



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 FMCP/FM/35-ORI/BHU/2018-19

दिनांक / Date: 30.08.2018

To

Shri M. D. Rustagi,
Director & Nominated Owner,
M/s Feegrade & Co. (P) Limited,
Rungta Office, Main Road, Barbil,
Dist-Keonjhar, Odisha – 758035.

Sub: Approval of Final Mine Closure Plan of Nadidih Iron & Mn. Mines over an area of 121.405 ha in Sundargarh district of Odisha of M/s Feegrade & Co. (P) Limited submitted under Rule-24 of Mineral Conservation and Development Rules, 2017.

Ref: - i) Your letter no. FEE/ED/GEO/2018-19/190 dated 13.08.2018 received on 21.08.2018.
ii) This office letter of even no. dated 21.08.2018.
iii) This office letter of even no. dated 21.08.2018 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 Final Mine Closure Plan (FMCP) has been examined in this office based on earlier site inspection carried out on 13.04.2018 by Shri Dayanand Upadhyay, Sr. Assistant Controller of Mines. The deficiencies observed are enclosed herewith as Annexure-I.

You are advised to carry out the necessary modifications in the draft Final Mine Closure 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)** 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 Final Mine Closure 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 Final Mine Closure Plan. It may be noted that no extension of time in this regard will be entertained and the Final Mine Closure 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 H S Biswal, Dr. S. K. Dash & Shri R. K. Sharma, Qualified Person, M/s Feegrade & Co. (P) Limited, Rungta Office, Main Road, Barbil, Dist-Keonjhar, Odisha – 758035.

(HARKESH MEENA)

क्षेत्रीय खान नियंत्रक / Regional Controller of Mines

Scrutiny comments on examination of FMCP (lease expiring on 31/03/2020)of Nadidih Iron and Manganese Mine, 121.405 ha of M/s Feegrade & Co. Pvt. Ltd.

GENERAL:

1. Any legal issues pending in connection with the lease or PIL/court cases etc should be mentioned under the statutory obligation. If any special conditions imposed or any directive issued or any statutory or prohibitory order passed by any authority or court of law; describing the nature of conditions, prohibitions and compliance position. The relevant document may be attached as annexure.
2. Annexures have not been enclosed as per guide lines of “ IBM Manual for Appraisal of Final Mine Closure Plan”. All the annexure to be properly numbered/paged and signed by the QP.
3. Recent photographs of pits, dumps, afforestation and reclamation and rehabilitation carried out should be enclosed.

Text :

4. Para-1.4, since the modification of review of mining plan has been approved on 30.12.2016, the review should be done for the year 2016-17 & 2017-18 only. The reason of deviation should be furnished in remarks column and proposal should in line of approved document. Para-1.4.29, compliance of violation pointed out has not been updated.
5. Para-2.1, briefly describe the topography and general geology indicating rock type available, structural feature, mode of occurrence etc.
6. Para-2.2.2, total nos. of bore holed drilled before 2015-16 have not been furnished.
7. Para-2.3, the balance mineral reserve/resources and their bifurcation of forest and non-forest area should be in line with the latest approved document. Para-2.4, the future exploration program to fulfill the provision of rule 12(4A) of MCDR 2017 has not been described. The present status of lease area in light of application of part surrender area to State Govt. may be furnished with documentary evidence.
8. The gist of proposed exploration may be given in the following table.

Year	Number of BH proposed			
	Diverted forest area	Non-diverted forest area	Non-forest area	Total
2018-19				

9. Para-2.4, Brief details regarding preservation of cores obtain while exploration within the lease area should be given. No cores should be destroyed without the permission of Chief Controller of mines. As per rule 63(4) of MCDR 2017, the cores should be stored serially with suitable indexing and cataloguing and shall insure submission of cores as per the manual issued by GSI from time to time.
10. Para-3.1 to 3.3, the yearwise excavation of ROM, clean ore, mineral reject, fines and handling of OB as furnished for the year 2018-19 & 2019-20 should be in line with the modification of mining plan, approved vide letter no. MPM/FM/24-ORI/BHU/2016-17, dated 30.12.2016.
11. Para-4.1, the details of dumps/stacks available at the mine site as furnished in tabular form should be as per modification of mining plan approved on 30.12.2016.
12. Para-4.2, 4.3, 4.4, the generation of mineral reject and its utilization and storage not correctly furnished as per guidelines and it is not matched with the modification of mining plan approved on 30.12.2016.
13. Para-5.1.1, the proposal to be implemented for reclamation and rehabilitation of mined out land has not been described with yearwise plantation to be carried out over backfilled area. It should be insured that sequence of backfilling should be same as per original sequence of the litho units occurring in lease area.
14. The proposals may be supported with yearly plans and sections depicting yearly progress in the activities for land restoration/reclamation/rehabilitation, afforestation etc called “Reclamation Plan”.
15. Para-5.1.2, describe the proposals to be implemented for securing the excavation/pits/mineralized dump or mineral rejects stacks/fine stacks by means of fencing etc. Explain the safety measures implemented to prevent access to surface openings, excavations etc. The lessee should ensure fencing of any excavation endangering fall of persons/cattle etc in terms of rule 26 of MCDR2017. The proposal may be supported with yearly plans and sections depicting yearly progress in the activities for protective measures like fencing etc called “Reclamation Plan”.
16. The dumps A & B, C and manganese dump should be proposed with extension of retaining wall and garland with settling tanks with proper terracing and stabilization of slope. The slope of the dumps should be proposed for fully

- stabilised by plantation along with retaining wall and garland drain. The proposed and existing retaining wall, garland drain and settling tanks should be clearly marked yearwise on reclamation plan.
17. Para-5.1.3, the details of existing afforestation and over virgin area plantation to be proposed over backfilled area has not been furnished.
 18. Para 5.1.5, it has been observed that karo river is flowing in eastern part of ML and the preventive measures to be taken has not been described. A mine drainage plan indicating direction of flow of water and their accumulation may be furnished.
 19. The details in tabulated form comprising location (core and buffer zone), grid reference, parameters of monitoring, frequency of monitoring etc. to be submitted for proposed water monitoring stations.
 20. Para 5.1.6, describe the existing air quality status. The mitigative measures to be taken for prevention of pollution of air from airborne dust particles shall be described. The information of the air quality monitoring station to be furnished for both core and buffer zone.
 21. Para 5.1.7, describe the type and quality of Waste/overburden and mineral reject dumps available and their disposal practice. The protective measures to be taken for prevention of siltation, erosion and dust generation from these waste materials should also be described.
 22. The details of plantation proposed over waste dumps to establish dead slope of the dumps to be given in tabulated form comprising dump number, grid reference, area proposed, number of sapling, year of proposal.
 23. Para-5.1.11, the details of existing infrastructure available in the lease area should be furnished in tabular form and their present value after depreciation. Further their future utilization should be evaluated on case to case basis. The decommissioning cost and final value of the decommissioned infrastructural facilities if any may be furnished. Para-5.1.12, decommissioning of mining machineries and their possibility of post mining utilization if any may be described.
 24. Para-5.1.13, disaster management and risk management has not discussed as per guidelines.
 25. Para-5.1.14, the economic repercussions due to closure of mine has not been explained properly. Envisaged repercussions on the expectation of the society due to closure of mine. Number of local residents employed in the mine, compensation, satellite occupations should be describe considering the impact of closure of mines.
 26. Para-5.1.15, time scheduling for closure of mines considering the activity like waste dump management (Garland drain, retaining wall, settling tanks plantation), safety and security (fencing of pits, dumps etc), Disposal of machineries, reclamation & re-habilitation, infrastructure, protective measures of environment should be furnished and to be shown on reclamation plan.
 27. Para-5.1.17, the post closure cost of watch and care, security and supervision has been not furnished item wise.

Plates:

28. All plans and sections should be signed with date by certified Surveyor, Qualified Person, Mine Manager and Mining Geologist. Wind rose diagram in key plan & Env. plan has not been furnished. Date of observation magnetic meridian and declination has not been furnished in relevant plans.
29. An updated surface plan with latitude, longitude of all corner pillars should be furnished. Few pillars may be correlated with some permanent ground features with distance & bearing. Forest, non-forest, surface right & bore holes have not been furnished.
30. The modification of mining plan, approved vide letter no. MPM/FM/24-ORI/BHU/2016-17, dated 30.12.2016, the proposals as furnished should be in line with the approved modification of mining plan.
31. An updated Geological plan and sections considering the exploration proposals should be furnished. The geo-structural information like strike, dip, dip-direction etc to be shown clearly.
32. Different level of exploration like G1, G2, G3 have not been furnished as per MEMC rule 2015 on geological plan. UNFC codes and mineralized zone should be clearly furnished in sections. The profiles of geological sections are not matched with geological plan.
33. The geological information, existing bench RL, Bore holes, mineralized zone have not been furnished in development plan and profile of development sections not matched geological section and development plan.. The development plan and sections should in line with the approved plan and section
34. Proposals of land restoration/reclamation/rehabilitation, afforestation, waste dump management, safety and security etc should be depicted in Reclamation Plan yearwise with different colour codes. The engineering drawing of proposed fencing wall with measurement and sketches of retaining & garland wall, settling pond should be furnished.
35. Environment Plan, natural drainage systems such as water course, streams, nalla, river, Forest with tree density, waste land, agricultural land, grazing land and surface features in buffer zone should be shown. Contour within zone of 60m from ML boundary has not been shown.