



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. RMP/A/54-ORI/BHU/2020-21

Date: 05.03.2021

सेवामे

Shri Abhishek Rath, Nominated Owner,
M/s Real India Consultancy Ltd,
Plot No. 428/3818, Jaydev Nagar,
Nageswar Tangi, Near Panthanivas,
Bhubaneswar-751002

विषय: Approval of Review of Mining Plan of Asurabandha Chromite Mine along with Progressive Mine Closure Plan (PMCP), over an area of 91.827 ha in Dhenkanal district of Odisha State, submitted by M/s Real India Consultancy Ltd under Rule 17 of MCR, 2016.

- संदर्भ: - i) Your letter No. Nil dated 26.02.2021 received on 01.03.2021.
ii) This office letter of even no. dated 01.03.2021.
iii) This office letter of even no. dated 01.03.2021 addressed to Director of Mines, Government of Odisha copy endorsed to you.

महोदय,

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 carried out on 03.03.2021 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 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 USB Pendrive/Flash drive 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 USB Pendrive/Flash drive)** 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.

भवदीय,
8/3/21
(हरकेश मीना)

क्षेत्रीय खान नियंत्रक

Copy for kind information and further necessary action to Shri S.C. Nayak, M/s MINESKETCH Consultants (P) Ltd, Flat No-205, Bhagwan Tower, Cuttack Road, Bhubaneswar-751006.

(हरकेश मीना)
क्षेत्रीय खान नियंत्रक

SCRUTINY COMMENTS ON EXAMINATION OF REVIEW OF MINING PLAN FOR ASURABANDHA CHROMITE MINE OF M/S REAL INDIA CONSULTANCY LTD., OVER AN EXTENT OF 91.827 HECTARES, LOCATED IN ASURABANDHA VILLAGE, UNDER BHUBAN TAHASIL OF DHENKANAL DISTRICT OF ODISHA STATE, SUBMITTED UNDER RULE 17(2) OF MCR, 2016.

- (1) In the front cover of the review of mining plan, a mention has been made that, in view of the section 8A of MMDR Act, 2015, the lease period has been deemed extended for a period of 50 years upto 24.05.2065 but no such extension has been granted by the State Govt. so far, thereby the present lease period is valid upto 24.05.2035. Therefore, necessary corrections may be made at all the relevant places accordingly.
- (2) Shri Abhishek Rath, Director of M/s Real India Consultancy Ltd., has been nominated as owner of Asurabandha Chromite Mine as indicated in the board resolution enclosed as annexure -3 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 certificate of incorporation in favour of M/s Real India Consultancy Ltd., has not been submitted as required under the Companies Act 1956.
- (3) In the enclosed annexure-4, the ID proof and the address proof of the applicant has been furnished but the signature proof of the applicant is missing, which has been claimed in the content for list of annexure.
- (4) The copy of the approval letter of the mining plan, dated 05.11.2008 has been enclosed as annexure-6 but the same is not clearly legible, thereby a fresh & legible copy of the same should be submitted. Besides, the copies of all the approval letters of the mining plan/scheme of mining/modification of mining plan/review of mining plan if any, may also be submitted for ease in monitoring.
- (5) On examination of the copy of the forest clearance, enclosed as annexure-8, it is found that, many pages of such clearance is not legible, thereby a fresh and legible copy of the same should be submitted.
- (6) On examination of the MoEF clearance enclosed as annexure-9, the approved production quantities of chrome ore is indicated to be for 200000 tonnes per annum, whereas in the ensuing review of mining plan period the production planning is restricted only to 24000 tonnes per annum but the reasons behind such meager production planning for next five years has not been explained.
- (7) The chemical analysis report for chromite samples, dated 21.02.2018, 03.05.2018 & 15.09.2019 are enclosed as annexure-14 & 15 but the reports are very old, analysed long back, thereby fresh report for the same should be submitted replacing the enclosed one for ease in monitoring. Besides, the analysis report should be obtained from NABL accredited laboratory or from Govt. laboratory. If the analysis reports are from the cores of the borehole logs, then 10% of the borehole data should be analyzed through 3rd party NABL.
- (8) 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.

(9) 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.

(10) 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.

(11) 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

(12) The bulk density test report and the recovery test report for chromite ore has not been submitted. The same should be obtained either from NABL accredited laboratory or from Govt. laboratory and to be submitted along with the modified copies.

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

(14) The review of mining plan has been submitted for the period from 2021-22 to 2024-25 but the copies of the approval letters of the mining plan/scheme of mining approved in the past in different occasions have not been enclosed, which should be submitted.

(15) The proposed exploration in the form of boreholes has been furnished for the entire block period of five years from 2021-22 to 2024-25 in the para under reference but the holes are coring or non-coring type has not been specified. Besides, the location coordinates of such bore holes are missing and same may be furnished adding one more column in the table. Besides, 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)]

(16) The bulk density of the chromite is assumed for 3 tonne / cum., & the same for waste is assumed to be for 2 tonnes/ cum. but authenticated bulk density report for the same has not been submitted. Moreover, the grades of the chromite ore varies from 10% Cr₂O₃ to +20% Cr₂O₃ but the authenticated chemical analysis report in support of such grades have not been submitted. [Para 1.0(k)]

(17) Considering the revision of the data in para 1.0(k), the reserves/resources furnished in page under reference and also the supported calculation furnished in this chapter may also be revised accordingly. (Page No 24 & 25 and other places)

(18) The existing method of mining to be discussed indicating the dimension of the existing Quarry-1, Quarry-1A & Quarry-1B. 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)]

(19) In the tables 2.1, 2.2 & 2.3, 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)(I)].

(20) Under the heading reclamation land rehabilitation, an extent of 12.805ha 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 review of mining plan period is missing, which should be furnished by adding one more table for ease in monitoring. (Page No. 46)

(21) Plate-I (Key Plan): (i) The road marked with dotted double lines 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 has not been distinctly marked on the plan portion of the plate; the same may be furnished with forest density for ease in monitoring.

(22) Plate-IA (Lease map & Location Plan): The lease area has not been clearly demarcated on this plan, thereby necessary corrections to be made.

(23) (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 91.827ha and the Geo referenced map has to be prepared over an extent of 91.827ha. (iii) Further DGPS map of the lease area should be certified by the State Govt. authorities.

(24) Plate-II (Surface Plan): (i) At least three permanent ground control points beyond the lease area has 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.

(25) Plate-III(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.

(26) Plate-III(A) (Geological Sections): (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.

(26) Plate-V (Environment Plan): On the plan, 500 meter of the lease area has been marked but the existing features available within the 500 meters has not been marked.

(27) Plate-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 submitted for progressive mine closure plan and financial assurance plan may also be revised.

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

MS
05.03.2021

(G. C. SETHI)

Deputy Controller of Mines