



भारत सरकार

खान मंत्रालय

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1 खान नियंत्रक.(मध्य) , भारतीय खान ब्यूरो , इंदिरा भवन, सिविल लाईन, नागपुर 440001 -

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**Annexure**

**Inspection report cum scrutiny comments on Modified Mining plan & with Progressive Mine closure plan of Mahamaya-Dulki , Lease over an extent of 1522.67 hector in Village:Mahamaya-Dulki , Tehsil:Dalli- Rajhara and Manpur, District:Balod and Rajnandgaon, Chhattisgarh of M/S SAIL,Bhilai steel Plant. Mahamaya-Dulki Mine was inspected on 22/01/2019by Shri R.K. Das (Sr. ACOM) and Shri Rudra. N. Mishra (Senior Mining Geologist).**

- 1) The title of document should have been “ Modification in approved Review of mining Plan”
- 2) On cover page lapse period of review of mining plan 2016-17 to 2017-18 is mentioned whereas there was no lapse period. Same needs to be removed.
- 3) Consent letter- Name of agent of mines who have given consent to prepare document is not mentioned.
- 4) All the annexure to be properly indexed/ numbered/Paged and signed by the qualified person. All certificates should bear date and signature.
- 5) MCDR 1988 should be replaced by MCDR 2017 in Documents.
- 6) Page No-01- Minecode is wrongly mentioned and all proposal of current document from 2018-19 to 2020-21 only needs to be mentioned. Validity of BG mentioned 31/04/2021 which needs to be corrected.
- 7) Name of lessee as per lease deed and email address not given correctly.
- 8) Para 2.11 – experience and qualification of qualified person are not properly given.
- 9) Para 3.2- Mine code mentioned is not correct, at three places three different minecode is mentioned . it shows how causally document is prepared and submitted.
- 10) Location map enclosed does not serve the purpose. A district map with road and rail network marked with mine location needs to be furnished.
- 11) Lease plan-II- the original corner pillar name as per lease executed lease map is not mentioned and co-ordinate of boundary pillars are not marked on plate.
- 12) DGPS Coordinates of Lease boundary pillars duly authenticated by state Government authorities have not been furnished.
- 13) Para 5.0- reference of earlier approved mining plan needs to be given.
- 14) Para 5.25 The reasons for modification in approved Mining plan should be elaborately discussed in the text and same should be justified. How much enhancement of production is proposed not mentioned.
- 15) Review of mining Plan: The review of 2018-19 up to date should be furnished. In review Para the exploration proposed in 2017-18 of 20 boreholes but only 08 drill holes drilled but the reason for deviation is not discussed. The top soil, Overburden, given in last approved document has deviation but the same is not mentioned. Photographs of afforestation within lease area should be enclosed.

**Chapter-2 Geology and Exploration**

- 16) Page No-13, Para-6.4: Rain fall data of the Mining lease area needs to be furnished in para-2.
- 17) Page No-14, Para-6.5:- Litho-Stratigraphy of Chhattisgarh Basin including formation and members of the supergroup needs to be furnished. Stratigraphic succession in tabular format should be discussed in Regional Geology.
- 18) Para 6.9.1 - Bulk density for different ore needs to be given separately.

- 19) Para 6.9.3 – annexure XX as mentioned is not enclosed with document.
- 20) Page No- 21: Petrographic studies of the mineral study reports needs to be attached.
- 21) Details of 21 bore holes given in annexure 9 is not readable in many coloumn. Same needs to be properly formatted and furnished.
- 22) Page No-28: Para-6.9.8 Reserve: Since mineral resources have been re-assessed in the lease area. A sub heading ‘ Re-assessment of mineral resources’ needs to be given, while furnishing details of same.
- 23) Page No-28: Methods adopted for reserve estimation: Section wise reserve estimation calculation to be given along with different grade wise etc. Further Mineral/ ore blocked due to benches, UPL, barriers, Pillars, road, nala, electric line and other statutory barriers are to be given.
- 24) Page No -29: Resources under 211, 222, 331,332 and 334 are not estimated and given based on exploration sofar carried out/ regional /location geological consideration .
- 25) Page No -28: Reserve should have been on specific date. Grade, cut of grade, quantity of sub grade, and mineral reject should have been specifically mentioned along with associated overburden to arrive over all stripping ratio.
- 26) Page No-34: Proposed for Future Exploration: As per Rule 12(4) of MCDR, 2017 entire potentially mineralized zone to be explored under G1 level of the exploration, however, it is observed till date less than 10 % lease area is explored and remaining lease area remained unexplored till date. Therefore proposed exploration is inadequate. A concrete exploration proposal to cover entire lease area needs to be given.
- 27) Non-Mineralized Zone should be marked in Geological Plan and area mentioned in the text for the purpose of soil & OB Dump.
- Chapter-3 Mining
- 28) The proposal of mining is given in five different locations to cater the production target 2.5 million tons as per proposal. This proposal is not as per systematic & scientific mining therefore justify the reasons for such proposals. The proposal is given for backfilling of existing pit adjacent to working area which is not as per systematic & scientific mining and proposal cannot be acceptable as the area and adjacent area is still not explored and area is not proved as non-mineralised zone therefore the dump should be temporary and it should be proposed on surface so that in future it should be rehandled and dump to non-mineralised zone.
- 29) During the mine visit it was observed that mine working is not systematic and bench height is range from 3m to 10m. The proposal should be systematic and some place the excavation is extended 7.5-meter safety barrier zone (Dulki pit) and the same should be reclaimed. The proposal should be revised accordingly.
- 30) Para 7.2.1 (b) and (c) details given in tables are not matching and annexure xiv is nor enclosed. And table 7.2.3 is left blank.
- 31) since it is modification of already approved review of mining plan, therefore earlier production planning along with proposed changes needs to be given.

Sr.No	Year	Already approved proposal of Iron ore in tonnes	Modified production proposal proposed in submitted modification	Reasons of same
	2018-19			
	2019-20			
	2020-21			

32) Para 7.3 how width of working benches are proposed only 5.5mts where HEMM equipment are deployed.

33) The calculation given for HEMM for achievement of maximum excavation proposed should be furnished for excavation, loading, transportation,

Excavation & loading					
Sr	Type of Excavator	Bucket capacity in CUM	Rated output in tonne/ hr	Output per day by Excavator=capacity per hr * nos of hrs in a day)	No of equipments required = Material Handling required per day / Machine output per day
a)					
b)					
c)					

34) The flowchart of crushing and screening plant with other beneficiation process to be furnished with capacity and input/out size.

35) During the mine visit it was observed that dump is not stabilised and some place dump is collapse therefore proposal should be given for proper stabilisation by afforestation, dump terracing, core-matting and construction of retaining wall and drain all along dump.

36) Para 7.19- exploration to cover entire lease area needs to be given.

37) Para 7.26 – post mining land use is not given.

38) Disaster Management plan: A proper Disaster Management Plan based on the risk assessment and clearly indicating the chain of activities along with the name and designation of key persons with infrastructure (hospital, fire station, police station, etc.) should be furnished. The contact no. of the responsible person to be given.

39) Para 14 – The afforestation proposal given is very less needs to be reviewed

40) Para 14.3 – proposed back filling to be done only after establishment of area as non mineralised..

#### Plates:-

41) Co-ordinate mentioned on plates have not been authenticated by state government authorities.

42) 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.

#### SURFACE PLAN

43) Surface plan prepared is not on specified scale as per MCDR 2017.

44) Some features are not indexed in plan and Explosive Magazine, Public road, mine road and village road should be marked and differentiated by colors in plans.

#### GEOLOGICAL PLAN

45) Geological plan of complete lease area is not enclosed.

46) Geological Plan & section: In geological plan the lithology should be shown and same should be indexed properly. 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. There is no future exploration proposed to delineate the ore body below exposed level and virgin area. The dip/strike direction also not shown and neither index.

47) Positive and negative bore hole needs to be shown in different color.

48) Development plan: Development Plan & Section: The working plan should be proposed with proper advancement and top and bottom RL. The section also to be corrected accordingly. The benches should be proposed with bench RL and regular in manner. The topsoil, OB, mineral benches should be marked with different colour code to identify.

- 49) The haul road not shown from working face to top soil, waste dump, screen reject and mineral stack. The top soil dump, waste dump and mineral stack should be shown in the plate and should be proposed yearwise with RL. The plate should be revised accordingly.
- 50) Financial assurance: The table showing the extent of area for mining and allied activities to be considered for computation of financial assurance is also should be shown in the plate as per prescribed format. All the land use activity should be indexed properly including the mining area and allied activities.
- 51) The present and permanent address of owner should be furnished with contact no., fax, e-mail, etc. The copy of address proof of nominated owner/lessee to be enclosed. The copy of PAN card enclosed is not clearly visible.
- 52) Annexure 22 is not enclosed.
- 53) All plates needs to be prepared on scale specified as per MCDR 2017.

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