



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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Plot No.149, Pokhariput
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No. FMCP/FM/02-ORI/BHU/2019-20

Date: 10.09.2019

To

Shri Prasanna Kumar Panda, Constituted Attorney,
M/s Essel Mining & Industries Ltd,
At/P.o – Barbil, Dist – Keonjhar,
Odisha – 758035

Sub: Approval of Final Mine Closure Plan of Koira Iron Ore Mine over an area of 90.143 ha in Sundargarh district of Odisha State, submitted by M/s Essel Mining & Industries Ltd under Rule 24 of MCDR, 2017.

Ref: - i) Your letter No. EMIL/GEOL/448/2019-20 dated 20.08.2019 received on 27.08.2019.
ii) This office letter of even no. dated 27.08.2019.
iii) This office letter of even no. dated 27.08.2019 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 of Final Mine Closure Plan (FMCP) has been examined in this office based on earlier site inspection carried out on 26.08.2019 by Shri Ramkishan R, Senior Assistant Controller of Mines & Shri S R Mazumdar, Senior Mining Geologist. 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 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 Final Mine Closure Plan within **15 (fifteen)** days from the date of issue of this letter 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 further necessary action to Shri Khageswar Mahanta & Shri V Srikanth, M/s Essel Mining & Industries Ltd, At/P.o – Barbil, Dist – Keonjhar, Odisha – 758035.

(HARKESH MEENA)

क्षेत्रीय खान नियंत्रक / Regional controller of Mines

23. If there is any proposal for evacuation of Mineral reject stacks/mineral reject dumps/temporary mineral reject stacks/temporary subgrade stacks/temporary ROM stack/any temporary stacks/fines stack/ lumps stack etc. a firm proposal to be given and same should be evacuated before 26.08.2021 else proposal for stabilization of the same should be given.

ANNEXURES

1. Few color photographs showing present the land use of the area, environmental status of the area/Ground control points / lease boundary pillars should be enclosed.
2. Copies of all Form J, Form K or Form I and Form J as per MCDR 2017 of all the boreholes should be enclosed with the document.
3. Section wise reserve/resource calculation should be enclosed with the document.
4. All the annexures as specified in the format should be enclosed along with the annexures provided.
5. Indexing (numbering, page numbering, index) of boreholes logs has not been submitted.
6. All the annexures should be signed with date by qualified persons.
7. FA copy should be submitted.
8. Copy of the geological study report (annexure-25) not required in FMCP and hence need not be submitted.
9. Test reports for chemical analysis of all borehole samples from NABL accredited laboratories have not been submitted. The same should be submitted.

PLATES

- i) Show a scale of the plan at least twenty-five centimeters long and suitably sub-divided;
- ii) The conventions provided under the Metalliferous Mines Regulations, 1961, shall be used in preparing all plans and sections
- iii) All plans and sections should comply with the provisions of Rule 32 of MCDR 2017.
- iv) The plans and sections submitted should bear the certificate that -the plans and sections are prepared based on the lease map authenticated by the state government.
- v) All plans and sections should be signed with date by Qualified Person.
- vi) Date of survey should be given on plan and sections and the same should be signed with date.
- vii) All the plans should be submitted in UTM coordinate system.

Key Plan

- i) The adjoining area lying preferably within five kilometers should be shown and marked in key plan.
- ii) Predominant wind direction may be shown with Wind rose diagram in key plan.
- iii) Approach road to lease area should be shown in key plan.
- iv) The provisions of Rule 32 (5a) of MCDR 2017 should be complied.

Surface Plan:

- i) The coordinates of the boundary pillar in UTM and lat/long should also be provided in tabulated format.
- ii) Top and bottom RL of Pits shown in Surface Plan should be mentioned.
- iii)

Geological Plan & Section:

- i) Updated Geological plan and sections to be submitted as per latest approved document.

- ii) In Geological Plan, cross section lines and longitudinal section line to be shown. A longitudinal section of the lease area should be shown. All the drilled boreholes drilled should be updated in Geological Plan.

Development plan & Section:

- i) development plan sections to be submitted in concurrence with latest approved document.

Environment plan:

- i) The Environment Plan as prepared should be satisfy the provision as laid down rule 32(5) (b) of MCDR2017.
- ii) The adjoining area within 60m of boundary of the lease area to be plotted. The particulars with regard to items (ii), (iv) and (v) of Rule 32(5) (b) shall be applicable only up to sixty meters beyond the boundary of lease area. The same should be demarcated in Environment plan. The adjoining area within 500 m of boundary of the lease area is not properly demarcated. The same should be corrected. The information on adjacent mine as available may be shown within the 500m of boundary of the lease area.
- iii) The contour values at 5m interval are not prominent. Necessary corrections to be made.
- iv) The proposed environment protective measures to be shown in environment plan. The drainage pattern of the lease area also to be shown on the plan.
- v) Predominant wind direction may be shown with Wind rose diagram in key plan.

Reclamation Plan:

- i) Adequate proposal of retaining wall, garland drain, coir matting and settling tank to be given all along the waste dumps and mineral reject dump. Proposal for proper terracing and stabilization of slope to be given. The dead dumps should be proposed for fully rehabilitation by plantation and with gap plantation. Plantation should be proposed along the slopes of waste dumps.
- ii) All the pits/quarry should be fenced. Proposals should be checked and modified accordingly.
- iii) Plantation all along the along the safety zone should be proposed.
- iv) The index of the existing retaining wall and garland drain around the dump does not match with the index of the retaining wall and garland drain shown around the dump. Hence proposal should be submitted for provision of construction of retaining wall and garland drain all around the existing and proposed waste dump and mineral reject dumps, if any. Environmental protective measure should be constructed around all the dumps.
- v) Proposed coir matting along the dumps has not been shown in index of proposed features. Same should be shown in the plan. All the dumps should be stabilized. Necessary corrections to be done.
- vi) Stabilization of waste dumps should be done through coir matting and plantation. Need to submit the revised proposal and same should be updated in relevant portions of text and plates.
- vii) The colour code of garland drain and retaining wall should be distinctly different.
- viii) The mRL of the year wise backfilling proposals should be marked on the section drawing of reclamation plan.


(S.R. Mazumdar)

Senior Mining Geologist


(Ramkishan R)

Senior Asst. Controller of Mines