



भारत सरकार  
खान मंत्रालय

भारतीय खान ब्यूरो, क्षेत्रीय खान नियंत्रक कार्यालय, रायपुर  
दूसरी मंजील, जीएसआई फील्ड प्रशिक्षण केन्द्र, महालेखाकार आफिस कोम्प्लेक्स,  
पोस्ट -विधान सभा, रायपुर(ग.छ) --492005, फोन- 2282530-0771 /2285590 95/  
ईमेल - [ro.raipur@ibm.gov.in](mailto:ro.raipur@ibm.gov.in) / [ro.raipur.ibm@gmail.com](mailto:ro.raipur.ibm@gmail.com)



फाईल क्र.- नारायणपुर/लौह/खयो/1179/2018/रायपुर

दिनांक -12/11/2018

प्रेषित: श्री ए के मिश्रा (महाप्रबंधक खान)

रावघाट लौह अयस्क खान

कमरा न 589- बी, 5 वी मंजील,

भिलाई स्टील प्लांट, भिलाई-490001 छ.ग

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1 खान नियंत्रक, (मध्य), भारतीय खान ब्यूरो , इंदिरा भवन, सिविल लाईन, नागपुर - 440001

2. श्री हेमंत दोशी , कमरा न 500- बी, 5 वी मंजील, भिलाई स्टील प्लांट, भिलाई-490001 छ.ग

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Annexure-

फाईल क्र.- नारायणपुर/लौह/खयो/1179/2018/रायपुर

Inspection Report cum Scrutiny comments on the Review of Mining Plan for Rowghat Iron Mine over an extent of 2028.797 Hectors in Antagarh Tahsil, Narayanpur & Kanker District of M/S Steel Authority of India Ltd. Site was inspected by shri R.K.Das Sr ACOM and Shri R.N Mishra SMG on 1/11/2018.

1. On cover page rule for Progressive mine closure plan rule 23 B (1) of MCDR 1988 Amended 2003 should be replaced by MCDR 2017 and Name of the Mine: Is it “Rawghat Deposit -F” or Rawghat Iron ore Mine needs to be clarified.
2. At a glance information before introduction at start of document in following format may be given

| MINING PLAN/REVIEW OF MINING PLAN AT GLANCE |   |
|---|---|
| 1   | Name of the Applicant /lessee                                 |
| 2   | IBM Registration no   |
| 3   | Address of Applicant  |
| 4   | Name of Mine  |
| 5   | Minecode  |
| 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 ( 2019-20) in tonnes                      |
| 14  | Production proposal (2020-21) in tonnes                       |
| 15  | Production proposal (2021-22) in tonnes                       |
| 16  | Production proposal (2022-23 in tonnes                        |
| 17  | Production proposal ( 2023-24 in tonnes                       |
| 18  | OB/Waste handling proposal ( 2019-20) CUM                     |
| 19  | OB/Waste handling proposal ( 2020-21) CUM                     |
| 20  | OB/Waste handling proposal ( 2021-22) CUM                     |
| 21  | OB/Waste handling proposal ( 2022-23) CUM                     |
| 22  | OB/Waste handling proposal ( 2023-24) CUM                     |
| 23  | Present EC permission in tonnes                               |
| 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 prohibitory orders / other important information          |

3. Para 2.1: Nominated owner email needs to be furnished
4. Para 2.2 , information given is not correct.

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5. Para 3.3 information given is not correct
6. Para 3.4 – whether supplementary lease deed for extended lease period 50 years is executed or not , may be clarified and supporting document may be enclosed.
7. Para 3.6, Fax , email details are not furnished.
8. Geology and Exploration - Reserve should have been as on specific date 1/4/2018. Cut of grade, quantity of sub grade, and mineral reject should have been specifically mentioned along with associated overburden to arrive over all stripping ratio.
9. Resources have not been assessed considering threshold value of Iron ore mineral and expected lump and fine ratio needs to be given.
10. Page No 20: Details of exploration carried out (Table-6.2): In BLOCK -A, drilled by BSP & MECL (1989-91) average thickness of the Ore body in Meter not given.
11. Page No 20: Earlier Form- K (As per MCDR 1988) or (Form -J as per MCDR 2017)of all bore holes details needs to be attached as an annexure.
12. Page No. 32: Petrographic and Mineralogical study needs to be done. Ore types needs to be defined as per studies. for example Powdery Ore, Massive ore, Lat. Ore and Laminated ore not properly discussed in Local geology chapter.
13. The tonnage factor considered for computation of ore type wise resources is given in the table: Supporting documents like analysis report for the consideration of tonnage factor of ore type needs to be furnished.
14. Page No-58: Exploration programme for future needs to be given as per MEMC Rule 2015.
15. The Lump and fines ratio should be furnished for the Resources/Reserves established as per Mineral contents and evidence rules, 2015 for the lease area.
16. Page No-343 to 401: Recovery percentage needs to be checked. Its given more than 100% core recovery in Bore hole no – BHRGT-3 for example 950%,150%,125%,110% and 105% etc. Also 100% recovery in Sludge and powdery oret needs to rechecked.
17. Following information may also be given in tabulated form

| Parameters considered for Resource estimation:- |                               |
|---|-------------------------------|
| a)  | Strike length-                |
| b)  | Width / thickness of ore body |
| c)  | Depth/mRL                     |
| d)  | Cut-off grade                 |
| e)  | Bulk density                  |
| f)  | Thresh hold Value             |
| g)  | Others if any                 |

18. Geological Axis :-

| Geological Axis :- |   |
|--------------------|---|
| a)                 | Depth (mRL/ Level)and area considered for G1 - Detailed exploration |
| b)                 | Depth (mRL/ Level)and area considered for G2 - General              |

|    |  |  |
|----|--|--|
|    | Exploration  |  |
| c) | Depth (mRL/ Level)and area considered for G3 – Prospecting   |  |
| d) | Depth (mRL/ Level)and area considered for G4- Reconnaissance |  |

19. At a glance year wise production of saleable mineral may be given as under -

| AT A GLANCE YEAR WISE PRODUCTION SALEABLE - |                                     |                    |                 |        |
|---|-------------------------------------|--------------------|-----------------|--------|
| year  | Saleable Iron ore mineral In Tonnes | Total waste in CUM | Ore to OB Ratio | Remark |
| 2019-20                                     |                                     |                    |                 |        |
| 2020-21                                     |                                     |                    |                 |        |
| 2021-22                                     |                                     |                    |                 |        |
| 2022-23                                     |                                     |                    |                 |        |
| 2023-24                                     |                                     |                    |                 |        |

20. The adequacy and Requirement of mining machinery Drilling, Excavator, Dumpers etc have not been calculated based on production and Total material to be handle in mine.

21. Conceptual plan- Details with respect to conceptual period not given.

22. The flowchart of crushing and screening plant with other beneficiation process to be furnished with capacity and input/out put size.

23. Employment Potential: In the given Para proposal should be given for Mining Engineer and Geologist as per Rule 55 of MCDR 2017 .

24. Progressive Mine Closure Plan: Afforestation should be given Yearwise with no. of saplings, location and area required. The calculation for financial assurance should be as per format given in manual and there is no provision of green belt. The correction to be done accordingly.

25. Disaster Management plan: Name and phone details of key persons with infrastructure (hospital, fire station, police station, etc.) should be furnished.

26. Plates: Plat no.6.2 (Regional Geological plan):

a) Co-ordinates & Lease area are not shown in the plan.

b) The monitoring station (air, water, noise) in core and buffer zone should be demarcated in the plan.

27. Plat no.6.2a (Geological Plan & section), Plat no.6.3 (Geological Map of Block -A),Plate no.6.4 (Geological Map of Tarhur),Plat no.6.5 (Geological Map of Anjrel), Plat no.6.6 (Geological Map of Koragaon),Plat no.6.7 (Geological Map of Kharkagaon),Plat no.6.8 (Geological Map of Takrel),Plat no.6.9 (Geological Map of Raodongri):

a) In geological plan the lithology should be shown and same should be indexed properly. Red and yellow colour etc patches not indexed.

b) The dip/strike direction also not shown and neither index.

c) GSI, BSP and MECL drilled bore holes to be marked and labelled properly. Positive and negative bore hole needs to be shown in different colour.

- d) Proposed exploration programme is not shown on geological plan on financial year-wise basis.
  - e) Non-Mineralised area needs to be marked.
  - f) G1, G2 & G3 areas not shown in the Plan.
  - g) Geological plan should be signed by a geologist.
28. Plate no.6.14 (Geological Cross section along D-D, Block -A): Two different shades of red colour and pink colour needs to be indexed.
29. Plat no.6.35 to 6.52 (Slice Plan): Positive and negative bore holes needs to be shown in different colour.
30. Excavation Plan: In the excavation plan proposal should be given yerawise and the same should be reflected in key plan that inwhich area excavation is proposed. In the plate index all five years proposal is shown which is not required. The correction to be done.
31. In the first year production is proposed from Anjrel Block and it was reported that there is no access to this block till date. Therefore proposal of production and development to reach that block to be discussed.
32. The proposal of haul road/Ramp from face to stockyard, Dump yard also to be shown in the plan. The proposal of dump/stockyard to be mark in key plan.
33. All the plates should be indexed properly as the features shown in the plan with the same colour code for clarity and signed with date.
34. Financial assurance plan:- Area considered for calculation of financial assurance in respect of excavation and overburden dump and other items have not been shown with different colours as per area put to use for calculation in financial assurance table. All other feature needs to be removed from plates.

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