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खान मंत्रालय/Ministry of Mines
भारतीय खान ब्यूरो/Indian Bureau of Mines
हैदराबाद क्षेत्रीय कार्यालय/Hyderabad Regional Office



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Date. 29.07.2019.

To
Ms.Lakshmi Apama Sreekumar, Nominated Owner,
Coromandel Limestone Mine,
M/s The India Cements Ltd.,
Chilamkur Village, Yerraguntla Mandal,
YSR Kadapa District -516310 (A.P.)

Sub: Submission of Modified Mining Plan in respect of Coromandel Limestone Mine of The India Cements Limited over an extent of 602.137 Hc. in Chilamkur Village, Yerraguntla Mandal, YSR Kadapa district, Andhra Pradesh submitted under Rule 17(3) of MCR, 2016.

Ref: Your letter No.ICL/CCP/MINES/IBM/2019-20/12 dated 27.06.2019.

Sir,

With reference to your letter cited above on the subject, the scrutiny of the draft modification of Mining Plan has since been examined based on the previous inspection carried out by Shri S.K.Muduli, JMG, of this office on 17.04.2019 and found certain deficiencies as given in Annexure. The same scrutiny comments have already been forwarded to you and your Qualified Person on respective e.mail ids i.e., ccp_mines@indiacements.co.in.

02. You are advised to attend these 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 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 forwarding modified document.

Yours faithfully,

Enc: As above.

(Shailendra Kumar)
Regional Controller of Mines

Copy to Shri M.Venugopal Reddy, Q.P .

(Shailendra Kumar)
Regional Controller of Mines

मूल पति पर नहींकः
खान नियंत्रक (द), भारतीय खान ब्यूरो, बेंगलुरु।

(शैलेन्द्र कुमार)
क्षेत्रीय खान नियंत्रक

SCRUTINY COMMENTS ON MODIFIED MINING PLAN IN RESPECT OF COROMANDAL LIMESTONE MINE (602.137 Ha) OF M/s INDIA CEMENTS LIMITED LOCATED AT CHILAMKURU VILLAGE, YERRAGUNTALA MANDAL, KADAPA DISTRICT OF ANDHRA PRADESH STATE AFTER INSPECTION DATED 17TH & 18TH APRIL 2019

Introduction

1. The reason for modification in approved mining plan for augmentation of clinker plant capacity and therefore Limestone production capacity from the mine must be substantiated by Board of Director's resolution for the proposed investment.
Besides the above, the copy of Terms of Reference (TOR) issued by MOEF for submission of modified mining plan for augmented capacity for plant and mine should be submitted.
2. Since, production of 2 MTPA of Limestone in the year 2019-20 is already approved in the last approved document; there is no need of modification in the production plan for the year 2019-20.
3. Experience certificate of qualified person be enclosed.
4. All the GO Nos & Proceeding Nos with period towards grant, transfer, renewal of the mining lease starting from the initial grant to be submitted in a sequential manner. The GO and Proceeding towards lease period extension upto 50 years to be mentioned and annexed.

General

5. Copy of lease sketch showing DGPS surveyed boundary pillar co-ordinates authenticated by competent authority of state Government should be furnished along with DGPS survey report.
6. Further work experience certificates, certificate towards educational qualification be submitted. Certificate of the qualified person be prepared in a plain paper, signed and submitted.
7. The lease area be connected to the national grid and Bench mark be established and its co-ordinates and level be submitted. Plans prepared on local grids with local co-ordinates be also assisted by UTM co-ordinates (WGS 84).
8. Proposal be submitted to maintain safety zone as per statute all along the cart track.
9. Year wise proposed plantation location (co-ordinates) be submitted.

Review of Mining Plan

10. Review of earlier approved PMCP work to be submitted. Review of reclamation and rehabilitation reported in south block is not acceptable.
11. Compliance of status of violation pointed out by IBM be submitted correctly.

Geology and Exploration

12. Drainage pattern be mentioned in the text. Source of temperature and rain fall data be submitted.
13. Phase wise exploration carried out in the lease area should be furnished in tabular form mentioning the year of drilling. As well as the details of all the bore holes drilled be submitted in tabular form incorporating collar RL, Coordinates, Litho and assay details. Further summarized lithologs of bore holes giving depth, lithology and average grade to be enclosed. All the meter wise bore hole lithologs to be submitted dully signed by the concerned Geologist under whose supervision the exploration has been carried out. Bore hole lithologs in respect of bore holes drilled in SW part of South block in between GG' to NN' section line be (low grade limestone) area are not logged properly as the reason for low % of CaO is not mentioned hence the meter wise logging be done again. Samples to be cross checking by NABL laboratory and details thereof be submitted.
14. Geological features like strike and dip of the formation be demarcated in the Geological plan.
15. Geological cross section be also submitted in 1:2000 scale and 1:1000 scale.
16. While estimating reserves/resources, mineralised zone above Ground water table (as per EC condition) be considered for estimation under Reserves and mineralised zone below the Ground water table (as per EC condition) be considered for estimation under Resources. Different type of Limestone and Lithologies to be shown in Geological plan. GW table and UNFC category be marked correctly, different type of Limestone and Lithologies to be projected correctly in each Geological cross section, year wise production development section and conceptual section. The original ground profile before start of mining operation be shown in dotted line in Geological cross section, year wise production development section and conceptual section. Proposed bore holes be marked in the Geological cross section.
17. No of bore holes are terminated in the ore body itself and exploration is also stopped at G2 level in the lease area (both North & South Blocks). As per the provision of rule 12(4) of MCDR, 2017

entire lease area has to be explored considering the present threshold value under G1 level by 2022, accordingly future exploration proposal should be submitted. The proposed bore hole location and scale of exploration wise area be shown in the surface geological plan. Proposed bore holes details be furnished in tabular form incorporating year of drilling ,Type of bore hole, BH No, Co-ordinates, Depth of drilling, Extent of Potential mineralised area be furnished in the text and demarcated in the Geological plan.

18. NABL accredited laboratory sample analysis reports towards exploratory sample analysis for atleast 10% of the total sample drawn along with NABL accreditation certificate be produced in original for verification and the BH wise no of samples collected with no of samples analysed from NABL laboratory and its percentage be furnished in tabular form.
19. Following parameters be considered for reserve estimation Ultimate Pit Limit, Cut-off grade and revised threshold value, Ground water table, Safety zone for railway line and cart track road, Recovery based on past experience on time series data. The reserves / resources needs to be re-estimated on the basis of new threshold value of limestone published by IBM and the categorization of reserves and resources need to be reassessed correctly as per MEMC Rules-2015.
20. Section wise weighted average grade of ore should be furnished for computation of reserves/ resources. Further resources below cut off grade and above threshold value should also be estimated and furnished.
21. Details of exploration carried out and resources estimated should be furnished in the tabular form as below

Details of Explored Area				
Level of Exploration	Area Explored	Resources	Grade	Unexplored area
G1 level Area(Ha)				
G2 level				
G3 level				

22. UNFC justification be submitted separately for Economic axis (E1, E2, E3), Feasibility axis (F1,F2,F3), Geological Axis (G1,G2,G3,G4). In the feasibility axis costing, economic viability be justified properly. In the environmental issue column details of environmental clearance & CFO with capacity be furnished. Costing be submitted as per the format of annual return.

Mining

23. The mine proposal has been given based on surface plan updated on 31.03.2019.The proposal be submitted on surface plan updated on 30.06.2019.
24. Feasibility report for the mine should be submitted as per the format of Part-V of MEMC Rules-2015.In the feasibility report supply and demand analysis in respect of cement be given for future period. Economic viability of the project for proposed increase in production be justified in the feasibility report.
25. All the mining proposals be proposed above the ground water table such that the GW table will not be intersected. Hydro geological study carried out in respect of the mine to be submitted.
26. Status of mining operation at present should be furnished in tabular form incorporating quarry dimension, no. of benches in ore, extreme co-ordinates, existing waste and top soil dump details like dimension, top and bottom RL, no. of terraces with location details.
27. Safety zone be marked all along the cart road and no mining and allied activities be proposed within the safety zone of the cart track road.
28. Year wise mining proposal should be proposed in such a manner that mining operations has to be commencing from one end of mining pit to other end, thus proposal be submitted to mine out the intermediate benches.
29. Year wise water sump planning be submitted in text and development plans. Details like co-ordinates, dimension of water sump be submitted. Water sump be proposed at corner of mining pit either wise proper justification be submitted for locating at other location within the mining pit.
30. Backfilling be proposed in case of complete exhaustion of ore and for attaining to the level of the original ground profile which was there before the start of mining.
31. In the layout of mine working amount of advance to be made length wise, width wise, height, co-ordinates, Bench no and level, direction of movement, Volume has not been furnished. The pit road layout be shown on the plan and sections. The year wise production and development plan be prepared on plans updated as on 30.06.2019 and the backup calculation for year wise production and development be corrected as per the new survey. Further the ore: waste handling need to be submitted. The method of calculating area & volume to be mined to be submitted.
32. The bench wise weighted average grade of proposed mining block for each year be furnished.

33. Further Top soil dumping along the safety zone of railway line, cart track and road should not be done. Top soil spreading of 0.5m to 1m is only allowed within the safety zone of railway line, cart track and road is allowed only for plantation purpose.
34. Study should be carried out by institute of national repute pertaining to 'impact of mining on ground stability condition for enhanced mining production capacity, as the Railway line is passing in between the lease.
35. Hydro-Geological study in respect of the mine with respect to impact on ground water resources due to mining to be proposed in 2019-20 and report thereof be submitted.
36. Conceptual plan be prepared to indicate the UPL, life of the mine, conceptual exploration, pit dimension, land use pattern, status of reclamation and re-habilitation, land use, position of pit, mineral reject and sub grade generation and stacking, top soil stacking and utilization, generation of clay and its utilization, green belt development etc. at the end of proposal period as well as at the end of lease period may be furnished. In the conceptual plan mining has been proposed in North and south block in the cart track road and its safety zone, which should be avoided.
37. Specify whether crushing plant is located within the lease or outside the lease, and distance between crusher to North and south blocks to be furnished. Details of enhancement proposed in respect of crushing of Limestone be submitted.

Stacking of waste/ Mineral Reject

38. Substantial quantity of Limestone slabs are found stocked in the lease area in North Block, the details like dimension, quantity, quality etc. should be furnished. Proposal be submitted to withdraw sample from the stock in scientific manner by any NABL approved lab and reports thereof be submitted. The limestone slab be disposed only after getting due permission from State DMG, a commitment in this regard be submitted.
39. The area where Limestone is underlying beneath the surface and top soil has been dumped be mentioned as temporary top soil dump.
40. Top soil dumping be proposed in terraced manner instead of spreading it here and there. Note on manner of dumping of top soil with configuration, its sequence, location, height and protective measures should be furnished.

PMCP

41. Environmental protection measures to be proposed for top soil dumps adjacent and along the railway track, near seasonal nala and top soil dumped along the boundary.
42. Details of base line data for enhanced production prepared by agency approved by MOEF should be furnished.
43. Details pertaining to North and South blocks separately for Area degraded at present and proposed area to be degraded at conceptual stage (up to lease period) and its status of reclamation & rehabilitation, ground water table, green belt development, safety zone etc. should be detailed for easy reference.
44. Monitoring stations for base line data collection should be furnished in PMCP plate
45. Reclamation and rehabilitation proposal should be given to maintain the original profile of land. The submission made at page no 77 is not matching with that of the Reclamation Plan (Plate-10). Backfilling is not in the spirit of reclamation and rehabilitation of mine as the original profile has not been attained and hence back filling is not acceptable. Accordingly reclamation plan and relevant para should be modified and submitted. Co-ordinates, dimension, area of back filling proposed has not been submitted.
46. Financial assurance (FA) should be assessed on the basis of surface plan updated as on 30.06.2019 and area put to use for mining and allied activities and FA be submitted as per the land put to use. Top soil stack and dump area under utilization and proposed to be used is submitted less in the text with comparison to the submitted PMCP plan.

Plates

47. The seasonal nalla, village cart road, railway line safety zone be marked on the surface plan. Position of top soil dumping along railway line has not been demarcated correctly in the surface plan. The same correction be made in the Geological plan.
48. UTM and Local co-ordinates be shown in the year wise production and development plan. But in the year wise table co-ordinates to be submitted in UTM.
49. Conceptual plan prepared is sketchy, geological sections should be referred to know the status of lease at conceptual stage. Accordingly the same should be modified and submitted.
50. Position of newly developed road and residential plotting in near the ML in SW direction of South block be marked in the environmental plan. Details pertaining to the road and distance of

residential plotting from mining pit of south block be submitted in text. If required safety zone be marked in the surface plan.

51. Reclamation plan should be modified in view of comment pertaining to environmental protection measures and Back filling, Reclamation and rehabilitation. Section in respect of back filling has not been submitted.
52. Area proposed to be mined in the Year wise Production and development plan and PMCP plan are not matching with each other. PMCP plan should be modified in view of all the related comments made above.
53. All the plans and sections should be submitted as per the provision of rules 31, 32, 33 & 34 of MCDR, 2017 and signed by the surveyor having Certificate of Competency of Survey from DGMS.

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