



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/FM/12-ORI/BHU/2018-19

दिनांक / Date: 25.06.2018

To

Shri M. D. Rustagi,
Director & Nominated Owner,
M/s Rungta Mines Limited,
Rungta Office, Main Road, Barbil,
Dist-Keonjhar, Odisha – 758 035.

Sub: Approval of Modification of Mining Plan of Jajang Iron & Mnaganese Mines over an area of 666.150 ha in Keonjhar district of Odisha of M/s Rungta Mines 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. RML/ED/GEO/2018-19/414 dated 11.06.2018 received on 15.06.2018.
ii) This office letter of even no. dated 15.06.2018.
iii) This office letter of even no. dated 15.06.2018 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 Mining Plan along with Progressive Mine Closure Plan has been examined in this office based on site inspection carried out on 13.04.2018 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 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 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 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.

भवदीय / yours faithfully,

(HARKESH MEENA)

क्षेत्रीय खान नियंत्रक / Regional Controller of Mines

Copy for kind information and necessary action to:

1. Shri A. C. Biswal, Shri D. K. Mahanta and Shri S. Shekhar, Qualified Person, M/s Rungta Mines Limited, Rungta Office, Main Road, Barbil, District-Keonjhar, Odisha-758035.

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

SCRUTINY COMMENTS ON EXAMINATION OF MODIFICATION OF MINING PLAN INCLUDING PROGRESSIVE MINE CLOSURE PLAN FOR JAJANG IRON & MANGANESE MINE OF M/S RUNGTA MINES LTD., OVER AN EXTENT OF 666.150 HECTARES, LOCATED IN JAJANG, JORIBAHAL, PALSА-KA & BANDUBERA VILLAGES, UNDER CHAMPUA SUB-DIVISION OF KEONJHAR DISTRICT OF ODISHA STATE, SUBMITTED UNDER RULE 17(3) OF MCR, 2016.

(1) In the front cover, the consent letter/undertaking/certificate from the applicant and also in the certificate from the qualified persons, the document has been submitted for modification of modified approved mining plan, instead the same should be simply mentioned as modification of mining plan. Accordingly, corresponding changes may also be other relevant places of the document.

(2) On examination of contents for the text, it is found that, the same is not as per the guidelines for preparation of mining plan/review of mining plan; thereby the contents should be revised considering the prevailing guidelines.

(3) In the introduction chapter, one of the main reason for submission of modification of mining plan is for compliance of Rule 12(4A) of MCDR, 2017, whereas, in the front cover, in consent letter/undertaking/certificate from the applicant and also in the certificate from the qualified persons, the document has been submitted under Rule 17(3) of MCR, 2016, thereby necessary incorporation/ corrections may be made as per the requirement of the modification.

(4) The photographs enclosed in support of quarry, dump, reclamation & afforestation etc. as annexure-3 is appears to be old photographs, instead few fresh photographs should be submitted.

(5) The chemical analysis report in support of the grade of iron ore has not been submitted, which should be obtained either from Govt. laboratory or from NABL accredited laboratory and enclose along with the document for more informative.

(6) The analysis reports for grade of the dumps from NABL accredited laboratory/Govt. laboratory also required to be submitted.

(7) The copy of the explosive procurement license issued by the competent authority in favour of M/s Rungta Mines 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.

(8) 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 & the same should be submitted for more informative. (Para 3.1)

(9) In the remark column of the table, a mention has been made as **No such Deviation**, such wording is uncalled for, instead the actual facts to be furnished and the table may be revised. Accordingly corresponding changes may also be made in other places of the document. (Para 3.3.3.2)

(10) Against the proposed generation of 2.08 million tonnes of sub-grade ore, the actual generation status is indicated to be Nil, whereas in the remark column of the table, a mention has been made that, whatever low grade material associated with high grade the ROM was blended during the face excavation, which is not the proper justification, instead the reasons for not generation or less generation of sub-grade material needs to be properly justified based on the scientific ground. Accordingly, corresponding changes may also be made in other places of the document. (Para 3.3.4)

(11) The location co-ordinates of the actual plantation done during the year 2017-18 should be furnished in the table given in the para under reference for more informative. (Para 3.3.5)

(12) The exploration schedule for 65 nos. of coring/non-coring boreholes has been proposed during 2018-19 but the depth of the bore holes are not mentioned, which should be indicated. Besides, it

is also to be mention that, the drilling of the boreholes can be extended maximum upto 300m if the holes are not terminated in the ore zone. The entire potential area of mineralisation should be proposed under exploration during 2018-19 at least upto G2 level. The exploration schedule may also be revised accordingly as per the requirement. In view of the above, as required under the Minerals (Evidence of Mineral Contents) Rules, 2015, entire potentially mineralized zone to be explored atleast under G2 level of exploration. Further, details of exploration to be given as per following format:

Sl.No	Year	BH No	Northing	Easting	Collar RL	Core/RC/DTH	Meteage	Inclination	Forest/Non-Forest/ diverted Forest	Surface Right/ Non-Surface	Purpose of BH
1	2018-19	PBH 01									
2	2018-19	PBH02									
Total						Total BH	Total mts				

At the end of the table cumulative number of proposed BH in forest area, non-forest area, diverted forest area, Surface right area and non -surface right area to be given. Same has to be depicted on the geological plan. (Table 4.5)

(13) In geological resources assessment, the recovery factor for iron ore from the ore zone is considered as 90% of the total volume of excavation and the waste generation is for 10% but the basis of such recovery is not known, thereby the recovery test should be conducted through any of the NABL accredited laboratory or by a Govt. Laboratory and a report to that effect should be submitted. Likewise, the recovery test report for waste generation may also be furnished. [Para 4.0(k)(ii)]

(14) The grade of dump-1 & 2 is indicated to be +45%Fe but the authenticated chemical analysis for the same has not been enclosed. (Table -4.9)

(15) The grades of different low grade stacks has been furnished in the table under reference but no authenticated analysis report for such stacks has been submitted. (Table -4.10)

(16) The existing method of mining has not been furnished in detail, which should be discussed, indicating 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.

(17) Average height & width of the benches of the pits/quarries are missing, which should be furnished. Besides, the existing status of all the pits /quarries is given but the proposed status for the same during the ensuing modification period has not given, which should be furnished along with the location co-ordinates with proper plate reference for ease in monitoring. (Table No. 5.1) Likewise, the same for waste dumps & low grade stacks may also be furnished in table nos. 5.2 & 5.3 respectively.

(18) Proper heading for **Insitu Tentative Excavation** has not been furnished, instead separate two tables for the same has been given. However, on examination of the tables, the following observations are made: (i) For the period from 2018-19 to 2019-20, the proposed status of OB/SB/IB generation and production of iron ore has been furnished 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 iron ore & sub-grade material is missing and generation of mineral rejects is mentioned to be Nil. (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, sub-grade 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)

(19) Re-handling of dump-1 & 2, SG-2, 4, 5, 6 and 7 are proposed during the ensuing modification period but the location co-ordinates of such dumps are missing, which should be furnished. Besides, the percentage 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 either from NABL accredited laboratory or from Govt. Laboratory. (Table No. 5.8 & 5.9)

(20) The flow sheet for different products of iron ore has been furnished but the product specification is not matching with that of the annual returns submitted to IBM, thereby the mismatch should be reconciled. (Page No. Page No. 64 & 65)

(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/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 5.3(A)]

(22) What is represented by the resources of dump 1 & 2 as well as the low grade dumps is not understandable, instead capacity /quantities of such dumps to be furnished. Besides, an authenticated recovery test report for 60% recovery of +55%Fe may also be submitted for more informative.

(23) In the table furnished, under the heading details of ultimate dump, it is mention that, there will be no existence of dump-1 & 2 in the conceptual period, whereas the lease is valid upto 31.03.2020,thereby the status of such dumps by 31.03.2020 needs to be furnished and the table may be revised. Accordingly, corresponding incorporation/modifications may also be made in other relevant places of the document. [Para 5.9.3 (5)(b)]

(24) There are 30000 nos. of saplings are proposed in each year of the ensuing modification period but the location co-ordinates of such plantation should be furnished with proper plate reference for ease in monitoring. All should be presented in tabular form. (Para 5.9.4)

(25) 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 modification period is missing, which should be furnished by adding one more table No. 5.23 in the para under reference. (Para 5.12.5)

(26) The backfilling proposal for each year of the ensuing modification period has been furnished in tabular form but the location co-ordinates for such proposal is missing, which should be furnished by adding one more column in the table. Besides, certain conditions are proposed to achieve the backfilling proposal below the refer table, which is uncalled for and must be erased. (Table No. 5.24)

(27) The location co-ordinates of backfilling is missing in the referred table, which should be furnished by adding one more column in table for more informative. (Table No. 7.1, 7.4 & 7.5)

(28) The reclamation & rehabilitation proposal for the ensuing modification period has been furnished in the table given under reference, instead separate table for each year should be furnished and the para 11.3.1 may be revised accordingly. (Table No. 11.12)

(29) The proposed plantation schedule for each year of the modification period has been furnished in tabular form but the location co-ordinates of such plantation is missing, which should be furnished. (Table No. 11.14)

(30) The description of the plate nos. 6, 6A, 6B,7,7A & 7B furnished in the contents for list of plates is not matching with that of the plates submitted along with the document, thereby the plate description should be revised in such a manner that, both will match.

(31) All the plan & sections submitted along with the modification of mining plan should be certified by the Qualified Persons indicating that, **the plans and sections are prepared based on the lease map authenticated by the State Govt. of Odisha and found to be correct.**

(32) DRG No. 01 (Key Plan): The details of the deficiencies found on the plate are as follows: (i) This plate is pertain to the scheme of mining, instead the plate for key plan for the modification of mining plan need top be submitted. (ii) The index reference given for quarry is not matching with that of the plan portion of the plate. (iii) The population of villages falling within 5km radius of the lease area is missing, which should be marked on the plan & index reference for the same may also be furnished. (iv) Moreover, 25cm long scale has also not been marked on the plate.

(33) DRG No. 03 (Surface Plan): (i) The status of already drilled bore holes are not marked on the plan, which should be clearly depicted. (ii) The index reference given for old workings & vertver grass plantation is not matching with the plan portion of the plate. (iii) The pillar co-ordinates of all the lease boundary pillars have not been furnished. (iv) At least 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.

(34) DRG No.4 (Surface 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) The exploration proposal covering the entire lease area to the G2 level of exploration maximum upto 300m depth should be proposed, where the ore body has not been terminated and the same should be completed before 31.03.2019. Accordingly, necessary modifications /incorporations may also be made in Geology and Exploration chapter & any other places of the document.

(35) DRG No. 5A, 5B (Geological Sections): The mineralized area should be shown distinctly on geological plan and sections. Different level of exploration like G1, G2, G3 etc. in line with MEMC rule 2015 to be depicted on geological plan and UNFC codes should clearly furnished in sections.

(36) DRG No.12 (Conceptual Plan): Conceptual plan & sections should be furnished showing the details of mining activities upto the lease period & the plate may be revised accordingly.

(37) DRG No. 13 (Joint surveyed ML boundary map): (i) As per the contents for plates, the enclosed joint surveyed map is considered as DGPS lease map (ORSAC) but the same has neither been authenticated by the competent authority of ORSAC nor any letter from ORSAC enclosing the drawing has been submitted. Besides, the authenticated DGPS map of ORSAC also not been certified by state authorities for its acceptability. (ii) The mining lease has been granted and executed over an extent of 666.150ha but the so called ORSAC DGPS map has been prepared over an extent of 665.878ha, which is not matching with the extent of lease area. (iii) Further, the plate has not been geo-referenced as per the requirement of CCOM circular No. 2/2010.