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No. MPM/FM/14-ORI/BHU/2016-17

Plot No. 149, Pokhariput

Bhubaneswar – 751 020

Date: 14.10.2016

To

Shri Prashant Kumar Ahluwalia,
M/s Kaypee Enterprises,
P.B NO. 3, In front of MMTC weight Bridge,
At/P.O- Barbil, Dist-keonjhar
Odisha – 758035

Sub: Approval of Modification of approved Mining Plan along with Progressive Mine Closure Plan under Rule 17 of MCR, 2016 of Thakurani Iron Ore Mine of M/s Kaypee Enterprises over an area of 228.04 ha in Keonjhar district of Odisha.

Ref: - i) Your letter No. KP/TK/IBM/938 dated 19.09.2016.
ii) This office letter of even no. dated 27.09.2016

Sir,

This has reference to the letter cited above on the subject. The draft of Modification of approved Mining Plan along with Progressive Mine Closure Plan (PMCP) has been examined in this office based on site inspection carried out on 03.10.2016 by Shri Dayananda Upadhya, Assistant Controller of Mines. The deficiencies observed are enclosed herewith as Annexure I.

You are advised to carry out the necessary modifications in the draft Modification of approved Mining Plan along with Progressive 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 23 F of MCDR 1988 of the Modification of approved Mining Plan 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 approved 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 approved Mining Plan along with Progressive Mine Closure Plan. It may be noted that no extension of time in this regard will be entertained and the Modification of approved Mining Plan along with

Progressive 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.

yours faithfully,

(HARKESH MEENA)

Regional controller of Mines

Copy for kind information and further necessary action to Shri Pradeept Mohapatra, Qualified Person, Post Box No. 1, P.o- Joda, At – Unchabali, Bamebari, Dist – Keonjhar, Odisha – 758034.

(HARKESH MEENA)

Regional controller of Mines

Scrutiny comments on the modification in the Mining Plan of Thakurani Iron ore mine over an area of 228.04Ha of M/s Kaypee Enterprises situated in Dist. Keonjhar, Odisha State submitted under rule 17(1) of MCR 2016.

“General”:

1. Modification of the approved Mining Plan submitted under rule 17(1) which may be replaced with rule 17(3) as per Minerals (Other than Atomic and Hydro Carbons Energy Minerals) Concession Rule 2016.
2. List of table as depicted in different chapter may be enclosed with annexure.
3. Consent letter/ Undertaking/Certificate as furnished by the Lessee may be included the para as “I do hereby undertake to complete exploration in time bound manner in accordance with Ministry of Mines letter no.-10/75/2008-MV, dated 23.12.2010”.
4. Consent letter/ Undertaking/Certificate as furnished by the Lessee may be signed with name.
5. Photo ID of Proprietor with permanent address may be enclosed.
6. All the annexure to be properly indexed/ numbered/ paged and signed by qualified person.

Chapter-1, “Introduction”:

7. A brief review of status of Mining lease at present with documentary evidences may be given.
8. Para-V, It has been written as “the approved Scheme of Mining is now requires modification under rule 10 of MCDR 1988” which may be corrected.

Chapter-3, “Details of approved Mining Plan/Scheme of Mining”:

9. Para 3.2, Details of last modification of Scheme of Mining which was approved on 16.10.2015 may be discussed.
10. Para 3.2, The details bore holes drilled in 2015-16 & 2016-17 may be described with Form-J submitted to this office under rule 47 of MCDR’88.

11. Para 3.5, Details of any suspension/closure/prohibitory order issued by any Government agency under any rule or court of law described under text may be marked with annexure.
12. Para 3.7, reason of modification described under text may be marked with annexure.

Part-A, Chapter-1, “Geology & Exploration”:

13. In the text, proposed exploration programme should be explained in detail considering the back-log envisaged during the financial year 2015-16 to 2016-17.
14. Year wise Bore-hole plan may be changed based on the back-log proposed during 2015-16 and 2016-17.
15. Reserve under 111 & 122 estimated in the earlier Scheme of Mining (As on 01.07.2015) is 67.963 Million Tons while depletion of reserve considered on the basis of production from the financial year 2012-13 to 2016-17 (As on 25.08.2016) to estimate the residual reserves which may be explained.
16. A separate plan showing geology and UNFC has to be submitted.
17. The resource shown under G3 category in the extreme northern part is not correct. Hence, this may be corrected accordingly.
18. The complete lease area should be proposed to cover under exploration to quantify reserves /resources with cut of grade corresponding to threshold value suggested by IBM. The spacing of bore holes as proposed to explore the remaining area are not satisfying the G-2 level of exploration under Minerals (Evidence of Mineral Contents) Rules, 2015 which may be modified.
19. The average weighted grade of minerals under UNFC code 111 & 122 may be furnished in reserve calculation.

Chapter-2, “Mining”:

20. In the development and production tables bench wise, year wise area of excavation and average thickness of the excavation or average area of cross section of bench and its average advance is to be given along with RL of bench with direction of advance at the end of the year.
21. In situ excavation(MT) furnished in tabular form in text where ROM shown in cu.m which may be corrected.
22. Environment clearance obtained for 5.5 Million tonnes of Iron ore (ROM) while tentative excavation has been considered only for Iron ore production and ROM parameters has not considered. ROM includes sub grade and intercalated waste also which may be taken into account and accordingly tentative excavation may be modified.
23. The benches in OB and ore should be marked in different colours in development plan.
24. The average weighted grade of ore to be excavated and the grade of mineral rejects may be depicted.
25. Separate year wise development section has to be submitted.
26. Ultimate pit limit should be depicted on all relevant plans & sections.
27. Deep hole blasting may be described along with permission obtained from DGMS.
28. In the text storage and handling of ammonium nitrate has been described but during inspection it has been observed that slurry explosive is used for blasting. Accordingly text may be corrected.

Chapter-4, Mine drainage:

29. RL of present and proposed workings and summer and post monsoon water table in the area supported with ground water monitoring study done in the area may be given further the rate of collection of water through precipitation and seepage and matching pumping arrangement may be described.

Chapter-4, “Stacking of mineral reject/ sub grade material and disposal of waste”

30. All the dumps exist in the mining lease should be analyzed from NABL accredited lab and accordingly sub grade and waste dump should be differentiated.
31. Retaining wall to be shown in the toe of the proposed waste dump. Accordingly, it should be explained in the text.
32. In the text, details of blending of sub-grade ore to be explained.
33. Storage/Stacking of Sub-grade material/ Mineral reject in earmarked area to be described with m. RL and area on year to year basis with description of the manner of its disposal.

Chapter-5, Use of Mineral and Mineral Reject:

34. Specifications stipulated by user industry using your mineral viz-a viz grade of mineral being produced from mine may be given.
35. In summary of PMCP table, Cumulative actual achievement as on date and specific proposal should be given year-wise in absolute quantified term.

Chapter-7, “Other”:

36. A site office as proposed to shifting may be described in text and indicate in plan.
37. Existing manpower both direct and contractual has to be mentioned in the text.
38. An organizational chart has to be provided for risk assessment study to whom communication to be made in case of any accident.

Chapter-7, “Progressive Mine Closure Plan”:

39. Updated break up of present land degradation (pit, water body, dumps, infrastructure, settlement etc) under different land types (forest, revenue, waste, grazing etc) may be given.
40. Updated air,water,noise,ground vibration and soil data with analysis from laboratory done at specified periodicity for last one year to be enclosed.
41. Under impact on land, cumulative land degradation at present, at the end of proposal period and at the end of conceptual period may be given referring to conceptual mining plan given in scheme of mining.

Plates:

42. The plans and sections submitted do not bear the certificate that --the plans and sections are prepared based on the lease map authenticated by the state government.
43. All the plan & sections prepared bear the signature of certified surveyor.
44. **Plate no.2- Location Plan/Key Plan:**
ML area may be marked with red colour. The approach road upto the Mining lease may be indicated.
45. **Plate no.3 - : Surface Plan:**
 - a. In the surface plan the waste dump-4 has to be designated as waste dump (declared as sub-grade dump) may be corrected accordingly.
 - b. Latitude, longitude of all corner pillars may be indicated on the plan. Acquired area may be marked clearly. Few pillars may be correlated with some permanent ground features giving distance and direction. Different land use may be shown with colour codes.
 - c. Forest area (already cleared area), Surface right acquired area etc. should be marked clearly over a separate Lease Map Plan & Surface plan.
46. **Plate no 4 & 4A - : Geological Plan & Section:**
Spot levels at sufficient no of places in the pit at the toe of benches may be shown. The reserve under G1 & G2 category and limits of

reserves/resources 111 and 211 marked on geological plan and sections in different colour codes.

47. Plate no -5 & 5A : Year wise development plan:

- a. In the development plan, proposed sub-grade dump and mineral stock yard has to be shown.
- b. Site office and stationary plants to be shown on the development and reclamation plan.
- c. Excavation in ore and OB is not clear hence on year wise plans and sections ore and OB may be marked. Show position of faces and bench Rls at the beginning and end of the year distinctly with direction of advance and individual year workings with colour code. Spot levels at sufficient no of places on original surface, in the pit, and at the toe of benches may be shown so as to ascertain the average depth of excavation in a particular bench.

48. Plate No. 6: Reclamation Plan:

Year wise progress of dumping, dump re-handling, afforestation and environmental protection measures using different colour codes for easy understanding. Year wise proposal for dumps to be handled may be shown.

49. Plate no 7- : Environment plan:

- a. In the Environment plan Environment monitoring to be shown.
- b. The Environment Plan as prepared should be satisfied the provision as laid down rule 28(5)(b) of MCDR'88.

50. Plate No.8: Conceptual plan:

This may be prepared considering mineralization as revealed from the borehole logs. One longitudinal section may also be submitted.

Direction of run off from the area based on surface contours may be shown on the plan and the sections.

51. Plate no.9 - : Financial Assurance Area Plan:

In the Financial Assurance plan area of each individual land i.e land degradation due to mining activity working/dumping /reclamation and rehabilitation etc at the end of financial year 2019-20 may be shown separately on this plan with highlighted boundaries and different colour codes for FA calculation.

52. All plans & Sections should bear dated signature.

53. Date of observation of Magnetic Meridian should be given on all plans except Khasra Plan.

