



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/36-ORI/BHU/2020-21

Date: 05.03.2021

To
✓ Shri Tarun Kumar Khulbe, Whole Time Director,
M/s Jindal Stainless Limited
PO- Kaliapani, District- Jajpur, State -Odisha-755047.

Sub: Approval of Modification of Review of Mining Plan under Rule 17(3) of MCR,2016 of Jindal Chromite Mine of M/s Jindal Stainless Limited over an area of 89 ha. situated in Jajpur district of Odisha.

Reference : i) Your Letter No. JSL/KLPN/2021 dated 12.02.2021 received on 18.02.2021
ii) This office letter of even No. dated 18.02.2021.
iii) This office letter of even no. dated 18.02.2021 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 Modification of Review of Mining Plan along with Progressive Mine Closure Plan (PMCP) has been examined in this office based on site inspection dated 02.03.2021 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 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 Pen drive in a single MS Word file (the drawing/plates should be submitted in Auto CAD compatible format or JPG format in resolution of 100 x 100 pixels on same Pen drive)** with financial assurance under Rule 27 of MCDR 2017 of the Modification of 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 Modification of Review 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 Modification of Review of Mining Plan. It may be noted that no extension of time in this regard will be entertained and the Modification of 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

Copy for kind information and further necessary action to Shri Prava Ranjan Mishra, Earth & Environment, S-27, Chandralok Market Complex, Niladri Vihar, Chandrasekharpur, Bhubaneswar-751021.


(HARKESH MEENA)
Regional Controller of Mines

SCRUTINY COMMENTS ON EXAMINATION OF MODIFICATION OF MINING PLAN FOR JINDAL CHROMITE MINE OF M/S JINDAL STAINLESS LTD., OVER AN EXTENT OF 89.00 HECTARES, LOCATED IN KALIAPANI VILLAGE, UNDER SUKINDA TAHASIL OF JAJPUR DISTRICT OF ODISHA STATE, SUBMITTED UNDER RULE 17(3) OF MCR, 2016.

- (1) (i) In the front cover, the document has been submitted for modification of the mining plan, instead it should be mentioned as modification to the review of mining plan. Accordingly corresponding corrections/ incorporations may also be made at other places of the document. (ii) The lease period is stated to be from 04.01.2002 to 03.01.2052 but the copy of the lease deed for the said has not been submitted instead an addendum to lease deed has been enclosed as annexure-II could not spell out the validity of lease period for 50 years. Therefore, necessary modification/ incorporation may also be made at all the relevant places of the document.
- (2) Paging of annexure has not been done neither in the content side nor in the enclosure side, therefore, numbering of annexure pages are must. Besides, in the enclosure of the annexure, signature of the qualified person is missing, which must be signed by the qualified person.
- (3) The copy of the grant order enclosed as annexure-I is not clearly legible, thereby a fresh copy of the same should be submitted by replacing the enclosed one for more informative.
- (4) Only the copy of the approval letter of the review of mining plan, approved on 29.12.2016 has been enclosed as annexure-III, instead the approval letter of the mining plan/scheme of mining/ review of mining plan/modification of mining plan, approved in different occasions since the execution of the mining lease need to be submitted.
- (5) Many pages of the copy of the forest clearance enclosed as annexure-IV is clearly legible, thereby a fresh and legible copy of the same should be submitted.
- (6) The MoEF clearance enclosed as annexure-V is meant for enhancement of the capacity of COB plant and to produce the concentrate at enhanced rate but the aforesaid clearance for mining operation and production of ROM & waste from the mine has not been submitted, which should be furnished.
- (7) The consent order from State Pollution Control Board enclosed as annexure -VI has already lapsed on 31.03.2018 instead a valid order should be submitted replacing the enclosed one for ease in monitoring.
- (8) The signature of the geologist is missing in the Form I & J submitted as annexure -VII. Therefore authenticity of information /data enclosed along with such Form I & J is not acceptable.
- (9) The litho logs of the boreholes submitted as annexure-VII dose not bear the name of the analytical laboratory and not signed by any of the competent person; thereby such data is not acceptable. Moreover, the data should analyzed through the Govt. Laboratory or through NABL accredited laboratory. Besides, atleast 10% of the borehole should be analyzed through 3rd party NABL. Moreover, the covering letter Form J for borehole logs has not been signed by the designated geologist.
- (10) Shri Tarun Kumar Khulbe, Whole time Director of M/s Jindal Stainless Ltd., as indicated in the board resolution enclosed as annexure -XII but the copy of the list of the board of directors along

with their addresses, phone/fax/e-mail has not been submitted. Besides, the copy of the scan certificate of incorporation in favour of M/s Jindal Stainless Ltd may also be submitted.

(11) The ambient air quality analysis, flue gas, effluent, soil, surface water, noise level & vibration level monitoring reports for the last four quarters for the quarter ending March 2021 has not been submitted as annexure-XIV & quotation from consultant for the purpose is not acceptable.

(12) In the enclosed annexure-XV, the I.D proof of the qualified person is missing, which should be submitted.

(13) A copy of the valid Bank Guarantee for ensuing five year period has not been enclosed, which should be computed for the extent of area proposed to be used in different counts and furnished while submitting modified copies of the document.

(14) The copy of the explosive procurement license issued by the competent authority in favour of the applicant 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.

(15) No photograph in support of existing quarry, existing waste dump, boundary pillars, existing exploration, afforestation & rehabilitation etc. have not been enclosed and the same should also be submitted for ease in monitoring

(16) In case of individual or partner, a declaration/affidavit should be submitted to know whether he is working in other firms/company/organization etc.

(17) The valid reasons for submission of the modification of the mining plan is missing, which should be clearly indicated. Accordingly, necessary incorporations may also be made in other relevant places of the document. (Page No.3)

(18) No exploration has been proposed during the modification period, which is not proper. Therefore, the exploration proposal should be restricted only for the year 2021-22 as per the requirement of the MCDR, 2017. Accordingly corresponding changes may also be made in other relevant places of the document including the geological plan & sections. [Para 1.0(i)]

(19) The existing method of mining to be discussed indicating the dimension of the existing Quarries. Moreover, the location co-ordinates of such quarries may also be furnished. Besides, the existing status of dump /stack etc. if any may also be furnished. [Para 2.0(A)(a)]

(20) In the tables 30, 31 & 32, furnished under the heading **Insitu Tentative Excavation**: The following observations are made: (i) The proposed status of OB/SB/IB/waste generation, production of chromite & mineral rejects/sub-grade generation has been furnished in tabular form but the bench/RL of the excavation planning has not been given, which should be furnished by adding one more column in the table. (ii) The location co-ordinates of the proposed excavation planning for the mining lease block for each year also not furnished and the same may also be furnished in the table with proper plate reference. (iii) The grades of chromite, mineral rejects/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. [Para 2.0(b)(1)].

(21) Under the heading conceptual land use patter, an extent of 89.00ha is proposed to be degraded /utilised at the end of the life of the mine but the proposed status of land degradation /utilisation in different counts by end of each year of the ensuing modification period is missing, which should be furnished by adding one more table for ease in monitoring. (Page No. 33)

(22) UNDERGROUND WORKING: As on date, the mining operations are carried out by opencast working by forming separate benches in overburden and chrome ore zone following the existing ore bands. All of sudden, the proposal for working the mine by underground means beyond the financial year 2021-22 is envisaged but the reports on economic viability, rock strength, & stability and other underground aspects is not available. Without the above, scientific aspects, the proposal to start underground mining is not advisable. In view of the above, the chapter conceptual planning should be revised. (Page No. 33 to 39)

(23) Plate No. I (Key Plan): (i) The road marked with dotted double lines and double thick red lines are are for village road or mine road or public road should be specified. (ii) Population of village falling within the 5 km radius of the lease area is missing, which should be furnished. (iii) Direction of flow of river/nadi has not been marked, which may also be indicated. (iv) The index reference given for reserved forest and other type of forests has not been distinctly marked on the plan portion of the plate; the same may be furnished with forest density for ease in monitoring.

(24) Plate No. II (Lease Plan): The outline lease area has not been clearly demarcated on this plan, thereby necessary incorporations has to be made for ease in monitoring.

(25) (DGPS Map): (i) The DGPS & Geo referenced map certified by ORSAC has not been enclosed. (ii) The mining lease has been granted and executed over an extent of 89.00ha and the Geo referenced map has to be prepared over an extent of 89.00ha. (iii) Further DGPS map of the lease area should be certified by the State Govt. authorities.

(26) Plate No. III (Surface Plan): (i) At least three permanent ground control points beyond the lease area have not been selected, which should be done. Besides latitude and longitude of those ground control points should be furnished and the ground control points need to be linked with boundary pillars. (ii) Surveyor signature is missing, which should be signed by a competent surveyor.

(27) Plate No. IV (Geological Plan): (i) All the surface geological features and its litho units must be depicted both in geological plan & sections. (ii) As per the requirements 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 should be proposed and the same should be completed by 2021-22. Accordingly, necessary modifications/incorporations may also be made in Geology and Exploration chapter.

(28) Plate No. IV(A) (Geological Sections, Opencast): (i) None of the geological sections are matching with the features shown on the geological plan. (ii) Many of the litho units depicted on the plan are found to be not correct as per their locations. Accordingly, the plate submitted for all the geological sections may also be revised suitably. Besides, the geological sections submitted for underground is not necessitates now, there for need not be submitted.


(29) Plate No. VI(B) & VI(C): (Production & Development Plan & Sections, Underground): The plans & sections submitted for underground workings are uncalled for and must be detached. Accordingly, corresponding modifications may also be made in the relevant paras in which the issue of underground mining is discussed.

(30) Plate No. -VII (Reclamation Plan): Many of the proposed features given in the index is not matching with the plan portion of the plate, thereby the plate should be revised in such a way that, the features given in the index will match with the plan portion of the plate. Accordingly, the plates for progressive mine closure plan has to be submitted and financial assurance plan may be revised accordingly.

(31) Plate No. VIII (Environment Plan): On the plan, 500 meter of the lease area has been marked but the existing features available with in the 500 meters have not been marked.

(32) Plate-VIII (Conceptual Plan): Conceptual plan & sections should be furnished showing the of details workings upto the lease period.

(33) Plate No. X & X(A): (Conceptual plan & Conceptual sections, Underground): The plans & sections submitted for underground workings at conceptual stages are uncalled for and must be detached. Accordingly, corresponding modifications may also be made in the relevant paras in which the issue of underground mining is discussed.


05/03/2021

(G. C. SETHI)
Deputy Controller of Mines