



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. MPM/A/04-ORI/BHU/2021-22

Date: 13.05.2021

सेवामे

Shri Vishal Atha, Director & Nominated Owner,
M/s Narbheram Power & Steel Pvt. Ltd,
Avani Signature, 6th Floor,
91A/1, Park Street,
Kolkata-700016

विषय: Approval of modification of Mining Plan of Roida-II Iron Ore Mine along with Progressive Mine Closure Plan (PMCP), over an area of 74.702 ha (As per DGPS) / 74.867 ha (As per RoR) in Keonjhar district of Odisha State, submitted by M/s Narbheram Power & Steel Pvt. Ltd under Rule 17(3) of MCR, 2016.

संदर्भ: - i) Your letter No. Nil dated 03.05.2021.
ii) This office letter of even no. dated 04.05.2021.
iii) This office letter of even no. dated 04.05.2021 addressed to the Director of Mines, Govt. of Odisha, copy endorsed to you.

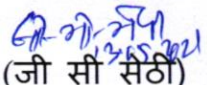
महोदय,

This has reference to the letter cited above on the subject. In this connection, I am directed to inform you that, the draft modification of Mining Plan along with Progressive Mine Closure Plan (PMCP) has been examined in this office based on site inspection carried out on 11.05.2021 by undersigned. The deficiencies observed are enclosed herewith as Annexure-I.

You are advised to carry out the necessary modifications in the draft modification 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)** 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 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 Mining Plan. It may be noted that no extension of time in this regard will be entertained and the modification 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,


(जी सी साहा)

उप खान नियंत्रक
कृते क्षेत्रीय खान नियंत्रक

Copy for kind information and further necessary action to Shri P S Acharya & Shri S M Patra,
M/s Gemtech Consultants Pvt Ltd, K-8/625, Kalinga Nagar, Ghatikia, Bhubaneswar- Odisha
751029.

(जी सी सेठी)

उप खान नियंत्रक

कृते क्षेत्रीय खान नियंत्रक

SCRUTINY COMMENTS ON EXAMINATION OF MODIFICATION OF MINING PLAN & PROGRESSIVE MINE CLOSURE PLAN FOR ROIDA-II IRON ORE MINE OF M/S NARBHERAM POWER & STEEL (P) LTD., OVER AN EXTENT OF 74.702 HECTARES, LOCATED IN VILLAGE TANTO & SIDHAMATH R.F, UNDER BARBIL TAHSIL OF KEONJHAR DISTRICT OF ODISHA, SUBMITTED UNDER RULE 17(3) OF MCR, 2016 & 23 OF MCDR, 2017.

- (1) What is represented by May 2021 in the front cover, not understandable, which is uncalled for and must be removed. Besides, in the front cover, the extent of lease area is indicated to be only for 74.702ha, whereas in the consent letter from the applicant, there are two different areas has been furnished and the data should be reconciled.
- (2) In the consent letter from applicant, the name of the nominated owner who has signed the document is missing, which should be furnished.
- (3) The contents for list of annexure (volume-IIA & IIB) and list of plates (volume-III) have not been given in Volume-I of the document, which should be incorporated for more informative.
- (4) In the LOI, enclosed as annexure-2A, the extent of lease area is mentioned to be 74.702ha and also in the land schedule attached with the lease deed (annexure-3C) the lease area is for 74.702ha, whereas in the grant order, the area is mentioned as 74.702ha (as per DGPS) & 74.867ha (as per RoR), therefore, the data should be reconciled.
- (5) The Form J & K enclosed and borehole logs enclosed as annexure-18A & 18B are uncalled for as the data has already been taken into consideration during the previous lease period and accordingly, the lease was auctioned in fresh. If any exploration has been done during the last one year i.e. 2020-21, only required to be furnished for further resources estimation.
- (6) The borehole analysis reports enclosed as annexure-19 are pertained to the previous lease period, which are already been taken into consideration before the auction of the lease and the lease was auctioned in fresh. If any exploration is done during the last one year i.e. 2020-21, the analysis report in fresh to be furnished. Accordingly, the check sample analysis report enclosed as aneexure-19A should also be revised.
- (7) The information furnished in connection with work order enclosed as annexure-20 is uncalled for and must be detached.
- (8) The bulk density test report enclosed as annexure-21 is old one and the same should be replaced by a fresh report for more informative.
- (9) Few photographs for construction status of check dam and reclamation & rehabilitation and afforestation have not been enclosed along with the annexure-26, which should be submitted for more informative.
- (10) The copy of the explosive procurement license issued by the competent authority in favour of M/s Narbheram Power and Steel (P) Ltd., has not been furnished. Besides, a copy of the blasters license issued by the competent authority for carrying out blasting operations may also be submitted.
- (11) The chemical analysis report of fresh iron ore samples has not been enclosed and the same should be obtained either from a NABL accredited laboratory or from a Govt. laboratory & enclose along with the document.
- (12) The modification of the mining plan has been submitted for the years 2021-22 to 2024-25 but the reasons for such modification is missing in the document, thereby the same should be furnished at the appropriate places of the document.

(13) The entire lease area should be proposed under exploration atleast upto 300m depth from the existing quarry floor level or end of mineralization up to G2 level during next two years 2021-22 & 2022-23 as per the requirement of MCDR, 2017 & the exploration proposal furnished in table nos. 1/11 & 2/11 may also be revised. Accordingly, necessary incorporations /modifications may also be made in other relevant places of the document & relevant plates. [Table-1/11 & 2/11]

(14) The reserves & resources for iron ore has been estimated as on 01.04.2021 but the factors taken into consideration is not known, which should be computed considering the following :- (i) Up to what depth, the resources have been estimated is not known. (ii) The recovery of iron ore percentage from ROM is not explained, which should be supported by an authenticated recovery test report from NABL accredited laboratory with valid scope of accreditation for iron ore. (iii) No authenticated analysis report for the grades of the resources/reserves indicated in the table under reference. Accordingly, other connected tables may also be revised. [Table-1/17]

(15) Existing method of mining has not been furnished in detail as per the heading of the para, which should be discussed, including the existing status of dump, reclamation, rehabilitation & afforestation etc. for more informative. Besides, the proposed method of mining may also be discussed 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 2.0(A)(a)]

(16) In the table furnished, under the heading **Insitu Tentative Excavation:** The following observations are made: (i) The proposed generation status of OB/SB/IB, ROM & mineral reject have been furnished in tabular form but the bench/RL of the excavation planning has not been given. (ii) The recovery percentage of iron ore, mineral reject & waste/overburden generation is missing. (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 reject and the OB/waste 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. [Para 2.0(b)(I)]

(17) The location co-ordinates of the proposed workings have been furnished but the direction of advancement of quarry faces is missing. 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 dump for waste and mineral rejects & 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. (Page 74, 76, 78 & 80)

(18) In the table furnished in the page under reference, the land use at the end of 31.03.2025 has been furnished, instead the proposed land use by end of each year of the ensuing modification period is required to be furnished and the table may be revised. Accordingly, the post mining land use furnished in table-2/25 may also be revised (Table-2/24)

(19) The mineral rejects generated has been proposed to be blended with the ROM but the grade of such mineral reject has not been furnished, which should be obtained / analyzed either through a Govt. or NABL accredited laboratory and the report for the same should be enclosed along with the document. Moreover, the year wise generation of waste has been furnished in tabular form but detailed calculation in support of such quantities given in the referred table may also be furnished. (Table-4/1)

(20) There is existing lone dump in the mine viz. Dump-A but the capacity of such dump is missing, which should be furnished. Besides, nothing has been mentioned about the quantities of waste proposed to be dumped in the dumping site during each year of the modification period may also be given. Accordingly, necessary corrections /incorporations/modifications may also be made in other relevant places of the document. (Table-4/2)

(21) The quantities of proposed backfilling materials required in each year of the modification period for backfilling is missing in the referred table, which should be furnished. (Table-4/3)

(22) The industrial use specification for iron ore has been furnished in tabular form but the grade of materials produced from the mine also to be furnished for more informative. (Table 5/1)

(23) The flow sheet for the integrated screening & crushing unit has not been given and the same should be furnished. [Para 6.0(a)]

(24) In the table furnished in the para under reference, the land use as on 01.04.2021 has been furnished; instead the same by end of each year of the modification period should be furnished. Accordingly, the data furnished in table-8/2 may also be revised. (Para 8.0, table-8/1)

(25) Plate No. 01 (Key Plan): The details of the deficiencies found on the plate are as follows: (i) Many of the features referred in the index is not to be seen on the plan portion of the plate, thereby matching index reference for the features available within the 5km radius of the lease area only need be furnished. (ii) Direction of flow of River/nala is missing. (iii) The index reference given for forest land should be specific to reserved forest or any other type of forest. (iv) Population of the villages falling within 5km radius of the lease area also not furnished. (v) What is represented by A2, N8 & W3 etc. should be indicated with index references for more informative.

(26) Plate No. 03 (Surface Plan): The index reference given for lease boundary, safety zone forest area and non-forest land & some other index reference given with reference to plan portion of the plate is not matching with one another. Therefore, all the references given on the plan to be clearly match with the index. Besides, the surface right area also not depicted. Accordingly, all other relevant plates may also be revised.

(27) Plate No. 04(A) (Geological Plan): (i) Different litho units are not clearly visible, therefore, the same should be replaces by suitable index reference so that, all the geological features will be visible for which the plate is really required. (ii) As per the 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. (iii) The exploration proposal covering the entire lease area atleast to the G2 level of exploration maximum upto 300m depth from the quarry floor level should be proposed, where the ore body has not been

terminated and the same should be completed by 2021-23. Accordingly, necessary modifications /incorporations may also be made in Geology and Exploration chapter & any other places of the document.


(28) Plate No.05(A) (Geological Sections): Few geological index given in the geological sections are not matching with that of the geological plan, thereby the indexing as well as the lithology for sections should be revised in such a way that, the same will match with the geological plan.

(29) Plate No. 12(A) (Conceptual Plan): Certain existing features which will not be seen at the end of conceptual period should be erased. Accordingly, the plate submitted for conceptual sections may also be revised.

(30) Plate No. 13 (Reclamation Plan): The proposed status of mine development during each year of the modification period of four years has not been clearly drawn, which should be depicted and the plate may be revised. The plates submitted for reclamation sections are uncalled for and should not be submitted again while submitting modified copies.

(31) Plate No. 15 (Environment Plan): All the existing features available within 500m radius of the lease area need to be depicted and the plate may be revised.

(32) Plate No.16 (Financial Assurance Plan): The extent of area proposed to be degraded in different counts during the modification period has been furnished in tabular form but the same has not been marked with different colour codes on the plan portion of the plate and the plate may be revised accordingly.


13.05.2021

(G. C. SETHI)

Deputy Controller of Mines