



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 FMCP/FM/33-ORI/BHU/2018-19

दिनांक / Date: 05.09.2018

To

Shri S. N. Kambalii, Authorised Signatory,
M/s Mideast Integrated Steels Limited,
Mesco Tower: 3915, Lewis Road, Kedar
Gauri Square, Bhubhaneswar-751014,
Odisha.

Sub: Approval of Final Mine Closure Plan of Roida-I Iron Ore Mines over an area of 104.68 ha in Keonjhar district of Odisha of M/s Mideast Integrated Steels Limited submitted under Rule-24 of Mineral Conservation and Development Rules, 2017.

Ref: - i) Your letter no. MISL/BBL/MIN/08/439 dated 09.08.2018 received on 21.08.2018.
ii) This office letter of even no. dated 21.08.2018.
iii) This office letter of even no. dated 21.08.2018 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 Final Mine Closure Plan (FMCP) has been examined in this office based on earlier site inspection carried out on 17.04.2018 by Shri Dilip Jain, Junior Mining Geologist and Shri Sanjay Kumar Mohapatra, Asst. Mining Engineer. The deficiencies observed are enclosed herewith as Annexure-I.

You are advised to carry out the necessary modifications in the draft Final Mine Closure 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)** 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 Final Mine Closure 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 modified copies of the Final Mine Closure Plan. It may be noted that no extension of time in this regard will be entertained and the Final Mine Closure 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 T. K. Behera, Qualified Person, Roida-I Iron Ore Mines, M/s Mideast Integrated Steels Limited, At-Bhadrasahi, Post-Barbil, Dist-Keonjhar, Odisha-758035.

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

SCRUTINY COMMENTS ON FMCP DOCUMENT IN RESPECT OF ROIDA-I IRON ORE MINES OF M/S MIDEAST INTEGRATED STEELS LIMITED OVER AN AREA OF 104.68 HA IN KEONJHAR DISTRICT OF ODISHA STATE.

1. On examination of cover page it is observed that Mining Lease number/TC Number/Lease number/Mine code and qualification details of the QP have not been mentioned.
2. Para 1.2.6: The fax number to be given. Para 1.2.13: The coordinates of all the boundary pillars to be given along with the coordinated in UTM as per DGPS survey map.
3. Para 1.3: The rule position to be mentioned under which the document was prepared.
4. Part D: Although the part is not applicable as the proposal of Mining plan is considering with FMP proposal. However, certain information under para 1.4.28, 1.4.29 to 1.4.32 to be furnished with document evidence.
5. **Geology and Exploration:** Para 2.2.2: The year wise details furnished are not matching with the approved document dated 14/06/2018. Check and rectify.
6. Para 2.3: The grade of reserve and resource has been mentioned as >55% Fe. It is to specify whether the resource has been estimated above the threshold value or not. If not, the resource to be estimated above threshold value.
7. Para 2.3: As per format balance reserve and resource to be indicated separately for forest and non-forest area.
8. The gist of proposed exploration as per approved document to be given in the following table.

Year	Number of BH proposed			Total
	Diverted forest area	Non-diverted forest area	Non-forest area	
2018-19				

9. Para 2.4: It is to propose that all the cores/samples etc will be stored properly for future use and will not be destroyed prior approval of the competent authority. Brief details regarding preservation of cores should be given. The cores should be stored serially with suitable indexing and cataloguing and shall insure the submission of cores to GSI. The proposal of storage location of core/samples to be given and mentioned in text along with showing on the plan. Few photograpgs of Core shed, core boxes, etc to be submitted.
10. Para 3.1: The proposed quantity of total waste to be mentioned. Accordingly, stripping ratio to be revised.
11. Para 4.1: All the details of existing and proposed top soil dump, waste dump, mineral reject dump, fines and tailing/slimes to be given as per table given in format for Final Mine closure plan.
12. **Final Mine Closure Plan:** Baseline information as given in the in the approved document to be furnished. Further, all the proposal of FMCP should be implemented by 31/03/2020. Accordingly proposal to be given. Most of the information in the chapter has been furnished in descriptive manner, same needs to be furnished in tabulated form.
13. Para 5.1.1: The proposed pit wise and year wise mRL of excavation to be furnished along with ultimate pit limit in tabulated form. Further, it is mentioned that an area of 6.68 Ha has been afforested. However, same has not depicted on the plan.
14. Page 18: It is mentioned that mineral stacks quantity of 2348750 tonnes are having in the lease area. The stack wise detailed quantity in tabulated form comprising location, grid, quantity, grade etc. to be enclosed and same to matches with the annual return.
15. Para 5.1.3: The grid reference for existing planation to be mentioned. Further, the grid reference of proposed afforestation to be mentioned as per year wise proposal.
16. Para 5.1.4: The proposal of retaining wall and garland drain to be given along the proposed top soil dump.
17. **Para 5.1.5 (Water Quality Management):** Describe in detail the existing surface and ground water bodies available in the lease areas in terms of IS: 10500 or IS: 2490 (as the case may be) and the measures to be taken for protection of the same, for protection of contamination of ground water from leaching etc.

18. Water balance chart and Report of hydrological study (if any) carried out in the area shall be submitted. If there is potential of Acid Mine Drainage the treatment method shall be given to neutralize the acidity of water.
19. Make of water in the lease area based on the average rainfall for last 5 years and catchment area and pumping and other arrangements for dewatering (along with annual cost) shall be informed.
20. The details in tabulated form comprising location (core and buffer zone), grid reference, parameters of monitoring, frequency of monitoring etc. to be submitted for proposed water monitoring stations.
21. The details of the protective measures carried out to arrest surface run-off to be given in the tabulated form.
22. **Para 5.1.6 (Air Quality Management):** Describe the existing air quality status. The mitigative measures to be taken for prevention of pollution of air from airborne dust particles shall be described.
23. The information of the air quality monitoring station to be furnished for both core and buffer zone. Further, the location, grid reference and frequency of monitoring to be indicated in table form for proposed for air quality management. Similar information in detail to be furnished for noise monitoring stations (as furnished for air).
24. **Para 5.1.7 (Waste Management):** Describe the type and quality of Waste/overburden dumps available and their disposal practice. The protective measures to be taken for prevention of siltation, erosion and dust generation from these waste materials should also be described. If toxic and hazardous elements are present in the waste material, the protective measures to be taken for prevention of their dispersal in the air environment, leaching in the surface and ground water etc., should be described.
25. The information in respect of the generation of Mineral Reject and its disposal to be indicated as per approved document. Adequate proposal of Garland drain, retaining wall and settling tank etc. to be given along proposed and existing waste dump and mineral reject dumps. The grid reference of all the proposed features to be given.
26. The details of plantation proposed over waste dumps to establish dead slope of the dumps to be give in tabulated form comprising dump number, gird reference, area proposed, number of sapling, year of proposal.
27. Para 5.1.10: The details of all surface features exist within 500 mts from lease area to be given in tabulated form.
28. **Para 5.1.11 (Infrastructure):** The existing infrastructural facilities available such as roads, aerial ropeways, conveyer belts etc. and their future utilization should be evaluated. If retained, the measures to be taken for their physical stability and maintenance should be described. If decommissioning proposed, dismantling and disposal of building structures, support facilities and other infrastructure, electrical equipments and infrastructures such as electric cables, transformers etc. should be described. The present and value at the end of 31.03.2020 to be evaluated for all infrastructures of the lease area and the information to be furnished in tabulated form.
29. Para 5.1.12: The details of existing and additional requirement of machineries to be furnished as per approve document. The information to be given separately for contractual and lessee's machinery.
30. Para 5.1.15: Proposal of afforestation work on matured slope of the dump area and safety zone, retaining wall, garland drain and settling tank proposal to be given in the first year of proposal i.e. from Oct 2018 onwards.
31. The cost of closure to be given in detail. It is mentioned that 10 security staff will be required till handover the mine, however, in para 5.1.17 same is mentioned as 18 security staff. Check and rectify.
32. Para 5.2: The year wise details in tabulated form proposed features like construction of retaining wall, garland drain, settling pond, fencing of the quarry to be furnished in tabulated form.

33. **Plates: General:** All updated plans and sections to be submitted. Accordingly all relevant tables in text and plan to be modified. The revised date of survey to be mentioned in all the plans and sections.
34. As per guideline, the length, width, height and other information of waste dump, mineral reject dump and quarry to be indicated in tabulated form on the relevant plan. Ultimate bench mRL to be mentioned in relevant plan and sections.
35. The direction of the sections to be depicted along which the sections have been created in all the sections.
36. **Key Plan:** Features like village boundary, forest boundary, sanctuary, waste land, agriculture land etc. within five kilometer boundary has not been shown on the plan.
37. **Reclamation plan:** The color code for existing and proposed feature should be clear and distinct. All the proposed features in tabulated form to be depicted on the plan. The flow direction of water to be shown in garland drain and nala. Further, proposal of plannation has been given in the year 2018-19, however, color code has been given for 2019-20.
38. **Enclosures:** All enclosures as submitted in Review of Mining Plan approved on dated 14/06/2018 to be enclosed. Few enclosures are not legible, legible copy of same to be enclosed. A legible copy of photo id proof lessee to be submitted.
39. Few photographs covering ML Boundary pillars, pits/quarries, mining activity, dumps, processing plant, core shed, coir matting on dumps, retaining wall and garland drain etc. to be enclosed with description and location. .
- In view of above comments and site inspection discussion, wherever necessary correction required to be made in plates, text etc.

Prakash
04/09/2018