



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 FMCP/FM/46-ORI/BHU/2018-19

दिनांक / Date: 15.10.2018

To

Shri Prashant Ahluwalia,
M/s Kaypee Enterprises,
P.B. No. 3, In front of MMTC
Weigh Bridge, At/Post-Barbil,
Pin-758035, Keonjhar, Odisha.

Sub: Approval of Final Mine Closure Plan of Thakurani Iron Ore Mines over an area of 228.04 ha in Keonjhar district of Odisha of M/s Kaypee Enterprises submitted under Rule-24 of Mineral Conservation and Development Rules, 2017.

Ref: - i) Your letter no. KP/TK/IBM dated 03.10.2018 received on 08.10.2018.
ii) This office letter of even no. dated 08.10.2018.
iii) This office letter of even no. dated 08.10.2018 addressed to the Director of Mines, Govt. of Odisha, copy endorsed to you.

Sir,

This has reference to the letters cited above on the subject. The draft Final Mine Closure Plan has been examined in this office based on earlier site inspection carried out on 21.08.2018 by Shri Dilip Jain, Junior 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 should be submitted in Auto CAD compatible format and JPG format in resolution of 100x100 pixels on same CD)** with financial assurance under Rule 27 of MCDR 2017 within 15 (fifteen) days 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 necessary action to:

1. Shri Pradeept Mohapatra, Qualified Person, Post Box No-1, At-Unchabali, Post-Bamebari, Joda. Dist- Keonjhar. Odisha. Pin-758034.

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(HARKESH MEENA)
क्षेत्रीय खान नियंत्रक / Regional Controller of Mines

SCRUTINY COMMENTS ON FMCP DOCUMENT IN RESPECT OF THAKURANI IRON ORE MINES OF M/S KAYPEE ENTERPRISES OVER AN AREA OF 228.04 HA IN KEONJHAR DISTRICT OF ODISHA STATE.

1. On examination of cover page it is observed that qualification details of the QP have not been mentioned.
2. Para 1.2.2: Mine code, lease code etc. to be mentioned. Para 1.2.7: The details of land use to be given as per table given in the "IBM Manual for Appraisal of Final Mine Closure Plan" (hereinafter referred as format).
3. Para 1.3: The rule position to be mentioned under which the document was prepared to be checked and corrected.
4. Part D of the format is not applicable as the proposals incorporated in MRMP approved on dated 04/06/2018 are coinciding with FMP proposal. However, certain information under para from 1.4.28 to 1.4.32 to be furnished with documentary evidence. The details of area in para 1.4.28 to be as per latest approved document.
5. **Geology and Exploration:** Para 2.2.3: The details of the sample analyzed from NABL laboratory to be mentioned. Para 2.2.5: The area mentioned for different category of exploration is not matching with the approved document. Instead of mentioning total depth, the RL of the depth explored or max depth of exploration to be mentioned in the table. Check and rectify.
6. Para 2.3: As per format balance reserve and resource to be indicated separately for forest and non-forest area.
7. Para 2.4: The gist of proposed exploration as per approved document to be given in the following table.

Year	Number of BH proposed			Total
	Diverted forest area	Non-diverted forest area	Non-forest area	
2018-19				

8. Para 2.4: It is to propose that all the cores/samples etc will be stored properly for future use and will not be destroyed prior approval of the competent authority. Brief details regarding preservation of cores should be given. The cores should be stored serially with suitable indexing and cataloguing and shall insure the submission of cores to GSI. The proposal of storage location of core/samples to be given and mentioned in text along with showing on the plan. Few photographs of Core shed, core boxes, etc to be enclosed.
9. Para 4.1, Locations (grid reference) of top soil, OB/waste, Mineral Rejects, fines, tailings/slimes have not been furnished as per the format. The quantity of ORE and OB furnished as on 01/04/2018 is not matching with the AR of 2017-18. Dump 4 is mentioned in table, however, same is not shown on the surface plan. Updated information as on 01/10/2018 to be furnished.
10. Para 4.2 to 4.4: The quantity of OB, MR, Fines etc. to be furnished as specified in format i.e. CuM/Tonnes. Check and rectify.
11. **Final Mine Closure Plan:** Baseline information as per approved document to be furnished. Further, all the proposal of FMCP should be implemented by 31/03/2020. Accordingly, proposal if any beyond 31/03/2020 to be revised.
12. Para 5.1.1: The proposal of plantation over worked out benches to be given in the first year and second year to be kept for maintenance.
13. Para 5.1.3: The proposal of plantation to be given over the dead slope of the dump-3 for the year 2019-20.
14. **Para 5.1.5 (Water Quality Management):** Describe in detail the existing surface and ground water bodies available in the lease areas in terms of IS: 10500 or IS: 2490 (as the case may be) and the measures to be taken for protection of the same, for protection of contamination of ground water from leaching etc.
15. Make of water in the lease area based on the average rainfall for last 5 years and catchment area and pumping and other arrangements for dewatering (along with annual cost) shall be informed.

16. The details in tabulated form comprising location (core and buffer zone), grid reference, parameters of monitoring, frequency of monitoring etc. to be submitted for proposed water monitoring stations.
17. **Para 5.1.6 (Air Quality Management):** 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.
18. The information of the air quality monitoring station to be furnished for both core and buffer zone. Further, the location, grid reference and frequency of monitoring to be indicated in table form for proposed for air quality management. Similar information in detail to be furnished for noise monitoring stations (as furnished for air).
19. **Para 5.1.7 (Waste Management):** Describe the type and quality of Waste/overburden dumps available and their disposal practice. The protective measures to be taken for prevention of siltation, erosion and dust generation from these waste materials should also be described. If toxic and hazardous elements are present in the waste material, the protective measures to be taken for prevention of their dispersal in the air environment, leaching in the surface and ground water etc., should be described.
20. The information in respect of the generation of Mineral Reject and its disposal to be indicated as per approved document. Adequate proposal of Garland drain, retaining wall and settling tank etc. to be given along proposed and existing waste dump and mineral reject dumps. The grid reference of all the proposed features to be given.
21. The details of plantation proposed over waste dumps to establish dead slope of the dumps to be give in tabulated form comprising dump number, grid reference, area proposed, number of sapling, year of proposal.
22. Specific proposal have to be submitted for evacuation of mineral reject stacks, mineral reject dumps, fines stacks, sized ore stacks before 31.03.2020 and if retained then proposal for securing and stabilizing the stacks/dumps along with protective measures have to be furnished.
23. Para 5.1.10: The details of all surface features exist within 500 mts from lease area to be given in tabulated form.
24. **Para 5.1.11 (Infrastructure):** The existing infrastructural facilities available such as roads, aerial ropeways, conveyer belts etc. and their future utilization should be evaluated. If retained, the measures to be taken for their physical stability and maintenance should be described. If decommissioning proposed, dismantling and disposal of building structures, support facilities and other infrastructure, electrical equipments and infrastructures such as electric cables, transformers etc. should be described.
25. Any infrastructural facility which is an essential commodity/related to basic need or which absence may cause any degradation of environment or any damage to flora and fauna in and around the ML area or any danger to public safety or public infrastructure like rail, road etc. shall not be decommissioned (dismantling water supply, water treatment plant, power lines etc.) without prior intimation/approval of appropriate authority. Accordingly, proposal to be given.
26. Para 5.1.12: The details of existing and additional requirement of machineries to be furnished as per approve document. The information to be given separately for contractual and lessee's machinery. The cost of decommissioning to be furnished. All proposal of decommissioning to be given by 31/03/2020.
27. Para 5.1.15: Proposal of afforestation work on matured slope of the dump area and safety zone, retaining wall, garland drain and settling tank proposal to be given in the first year of proposal i.e. from Oct 2018 onwards.
28. Para 5.1.13: The name, address, phone, fax, address etc to be given for the person responsible during any natural disaster.
29. Para 5.1.15: The detailing has not been carried out for the proposed FMCP work. The information of all proposed work to be reflected in bar chart.
30. Para 2.1.17: Cost for post mining activities to be evaluated. Page 67: At place details submitted in table are not matching with the proposal made in FMCP chapter. Check and rectify.

31. **Plates: General:** As per guideline, the length, width, height and other information of waste dump, mineral reject dump and quarry to be indicated in tabulated form on the relevant plan. Ultimate bench mRL to be mentioned in relevant plan and sections.
32. The direction of the sections to be depicted along which the sections have been created in all the sections.
33. **Key Plan:** Features like village boundary, forest boundary, sanctuary, waste land, agriculture land etc. within five kilometer boundary has not been shown on the plan.
34. **Reclamation plan:** The color code for existing and proposed feature should be clear and distinct. All the proposed features in tabulated form to be depicted on the plan. The flow direction of water to be shown in garland drain and nala. Year wise distinct color to be given for proposed feature.
35. **Enclosures:** All enclosures to be numbered and serialized. Relevant enclosure to be signed by the Geologist, QP etc. Most of the enclosures submitted along with the text are not legible. A legible copy of same to be enclosed without fail. A legible copy of photo id proof and signature proof of lessee to be submitted without fail.
36. Few photographs covering ML Boundary pillars, pits/quarries, mining activity, dumps, processing plant, core shed, coir matting on dumps, retaining wall and garland drain etc. to be enclosed with description and location. .
- In view of above comments and site inspection discussion, wherever necessary correction required to be made in plates, text etc.

Dm/ls
15/11/2018.