral and the finished size or the ore/mineral should be given.

Enclosures:

- 1) Clear and visible copies of all the annexures should be given.
- 2) 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 surface plan, proposed year wise development, working pit dimension, dump position and afforestation are to be submitted.
- 2) **Plate I; Key Plan:** (a) Co-ordinate range of the mining lease area may be drawn.
- 3) **Plate no. II; Surface Plan:** (a) Ground control point should be marked. (b) Scale and Index should be cross checked in all the plans and sections. (c) Whether the shown power line is High Tension Line, should be specified and buffer zone for the electric line should be marked in all the relevant plans and sections. (d) Index should be cross checked in all plans and sections.
- 4) **Plate IV-A, B and C; Working Plan and Sections:** (a) Intermediate cross sections should be drawn for better assessment. (b) Subsequent changes in the RL of Topsoil, Waste and Reject dumps should be marked in all the plans and sections.
- 5) **Plate VII; Conceptual Plan:** The conceptual plan does not reflect the conceptual stage of the mine.
