



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. MS/OTFM/23-ORI/BHU/2017-18

Date: 24.10.2017

To

Shri Umesh Chandra Mishra, Mine Owner,
Plot No. 892/893-14,
New Colony, Palasuni,
Bhubaneswar-751010

Sub: Approval of Review of Mining Plan of Kamando & Kula Manganese Mine along with Progressive Mine Closure Plan (PMCP), over an area of 60.70 ha in Sundargarh district of Odisha State, submitted by Shri Umesh Chandra Mishra under Rule 17 of MCR, 2016.

Ref: - i) Your letter No. Nil dated 27.09.2017.
ii) This office letter of even no. dated 03.10.2017.
iii) This office letter of even no. dated 03.10.2017 addressed to Director of Mines, Government of Odisha copy endorsed to you.

Sir,

This has reference to the letter cited above on the subject. The draft Review of Mining Plan along with Progressive Mine Closure Plan (PMCP) has been examined in this office based on site inspection dated 11.10.2017 by Shri G C Sethi, Deputy Controller of Mines. The deficiencies observed are enclosed herewith as Annexure I.

You are advised to carry out the necessary modifications in the draft 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 or JPG format in resolution of 100x100 pixels on same CD)** with financial assurance under Rule 27 of MCDR 2017 of the Review of 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 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 final copies of the Review of Mining Plan. It may be noted that no extension of time in this regard will be entertained and the 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.

Yours faithfully,

(HARKESH MEENA)

Regional controller of Mines

Annexure-I

SCRUTINY COMMENTS ON EXAMINATION OF REVIEW OF MINING PLAN WITH PROGRESSIVE MINE CLOSURE PLAN FOR KAMANDO & KULA & MANGANESE MINE OF SHRI UMESH CHANDRA MISHRA, OVER AN EXTENT OF 60.70 HECTARES OR 150.00 ACRES, LOCATED IN VILLAGES KAMANDO & KULA, UNDER BONAI SUB-DIVISION OF SUNDARGARH DISTRICT OF ODISHA STATE, SUBMITTED UNDER RULE 17(2) OF MCR, 2016.

(1) On examination of the front cover, full postal address of the applicant & the registration number allotted by IBM, under Rule 45 of MCDR, 1988 is missing, which should be furnished.

(2) On examination of the contents & chapters of the mining plan, it is found that, the document has not been prepared as per the universal format for mining plan/review of mining plan. The chapter 4.0 has been mentioned to be for Stacking of mineral rejects and disposal of waste instead the same should be mentioned as **Stacking of Mineral Rejects/Sub-grade Material and Disposal of Waste.**

(3) In the consent letter/undertaking/certificate from the applicant, the consent has been given to Shri Chandrabhanu Das, consulting geologist to prepare the review of mining plan, instead of a Qualified Person, thereby necessary incorporations/corrections may be made at all the places of the document.

(4) The copy of the surface right order enclosed as annexure-II is not legible; thereby a fresh & legible copy of the same should be submitted.

(5) The chemical analysis report of manganese samples for grades of manganese ore, sub-grade, dump & bulk density test report from R.V.BRIGGS & CO. PRIVATE LTD., has been enclosed as annexure-V to VIII but the analysis reports are very old, analysed on 28.02.2014, which is not acceptable, instead fresh analysis report should be obtained either from a NABL accredited laboratory or from a Govt. laboratory and enclose along with the document.

(6) The consent order from State Pollution Control Board, Odisha has not been enclosed; thereby a valid consent for the same should be obtained & submitted.

(7) The copy of the MoEF clearance has not been enclosed and the compliance status for the same should be submitted.

(8) Air, surface water, ground water, noise & vibration analysis report has not been enclosed as annexure to the document, which should be submitted for all four seasons of the year either from NABL accredited laboratory or from a Govt. Laboratory.

(9) The copy of the explosive procurement license issued by the competent authority in favour of Shri U.C. Mishra has not been enclosed. Besides, a copy of the blasters license issued by the competent authority for carrying out blasting operations may also be submitted.

(10) A copy of the valid Bank Guarantee matching to the proposed five period has not been enclosed and the same should be submitted.

(11) No photographs in support of the quarry /dump /stack /reclamation & rehabilitation /afforestation etc. have been enclosed, which should be submitted for more informative.

(12) In item No. 4,6 & 10 of the profile of the lease area, the approval status of the mining plan/scheme of mining/final mine closure plan in different occasions have been furnished but the copies of such approval letters for the same has not been enclosed, which should be submitted.
(Page No. 1 & 2)

(13) In item No. 14 of the profile of lease area, it is mentioned that, the mining operations were continued till 1993-94 and thereafter discontinued in obedience of the order of Deputy Director of

Mines, Koira but the copy of such order has not been enclosed along with the document. (Page No.3)

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(14) The registration number allotted by IBM under Rule 45 of MCDR, 1988 has not been given, which should be furnished. Besides, the postal PIN code of the address given in the para under reference also not furnished. [Para 1.0(a)]

(15) It is found that, the mining lease has already been expired on 07.08.2008 but the present status of the lease has not been given and the same should be clearly indicated. [Para 2.0(a)(iii)]

(16) The copies of the violation letter, show-cause notice and compliance status submitted by the party have not been enclosed as per the requirement of the para, which should be submitted for more informative. (Para 3.4)

(17) In page no. 3, it is mention that, the mining operations were discontinued in obedience of the order of Deputy Director of Mines, Koira but in the para under reference, the status for the same has not been furnished. (Para 3.5)

(18) There is mention that, out of 8 nos. of trial pits, occurrence of manganese was reported in 5 nos. of pits but the analysis report of the trial pits, where occurrence of manganese was reported has not been submitted, thereby an authenticated chemical analysis report in support of the grades of manganese either from NABL accredited laboratory /Govt. Laboratory should be submitted for more informative. [Para 1.0(e)]

(19) An extent of 4.878ha of the area is stated to be explored upto G1 level and the balance area of 55.822ha has not been explored so far, thereby the balance un-explored portion of the lease area should be explored by drilling core boreholes atleast G2 level and the exploration proposal should be restricted to the financial year 2018-19. [Para 1.0(e)(ii)]

(20) There are 40 nos. of bore holes are proposed to be drilled during the years 2017-18 & 2018-19 but the extent of area proposed to be explored & the grid pattern of such bore holes may also be indicated. The exploration proposal should atleast the G2 level as per the requirement of UNFC. Accordingly, necessary modifications/incorporations may also be made in connected paras in the text with proper plate reference. (Table-3.4)

(21) For computation of reserves & resources, the bulk density for manganese has been considered from $2.5t/m^3$ & the same for bauxite is considered as $1.3t/m^3$ but the bulk density test report from NABL accredited laboratory or from a Govt. Laboratory has not been submitted. [Para 1.0(j)]

(22) Existing method of mining should be furnished in detail, including the existing status of the quarries/pits with dimensions, dumps with size/capacity, reclamation indicating extent of area in ha., rehabilitation & afforestation with extent of area in ha. etc. for more informative. Besides, the location co-ordinates of the existing quarries, dumps, reclamation & rehabilitation may also be furnished. Moreover, nothing has been discussed about the proposed method of mining and the same should also be furnished by giving proposed bench formation status both in overburden & in ore zone, dumping, reclamation & rehabilitation etc. for all the pits/quarries proposed for excavation. If the existing quarries/pits are proposed to be developed /extended, the same may also be furnished. In the light of the above; the entire para may be revised. [Para 2.0(A)(a)]

(23) In the table-2.1 furnished, under the heading **Insitu Tentative Excavation**: The following observations are made: (i) In the proposed five years period, the bench/RL of the excavation planning for each year has not been given, which should be furnished by adding one more column

in referred the table. (ii) The name of the quarry and location co-ordinates of the excavation planning for each year also not furnished. (iii) The grades of manganese and mineral rejects may

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also be furnished supported by authenticated chemical analysis report. Accordingly, corresponding incorporations /modifications may also be made in connected tables, paras in the text & relevant plates.

(24) The bulk density of manganese is considered as 2.5t/m^3 and the recovery factor is considered as 10% but the bulk density test report from Govt. / NABL accredited laboratory has not been enclosed, which should be submitted for ease in monitoring. [Para 2.0(A)(b)(i)]

(25) The breakup of Saleable and sub-grade ore has been furnished in tabular form but the percentage recovery of the same has not been given, which should be furnished for ease in monitoring. [Page No. 36]

(26) In the table furnished in the page under reference, in 3rd column, only the bottom bench RL has been furnished, instead both top & bottom RL is required be mentioned. Besides, no information about the height & width of the individual benches has been given. [Page No. 36(a)]

(27) The location co-ordinates of the proposed workings should be furnished indicating the direction of advancement of quarry faces. Besides, the status of waste dump & the location co-ordinates proposed for the same with size/capacity and direction of advancement may also be discussed. Moreover, the requirements of reclamation & rehabilitation may also be furnished. In the light of the above, the information furnished in para 2.0(e) may also be revised. [Para 2.0(d)]

(28) Ultimate size of a Bauxite pit/quarry has been furnished in the table furnished in the page under reference, since Bauxite is not covered under the excavation planning during the ensuing review of mining plan period as the same has not been included in the lease deed, the ultimate pit dimension of the bauxite quarry is uncalled for and must be deleted and the para may be revised. If anywhere in the document, the excavation planning for bauxite is indicated; the same may also be erased. [Para 2.0(f), page No. 45]

(29) Under the heading, ultimate capacity of the dump, the location co-ordinates of the dump is missing, which should be furnished. Besides, the extent of proposed backfilling area & the location co-ordinates for the same may also be furnished. (Page No. 46)

(30) The existing top & bottom RLs of the mine working is missing, which should be furnished co-relating the maximum and minimum depth of the ground water table for ease in monitoring. [Para 3.0(a)]

(31) The quality of water encountered in the area has not been mentioned and the same may also be furnished. [Para 3.0(c)]

(32) During the year 2017-18, only 8640 tonnes of sub-grade materials are proposed to be generated but the calculations in support of such generation has not been furnished. [Para 4.0(d)]

(33) The location co-ordinates of the plantation is missing, which should be furnished by adding one more column in the table given in the page under reference. Besides, the proposed survival rate of plantation for each year may also be furnished. (Page No. 76)

(34) Pit/quarry wise extent of area proposed to be degraded in each year of the five year period should be furnished in separate tables as the extent of area put to use in different counts for the ensuing five year period has been furnished in tabular form in this para. Besides, pit wise extent of

area utilized for dumping, stacking, reclamation, rehabilitation & afforestation for each year of the aforesaid period may also be furnished.(Para 8.3.1)

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(35) Plate-I (Key Plan): (i) The topo sheet No. refer in page No. 6 in the text is not matching with that furnished on the key plan. (ii) 5km radius of the lease area has not been marked on the plan and also the index reference for the same not furnished. (iii) Most of the features given for index are not clearly depicted; thereby the same should be marked clearly both in index & on the plan portion of the plate. Besides, the 25cm long scale for the plate also not drawn. In the light of the above, the plate may be revised.

(36) Plate No-II(A) (DGPS Map): The extent of lease area furnished on this plate is not matching with that of the area for which the lease was granted & executed. Moreover, the plate has not been authenticated by the competent authority of State Govt. of Odisha.

(37) Plate-III (Surface Plan): (i) Surveyor's signature is missing on this plan, which should be signed by a competent surveyor. (ii) Atleast three permanent ground control points beyond the lease area have not been selected, which should be done and latitude & longitude of those ground control points should be furnished. These ground control points need to be linked with boundary pillars.

(38) Plate-IV (Geological Plan): As per the new Minerals (Evidence of Mineral Contents) Rule,2015, the level of exploration at different stages (G1,G2,G3,G4) and unexplored area should be properly defined in tabular format and the same should be marked on the geological plan. Besides, new exploration proposal covering the entire lease area to the G2 level of exploration should be proposed. Accordingly, necessary modifications/incorporations may also be made in Geology and Exploration chapter.

(39) The review of mining plan has been submitted for category A-OTFM mine but separate year wise development plan & sections for each year has not been submitted.