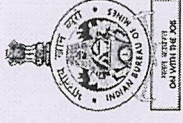




भारत सरकार/Government of India  
खान मंत्रालय/Ministry of Mines  
भारतीय खान ब्यूरो/Indian Bureau of Mines  
हैदराबाद क्षेत्रीय कार्यालय/Hyderabad Regional Office



Phone No. : (040)-27539992/2753993  
Fax No.(TF): (040)-27539991  
E-Mail : ro.hyderabad@ibm.gov.in  
No. AP/VZNR/MP/Min-111/Hyd

Room No.603, 6<sup>th</sup> Floor,  
CGO Towers, Kavadiguda,  
Secunderabad – 500 080  
Date. 18.12.2018.

To

Shri Pradeep Chandra Deo, Owner,  
C4/19, Area 7 & 8, Civil Township,  
Raurkela,  
Sundarbagh,  
Orissa State.

Sub: Submission of Modified Mining Plan in respect of Gadabalasa Manganese Mine of Shri Pradeep Chandra Deo over an extent of 12.691 Hc. in Sy.Nos. 1/P and 3/P of Gadabalasa Village, Garividi Mandal, Vizianagaram district, A.P. submitted under Rule 17(3) of MCR, 2016.

Ref: Your letter no. nil dated. 28.11.2018.

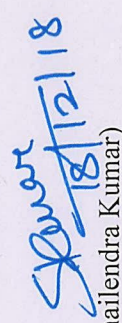
Sir,

With reference to your letter cited above on the subject, table scrutiny of the mine was carried out by Shri S.K. Muduli, JMG and found certain deficiencies as given in Annexure. The same scrutiny comments have already been forwarded to you and your Qualified Person on respective e.mail ids i.e., pradeepchandradeo@gmail.com and [earth\\_environment2008@yahoo.com](mailto:earth_environment2008@yahoo.com)

02. You are advised to attend these deficiencies as per the annexure and resubmit the document, complete in all respects, in three bound copies along with soft copy in the form of CD (2Nos.). In this regard you are directed to submit the Financial Assurance in the form of Bank Guarantee for the area put on use for Mining and allied activities @ Rs.Three lakhs/hectare for category 'A' mines provided that the minimum amount shall be Rs.Ten lakhs as per the provision of Rule 27(1) of MCDR, 2017 at the time of submission of final copies of the document within 15 (fifteen) days from the date of issue of this letter, failing which the document will be disposed without giving any further opportunity.


03. The para-wise clarification & the manner in which the deficiencies are attended should be given while forwarding modified document.

Yours faithfully,

  
(Shailendra Kumar)

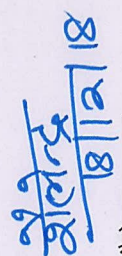
Regional Controller of Mines

Copy Shri P.R.Mishra, QP for information and necessary action.

  
(Shailendra Kumar)  
Regional Controller of Mines

मूल पति पर नहींकष्ट

खान नियंत्रक (द), भारतीय खान ब्यूरो, बेंगलुरु ।

  
(शैलेन्द्र कुमार)  
क्षेत्रीय खान नियंत्रक







SCRUTINY OF MODIFICATION OF MINING PLAN ALONG WITH PROGRESSIVE MINE CLOSURE PLAN SUBMITTED IN RESPECT OF GADABAVALASA MANGANESE ORE MINE OF SRI PRADEEP CHANDRA DEO OVER AN EXTENT OF 12.691 HA. IN GADABAVALSALA VILLAGE, GARVIDI MANDAL, VIZIANAGARAM DISTRICT OF ANDHRA PRADESH

General

- 1) Final Mine closure plan be submitted instead of progressive mine closure plan.
- 2) In the introduction chapter details of initial grant, transfer, renewal be submitted in tabular form mentioning the Order no with date lease, period, validity in tabular form.
- 3) The reason for submission of modification of "Review of mining plan" should be clearly explained with correct rule position.
- 4) Mine code be submitted.
- 5) All the Plans be prepared on the same local grid of the existing approval in which the UTM grids also be mentioned.
- 6) All the Plans be submitted in 1:1000 scale with 1m contour interval.
- 7) The bench mark be transferred from nearest railway station or SOI triangulation point and established in the mine and survey be done again for level.
- 8) Details of last five approved mining plan document be submitted.
- 9) All the annexures have not been submitted and numbered correctly.
- 10) Original Lease sketch Lease with lease boundary pillar co-ordinates dully authenticated by the concerned authority of State DMG be produced for verification with the submission made.
- 11) Feasibility report be prepared as per the format of pre-feasibility report of MEMC Rules-2015.

Review

- 12) Submit the reason for non working of the mine.
- 13) The review of dump rehandling and backfilling be submitted.
- 14) The review of mineral reject, sub grade, afforestation, reclamation and rehabilitation, be submitted.

Geology

- 15) Average rain fall and temperature data be submitted.
  - 16) Details like year of exploration, Co-ordinates, Collar RL, angle and depth of all the drilled bore holes with type along with summarized litho logs and manganese ore grade be submitted. Chemical analysis reports be submitted.
  - 17) Furnish details of year wise exploration carried out, sampling and analysis with expenditure incurred with annexures.
  - 18) The type of exploration proposed for type-I deposit as per MEMC Rules-2015 is not correct. Thus exploration be proposed to comply with the rule of 12(4A) of MCDR-2017 by angular and vertical core bore holes.
  - 19) Proposal for exploratory core drilling, meter wise logging, sampling of the mineralised zone & meter wise analysis of the mineralised zone and analysis of 10% of the total samples by NABL approved laboratory or any Govt Laboratory be proposed.
- In the recovery test report the co-ordinates of samples collected be submitted, the average bulk density submitted is 25.76 which is not correct and the average manganese ore recovery has been furnished as 53.28% but the grade of manganese ore has not been furnished.



As the cutoff grade is considered at 20% of Mn content and the threshold value is 10%, recovery test and bulk density test be done again any NABL accredited laboratory for subgrade manganese ore and also Manganese Ore (Mn=>20%) and report thereof be submitted.

20) Proposal be submitted for year wise quantity of sub grade to be generated, its stacking, disposal, use and blending. In case any subgrade mineral generated and despatched earlier, details thereof be submitted.

21) Resources be assessed for manganese ore of Mn content more than 10%.

22) The UNFC axis wise justification be furnished as per the guidelines of UNFC.

23) In the feasibility axis in the environmental sub head the Environmental Clearance, CFE and CFO details have not been mentioned. Market related information be submitted. The reserves be re-categorized as per UNFC guidelines. Further the operating cost/tonne be submitted as per the format of annual return. Details of all statutory clearances be submitted in other factors.

24) Level wise explored area be re-assessed and submitted.

25) Proposal be submitted for systematic and scientific sampling of so called waste dumps and the analysis done by NABL accredited laboratory to be submitted.

26) Details of all dumps (waste, mineral reject, sub grade) with location, geo coordinates, volume, dimensions and grade be submitted.

27) As it is proposed to shift the waste dump, the newly proposed waste dump area be should be non mineralised and beyond UPL.

28) Proposal be submitted for completion exploratory operation within six months from the date of approval of the modified mining plan document. Geological reports have to be submitted within two months after completion of the proposed exploratory operation.

### Mining

29) Co-ordinates of the existing mining pit and dumps be submitted correctly.

30) Powder factor to be calculated correctly and submitted again.

31) The existing bench height and width need to be regularized, thus proposals be submitted accordingly in the first year itself.

32) Requirement of pump for water withdrawal has not been discussed. Thus the machinery requirement be reassessed and submitted.

33) Production proposal to be submitted considering proposals for the balance period of the last approved mining plan document.

34) The bench wise weighted average grade of proposed mining block for each year needs to be furnished and the mechanism for the grade control for optimum utilization of mineral along with blending techniques needs to be furnished. Bench parameters needs to be mentioned in the text.

35) Quantity of waste to be generated vis-à-vis its disposal scheme alongwith the rehabilitation scheme, of the proposed and existing dumps should be discussed. A summary of all dump areas, its height, existing volume, degraded area for different types of wastes, mineral rejects, sub grade material etc. future plan for rehabilitation be discussed. This discussed plan should be supported with appropriate plan and enough number of sections.

36) The ore: waste ratio proposed is not matching with that of the details submitted in the table no-22.



- 37) In the year wise production and development plan the layout of mine working with length, width, height, direction, co-ordinates, level (in mRL), volume, the road lay out (in and out) to the mining pit/workings have not been furnished.
- 38) The conceptual mining chapter be discussed considering the ultimate economic depth, pit slope stability, existing exploratory information, balance reserves / resources, future scope of mining, environmental protection.
- 39) The conceptual chapter should be recasted, drawn and projected to visualize the status of lease at the closure of mining operation. Submitted proposal should be supported by suitable number of plans and sections both in transverse and longitudinal directions passing through lease boundary, pits, dumps etc showing the status of reclamation and rehabilitation work carried out, position of workings, all dumps, and afforestation at the closure, reclamation and rehabilitation work done for the area degraded because of mining operation, waste disposal and exploration proposed and balance reserves/resources etc. The status of the whole area at the end of the life of the mine be shown accordingly on this plate.
- 40) Back filling is allowed only in mined out areas which have been proved through exploration to have no underlying deposits. Thus the proposal of back filling is acceptable only for already mined out 7.5m safety zone area. Details of co-ordinates, dimension and level to be back filled with volume be submitted with proper drawing and sections.
- 41) Generation of mineral reject (size & grade), grade, disposal and stacking be discussed.

#### **Mine Drainage**

- 42) Source of information for the ground water table be submitted.
- 43) Year wise water sump proposal be submitted either wise year wise water withdrawal proposal from mining pit be submitted with volume of water to be accumulated and pumping arrangement.
- 44) Proposal be submitted for arresting the water flow in to the mining pit.

#### **Reclamation**

- 45) Base line information on environment be submitted.
- 46) Environmental Clearance capacity be mentioned and EC order be annexed.
- 47) Information on different types flora and density of trees within lease area be furnished.
- 48) Proposal be submitted for construction of Garland drain, retaining wall, catch drain and settling pond. Details like location, co-ordinates, and dimensions be furnished.
- 49) Year wise plantation proposal be submitted with location, co-ordinates, types to be planted with nos.
- 50) Environmental monitoring be proposed quarterly giving the type of environmental parameters, location name, co-ordinates, distance from mine.
- 51) Proposal be submitted for rain water harvesting structure within the mine.

#### **Final Mine Closure Plan**

- 52) Final mine closure plan be submitted as per the format issued by IBM and supported by necessary plans and sections.
- 53) Year wise proposal for fencing of the complete mining pit area be proposed.
- 54) Proposal for stabilization of the waste dumps be proposed in the first year itself. Proposal for prevention of erosion, siltation and dust generation from waste dumps be submitted.



- 55) Proposal for decommissioning of mining machineries and their possible post mining utilization be submitted. Also decommissioning of processing plant be proposed.
  - 56) Statutory obligations if any to be implemented legally by the lessee be submitted.
  - 57) The details of infrastructure available, to be retained after decommission and Proposed measures to be taken for remaining structures for their protection and future use be submitted.
  - 58) Socio Economic Repercussions of closure of mine and manpower retrenchments be discussed. Compensation if any, socio-economic repercussions and remedial measures consequent to the closure of mines be analysed and submitted.
  - 59) Time scheduling and closure cost is submitted.
  - 60) The net area put to use for mining and allied activities and proposed to be used as given in the progressive mine closure plan and table in respect of the area utilization is not matching with each other.
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