



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



BY E-MAIL ONLY

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BHUBANESWAR-751020

No. BBS/JJP/CR/2172/MMP/2022-23

Date: 05.07.2022

To,

M/s Tata Steel Mining Ltd.,
Plot No. N3/24,
IRC Village, Bhubaneswar-751015
E-mail : mdtsalloysltd@tatasteel.com

Sub: Approval of modification of Mining Plan of Sukinda Chromite Block along with Progressive Mine Closure Plan (PMCP), over an area of 406.0 ha in Jajpur district of Odisha State, submitted M/s Tata Steel Mining Ltd. Ltd. under Rule 17(3) of MCR, 2016.

Ref: -i) Your letter No. TSML/SCM/3495/FY23 dated 07.06.2022 as received on 10.06.2022.
ii) This office letter of even no. dated 10.06.2022.

Sir,

This has reference to the letter cited above on the subject. The draft modification of Mining Plan along with Progressive Mine Closure Plan (PMCP) for the mining lease under reference has been examined by Shri B. L. Gurjar, Regional Controller of Mines. The deficiencies observed are enclosed herewith.

You are advised to carry out the necessary modifications in the draft modification of Mining Plan in the light of the contents as per the scrutiny comments and submit:-

- (i) Three (3) firm bound copies of text in A4 size printable paper, Annexure and plate/plan in hard copy. The consents and certificates by the Lease holders/Qualified Person shall be attached in hard copy of document.
- (ii) Two (2) soft copies of the document in USB Pendrive. The soft copies (excel(.xls)) of the document shall be digitally signed by the Qualified Person and Nominated owner. The text of document should be in excel(.xls) and word format. The plates/plans are to be submitted in .kml/.kmz/.shp and .dwg format. All the annexures shall be submitted in soft copy.

The aforesaid final copies of document will be submitted within **15 (Fifteen) days from the date of issue of this letter**, for further necessary action.

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.

Enclosed : As Above

भवदीय.

(बाबुलाल गुर्जर)
क्षेत्रीय खान नियंत्रक

Copy for kind information to:-

- (i) The Controller of Mines (EZ), Indian Bureau of Mines, CP-13, Sector V, Salt Lake City, Kolkatta-700 091.
- (ii) Shri Rajeev Kumar Mohanty, Qualified Person (Mining Engineer), E-mail : r.mohanty@tatasteelmining.com



(बाबुलाल गुर्जर)
क्षेत्रीय खान नियंत्रक

Scrutiny comments of modification of Mining Plan along with Progressive Mine Closure Plan in respect of Sukinda Chromite Block, over an area of 406.00 Ha. in Sukinda Tahsil, Jajpur District of Odisha State of M/s. Tata Steel Mining limited.

PART-A

CHAPTER-1: GENERAL INFORMATION

1. The document should be prepared as per the mining plan template format provided in CCOM circular No.01/2021 dated 07.06.2021. **No alteration/deletion/change in format of the mining plan template is allowed.** Any additional information may be submitted as annexure only if required.
2. An introduction with a brief history of the mining lease area indicating all instances till date of submission of modification of mining plan to be given. Further the plan period and proposal period also needs to be furnished. A format of summary at glance needs to be furnished, the copy of the same is enclosed as annexure.
3. The final soft copy of the document should be digitally signed by QP.
4. In introduction, synopsis of the feasibility/prefeasibility study report specifically with reference to economic viability of the project is to be discussed in terms of profit or loss. Similarly production and dispatch as per MDPA is to be also discussed. Life of the mine also needs to be discussed.
5. The information furnished under para 1.1 i.e. Lease details (Name of associated mineral) needs to be reviewed and furnished as per the lease deed.
6. Under para 1.1 the details of lease area of (both RoR & DGPS) needs to be furnished, as both are not equal with each other. Further the same needs to be rectified in the entire text and plates of the submitted document wherever is applicable.
7. The information furnished under para 1.2; Land ownership details: The land schedule furnished are not matched as per the prescribed format of mining plan. The same to be rectified and complete information needs to be submitted as per lease deed.
8. The information furnished under para 1.3.4.2, i.e. SPCB approvals, the details of CTE & CTO seems ambiguity needs to be reviewed and rectified properly.
9. The information furnished under para 1.3.4.3, i.e. details of forest clearance is not correct. The same needs to be reviewed and rectified properly.
10. The information furnished under para 1.3.4.4, i.e. details of land acquisition details is not correct. The same needs to be reviewed and rectified properly.

CHAPTER-2: GEOLOGY AND EXPLORATION:

11. The detailed information under para 2.1.1 i.e. Topography is not correct, the same needs to be rectified as per the actual field ground position.
12. The detailed information under para 2.1.2 i.e. Physiography and infrastructure available in and around the lease area needs to be reviewed and reproduced properly as per the ground field condition.
13. The information furnished under para 2.2.1.13 i.e. Bulk density study is not appropriate; the same needs to be reviewed and furnished under respective para as per the prescribed format.
14. The detailed information under para 2.2.2.7.1 i.e. Exploratory drilling; copies of the log sheets of bore holes needs to be furnished in csv./xls format files.
15. The detailed information under para 2.2.2.9 & 2.2.2.10 are not furnished properly. The details of sample id of the borehole samples need to be reviewed and reproduced properly.
16. The information furnished under para 2.2.1.13 i.e. Method adopted for calculating bulk density needs to be furnished. Analysis report from NABL i.r.o. bulk density study needs to be furnished.

17. The information furnished under para 2.2.4. i.e. Resources/ Reserve estimation method; as resource have been estimated under different level of exploration(G1,G2 &G3) whereas, the zone of level of exploration have not been discussed. The same needs to be furnished properly based on the existing exploration data.
18. The detailed information under para 2.2.4.10 i.e. UNFC justification under classification, is not clear, the same needs to be reviewed and reproduced properly. Proper UNFC codes should be assigned for reserves/resources.
19. The details furnished under para 2.2.4.11, blocked resources calculation table needs to be reproduced in line to the comments furnished for modifying factors for conversion of mineral reserve.
20. The details furnished under para 2.2.4.12, reserve calculation table needs to be reproduced in line to the comments furnished for resource calculation table. The same needs to be rectified & reproduced properly.
21. As chromite ore occurs in bands are almost vertical in nature for this instance, a separate table contacting band wise resource and reserve with average grade needs to be furnished under para 2.2.4.13.
22. Proposal for a petrology & mineralogical study of the lease during the modification of mining plan period needs to be proposed under para 2.2.6.8.

CHAPTER-3: MINERAL PROCESSING

23. The information furnished under para 3.1 and 3.2 are needs to be furnished with relevant supporting documents.
24. The information furnished under para 3.9: Overall water requirement of mining and mineral processing: The water balance chart needs to be reproduced with proper denomination of reuses.

CHAPTER-4: MINING OPERATIONS

25. The information under para 4.2.1.2 dump details; location of the dump furnished with the document needs to be furnished in UTM co-ordinates, accordingly the same needs to be replaced in the entire document wherever applicable.
26. The proposed annual production of the modification document should be strictly as per Rule 12 A(2) of MCR Amendment 2021 and the conditions laid down in MDPA.
27. The information under para 4.2.2.2: Year wise opencast Development; calculation of ROM, saleable and mineral reject are not clear. The same needs to be reviewed and reproduced properly.
28. Under para 4.3.2, the details furnished for insitu mining table are not correct. The entire table needs to be reproduced properly. Accordingly table furnished under para 4.3.4 calculation summary needs to be rectified and reproduced. The quantity furnished under dump handling needs to be reviewed and rectified properly.
29. Under para 4.3.3; the details furnished for dump working is not correct. The same needs to be removed.
30. The details furnished under para 4.7.2. location (UTM co-ordinates) of new dump needs to be furnished.
31. The details furnished under para 4.7.3. & 4.7.4. details of existing & new stack needs to be furnished along with its location in UTM co-ordinates.

CHAPTER-5: SUSTAINABLE MINING:

32. Para-5.2: In year wise CSR initiatives, Year wise proposal to be given in all aspects for development of community around the lease area. The cumulative work done / measures taken furnished is to be checked as most of them are left blank in the format.

CHAPTER-6: PROGRESSIVE MINE CLOSURE PLAN

33. Para-6.2.11, Land use of lease area at the expiry of lease period (CONCEPTUAL STAGE) should be furnished in pursuant to the order dated 14.01.2020 passed by MOM, GOI,

AT A GLANCE INFORMATION		
1	Name of the Applicant /lessee	
2	IBM Registration no	
3	Address of Applicant	
4	Name of Mine	
5	Mine code	
6	Lease area in hecets.	
7	Forest area	
8	Name of Mineral	
9	Lease period from to	
10	Plan proposal period-	
11	Mineral Reserve (111& 112) in tonnes	
12	Mineral Resources (211, 221,222, 331, 332, 333&334) in tonnes	
13	Production proposal (1 st yr) in tonnes 2020-21	Not applicable
14	Production proposal (2 nd yr) in tonnes 2021-22	Not applicable
15	Production proposal (3 rd yr) in tonnes 2022-23	
16	Production proposal (4 th yr) in tonnes 2023-24	
17	Production proposal (5 th yr) in tonnes 2024-25	
18	OB/Waste handling proposal 1 st yr CUM	Not applicable
19	OB/Waste handling proposal 2nd yr CUM	Not applicable
20	OB/Waste handling proposal 3rd yr CUM	
21	OB/Waste handling proposal 4th yr CUM	
22	OB/Waste handling proposal 5th yr CUM	
23	Present EC permission in tonnes(Mineral or ROM)	
24	Plantation proposal in five years in numbers	
25	Plantation area proposal in five year(ha).	
26	Back filling proposal in hecets in five years	
27	Check Dams numbers in five year	
28	Garland drain in meters five years	
29	Settling ponds (Numbers)	
30	Area put to use at end of five year in ha	
31	Bank Guarantee Amount Rs	
32	Validity of BG upto	
33	Any other important information	
34	Percentage of revenue sharing bid in case of auction grant of block	
35	Amount of performance security and details if any	