

GOVERNMENT OF INDIA
MINISTRY OF MINES
INDIAN BUREAU OF MINES

Office of the Regional Controller of Mines

No. AP/NLG/MP/Lst-21/Hyd

C.G.O. Towers, 6th floor,
CGO Complex, Kavadi guda,
Secunderabad - 500 080

Date: 5-11-2018.

To
Shri Krishna Srivastava,
Nominated Owner,
Krishna Nagar,
Yerraguntla, Kadapa District,
Andhra Pradesh

Sub: Submission of Review of Mining Plan in respect of The Sitapuram Limestone Mine (Lease-II) over an extent of 558.71 ha in of Donnapadu, Ramapuram & Revooru (V) Mellacheruvu (M), Suryapet district, T.S. submitted under Rule - 7(2) of MCR, 2016.


Ref: Your letter no nil, dated nil received in this office on 12.10.2018.

Sir,

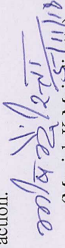
With reference to your letter cited above on the subject the site inspection was carried out by Shri S.K. Muduli on 30.10.2018 along with Shri P.R. Mishra, QP and found certain deficiencies as given in Annexure. The same scrutiny comments have already been forwarded on e mail id of you and your Qualified Person nipr1100@gmail.com & earth_environment2008@yahoo.com as submitted in the document.

02. You are advised to attend the deficiencies as per the annexure and resubmit the document, complete in all respects, in three bound copies along with soft copy in the form of CD (2Nos.). In this regard you are directed to submit the Financial Assurance in the form of Bank Guarantee for the area put on use for Mining and allied activities @ Rs. Three lakhs/hectare for category 'A' mines provided that the minimum amount shall be Rs. Ten lakhs and @ Rs. Two Lakhs/hectare for category 'B' mines provided that the minimum amount shall be Rs. Five lakhs as per the provision of Rule 27(1) of MCDR, 2017 at the time of submission of final copies of the document within 15 (fifteen) days from the date of issue of this letter, failing which the document will be disposed without giving any further opportunity.


03. The para-wise clarification & the manner in which the deficiencies are attended should be given while submitting modified document.

Yours faithfully,

(Manish K Maindiratta)
Deputy Controller of Mines
for Regional Controller of Mines

Copy to Sri P.R. Mishra, QP Earth and Environment, S-27, Chandralok Market, Niladri Vihar, Chandrasekharpur, Bhubaneswar 751 021 for information and necessary action.


(Manish K Maindiratta)
Deputy Controller of Mines
for Regional Controller of Mines

मूल प्रति पर नहीं
खान नियंत्रक (द), भारतीय खान ब्यूरो, बंगलुरु।


(Manish K Maindiratta)
उप खान नियंत्रक
कुते क्षेत्रीय खान नियंत्रक

INSPECTION REPORT CUM SCRUTINY COMMENTS ON MODIFICATION OF MINING PLAN OF SITAPURAM LIMESTONE MINE/LEASE-II OF M/S ZUARI CEMENT LIMITED OVER AN AREA OF 558.71 HECTARES IN DONDAPADU AND REVOURU(V), MELLACHERUVU MANDAL, SURYAPET DISTRICT IN THE STATE OF TELANGANA, DOI-30th & 31st Oct 2018

General

1. The survey nos as mentioned in Form-C and lease sketch authenticated by the ADMG-Miryalguda are not matching with the other. Thus a lease sketch duly authenticated by the state DMG be submitted and all the plans be prepared based on authenticated lease sketch.
2. Reason for modification to the modified mining plan be submitted with due justification.
3. Name of the nominated owner be mentioned in the space provided for name of the lease holder. Also board resolution for appointment of the nominated owner be submitted along with the list of board of Directors be submitted. The document and the certificates be signed by the nominated owner.
4. The status of lease period extension for a period of 50 years and supplementary lease deed execution be submitted.
5. Submit the details of last 5 approved mining plan. / scheme of mining /review of mining.
6. All the GCP be shown in the surface plan mentioning their co-ordinates. Further date of survey be mentioned in the surface plan.
7. Details of the company registration and other details be furnished.
8. During inspection it was observed that M/s Zuari Cement Limited is part of Heidelberg Cement Group and as per the lessee's representatives there is no change in respect of M/s Zuari Cement Limited. In this regard documentary evidence be submitted.
9. The installed cement plant capacity vis a vis environmental clearance (EC) and limestone requirement from both the mines be discussed with proper justification.
10. The details of environmental clearance (EC) of plant and mine have not been furnished. Details of CFE and CFO should also be furnished in the introduction chapter.
11. Annexures are not numbered correctly.
12. In the manpower proposal Geologist be proposed (Table no-36).

Review

13. Review be submitted from 01st Oct 2016-31st March 2017, 2017-18 and from 1st April 2018 to 31st Oct 2018.
14. The review of exploration proposal for the year 2017-18 is not submitted correctly as in the column for nos of core bore hole proposed to be drilled is shown as 21 instead of 40. Further as per annual return for the year 2017-18 a total of 24 nos bore holes have been drilled for a total meterage of 810m but in the review submission has been made for only 24 nos of core bore holes for a total drilling meterage of 672 m. The variation be clarified and reason for short fall in exploratory drilling be mentioned.
15. Review of environmental monitoring be submitted year wise, location wise for air, noise, water. Also the review of topsoil generation and environmental protection measures be submitted.
16. Review of violations be submitted correctly.

Geology

17. Source of rain fall, temperature data be submitted.
18. In the local geology the local lithological succession has not been discussed with average grade of different type of limestone occurring within the lease. Thus the local lithological succession be established on the basis of exploratory drilled BHs. Further average grade of different type of limestone occurring within the mining lease be submitted and chemical analysis report be submitted thereof.
19. Entire lease area be mapped geologically in 1:1000 scale by carrying out outcrop sampling and chemical analysis.

20. Details like Co-ordinates, Collar level, Depth of all the drilled bore holes along with summarized litho logs and average grade be submitted.
21. Bore hole wise exploratory samples details along with sample analysed by NABL accredited lab be submitted in tabular form. 10% of the check samples should be analysed by NABL accredited laboratory. The NABL accreditation certificate be submitted. exploratory sample analysis along with NABL accreditation certificate be submitted.
22. Reason for redrilling at earlier drilled core bore hole locations of BH no- S91, S86, S87, S89 be justified either wise recently drilled BHs will not be considered.
23. During inspection position of exploratory Core drill hole PR-48, PR-51 wrt nala in field are not matching with the position as shown in the geological plan, which be verified and clarified. Lithologs of PR-54, PR-176 be submitted. During inspection it was observed that the bore hole location and collar level has been taken by using GPS. As GPS is having +/- 3 to 5 m accuracy. The bore hole points be surveyed by total station and BH co-ordinates and collar levels be submitted. Details like Co-ordinates, Collar level, Depth of all the drilled bore holes along with summarized litho logs be submitted.
24. The exploration proposals submitted in the draft modification of mining plan are less and not matching with comparison to the exploration proposal approved in the last approved modification of mining plan. The exploration proposal be revised considering the safety zone only. Further the reduced exploration proposal be justified properly.
25. Lithologs of BH is not matching with the BH cores thus necessary correction be done as suggested. Dark grey limestone (DGL) is high grade limestone having $\text{CaO}\% > 44\%$ to 47% but in lithologs the low grade limestone (LGL) of $\text{CaO}\%$ around 37% is shown as DGL which be mentioned as LGL having bands of DGL.
26. Further part of the lease area is still not explored thus Exploration proposal be submitted to explore the entire mineralised area in G1 level of exploration as per rule 12(4) of MCDR-2017.
27. All the bore hole lithologs be signed by the Geologist Incharge for the exploratory operation.
28. Cut off grade of limestone has been submitted as $\text{CaO}\%$ of 40% and $\text{SiO}_2\%$ of 18% , whereas as per the exploration done there exists limestone even upto the grade of declared thresh hold value. Thus the sub grade/mineral reject generation, its stacking and utilization / blending be proposed year wise.
29. The level wise explored area be shown in the Surface Geological plan.
30. The UNFC axis wise justification be furnished as per the guidelines of UNFC.
31. In the Geological axis justification Level of exploration be submitted by mentioning the grid spacing, no of bore holes falling in each level with bore hole type and drilling meterage.
32. In the feasibility axis justification the economic viability, Environmental issues be addressed.
33. In the reserves/resources table weighted average grade be submitted.
34. Strike and dip direction, dip angle be measured at different locations within the mining lease and demarcated in the Geological plan.
35. Meter wise $\text{CaO}\%$ be submitted for each of the bore hole.
36. The UPL decided be justified wrt exploration and pit slope.
37. The geological section are not drawn correctly like PP', QQ', RR' geological sections. The lithologs, geological plans and sections are not matching with each other. The sections need to be updated as per the drilled bore holes. Necessary corrections be made. The year wise production and development sections be prepared as per the corrected geological section.
38. The mineral resource/reserves need to be assessed/estimated and categorized correctly as per the MEMC Rules-2015. The grade range and the weighted average grade of different litho units and the deposit need to be established correctly.

Mining

39. Submit the plant capacity and the limestone requirement for the plant. The maximum approved capacity of the feeding mines as per mining plan and the proposal during the next five years from feeding mines. The production capacity should match with the plant capacity and accordingly the Limestone supply from both the mines be submitted.

40. The area of mining from 1st Oct 2018 to 31st March 2019 be demarcated in the surface plan and in the geological and year wise production and development sections. The proposed production quantity be mentioned in the text.
41. The justification for requirement of mining machineries be justified more elaborately. Further the drilling machine requirement be calculated on the maximum quantity of production proposed.
42. Proper justification be submitted for enhancing the production from 6 Lakhs tonne on an average (2018-19 to 2020-21) of the plan period to 10 Lakhs tonne in 2021-22. The enhancement in production be proposed progressively instead of sudden.
43. The Section wise, bench wise weighted average grade of proposed mining block for each year needs to be furnished and the mechanism for the grade control for optimum utilization of mineral along with blending techniques needs to be furnished. Bench parameters needs to be mentioned.
44. In the year wise production development plan the area to be mined be shown by colourful lines and arrows showing direction of bench movement with mentioning RL (from-to) to be mined.
45. The Year wise Production and development section be drawn on the same section line as in the case of the geological section. Further the year wise working sections to be mined be mentioned correctly in the year wise development tables. Further year wise Development section be furnished.
46. In the year wise development plan the approach to year wise bench development be shown and the area to be developed year wise be marked with mentioning the year and from (mRL) - to (mRL).
47. Year wise Fencing surrounding the working pits be proposed.
48. In the conceptual mine planning chapter under sub head post mining land use pattern the land use for water body is submitted as 30.55 Ha which is not in consonance with the conceptual plan submitted and be justified.

Mine Drainage

49. Environmental protection measures to control surface run off within the lease and surface run off into the working pit be proposed and shown in the reclamation plan.
50. Year wise sump planning be proposed as per the requirement of water for dust suppression and development of green belt with co-ordinates, dimension, capacity has not been furnished in text and shown in plan.
51. Rain water harvesting structure be proposed.
52. The authenticated meteorological data be furnished for HFL level.
53. The information pertaining to water table be supported with documentary evidence.
54. Hydro Geological study be proposed to be carried out indicating the water table, water inflow into the mining pit, water withdrawal, water balance, pumping requirement.

PMCP

55. Base line environmental information be submitted as submitted in the application for environmental clearance.
56. Plantation be proposed in the safety zone area surrounding pit-1 and also perpendicular to the prevailing wind direction and the proposal be marked in the reclamation plan.
57. Ambient Air quality, water and noise monitoring station be shown correctly in the key plan as proposed in the text.
58. Last quarter environmental monitoring report be submitted.
59. The land use pattern submitted in the draft document is on lower side even to that of details submitted the annual return (H-8) for the year 2017-18. The crusher and colony area have not been considered while calculating the bank guarantee amount. The net area considered for calculation of financial assurance/bank guarantee amount is less than the actual. Thus additional bank guarantee be submitted.

Plans

60. All the plans and sections be prepared as per rule 34(2) of MCDR-2017.
61. Existing features located within 500m from the lease boundary be shown in the environmental plan.

