



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 MSM/FM/16-ORI/BHU/2018-19

दिनांक / Date: 15.06.2018

To

Shri Sidharath Mohanty, Director,
M/s B. C. Mohanty & Sons Pvt. Limited,
Raja Bagicha, Opposite SBI,
Jhanjirimangala, Cuttack,
Odisha-753009.

Sub: Approval of Modification of Review of Mining Plan of Kamarda Chromite Mines over an area of 107.24 ha in Jajpur district of Odisha of M/s B. C. Mohanty & Sons Pvt. Limited submitted under Rule-17 (3) of MCR, 2016 and Rule 12 (4A) of Mineral Conservation and Development (Amendment) Rules, 2018.

Ref: - i) Your letter no. 114/2018-19 dated 07.06.2018 received on 11.06.2018.

ii) This office letter of even no. dated 11.06.2018.

iii) This office letter of even no. dated 11.06.2018 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 Modification of Review of Mining Plan along with Progressive Mine Closure Plan has been examined in this office based on site inspection carried out on 12.04.2018 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 Modification of Review of Mining 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 Modification of Review of Mining 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 Review of Mining Plan. It may be noted that no extension of time in this regard will be entertained and the Modification of Review 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.

भवदीय / yours faithfully,

(HARKESH MEENA)

क्षेत्रीय खान नियंत्रक / Regional Controller of Mines

Copy for kind information and necessary action to:

1. Shri P. S. Acharya & Shri S. M. Patro, Qualified Person, GEMTECH Consultants Private Limited, K-8/625, Kalinga Nagar, Post-Ghatikia, Bhubaneswar, Odisha-751029.

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

Scrutiny comment on Review of Mining Plan including PMCP in respect of Kamarda Chromite Mine of M/s B.C. Mohanty in Jajpur district of Odisha State.

Date of Inspection: 12/04/2018

1. **General:** Summary of the proposals given before introduction page is descriptive in nature, same to be furnished in tabulated form.
2. Para 3.4: On verification with office record, it is observed that the details furnished in the para are incomplete. Hence, the details of all violation and its compliance to be furnished.
3. Para 3.6: Reason for modification to be furnished separately for rule 17(3) and 12(4A) of MCDR, 2017.
4. **Geology and Exploration:** To comply with the provisions of the rule 12(4A) of MCDR, 2017, the depth of exploration to be proposed for open cast mining shall be up to 300 meters or up to discontinuance of ore body, whichever is earlier. Accordingly, proposal of exploration to be revised to explore mineralized area under G2 level of exploration in depth. Adequate proposal of exploration to be given as per mentioned rule.
5. The ore body is dipping sub-vertically; hence, the proposed exploratory BH should be inclined. All the proposed BH to be shown on the Geological plan, Geological section and longitudinal section. Instead of preparing longitudinal section quarry wise, it should be prepared band wise and intersection mRL of all the BH to be shown.
6. Page 25: The abstract of Ore zone encountered to be given for all completed bore holes irrespective of year of exploration. Page 29: As per table a total of 63 BH have been proposed, however, in write-up same is mentioned as 68 BH. Check and rectify.
7. Page 34: Updated calculation of resource estimation to be furnished i.e. on 01/04/2018. Accordingly reserve and resource figures to be modified wherever necessary.
8. **MINING:** The grid reference of proposed dump re-handling to be mentioned in table presented on page 45 and other places of the document.
9. The layout of the haul road for present and future excavation proposal should be properly addressed in line with safe movement of fleet of the machinery and same needs to be depicted on development plan. The main haul road to be depicted on the development plan.
10. Page 54: Coordinates of quarry development also to be mentioned in UTM grid.
11. **Mine Drainage:** Minimum and maximum depth of water table in the form of mRL to be mentioned. Entire surface run off of rain water to be treated through ETP. Accordingly proposal of garland drain to be given to divert rain water to ETP. Proposal settling tank and Check dam to be given.
12. Stacking of Mineral Reject/Sub-grade and Disposal of Waste: Proposal of maintenance of all existing retaining wall and garland drain to be given.
13. **Progressive Mine Closure Plan:** The lease is expiring in 31st March 2020, there for PMCP submitted in instant document should in line with the FMCP. Baseline information of the lease area should be described on the basis of information incorporated in first approved mining plan at the time of grant of ML. The environment monitoring data of last one year to be enclosed for ready reference. Further, base line information to be furnished for surrounding 500 meter form lease boundary.
14. The proposal of fencing should be given for entire Excavations/ pits endangering fall of persons/cattle etc. Proposal of geo-textile/coir matting with plantation to be given for matured slop of the proposed dump like northern portion of waste dump-D and A&B. Garland drain and retaining wall to be proposed along the proposed/existing sub-grade stack. Entire surface run off of rain water to be treated through ETP. Accordingly proposal of garland drain to be given to

divert rain water to ETP. Proposal settling tank and Check dam to be given. Proposal of all protectative measured to be given in the first year.

15. Time scheduling for proposed activity like waste dump management (Garland drain, retaining wall, settling tanks, plantation), safety and security (fencing of pits, dumps etc), disposal of machineries, reclamation & rehabilitation, infrastructure, protective measures of environment should be supplemented by PERT (programme evaluation review technique) or Bar chart and these activities should be clearly shown on reclamation plan.
16. **Plates: Key Plan**-Many of the feature as prescribed under rule 32(5) of MCDR, 2017 has not been shown on the plan like village boundary with population, forest with tree density, sanctuary, waste land, agriculture land etc.
17. **Development Plan and Section**: Proposed area of re-handing of dumps to be marked.
18. **Waste dump plan and section**: The location of the proposed development could not be assessed from the plan, hence, entire lease area to be shown in index, showing enlarged area of proposed ground of dumping.
19. **Mine drainage plan**: The direction of water flow to be shown for entire lease area and final discharge point. Considering, surface runoff of rain water adequate proposal of garland drain to be given.
20. **Enclosures**: The referent of annexures mentioned in text is not matching with annexure number in the annexure volume of the document.
21. All pages of resolution of board of directors has not been submitted. All annexures as mentioned on page 10 have not been submitted.

In view of above, wherever necessary correction required to be made.

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