



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. MFMCP/FM/04-ORI/BHU/2019-20

Date: 06.01.2020

To

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

Sub: Approval of modification of Final Mine Closure Plan of Kasia Iron & Dolomite Mine over an area of 194.196 ha (mining & allied activity restricts within 134.00 ha as per Hon'ble Supreme Court order dated 04.10.2019 passed in IA No.40121/2019 in W.P(C) No.114/2014) in Keonjhar 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/773/2019-20 dated 17.12.2019.  
ii) This office letter of even no. dated 18.12.2019.  
iii) This office letter of even no. dated 18.12.2019 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 modification of Final Mine Closure Plan (FMCP) has been examined in this office based on site inspection carried out on 31.12.2019 by Shri Dayanand Upadhyay, Senior Assistant Controller of Mine. 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 modification of 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 modification of 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 modification of Final Mine Closure Plan. It may be noted that no extension of time in this regard will be entertained and the modification of 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 V Srikanth & Shri Rajendra Sahoo,  
M/s Essel Mining & Industries Ltd, At/P.o – Barbil, Dist – Keonjhar, Odisha – 758035.

(HARKESH MEENA)

क्षेत्रीय खान नियंत्रक / Regional controller of Mines



**Scrutiny comments on examination of FMCP ( lease expiring on 31/03/2020 )of Kasia Iron & Dolomite Mine, 194.196 ha (mining and allied activity is proposed in 134 ha area ) of M/s Essel Mining & Industries Limited, Tehsil-Barbil, Dist-Keonjhar.**

**GENERAL:**

1. On cover page "Final mine closure Plan" has been furnished. Since the submission is Modification of Final Mine Closure Plan under rule 25(1) of MCDR 2017 the correction may be carried out accordingly on cover page and in text.
2. The expiry of lease period is to be furnished in light of provision of section 8A(6) of Amendment MMDR Act 2015. Period of proposal as furnished should be prospective.
3. As per order of Hon'ble Supreme Court mining and allied activity is restricted to 134 ha out of ML area 194.196 ha and accordingly demarcation of an area of 134 ha is carried out by revenue, forest & State mining department. Therefore in text elsewhere area is mentioned it should be clarified.
4. The reason of modification of FMCP described with proper justification with reference to earlier approved FMCP with letter no and date.
5. Any legal issues pending in connection with the lease or PIL/court cases etc should be mentioned under the statutory obligation. If any special conditions imposed or any directive issued or any statutory or prohibitory order passed by any authority or court of law, describing the nature of conditions, prohibitions and compliance position. The relevant document may be attached as annexure.
6. The experience certificate of qualified person should be as per provision of rule 15(1)(b) of MCR 1960.
7. Recent photographs of pits, dumps, afforestation and reclamation and rehabilitation carried out should be enclosed.
8. The annexures are to be enclosed as per guide lines of "IBM Manual for Appraisal of Final Mine Closure Plan". All the annexure to be properly indexed/ numbered/ paged and signed by qualified person. All the certificates should bear dated signature.

**Text :**

9. Para-1.1.5, minerals included in the lease deed is not furnished correctly. Para-1.2.3, date of execution of lease is not furnished. Para-1.2.4, the period of lease should mentioned in light of provision of section 8A(6) of Amendment MMDR Act 2015. Para-1.2.7, details of lease area should be in line of IBM Manual for Appraisal of Final Mine Closure Plan.
10. Para-1.4.1 to 1.4.27 should be furnished for approved FMCP only in case of modification of FMCP.
11. Para-2.1, briefly describe the topography and general geology indicating rock type available, structural feature, mode of occurrence etc.
12. Para-2.2.1 & 2.2.2, details of prospecting and exploration already carried out are not furnished year wise with area covered and scale of exploration correctly. Para-2.2.3, sample analyzed as furnished nil should be specified with reason. In bullet notes total sample analyzed from NABL accredited lab/Govt. lab with type of samples should be furnished.
13. Para-2.3, the date of estimated balance mineral reserve/resources and their bifurcation of forest and non-forest area should be furnished in line of latest approved document. Para-2.4, the future exploration program to fulfill the provision of rule 12(4A) of MCDR 2017 has not been described. The information furnished should be in line with the latest approved document.
14. The gist of proposed exploration may be given in the following table.

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

15. Para-2.4, Brief details regarding preservation of cores obtain while exploration within the lease area should be given. No cores should be destroyed without the permission of Chief Controller of mines. As

per rule 63(4) of MCDR 2017, the cores should be stored serially with suitable indexing and cataloguing and shall insure submission of cores as per the manual issued by GSI from time to time.

16. Para-3.1 to 3.3, the yearwise excavation of ROM, clean ore, mineral reject, fines and handling of OB should be furnished for the year 2018-19 and 2019-20 and it should be in line with the latest approved document. The reason of not fulfill the proposal for the year 2018-19 should be specified with bullet notes.
17. Para-4.1, the details of dumps/stacks available at the mine site as furnished in tabular form should be as per approved modification of review of mining plan.
18. Para-4.2, 4.3, 4.4, Generation of mineral reject and its utilization and storage not correctly furnished and it is not matched with the approved document.
19. Para-5.1.1, the proposal to be implemented for reclamation and rehabilitation of mined out land has not been described with plantation to be carried out over backfilled area and dumps. It should be insured that sequence of backfilling should be same as per original sequence of the litho units occurring in lease area.
20. The proposed backfilling, reclamation and re-habilitation to be carried out should be furnished as below:

Year	Pits/ Quarries	Area beginning of year(ha)	Additional degraded during year(ha)	Area to be reclaimed by backfilling(ha)	Area rehabilitated by plantation (ha)	Balance area at the end of year

Year	Nature of dump	Area at the beginning of the year (ha)	Additional area degraded during year (ha)	Area to be rehabilitated during the year(ha)	Balance area at the end of year (ha)

21. The proposals may be supported with yearly plans and sections depicting yearly progress in the activities for land restoration/reclamation/rehabilitation, afforestation etc called "Reclamation Plan".
22. Para-5.1.2, describe the proposals to be implemented for securing the excavation/pits/mineralized dump or mineral rejects stacks/fine stacks by means of fencing etc. Explain the safety measures implemented to prevent access to surface openings, excavations etc. The lessee should ensure fencing of any excavation endangering fall of persons/cattle etc in terms of rule 26 of MCDR2017. The proposal may be supported with yearly plans and sections depicting yearly progress in the activities for protective measures like fencing etc called "Reclamation Plan".
23. Para-5.1.3, the details of existing afforestation and plantation to be proposed over backfilled area and dumps have not been furnished.
24. Para 5.1.5, describe in detail the existing surface and ground water bodies available in the lease areas in and the measures to be taken for protection of the same. Water balance chart and Report of hydrological study (if any) carried out in the area shall be submitted.
25. Para 5.1.6, 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. The information of the air quality monitoring station to be furnished for both core and buffer zone.
26. Para 5.1.7, describe the Waste/overburden dump in the lease area. Mineral reject dumps available with type, quantity and quality of and their disposal at the end of year. The protective measures to be taken for prevention of siltation, erosion and dust generation from these waste materials should also be described.
27. 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.
28. Para-5.1.11, the details of existing infrastructure available in the lease area should be furnished in tabular form and their present value after depreciation. Further their future utilization should be



evaluated on case to case basis. The decommissioning cost and final value of the decommissioned infrastructural facilities if any may be furnished. Para-5.1.12, decommissioning of mining machineries and their possibility of post mining utilization if any may be described.

29. Para-5.1.14, the economic repercussions due to closure of mine has not been explained properly. Envisaged repercussions on the expectation of the society due to closure of mine. Number of local residents employed in the mine, compensation, satellite occupations should be describe considering the impact of closure of mines.
30. Para-5.1.15, time scheduling for closure of mines considering the activity like waste dump management ( Garland drain, retaining wall, settling tanks plantation), safety and security ( fencing of pits, dumps etc), Disposal of machineries, reclamation & re-habilitation, infrastructure, protective measures of environment should be furnished and to be shown on reclamation plan.
31. Para-5.1.17, the post closure cost of watch and care, security and supervision has been not furnished item wise.

**Plates:**

32. An updated surface plan with latitude, longitude of all corner pillars should be furnished. The proposals and features as furnished in plan & sections should in line with the approved document.
33. An updated Geological plan and sections considering should be furnished. The geo-structural information like strike, dip, dip-direction etc to be shown clearly.
34. The mineralised area should be shown distinctly on geological plan and sections. Different level of exploration like G1, G2, G3 etc in line with MEMC rule 2015 to be depicted on geological plan and UNFC codes should clearly furnished in sections.
35. Proposals of land restoration/reclamation/rehabilitation, afforestation, waste dump management, safety and security etc should be depicted in Reclamation Plan yearwise with different colour codes. The engineering drawing of proposed fencing wall with measurement and sketches of retaining & garland wall, settling pond should be furnished.
36. Environment Plan, natural drainage systems such as water course, streams, nalla, river, Forest with tree density, waste land, agricultural land, grazing land and surface features of 500 buffer zone should be shown.

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