



भारत सरकार GOVERNMENT OF INDIA
खान मंत्रालय MINISTRY OF MINES
भारतीय खान ब्यूरो INDIAN BUREAU OF MINES
क्षेत्रीय खान नियंत्रक के कार्यालय
OFFICE OF THE REGIONAL CONTROLLER OF MINES



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No. MS/OTFM/09-ORI/BHU/2017-18

Date: .08.2017

To

✓ Shri Jitendra Nath Patnaik, Mine Owner,
At- Bonaikela, P.O- Joda,
Dist- Keonjhar, Odisha- 758038

Sub: Approval of Review of Mining Plan of Bhanjapali Iron Ore Mine along with Progressive Mine Closure Plan (PMCP), over an area of 18.00 ha in Sundargarh district of Odisha State, submitted by Shri Jitendra Nath Patnaik under Rule 17 of MCR, 2016.

Ref: - i) Your letter No. 42/JNP/2017-18 dated 15.07.2017.
ii) This office letter of even no. dated 18.07.2017.
iii) This office letter of even no. dated 18.07.2017 addressed to Director of Mines, Government of Odisha copy endorsed to you.

Sir,

This has reference to the letter cited above on the subject. The draft Review of Mining Plan along with Progressive Mine Closure Plan (PMCP) has been examined in this office based on earlier site inspection dated 01.02.2017 by Shri Dilip Jain, JMG & Shri Ramkishan R, Sr. Assistant Controller of Mines. The deficiencies observed are enclosed herewith as Annexure I.

You are advised to carry out the necessary modifications in the draft Review of Mining Plan in the light of the contents vide Annexure 1 and submit **three (3) firm bound and two (2) soft copies of the document text in CD in a single MS Word file (the drawing/plates should be submitted in Auto CAD compatible format or JPG format in resolution of 100x100 pixels on same CD)** with financial assurance under Rule 27 of MCDR 2017 of the Review of Mining Plan within **15 (Fifteen)** days from the date of issue of this letter, for further necessary action. If the total page of annexures exceeds 50 (Fifty) then it should be submitted as separate volume. But reference of these annexures must appear in the Review of Mining Plan document. The plates are also to be submitted in separate volume.

The para-wise clarifications and the manner in which the deficiencies are attended should invariably be given while forwarding the final copies of the Review of Mining Plan. It may be noted that no extension of time in this regard will be entertained and the Review of Mining Plan will be considered for rejection if not submitted within above due date. It may also be noted that if the deficiencies are not attended completely, the submission would be liable for rejection without further correspondence.

Yours faithfully,


(HARKESH MEENA)

Regional controller of Mines

Scrutiny comments in respect of Review of Mining Plan of Bhanjapali Iron ore Mine, of Shri J N Patnaik in Sundargarh district of Odisha

Text:

GENERAL

1. The title may be changed to Review of Mining plan and PMCP under relevant rule of MCDR 2017.
2. The lessee is a private individual as stated, supporting documents shall be enclosed.
3. The supporting documents in respect of QP shall be enclosed like education qualifications and experience as per MCR, 2016.
4. Status of compliance of violation pointed out by IBM, Suspension/closure/prohibitory orders issued by statutory bodies under court of law.
5. An undertaking by applicant (individual & partner) may be given with regards to his working in other firms/company/organization.
6. The copies of all statutory clearances like Environment clearance, consent to operate, lease deed etc., shall be enclosed.
7. Details & status of Court cases and PIL pending w.r.to leases/lessee should be given with copy of relevant documents.
8. Justification for review of mining plan shall be furnished.
9. All boundary pillars coordinates in UTM / Latitude and longitude shall be furnished as per authenticated DGPS survey.
10. The exact date since which the mine was not in operation shall be mentioned with relevant documents of statutory bodies.
11. It is observed that contents of the draft mining plan are not in line with the IBM manual of appraisal of mining plan 2014, so may be modified accordingly.
12. Summary of proposals may be given in the format (Annexure-1) before the Introduction.

GEOLOGY AND RESERVE

13. Detailed geology like shape, size of ore body and various litho-units within the lease area shall be provided.
14. Details of bore holes drilled in the year 2012-13 mentioned as 10 bore holes where as in review of earlier mining plan no boreholes were drilled. Clarify the same.
15. Forest and no-forest area of the mineralised zone shall be furnished.
16. On verification of few borehole log data, the collar RL mentioned is not matching with the boreholes location RL in the geological sections

17. G2 level is considered 5 m below G1 level for estimating reserves/resources which is not acceptable. Reserves shall only be estimated upto the proven depth with respective grid patterns. Accordingly reserves/resources may be modified in line with MEMC rules 2015. The depth considered for various UNFC categories may also be mentioned.
18. Specific gravity considered for ore, subgrade ore and waste shall be mentioned for calculations with justification and documentary evidence. Also justification shall be given for recovery of ore and subgrade in reserves estimation as well as dump recovery.
19. All the year wise boreholes drilled details like type, co-ordinates, depth, inclination, collar RL etc., shall be furnished in tabular form.
20. The features of geological plan prepared may be explained in detail.
21. The boreholes proposals shall be in systematic grid pattern in comply to MEMC 2015 in the entire lease area. Few earlier boreholes are ended in mineralisation, so proposal may be given to drill boreholes to the depth of end of the mineralisation.

MINING

22. During field inspection it is observed that safety zone was disturbed, workings and dumps are outside lease area. Details of such workings and dumps all along the periphery of lease area shall be furnished in detail with exact locations and remedial measures shall also be furnished to rectify it.
23. ROM of Iron ore is only above threshold value of Iron ore, accordingly table furnished in page no 37 shall be rectified.
24. Production table shall be furnished in the tabular form as per IBM manual of appraisal of mining plan 2014.
25. Section wise details of excavation of ore, subgrade and waste shall be furnished.
26. Details of all the existing quarries like dimensions from and to RL with exact grid locations shall be furnished. Likewise year wise development details in a tabular form furnishing the information like grid locations and RL positions of benches proposed shall be given.
27. It is proposed to re handle the dumps for recovery of iron ore, so give the exact locations and quantities to be handled in the year wise development plan.
28. Stripping ratio of the mine shall be addressed properly with year wise excavation proposal.
29. Type of explosives to be used in blasting needs to be explained in detail.

30. Post mining land use pattern shall be properly addressed in the conceptual stage. Land use patterns shall be given with details of how much is in forest and non-forest area.

STACKING OF MINERAL REJECTS AND DISPOSAL OF WASTE

31. Details of all the existing dumps and subgrade stacks like dimensions from and to RL with exact grid locations shall be furnished.

32. Protective measures in respect of waste dumps and sub grade dump shall be furnished.

33. Detailed dumping of waste generated during scheme period in the designated area like no of terraces, area, height and width of terraces and dumps etc., shall be furnished.

34. Proposed dump is over the developed quarry in north east side of the lease area. Justify the same.

PROGRESSIVE MINE CLOSURE PLAN

35. Environment management monitoring data shall be enclosed.

36. Summary of proposals during the scheme period for reclamation and rehabilitation works shall be provided.

37. On verification of financial assurance plan the area not considered for FA calculation was also degraded due to allied activities during field observation. So FA may be revised to 18.00 ha

Plates:-

General:

38. True and magnetic north shall be depicted in all plans with date and variation.

39. All plans and sections should be signed with date by certified Surveyor, Qualified Person, Mine Manager, Mining Engineer and Mining Geologist as per provisions of Rule 31 of MCDR, 2017 and Rule 66 of MMR, 1961. All plans & sections prepared shall follow the conventions mentioned under MMR 1961.

40. Date of survey shall be given on all plans and sections and signature should bear date of signature.

41. A scale of 25 cm long and suitably subdivide should be shown in every plan.

Surface Plan:

42. The boundary pillars coordinates in UTM, Latitude and longitude shown in tabulated form on surface plan or not matching with authenticated DGPS survey map. Check and rectify the same. Few pillars may be correlated with some permanent ground feature giving distance and direction.
43. 7.5 m safety zone area shall be marked on surface plan.
44. Drainage plan shall be marked on the surface plan.

Geological Plan

45. Structural details like strike and dip direction with dip amount shall be shown on the plan.
46. Boreholes co-ordinates furnished in the bore hole log data are not matching with the position shown on the geological plan. Check and rectify the same. Core type and DTH type boreholes shall be mentioned with different legend/colour.
47. During filed inspection the lithology observed shall be updated in the geological plan and sections. And accordingly reserves and resources may be revised.
48. UNFC categories of reserves/resources shall be properly marked on the plans and sections. G1 and G2 area shall be marked as per MEMC 2015.
49. Geological sections needs to be drawn in line with the surface features of site conditions.
50. Existing quarry benches RL and all surface features RLs like dumps shall be mentioned in sections.
51. The legend of proposed and already drilled bore holes shall be distinguished properly. Litho information of all boreholes given in bore hole log data shall be shown in the sections with clear demarcation of ore zone.
52. Proposed boreholes shall be marked on the section with information like depth.

Development plan and sections

53. Development plan and sections shall be modified as per the modified reserves estimation as per MEMC 2015.

Environment plan

54. The proposed reclamation and rehabilitation protective measures to be shown in environment plan.
55. Environment plan shall be prepared as per the rule 32 of MCDR, 2017. All the features within 60 mtrs of the lease boundary shall be shown.

ENCLOSURE:

56. Proper indexing of chapters and annexures needs to be done.
57. Some spelling and grammatical mistakes observed in the document. These need to be rectified.

58. All annexures shall be signed.

SUMMARY OF PROPOSALS AT A GLANCE
PERIOD: -----TO -----

Proposal	Year					Remarks
	I	II	III	IV	V	
Exploration						
No of Boreholes (Core/RC/DTH) with meterage						
No of Pits/Trenches with dimensions						
Any other Exploration activity (to indicate)						
Excavation						
Top Soil in m ³						
ROM in Tonnes						
Waste Material in m ³						
Area Utilisation						
Area under Mining (in Ha)						
Area under Waste dumping (in Ha)						
Area under Mineral Reject (in Ha)						
Area under Top Soil stack (in Ha)						
Area under Tailings if any (in Ha)						
Area already reclaimed and rehabilitated (in Ha)						
Stacking						
Top Soil in m ³						
Mineral Reject in Tonnes (above threshold)						

value)							
Waste material in m ³							
Environmental Protective Measures							
Plantation for green cover/reclamation:							
Numbers							
Area							
Plantation over waste dumps:							
Numbers							
Area							
Reclamation of mine out area							
Construction of:							
Check Dams numbers							
Retaining Wall in meters							
Garland drain in meters							
Settling ponds (Numbers)							
Any other environmental protective measures(to be indicated)							