



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 MPM/FM/23-ORI/BHU/2018-19

दिनांक /Date: 23.07.2018

To

Shri Pawan Kumar Ahluwalia,
Post Box No-3, At/Post-Barbil,
Dist-Keonjhar, Odisha-758035.

Sub: Approval of Modification of Mining Plan of Gouva Iron & Manganese Ore Mines over an area of 86.886 ha in Sundargarh district of Odisha of Shri Pawan Kumar Ahluwalia submitted under Rule-17 (3) of MCR, 2016 and Rule 12 (4A) of Mineral Conservation and Development (Amendment) Rules, 2018.

Ref: - i) Your letter no. nil dated 13.07.2018 received on 16.07.2018.

ii) This office letter of even no. dated 16.07.2018.

iii) This office letter of even no. dated 16.07.2018 addressed to the Director of Mines, Govt. of Odisha, copy endorsed to you.

Sir,

This has reference to the letters cited above on the subject. The draft Modification of Mining Plan along with Progressive Mine Closure Plan has been examined in this office based on earlier site inspection carried out on 10.06.2018 by Shri Dilip Jain, Junior Mining Geologist and Shri Ashok Kumar Pany, Asst. Mining Engineer. The deficiencies observed are enclosed herewith as Annexure-I.

You are advised to carry out the necessary modifications in the draft Modification of Mining Plan in the light of the contents vide Annexure-I 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 and JPG format in resolution of 100x100 pixels on same CD)** with financial assurance under Rule 27 of MCDR' 2017 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 Modification of Mining Plan document.

The para-wise clarifications and the manner in which the deficiencies are attended should invariably be given while forwarding the modified copies of the Modification of Mining Plan. It may be noted that no extension of time in this regard will be entertained and the Modification 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.

भवदीय / yours faithfully,

(HARKESH MEENA)

क्षेत्रीय खान नियंत्रक / Regional Controller of Mines

Copy for kind information and necessary action to:

1. Shri Chandrabhanu Dash, Qualified Person, Geo Consultants Private Limited, Plot No-853, Gobind Prasad (Medical Lane), Mahavir Nagar (Infront of Radhika Complex/Reliance Fresh), Laxmisagar, Bhubaneswar-751006, Odisha.



(HARKESH MEENA)
क्षेत्रीय खान नियंत्रक / Regional Controller of Mines

SCRUTINY COMMENTS ON EXAMINATION OF MODIFICATION OF REVIEW OF MINING PLAN WITH PROGRESSIVE MINE CLOSURE PLAN OF GONUA IRON & MANGANESE MINE OF SRI P.K. AHLUWALIA, OVER AN EXTENT OF 86.886, LOCATED IN VILLAGES GONUA AND PATABEDA UNDER KOIRA P.S OF SUNDERGARH DISTRICT OF ODISHA STATE, SUBMITTED UNDER RULE 17(3) OF MCR, 2016 AND 12(4A) OF MCDR, 2017.

1. The email address, mailing address, phone and fax number of QP to be mentioned on cover page. Page 5: email address, phone number and fax number along with other details to be mentioned in respect of the registered office and Mines office.
2. Page 13: Review of earlier proposal has not been carried out as per last approve proposal. Para 3.5: The details of revocation of suspension of mining operation or re-opening of mining operation to be furnished along with documentary evidence.
3. Para 3.6: Proposer justification of modification of mining plan to be given in light of the rule 17 of MCR, 2016.
4. Many tables have been furnished in text without any proper heading, which creates confusion to understand the data. Verify and rectify.
5. **Geology and Exploration:** Para c: Detail description of geology of the area such as shape and size of the mineral deposit, disposition of various litho unit indication structural features to be given.
6. Para d: It is mentioned that chemical analysis of sub-grade, stacks, dump has been carried out. Information of all to be given in tabulated form. A copy of all such chemical analysis to be enclosed for future reference.
7. Page 19 & 40: The details of existing quarry furnished are not matching with the surface plan. Check and rectify. It is mentioned that a total of 57 BH have been drilled in the lease area. However, in subsequent pages number of drilled BH have been increased. Check and rectify.
8. It is mentioned that a total of 57 BH have been drilled in lease area, however, more than 57 BH has been depicted on the plan. All the BH to be depicted as per information furnished in the form I and form J under rule 47 and 48 of MCDR, 2017. Accordingly geological section to be revised.
9. Page 18: The area for different level of exploration furnished in the table is not as per MEMC, rule 2015. Same need to be rectified and should be as per M(EMC) rule 2015. Accordingly table presented on page 23 needs to be modified and estimation of reserve and resource also to be revised. Number of BH considered for resource estimation in G1 and G2 level to be given separately.
10. Page 24: Approximate expenditure of exploration to be furnished for entire exploration programme till 2017-18 irrespective of departmentally or third party. Proper document evidence to be enclosed.
11. On verification of plan and section it is observed that all drilled BH have not been projected on the Geological section like BH07, DTH-12 etc. Further, it is observed that in few BH (BH 02, BH 05, DTH 02 etc.) Mineral reject has been encountered; however, same has been correlated as saleable Ore.
12. To comply with the provisions of the rule 12(4A) of MCDR, 2017, the depth of exploration to be proposed for open cast mining shall be up to 300 meters or up to discontinuance of ore body, whichever is earlier. Accordingly, proposal of exploration to be revised. Proposal of exploration should be as per mentioned rule.
13. **MINING:** Instead of giving proposal of excavation in two quarries, requirement of Ore should be meet form one quarry in the interest of protection of environment. Accordingly proposal to be revised.
14. The location (coordinates) of the existing quarry and waste dump mentioned is not matching with the plan. Check and rectify.
15. All mineral reject and Ore Stack mentioned on page 41 and 42 to be shown the surface plan and other relevant plan. Different colour code to be given for mineral stac and mineral reject for better referencing.
16. The year wise grid location of proposed excavation is not matching the plan. Further, in general the coordinates mentioned in text for various proposals and existing feature are not matching with the relevant plan. Same needs to be checked invariably and rectify.

17. The layout of the haul road for present and future excavation proposal should be properly addressed in line with safe movement of fleet of the machinery and same needs to be depicted on development plan.
18. In Conceptual Mine plan the details about total excavation, Disposal of waste, Sub-grade generation and its beneficiation/utilization, mine development, manpower and equipment requirement, conceptual exploration, land degradation, waste required and its availability for back filling the ultimate pit details, depth of the back filling, reclamation and rehabilitation of pit and waste dump, Proposal of any expansion, etc. showing on a plan with few relevant sections to be given for conceptual period. Accordingly conceptual plan and section along with text to be revised.
19. **Mine Drainage:** The information pertaining to maximum depth of workings may be provided in the tabular format below.

Name of the Quarry	Existing depth in Mrl		At the end of plan period (mRL)		At the end of conceptual period (mRL)	
	Top	Bottom	Top	Bottom	Top	Bottom

20. Para (C) Details in respect of quality and quantity of water likely to be encounter, the pumping arrangement, and place final discharge to be discussed. Para (D) Information about catchment area and likely quantity of rain water to flow through the lease area and arrangement for arresting solid wash to be furnished.
21. It is observed that a substantial amount of rain water supposed to be passed from the lease area. Hence, mine drainage plan to be submitted showing flow direction of the water, location final discharge, arrangement of arresting of solid waste etc. Further, the details of water drawn from external source and arrangement of its recycling may be given for domestic and industrial purpose.
22. **Stacking of Mineral Reject/sub-grade and Disposal of Waste:** The details of all the existing dumps, Mineral reject dumps to be furnished in tabulated form.
23. The build-up of dumps from year to year to be mentioned in text w.r.t. bottom and top mRL of individual terrace, dump slope, individual terrace height and slope with description of method & manner of disposal of waste should be mentioned. The method of waste dumping should be in retreating manner. The year wise buildup of dump should be described in tabulated form. The similar information to be furnished form Mineral Reject dumps.
24. Existing as well as proposed protective measures like retaining wall, garland drain, check dams etc., should be furnished in tabular format with details of location, length, dimensions etc.
25. It is observed that fresh area has been proposed for mineral reject and waste dumping. Any dumping over non-explored area is not permissible. The information on proving the area for barrenness (devoid of ore through exploration) should be properly described. Accordingly, the priority of exploratory drilling to be proposed so that the area is proved to be barren before dumping. Necessary modification to be done in the text accordingly.
26. **Use of Mineral and Mineral reject: Para a:** Specification of end use industry to be given in tabulated form.
27. **Processing of ROM and Mineral Reject:** The material balance chart to be given with the quantity and quality of feed and recovery quantity and quality of the final product.
28. **Others:** Information in respect to the proposed manpower both on role and contractual has to be mentioned separately in the text. Further, indicate the number of labour/unskilled manpower requirement.
29. **Progressive Mine closure Plan:** The lease going to expire by 31/03/2020. Hence, the proposal of PMCP should in line with FMCP. Adequate proposal of Proposal of plantation over waste dumps, coir matting over mineral reject dumps, retaining wall, garland drain, settling tank and check dameds to be given considering drainage plan of the lease area.
30. **Plates:** All the plan & sections submitted along with the Modification of review of Mining plan should be certified by the Qualified Person indicating that, the plans and sections are prepared based on the basis lease map authenticated by the State Govt. of Odisha and found to be correct.

31. **Key Plan:** Most of the features given for index are not clearly legible, thereby the same should be marked clearly both in index as well as on the plan portion of the plate. The prominent wind direction to be shown with wind rose diagrammed.
32. **Surface Plan:** Diverted forest /non-diverted forest/surface right area etc. to be depicted. Few features shown on the plan has not been indexed. Surveyor's signature missing, which should be signed by a competent surveyor. The ground control points need to be linked with boundary pillars.
33. **Geological plan and Section:** Surface geological feature to be highlighted in Geo plan like lithology, structural detail, litho contact, proposed exploration etc. Geo structural information has not been furnished adequately. The BH's not falling on the section to be reflected on the nearby section. Instead of mentioning waste in geological section different colour code to be given for different litho unit. Different UNFC category to be mentioned in the section.
34. **Development, dump plan & Sections:** (i) In development plan information to be furnished related to proposed development only. Index for different proposal has not been given in the section. Being a category Mine Year wise development plan and section to be submitted. Proposed and existing bench mRL to be mentioned in plan and section. Haul road as proposed to be depicted for present and future use.
35. **Plate-VI (Environment Plan):** All the existing features available within 500m radius of the lease area has not been marked, which should be depicted and the plate may be revised accordingly.
36. **Plate-VII (Reclamation Plan):** Many of the proposed features given in the index is not matching with the plan portion of the plate, thereby the plate should be revised in such a way that, the features given in the index will match with the plan portion of the plate. Accordingly, the plates submitted for progressive mine closure plan may also be revised.
37. **Annexures:** Page 2: As mentioned on page documentary evidence in respect of diversion proposal of entire forest land to be enclosed.
38. **Page 4:** It is mentioned that mine is re-open on 25/06/2018, the documentary evidence of statutory authority about revocation of mining operation to be enclosed and reference of same to be given in text.
39. **Page 33:** The average grade of the deposit mentioned is 62 % Fe. The detailed backup calculation for arriving at average grade to be enclosed.
40. Many of the annexures are not legible. A legible copy of same to be enclosed.
41. The number of annexure mentioned in text and index does not match with other. All the annexure to be properly numbered/paged and relevant annexure to be signed by Geologist/surveyor/RQP etc. It is observed that many of the annexures are not legible. A legible copy of same to be enclosed.
42. The copy of form A and A' to be enclosed in support of stacks available in lease area.
43. The latest (at least for last one year and quarter wise) copies of base line data of mine to be enclosed.
44. The consent order from State Pollution Control Board, Odisha to be enclosed and information of same to be reflect in text part of the document.
45. Few photographs in support of the quarry /dump /stack /reclamation & rehabilitation /afforestation etc. to be enclosed along with the document, which should be submitted for
46. The copy of the ID & address proof of the applicant enclosed as annexure-8 is not legible; thereby, fresh legible copies for the same should be submitted.

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