



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/FM/15-ORI/BHU/2017-18

Date: 06.10.2017

To

✓ Shri M. D Rustagi, Director & Nominated Owner,
M/s Bonai Industrial Company Ltd,
Rungta Office, Main Road, Barbil,
Dist – Keonjhar – 758035, Odisha

Sub: Approval of Review of Mining Plan of Nadidih Iron & Manganese Mine along with Progressive Mine Closure Plan (PMCP), over an area of 73.855 ha in Sundargarh district of Odisha State, submitted by M/s Bonai Industrial Company Ltd under Rule 17 of MCR, 2016.

- Ref: - i) Your letter No. BICO/ED/GEO/2017-18/486 dated 22.09.2017.
ii) This office letter of even no. dated 25.09.2017.
iii) This office letter of even no. dated 25.09.2017 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 earlier site inspection dated 13.07.2017 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

SCRUTINY COMMENTS ON EXAMINATION OF REVIEW OF MINING PLAN INCLUDING PROGRESSIVE MINE CLOSURE PLAN FOR NADIDIH IRON & MANGANESE MINE OF M/S BONAI INDUSTRIAL CO. LTD., OVER AN EXTENT OF 73.855 HECTARES, LOCATED IN NADIKASIRA & RENGALBEDA VILLAGES, UNDER BONAI SUB-DIVISION OF SUNDARGARH DISTRICT OF ODISHA STATE, SUBMITTED UNDER RULE 17(1) OF MCR, 2016.

(1) On examination of the contents & chapters of the review of 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-3 has been mentioned to be for Details of approved mining plan/scheme, instead the same should be mentioned as **Details of approved mining plan/scheme of mining (if any)**. Likewise, the chapter-8 has been mentioned as Use of Mineral, instead the same should also be indicated as **Use of Mineral and Mineral Reject**.

(2) In the consent letter/undertaking/certificate from the applicant, the name of Shri Ganesh Kumar Sah, qualified person has been mentioned to be **Ganesh Sha**, thereby necessary incorporations/corrections may be made in the consent letter.

(3) In the certificate from the qualified persons, the provisions of MCR, 2016 have been observed, instead the provisions of MCDR, 2017 should be furnished and necessary corrections may be made accordingly.

(4) The copy of the supplementary lease deed has been enclosed as annexure-1 but the authenticated land schedule is missing, which should be submitted.

(5) The ID proof in support of Shri Lingaraj Sahoo enclosed as annexure-2 is not clearly legible, thereby the same should be replaced by a fresh and legible copy for more informative.

(6) The copy of the explosive procurement license issued by the competent authority in favour of M/s B.I. Co. Ltd., 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.

(7) The copy of the Bank guarantee for extent of area put to use in different counts for the ensuing review of mining plan period has not been enclosed and the should be submitted as per the requirement of Rule 27(1) of MCDR, 2017.

(8) In para (f) of the introduction chapter, the approval reference for good number of mining plan/scheme of mining has been given but the copies of approval letters of the same has not been enclosed.

(9) The location co-ordinates of the actual plantation done during the years 2015-16 to 2017-18 (as on date) should be furnished in the table given in the para under reference for more informative. (Para 3.3.9)

(10) The proposed status of reclamation during the period from 2015-16 to 2017-18 has not been given, which should be furnished. Besides, actual reclamation done during each year from 2015-16 to 2017-18 (as on date) should be furnished with the location co-ordinates in the table given in the para under reference for more informative. (Para 3.3.10)

(11) The compliance status of violation pointed out in connection with the reclamation during the current inspection has not been given, which should be furnished for more informative. (Para 3.4)

(12) There is a mention that, the mining operations were stopped by Deputy Director of Mines, Koira, letter No. 1631 (13), dated 17.05.2014 but the copy of such letter has not been enclosed. (Para 3.5)

(13) The registration certificate of the exploration agency is stated to be enclosed as annexure but the proper annexure reference is missing, which should be furnished. [Para 4.0(d)(iii)]

(14) The status of exploration done upto G1 level has been furnished in tabular form but it is not known whether the depth of the already drilled boreholes are touched the end of the mineralisation or not should be specified. (Table 4.3)

(15) In F column of the table, an extent of 2.40ha of area is mentioned to be unexplored area due to safety zone considerations, instead the said portion of the area should be proposed under exploration and the same should be completed before 31.03.2019. A commitment to that effect may also be made in the document. (Table -4.5)

(16) The resources for iron ore has not been estimated as the entire leased out area has not been explored so far, thereby the information/ data furnished in tables may be revised accordingly. (Table 4.13 & 4.14)

(17) The existing method of mining has not been furnished in detail, which should be discussed, including the existing status of pit/quarry, dump, reclamation, rehabilitation & afforestation etc. Accordingly, the proposed method of mining may also be revised by giving proposed bench formation status both in overburden & in ore zone, dumping, reclamation & rehabilitation etc. for clarity. If the existing quarries 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 5.0(A)]

(18) The recovery from the existing dump-A is considered as 40% but an authenticated recovery test report either from NABL accredited laboratory or from Govt. Laboratory has not been submitted. (Table No.5.2)

(19) (i) In the table furnished, under the heading **Insitu Tentative Excavation:** The following observations are made: (i) The proposed generation status of OB/SB/IB, production of iron ore & generation of mineral rejects has been furnished in tabular form but the bench/RL of the excavation planning has not been given, which should also be furnished by adding one more column in the table. (ii) The recovery percentage of the usable iron ore and mineral rejects is missing, which should be submitted supported by authenticated recovery test report. (iii) The location co-ordinates of the excavation planning for each year also not furnished and the same may also be given by adding one more column in the table with proper plate reference. (iv) The grades of iron ore, mineral rejects and the waste material may also be furnished supported by authenticated chemical analysis report. Accordingly, corresponding incorporations /modifications may also be made in connected paras in the text & relevant plates. (Table No. 5.5 & 5.6)

(20) Re-handling of dump A has been proposed during the ensuing review of mining plan period but the location co-ordinates of such dump is missing, which should be furnished. Besides, the recovery of iron ore from the dump re-handling is also not given and the same should be furnished supported by an authenticated recovery test report. (Table No. 5.6)

(21) The name of the quarry(s)/location co-ordinates of the proposed workings should be furnished indicating the direction of advancement of quarry faces. Besides, the height, width & length of individual benches may also be furnished indicating the bench specifications/parameters for each year of the mine development. The status of dumps both for waste & mineral rejects/sub-grade and 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. Accordingly, corresponding incorporations/modifications may also be made in connected paras in the text. [Para 5.1(A)]

(22) The proposed dimension of the pit by end of each year of the mining operation is missing, which should be furnished. All should be furnished in tabular form. Accordingly, the same for boundary pit may also be furnished in connected paras in the document for ease in monitoring. (Para 5.2.1)

(23) Tentative quarry development & production planning for top- 2 pit for the year 2018-19 has been furnished in tabular form but the Ore: OB ratio is missing, which should be furnished by adding one more column right to the table. Accordingly, the table furnished for the purpose for the year 2019-20 as well as for boundary pits may also be revised. (Table No. 5.13)

(24) There is mention that, the party has already drilled 236 nos. of boreholes, over an extent of 71.455 ha but the extent of lease area remains un-explored so far may also be furnished. (Para 5.12.1)

(25) The proposed status of plantation over the dead dump slope and plantation over backfilled area in each year of the ensuing review of mining plan period has not been given, which should be specified. Besides, the location co-ordinates of plantation of 10000 saplings per annum also not given and the same should be furnished with proposed survival rate of plantation for ease in monitoring. All should be presented in tabular form. (Para 5.12.4)

(26) The post mining land use has been furnished in tabular form but the extent of area put to use in different counts by end of each year of the ensuing two years period is missing, which should be furnished by adding one more table given in the para under reference. (Para 5.12.5)

(27) The comment on quality of water encountered in the area has not been given and the same may also be furnished. (Para 6.2)

(28) The location co-ordinates of backfilling for each year is missing, which should be furnished by adding one more column in the table for ease in monitoring. (Table 7.1)

(29) The grade of the dumped material is considered as -45%Fe but no authenticated analysis report for the same has been submitted. Besides, the location co-ordinates of the existing dumps A also not furnished in the referred table, which should be furnished. (Table 7.2)

(30) The existing dimension of the retaining wall has not been given and the same should be furnished by adding one more column in the table. (Table 7.6)

(31) The proposed back filling for each year of the ensuing two years period has been furnished in the referred table but the location co-ordinates of such backfilling has not been given, which should be furnished. (Para 11.3)

(32) The existing, proposed and conceptual land use has been furnished in the referred table but the land use by end of each year of the proposed two years period has not been given, which should be furnished. (Table 11.11)

(33) The reclamation & rehabilitation proposal for the ensuing two years period has been furnished in the table given under reference; instead separate table for each year should be furnished for ease in monitoring. (Table No. 11.12)

(34) The proposed and actual plantation status for the period from 2013-14 to 2017-18 has been furnished in tabular form, which is uncalled for at this place and must be deleted. (Table No. 11.13)

(35) The name & contact number of the person responsible during the emergency should be furnished. Besides, nearest fire stations, hospitals and police station is required to be mentioned for more informative. (Para 11.4)

(36) DRG No. 01 (Key Plan): The details of the deficiencies found on the plate are as follows: (i) The index reference for 5km/10km radius has not been marked, which should be furnished. (ii) The index reference given for water source is marked as Karo Nadi on the plan portion of the plate. (iii) The index reference given for forest is not matching with that of the plan. (iv) An index for flow of nala has been furnished but no such nala has been marked on the plan. (v) Air, noise & water monitoring stations has not been marked on the plan. Besides, the index reference for the same also not furnished. (vi) What is represented by the thick brown lines marked on the plan should be specified with proper indexing. (vii) Moreover, 25cm long scale has also not been drawn on the plate.

(37) The geo-reference cadastral map as required in compliance to CCOMs circular No.2/2010 and its addendum dated 21.09.2011 & 11.06.2014 has not been submitted.

(38) DRG No. 03 (Surface Plan): (i) The pillar co-ordinates of all the lease boundary pillars have not been given, which should be furnished. (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. Besides, the ground control points need to be linked with boundary pillars.

(39) DRG No. 04 (Geological Plan): (i) 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. (ii) 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 & any other places of the document.

(40) DRG No. 05(A) [Development Plan of Quarry & Dump for the year 2018-19]: (i) In the text, provisions for dumping of waste materials has been envisaged on exiting dump A but the same has neither been depicted on this plan nor separate plate for the same has been submitted. Accordingly, the development plan of quarry & dump for the year 2019-20 as well as the plate for composite development plan & sections submitted along with the document should be revised. In addition to the above, all other relevant plates submitted along with the document may also be revised.

(41) DRG No. 05(A¹) (Development Section of Quarry & Dump for the year 2018-19): The position of the quarry, dump, stack & reclamation etc. marked on the development sections are not matching with that of the plan. Besides, the different litho units depicted on the sections are not also matching with that of the plan. Moreover, the dump section for the proposed dump is missing. Accordingly, the development section of quarry & dump submitted for the year 2019-20 as well as the plate for composite development sections submitted along with the document should be revised.

(42) DRG No.06 (Environment Plan): The index reference given for existing dump, River, existing planation, air, noise & water monitoring stations are not matching with the plan portion of the plate, thereby the plate may be revised accordingly.

(43) Plan No.07 (Environment Management Plan): The position of the quarry, dump & reclamation by end of the year 2018-19 has not been depicted with different colour codes. Besides, the index reference given for proposed dump for the year 2019-20 is also not matching with that of the plan portion of the plate and the plate may be revised accordingly.

(44) DRG No.09 (Reclamation Plan): (i) The proposed dump for the year 2019-20 and backfilling for 2018-19 has not been depicted on the plan. Besides, it is also found that, both the pits are proposed to be merged with one another but a mineral stack yard for the year 18-19 has been marked in between merger area, which should be erased considering the above merger proposal. Accordingly, all other relevant plans & sections submitted along with the document may also be revised.

(45) DRG No.10 (Conceptual Plan): Conceptual plan should be prepared showing the details of mining activities upto the lease period & rest of the things should be erased. Accordingly, the plate submitted for conceptual sections may also be revised.


05-10-2019
(G. C. SETHI)

Deputy Controller of Mines