

Inspection report cum Scrutiny comments on the Modified Mining Plan submitted by M/s NCL Industries Limited for Matapalli limestone mine over an extent of 46.356 hectare in Mattapalli village Mattampally Mandal, Nalgonda Distt. Andhra Pradesh after field inspection dated 23/11/2017 and 24/11/2017.

Introduction

1. Consent letter in favour of qualified person nominated owner on the letter head pad be submitted.
2. The repetition of information be avoided as it causes the incongruity in submission .
3. In the introduction chapter submit the present installed capacity of the plant, the limestone requirement based on conversion factor viz-a- viz the present approved mining plan capacities of feeding mines and the proposal hereunder in this mine in line with the submissions in the other dependant mining plan. The status of environment clearance obtained be recorded. While doing so the repetition of data be avoided. This data be submitted in tabular form.
4. It has been observed that the state Government vide GOMs No 65 dated 24.08.2017 has increased the lease period upto 13.10.2030, as such the lessee has submitted the document as Modified mining plan should be recorded under the appropriate head only.
5. The existence of road and railway connectoivity be discussed properly stating the nearest town on highway fro, from where the lease is at a distance of 40 km.
6. When the state government has certified the boundary pillar coordinates and the document has been prepared on the basis of it, it should be recorded accordingly. It has been made to understand that the Clarify whether the distance of the GCP from the nearest pillar are surveyed using conventional survey equipments or are calculated using GPS coordinates. If it has been done using GPS coordinates, the same cannot be recorded as correct.

Review of Mining Plan

7. The NABL accredited lab report of the borehole undertaken in last scheme period be submitted along with the lithologs in Form J.
8. Survival rate of plants be submitted in Review of plantation and the area under plantation be corrected. Further it has been noticed the plantation was proposed to cover the entire 7.5m barrier zone in the previous scheme period. However the lessee has under taken plantation in an area which is in the UPL. Hence corrective measures be proposed accordingly.
9. The heading for para 3.6 be noted correctly.

Geology

10. Surface plan be corrected to show the concrete waste dumped inside the lease which has been brought inside the lease without any permission.
11. It has been noted that most of the lease area has been broken; so the submission that no vegetation in lease area except plantation done by lessee is incorrect and be removed.

12. The previous grid lines on which the plates were made have been changed which need to be kept as it is or justify the reason for change in grid and how the previous and new grids are linked.
13. For reserve and resource calculation; it has been noticed that the total mineral resource assessment was done considering entire limestone as one unit and on the basis of analysis, the siliceous/ argillaceous portion, low grade white limestone was plotted and resource assessment was done accordingly. Now the geological data has been analysed lithounit wise. The resource should have been continued with same concept unless there is a specific need for it. The previous system be continued.
14. The geological sections which have been constructed earlier should only be updated and total mineral resource assessment should be done accordingly. The classification as proved probable mineral reserves and remaining resource should be done considering the cut off grade of plant, cut off grade for this mine and threshold value of limestone.
15. The weighted average grade be updated by clubbing the previous data with it.
16. Instead of specific gravity, the bulk density (insitu) should be assessed based on the field test and submitted for reserve/ resource calculation.
17. The total mineral reserves assessed as per last approved document may also be recorded.
18. Justification as per MEMC Rules be corrected accordingly. The feasibility report be corrected as well with proper calculation of economic viability and costings etc.
19. The geological Plan and sections be corrected, matching with each other and total mineral resource need to be assessed correctly and classified as per MEMC rules.
20. The weighted average grade of the reserves and resources be submitted.

Mining

21. In The mining proposal, yearwise weighted average grade should be kept as close as possible to the weighted average grade of the deposit and cut off grade of the mine , so as to have optimum utilization of mineral and meager/no subgrade generation. It is advised to keep the working in lower benches and top benches be used for blending only.
22. The benchwise advancement should be marked with reference to the present position, as on date of survey.
23. Yearwise proposal has been
24. Year wise Development (plan and Sections also):. The benchwise 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 maintained in the text as per approved plan.
25. The information regarding ground water table be submitted as per the peizometer data/ wells in the area. Clarify whether the peizometer has been installed in the area or not. Else proposal be given accordingly.
26. The mining proposal be given in line with the approved mining plan quantity and cut off grade of the feeding mines to maintain the cut offgrade of the plant. Submit the targeted grade for this plan as well.
27. Cut off grade has been submitted in the present submission on page 26 as 35% CaO which seems in correct and needs to be relooked.
28. The Yearwise top soil generation planning be given as

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| <u>TOPSOIL EXCAVATION PLANNING</u> |
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| Year | Operating Gridline | Operating Levels | Area in M ² | Thickness in Mt | Volume in M ³ | |
|---------------|--------------------|------------------|-------------------------|-----------------|------------------------------------|-------|
| Bench No. --- | | | | | | |
| Year | Operating Gridline | Operating Levels | Area in Mt ² | Thickness in M | Volume in cu m and Quantity in MT. | Grade |

29. Table 23 be corrected. The yearwise Limestone generation benchwise be assessed as

30. Column charge be submitted correctly.

31. Plan and sections need to be corrected as comments regarding lithounits.

32. Conceptual Mine Planning need to be corrected to show the status of the lease at the end of the lease period. UPL be marked. Life of the mine viz-aviz lease period be analysed. In the head excavation , assess the size of the pit at the end of lease period.

33. The changes in the conceptual plan in light of the scrutiny comments be undertaken.. Conceptual plantation be discussed as well.

Progressive Mine Closure Plan:

34. In para 8.1, The base line data , as collected at the time of Environment clearance be submitted as per MoEF/IBM guidelines.

35. In para 8.2, submit the impact assessed during the last 5 years. Clearly submit whether the observations were within the permissible limits or not. Also submit the environment management proposals.

36. In para 8.3, the tab les be corrected in line with the scrutiny comments.

37. regarding reclamation plan, table 49 , topsoil management be corrected as per scrutiny comments.

38. In para 8.3.5 yearwise proposal for reclamation has not been fille . Needs correction. The gfarland drain and retaining wall be proposed at the toe of top soil dump as per requirement . The reclamation proposal be shown on the reclamation plan.

39. If due to aforesaid changes, the data in other chapter or plates changes, they may please be corrected accordingly and also ensure the consistency of the data submitted in various chapters of the document.