



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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BHUBANESWAR-751020

No. MFMCP/FM/60-ORI/BHU/2018-19

Date: 09.04.2019

To

✓ Shri T V Narendran, Managing Director,  
M/s Tata Steel Ltd,  
At/P.o- Jamsedpur, Dist – East Singbhum,  
Jharkhand - 831001

Sub: Approval of modification of Final Mine Closure Plan of Sukinda Chromite Mine over an area of 406.00 ha in Jajpur district of Odisha State, submitted by M/s Tata Steel Ltd under Rule 24 of MCDR, 2017.

Ref: - i) Your letter No. SCM/MPP/05/19 dated 22.03.2019.  
ii) This office letter of even no. dated 27.03.2019.  
iii) This office letter of even no. dated 27.03.2019 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 07.04.2019 by Shri G C Sethi, Deputy Controller of Mine & 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 Sabyasachi Mishra, Head Mine Planning, M/s Tata Steel Ltd, At/P.o- Kalarangiatta, Dist- Jajpur, Odisha-755028.

(HARKESH MEENA)

क्षेत्रीय खान नियंत्रक / Regional controller of Mines



**SCRUTINY COMMENTS ON MODIFICATION OF FINAL MINE CLOSURE PLAN OF SUKINDA CHROMITE MINE OF M/S TATASTEEL LIMITED OVER AN AREA OF 406 HA IN JAJPUR DISTRICT OF ODISHA**

1. The period of proposal should be for 2019-20 only while referring the block year 2018-19 to 2019-20. The entire proposal furnished should be for the year 2019-20 only while the review for proposal for the year 2018-19 should be furnished. Necessary corrections to be done.
2. Reasons for modifications must be explained and revised proposal for the year 2019-20 should only be furnished.
3. The format (text/table) and the sequence of paragraph/numbering (e.g. in Chapter V) are not same as per the format specified in IBM Manual for Appraisal of FMCP.
4. In Para 1.3, Part -D, DETAILS OF LAST FMCP (in case of Modifications in approved FMCP) has not been submitted.
5. In Para 1.4, Part -E, In case of Modified FMCP, review should be given for approved FMCP only for the year 2018-19 and therefore all the proposals submitted under Part-E should be modified accordingly. The format in Para 1.4.28 should be modified as per format specified in IBM Manual for Appraisal of FMCP.
6. In Para 2.2.1, 2.2.2, 2.2.3, 2.2.4 the information furnished is not in the format specified in IBM Manual for Appraisal of FMCP. In Para 2.2.5, maximum depth explored has not been furnished. In Para 2.2.6, the technical factor and statutory factors causing blockage of resources should be described in detail.
7. In Para 2.3, Balance estimated mineral reserve/ resources in different categories of UNFC as on 01.04.2019 should be furnished.
8. In Para 2.4, the future programme / proposals for compliance of Rule 63 of MCDR, 2017 have not been described in detail.
9. In CHAPTER-III MINING the proposal should be in concurrence with the approved MMP and should be furnished for the year 2019-20 only. The compliance for 2018-19 against the proposal for same year should be furnished under review. The information should be restricted to information required as per format. In Para 3.1.(a), the figures of dump re-handling should be removed from "Total Overburden waste". In Para 3.1.(b), saleable ore from ROM should only be furnished.
10. In Para 4.1, the Details of Dumps/Stacks available at the mine site as on 01.04.2019 should be furnished in format specified in IBM Manual for Appraisal of FMCP. In Para 4.2, separate table should be furnished for Chromite and Pyroxenite production. In Para 4.3, in the generation of OB, the dump re-handling figures should be removed. In Para 4.4, in the table the remark mentioned should be rectified as the mineral reject and subgrade are same. Need to do necessary corrections.
11. In Para 5.1.1, in the table 5.1, the actual land use pattern as on 01.04.2019 has not been furnished.
12. In Para 5.1.2 and 5.1.3, the proposal and compliance for 2018-19 has not been furnished.
13. In Chapter V, in waste management, in table 5.14, the figures furnished are not in concurrence with the approved MMP.
14. The steps to be taken for protection and stability of tailing dam, confinement of tailing material and its utilization, arrangement for surplus water overflow along with design details, to arrest seepage, structural stability studies, ground water contaminant, if any, shall be given along with periodic de-silting proposals should be described in detail. Complete chemical analysis of tailing dam discharge water has not been furnished along with mitigation measures, if any, necessitates.
15. In Para 5.1.9, surface subsidence mitigation measures through backfilling of underground mine voids or by any other means and its monitoring mechanism should be explained.

16. In Para 5.1.15, it is not mentioned that activities such as evacuation of ore, mineral reject stacks, ore stacks etc. if proposed to be removed than it should be removed by 31.03.2020 else if retained beyond 31.03.2020 then proposal for their stability has to be furnished.
17. In Para 5.2, The information on protective measures for reclamation and rehabilitation works year wise has not been furnished in the format specified in IBM Manual for Appraisal of FMCP.

## **B. Annexures**

Copies of violation letters issued by Indian Bureau of Mines or statutory obligations issued by any other authority during last approved mining plan period should be enclosed.

## **C. Plans and Sections**

### **General Points**

- a) All plans and sections should be updated as on 01.04.2019 and relevant changes to be made in text, tables and plates. The proposal submitted should be for the year 2019-20 only.
- b) Progressive Mine Closure Plan and Present land use plan need not be submitted.

### **Key Plan**

- c) Predominant wind direction has not been shown by wind rose diagram.

### **Conceptual Plan and sections**

- d) Compliance of proposal for 2018-19 only should be shown along with proposal for 2019-20 in tabular format and in drawings.

### **Development Plan and sections**

- e) Development plan and sections for 2019-20 only should only be submitted.

### **Plan and section for proposed backfilling:**


- f) Plan and section for the period 2019-20 should only be submitted

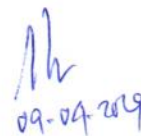
### **Environment Plan:**

- g) an environment plan of the area of mining lease inclusive of the adjoining area within five hundred meters of the boundary of a lease area has not been shown all along the lease boundary.
- h) the particulars with regard to items (ii), (iv) and (v) of rule 32 (5)(b) of MCDR, 2017 applicable only up to sixty meters beyond the boundary of lease area has not been shown all along the lease boundary.

### **Reclamation Plan:**

- i) Compliance of proposal for 2018-19 only should be shown along with proposal for 2019-20 in tabular format and in drawings.

  
(Sudip Ranjan Mazumdar)  
Senior mining Geologist

  
(G.C.Sethi)  
Deputy Controller of Mines