



भारत सरकार

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दिनांक - 11/1/2018

प्रेषित % श्री संजय अग्रवाल, 37/3 नेहरु नगर,(पुर्व)

अग्रसेन चौक के पास,पोस्ट- नेहरु नगर

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क्षेत्रीय खान नियंत्रक

भारतीय खान ब्यूरो

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क्षेत्रीय खान नियंत्रक

भारतीय खान ब्यूरो

Inspection Report cum Scrutiny comments on the Modified Mining Plan for Medesara Limestone Mine over an extent of 3.97 Hectors in Medesara Village, Dhamdha, Tehsil, Durg District of Shri Sanjay Agarwal inspected by Shri Rajesh Kumar Das, SrACOM dated 29.12.2017

1. **Review of Earlier Approved document:** In the given Para height of benches in actual it is mentioned that bench height is of 3-8 meter whereas in reason column it is mentioned that some excavations are above 8 meter and it will be protected by barbed fencing. The same should be incorporate in future proposal and should be demarcated in reclamation plan.
2. **Location & Accessibility:** In the given Para the co-ordinates given is mentioned is GPS co-ordinates. If the area is already surveyed through DGPS then why GPS co-ordinates given. Also clearly mentioned that co-ordinates authenticate by state govt or not. DGPs co-ordinate should be mentioned duly authenticated by competent authority of state government.
3. **Geological Reserves:** The reserves are not furnished according to proper UNFC codification thereby mentioning cut off grades and threshold values considered for the estimation. For the purpose of ascertaining the UNFC code following procedure may be adopted –
 - (i)Identify the category of your deposit as per UNFC guidelines (out of category I to IV)
 - (ii)Classify status of exploration based upon the parameters furnished under the specified table for Geological Axis i.e. G1, G2, G3, G4 etc. and also mark it on relevant plan & sections.
 - (iii)Now based on the stage of your study identify status of Feasibility Axis as per the relevant table i.e. F1, F2 or F3.
 - (iv)Based on the information contained in Prefeasibility or Feasibility study, furnish the cost benefit analysis for Economic Viability i.e. E1, E2 or E3.
 - (v)Combining EFG axis will give the relevant UNFC code for reserve and resources. As per the annexure the pre-feasibility report is enclosed but still reserves are established in 111 category. The mine was executed in 2003 and after 14 years still the mine is in pre-feasibility stage, the same may be clarified and accordingly the correction to be done.
4. In last approved document the reserved as on 22.08.2013 given in 122 category then in the given document the reserves convert to 111. The same should be clarified.
5. The reserves calculated based on the maximum depth of excavation taking into consideration and it is not as per UNFC where as maximum influence can be taken upto 50% of grid. There is no boreholes drilled in grid pattern therefore reserves calculation should be revised as per UNFC.
6. **Mining:** In the given Para the bench height is mentioned 3 meter and again it is mentioned ultimate bench height is 6 meter. The difference between both should be discussed. The existing bench height is more than 3 meter and it is ranges 4-12 meters .The bench height proposed 6 meter with jack hammer of 38mm diameter and 1.5 meter is not practically possible to achieve desired bench height. The same should be reviewed and accordingly proposal should be revised.
7. The table given for tentative excavation programme in column total excavation proposal is given 10530 cum and ore column it is mentioned 9998cum and remaining all other column shows nil. What is remaining 5 % of ROM is not mentioned.

8. The document is submitted for the period 2018-19 to 2022-23 but all the proposals given for the period 2017-18 to 2021-22. The same should be corrected.
9. **Afforestation**: During the mine visit it was observed that negligible afforestation has been done there. Proposal of afforestation should be given yearwise with no of saplings, location and survival rate.
10. **Use of Minerals**: In the given Para it is mentioned limestone is supplied to M/s Rana Stone Crusher but the end used not mentioned. The same should be mentioned with grade and size required.

Plates:

11. **Plat no. II (key plan): The details of the deficiencies found on the plate are as follows**
 - (i) The road to be marked with different colour line differentiating whether it is village, public road, highway, etc and also it should marked properly in index.
 - (ii) The forest area, govt. land, agriculture land, etc should be marked in the plate and also in index. The adjacent lease and other things to be shown and index.
 - (iii) The water reservoir, canal and direction of flowing should be marked.
 - (iv) The plate to be indexed properly, different colour code should used for showing different features. The index shown is not clearly visible.
 - (v) Population of the villages falling within 5 km radius to be furnished in tabular form. The plate should be revised.
12. **Lease sketch**: The plans (surface plan, geological plan, etc.) Submitted are not as per lease sketch. The same should be corrected.
13. **Surface Plan**: During the field visit it was observed that the plan shown is not as per actual ground position. In the given plan all around ML area 7.5 meter is shown intact but as per actual few area near BP11 to BP12 & from BP 13 to BP 15 excavation extended 7.5 meter. Some of benches shown is not as per field condition i.e in northern 2nd bench is not in existence and bottom benches in eastern part also not in existence. The area needs to be surveyed and accordingly plan to be updated..
14. **Production & Development Plan**: During the mine visit it was observed that some of the benches having height 6-12 meter. The proposal should be given to reduce the bench height. As mentioned in above mentioned point that working is extended in 7.5 meter safety barrier therefore proposal should be given to backfilled and reclaimed the area.
15. **Geological Plan & section**: In geological plan the lithology should be shown and same should be indexed properly as most of the area limestone is exposed. In geological plan G1, G2, G3 and G4 scale exploration area should be marked properly as per UNFC and Minerals (Evidence and Mineral contents) Rules, 2015. The dip/strike direction also not shown and neither index
16. **Reclamation Plan**: In reclamation plan the proposal for backfilling and reclamation in 7.5 meter should be incorporated .As mentioned above that some place the bench height is 10-12 meter therefore proposal should be given for stability of that face with pitching of stone, wire netting in the face, etc. in first year.
17. Financial assurance Plan- Area considered for calculating of financial assurance in respect of excavation and overburden dump and other items with outer boundary needs to be shown with different colors. All other feature needs to be removed from plates.

18. The letter enclosed from state Govt. extension of lease period is not complete. The other pages also should be enclosed.
19. The copy enclosed of the certificate of boundary pillars co-ordinates is vague and co-ordinates authentication by state govt. Is not shown in the letter and therefore it is incomplete. The co-ordinates authenticate from state govt should be enclosed.
20. All the plates should be index properly as the features shown in the plan with the same colour code for clarity and signed with date.
