

Peer Reviewed report on “Geological Report on Preliminary investigation (G-3) for Limestone in Akapur Block, District-Yavatmal, Maharashtra” by the Mineral Exploration and Consultancy Limited, Nagpur.

#### Comments for improvement

- The report under review has followed standard procedures of reporting as per UNFC norms and MEMC Rules 2015. However, the following suggestions are offered to improve, Transparency, adequacy and competency in the subject matter.
- Please check the number of primary core samples analyzed and external check samples mentioned in executive summary and in text of chapter- 12.
- The target set for chemical analysis under chapter ‘laboratory studies’ is 300 but achievement is only 167. The reasons for shortfall may clearly specified.
- In Text Figure- 3 on page 19, dip amounts are not legible. This is to enable the proper interpretation of structural features like faults. The facies variation and relationship between limestone and dolomite may clearly be elaborated. In chapter 7.3.1.
- In text figure -1 directions of landmark feature like railway station/district headquarters may be shown by arrows if locations fall outside of your text drawing. There is discrepancy in text on the direction of railway station in relation to target exploration area. In one place it is shown as north and in other place as south east. May be rectified.
- As per standard stratigraphic nomenclature it should be written as Putnur-Mangurda Formation, not formation.
- Description on Regional Geology is too lengthy and un contextual
- Dates of commencement of drilling in table 13,1 may be verified. Somehow it looks glaring as if you have used two rigs for coring rigs on day-night shift basis.
- Please see table no. 13.3. Is it ASTM or different? Under column RQD % the values are different from 90% claimed elsewhere in page no.43. in the report.
- The report derives its strength/weightage from the chemical analysis carried out in MEC laboratory. It is only XRF method. Attempt may be made to please check it with the analytical values by wet method. Even in the analysis tables the outcome of **blind** samples and their results, variation if at all, are not documented. There is no confirmation by duplicate or check samples in another accredited laboratory.
- Geological model of the deposit should be clearly documented. Lensoid? Pinching or swelling? inter-tonging, discontinuous type. Auto CAD modelling and its drawing is preferred even for resource estimation.
- Attempt may be made to improve the clarity of the report by avoiding undue repetition and in-consistencies therein. Minor corrections /suggestions on the hardcopy of the report need to be followed.

The report may be approved by the authorities subject to compliance of the above points.

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