

**Scrutiny comments on the Modified Mining Plan of Sakra kyanite mine of M/s Pavri Kyanite Mines, Tahsil Lakhandur, District Bhandara, Maharashtra for an area of 11.35 hect. submitted under rule 17(3) MCR 2016. The area was inspected by Kewal Krishan, Sr Mining Geologist on 26/7/2016.,**

- 1) *Category of mine to be mentioned on cover page.* It should be submitted for major minerals only. Other minerals should be removed from all the places.
- 2) Supportive documents from state government for extension of lease period up to 10/1/2051 have not been enclosed.
- 3 ) Email address of the owner has to be furnished.
- 4 ) Photographs of the ML area covering mining, dumps, boundary pillars, boreholes drilled and core logs are not enclosed.
- 5 ) Address mentioned on the document is not matching with the address given on annexure v.
- 6 ) The details of latitude and longitude taken by DGPS at the corner pillars are furnished but the same is not authenticated by state government.
- 7 ) Construction and maintenance of boundary pillars should be as per GSR 710(E) dated 08.10.2014 of Mineral Concession (Second Amendment) Rules, 2014 .
- 8 ) Under heading Geology and Exploration, on page no 11, Length and width of presently working pits are not furnished.
- 9 ) Under heading description of geology of lease area. Average thicknesses of all litho units encountered in the boreholes drilled in the lease area are not furnished.
- 10 ) Under heading details of Prospecting/exploration. It is mentioned that eight nos of core-boreholes have been drilled and boreholes logs are enclosed on Form K. The boreholes logs are not furnished properly. Details of run-wise /composite lithlogs along with analysis from NABL laboratory and total depth drilled are not furnished in text. It needs clarification/modification.

11 ) Year wise proposal for future exploration for five years is not furnished on page no. 17.

12 ) As the boreholes logs furnished are not proper ie without proper delineation of mineralized zone along with analysis, RIs and total depth drilled, then how the details of Indicated mineral Resources (332) been calculated on page no. 19 Needs clarifications/modifications. Similarly on page no. 20,21,22,23.

13 ) The reserves/resources furnished in the document should be for major minerals only.

14 ) Under heading, mining, brief description of existing mining methods are not furnished.

15) On page no 41, Indicate briefly the nature and quantity of top soil, overburden / waste and Mineral Reject to be disposed off, ie. top soil, reuse/ storage, similarly in mineral rejects details of backfilling/storage etc

16) Under proposed dumping, it is mentioned that material will be filled back in the mined out areas from third year onward. But as observed from the boreholes data, that the mineralized zone exists at deeper levels also. The waste material is to be dumped in non mineralized zone. Needs corrections at all the relevant places in the document and plates.

17) In the proposed dumps, the protective measures have to be furnished.

18) Details of exiting dumps are not furnished.

19 ) Afforestation proposal for the five years are not furnished.

20) Information furnished in the table on page no 37, regarding production of ore ( major minerals only), excavation of schist and quartzite are not matching with the production of ore/ waste generated mentioned on page no 29. Needs correction at relevant tables also.

21) Total area under top soil/murum will be about 2.07ha as mentioned on page no 42, similarly in the same page, it is mentioned that 2.67ha area will be required for dumping of soil/murum. Needs correction.

22) Monitoring of various environmental parameters needs to be discussed by giving locations of various environmental monitoring stations.

23 ) Information on protective measures for reclamation and rehabilitation works, year -wise to be furnished in the table, on page no 55.

24 ) As the waste dumps have been shown in the mineralized area and the same has to be dumped in the non- mineralized zone. The Financial area assurance is to be recalculated/modified.

25 ) Area for waste/schist to be mentioned in FA table.

### Plates

- 1) The mining lease showing all Khasra numbers/survey no, on Cadastral map ( Khasra Plan) on original plan and duly certified by state Govt. on scale 1: 3960 is not submitted with document.
- 2) Plate no II is not legible.
- 3) Plate no III, location of Environmental monitoring stations are not shown.
- 4) On plate no V, Surface litho unit along with dip and strike of formations are not furnished and , on cross sections, location of boreholes are not marked properly, along with the total depth drilled

- 5) On year -wise development plan, plate no VI , location of dumps have been shown on mineralized Zone. The dumps should be in non-mineralized zone, Needs corrections.
- 6) On plate no.VII, conceptual backfilling area has been shown on plan and in the sections C4, 5 and 6. It has been observed in these sections that the mineralized zone still exists. The back filling has to be done only after the mineral is fully mined out. Needs modifications.
- 7) On plate no. VIII, reclamation area has been marked where the mineralized zone exists, The reclamation work are to be done only after the mineral is fully mined out .Needs correction..
- 8) On plate no. XI, area for waste dump has to be modified/corrected on plan and at relevant places in the document..
- 9) Retaining wall and garland drain to be marked on plans.
- 10) Plate no IX, as the waste dumps have been shown in the mineralized area. The Financial area assurance plan is to be re casted.

