

Scrutinuy remarks on Review of Mining Plan of Nandavaram Limestone Mine of Sri T Sriramulu spread over an area of 4.048 ha in Nandavaram and Venkatapuram Villages, Banganapally Mandal, Kurnool District of Andhra Pradesh submitted under rule 17(2) of MCR, 2016.

1. Certificate : In point no 2 provision of MCDR 1988 has been mentioned which should be MCDR 2017.
2. Introduction : i) Proceedings of ADMGS letter, year may be corrected.  
ii) Furnish total production achieved so far vis-a-viz pit excavation.
3. General:  
Para 1.0 (a) : E mail ID of the lessee has not been furnished.
4. 1(b) : In this para i.e. existence of public road, approach road/metal road/kacha road towards mine has not been mentioned.
5. Para 3.3 : Working pit dimension and production details have not been given. The same may be furnished. Review be furnished in tabular form.
6. Para 3.4 : Furnish the details of litho log duly signed by the Geologist/Qualified Person. Check the proposed depth of the bore hole.
7. Part-A, 1B : Equate the local formation within the Regional Geological setup.
8. Part –A 1E: The latitude and longitude have not been properly designated.
9. Part –A 1F: The rule 28(1)(e) of MCDR, 1988 is wrongly mentioned the same may be corrected as per the amendments.
10. Part A G: The rule 28(1)(b) of MCDR 1988 is wrongly mentioned correct rule may be given and mention the date of survey.
11. Part A I: The future program of exploration has not been properly dealt by furnishing the proposed drill holes and their location etc.
12. Geological Axis:  
2. Geochemical survey: The samples have been analysed at NABL accredited Bhagawati and Metchem Laboratories the copy of validity of NABL accreditable certificate is not enclosed.  
Para 4 : Grid density of trail pit has not been given.
13. Feasibility Axis (d) Mining : The categorization of the mine be uniformly be mentioned in the document.
14. Infrastructure : Item C Water : Water table has not been furnished.  
K: In the table reserves/resources estimation, the cross section be drawn at 50 meters strike interval.  
L: Furnish the range radicals.
15. Reserves & Resources
  - a) The RLs as mentioned in the Surface and surface Geological plan of the approved modification to approved mining plan (approval date 26.03.2015) are less compared to that of surface and surface Geological plan submitted with the draft review of mining, which should be justified. In case of any correction all the plans and sections should be modified giving proper justification.
  - b) While estimating the reserves/resources the earlier dug 10 nos pits each of 2m X 2m X 7m in 50m X 50m grid spacing whose explored mineralization depth are still not mined have not been shown in the Geological plan and not projected in Geological cross sections. UPL and UPL depth has not been considered while estimating the reserves / resources and not shown in the geological plan and sections. The blocked reserves and resources has not been estimated and shown in the geological sections and text. Also the details of the earlier dug 10 nos pits have not been mentioned in the text.
  - c) Area explored under different level of exploration has not been shown in the geological plan and geological sections. UNFC category wise reserves / resources including the block reserves/ resources have not been shown in the geological section. The reserves / resources has not been estimated based on thresh hold value.

- d) The geological log sheets in respect of all the dug pits, in form-J as per rule 48 of MCDR-2017 are not enclosed.
- e) In view of all the above comments the UNFC axis wise justification should be modified and total mineral resource, reserves need to be assessed along with grade and categorized correctly as per MEMC rules-2015.
- f) As per the detail of pit-1 dug, the lithology has been shown as “Tuffaceous limestone followed by massive siliceous limestone”. However no chemical analysis report has been enclosed in this regard.
- g) Exploration proposal to prove the existence of limestone below the tuffaceous limestone depth wise within the mining lease by way of drilling should be proposed.

16. : Mining:

- a) Present method of mining has not been furnished. The bench parameters to be defined The methodology of mining and the year wise production should be revised as per the total reserves and resources re-estimated based on above mentioned comments in the reserves and resources head.
- b) In the key cum location plan (Plate-I) and the authenticated lease sketch (Plate-II) the boundary pillar nos are not mentioned and BP nos are not clearly visible in the index-A & B.
- c) All the plans should be prepared as per the lease sketch authenticated by state Govt. Date of survey should be mentioned and the surface plan should be signed by a certified surveyor.
- d) Review in respect of exploration, excavation, production, reclamation has not been furnished.
- e) In the Year wise production and development table mention the details section wise and bench wise with quantity. The year wise P & D sections and conceptual sections should be drawn taking into consideration of the pit slope and bench parameters as per statute.
- f) In the progressive mine closure plan proposal for back filling, erection of bund all along the safety zone area and followed by plantation should be given. Proposal for environmental monitoring should be furnished. In the year wise green belt development table (page-35) should be corrected.
- g) The net area as given in land use pattern at conceptual stage, progressive mine closure plan and financial assurance is exceeding the total granted area of the mine which should be justified.

17. 5.0: A Use of mineral and Mineral reject:

Industrial specification of limestone to be spelled out.

17 7.0.B : Employment potential : OMS has not been furnished the same may be given.

18. 8.2.(x) There is a historical temple Chowdeswari Devi. Mention the direction, distance from the mine.

19. 8.4: The Designation along with e mail, ID of Shri N V Narsi Reddy be furnished.

20. 8.6 Financial Assurance:

The Financial Assurance, area put to use per hectare is Rs. 3 lakh accordingly the amount for the area put to use be arrived.

**Plates:**

1. Key Plan (Plate 1) : The mining leases within the 5 km radius be furnished.
2. Conceptual Plan Plate VI: Conceptual Plan be prepared as availability of reserves/resources.
3. Production Plan Plate V(A): Show the face advancement.