

SCRUTINY COMMENTS ON ITTEGEHALLI LIMESTONE MINE OF M/S. MYSORE HOUSING CO. PVT. LTD., OVER AN AREA OF 80.94 HA, AS PER ML DEED, M.L. NO.NIL/ SY. NO. 9 (PART) & 42, IN VILLAGE ITTEGEHALLI, HOSADURGA TALUK, CHITRADURGA DISTRICT, STATE KARNATAKA. SUBMITTED UNDER RULE 17(1) OF MCR, 2016. FOR THE PERIOD 2017-18. COMPLETE AREA FALLS IN REVENUE LAND, CATEGORY OF TH MINE IS A (MECHANISED MINE).

COVER PAGE

1. The online registration number and the mine code of the mine may be given. Besides, a resolution should be signed by the board of directors for nominated owner and the copy of the same should be enclosed.
2. The category of the mine need to be written as A (Mechanized), instead of semi-mechanized open cast mine. When there is two minerals as per ML deed, than it should be indicated accordingly in the cover page, also wherever applicable.
3. Whether the company is private or public limited may be given duly supported relevant documents. M.L. number is not indicated.
4. The document need to be submitted under rule 17(1) of MCR, 2016 along with PMCP may be included and its rule. The ML period and expiry should be checked and updated. The whole document need to be prepared and submitted for 2017-18 only and 2016-17 may be deleted.

GENERAL

5. The introduction part is not described with clarity, which ought to have been, with the details of last approved document with the five years period and the reasons for the present submission. Besides, the balance working proposals is indicated as 2016-17 to 2017-28, which is not correct. But in the cover page, it is given as 2016-17 to 2017-18; hence it is required to give correct figures. Under the heading it is indicated as rule 17(3) of MCR, 2016, which should be corrected.
6. The lease was granted for Limestone and Dolomite; hence the same may be correctly mentioned in the first paragraph.
7. Affidavit may be referred in the text in the second paragraph.
8. In the last sentence of second paragraph, Annexure no. and rule under which the approval of MP may be mentioned correctly and date of transfer of mining lease may be mentioned.
9. In the third paragraph, the date and period of proposal of scheme of mining may be mentioned.
10. A copy of deemed extension letter of mining lease from DMG up to the year 2033 may be enclosed.
11. The balance period of proposals may be elaborated so that there should be a clear picture about the period.
12. Page-3, the copy of qualification & the experience certificate of the qualified person has not been enclosed. 2) Date of grant and execution of first renewal of mining lease may be mentioned.
13. Page -4, the boundary pillars are to be erected as per the norms and the three Ground Control points may also be established and the photographs of the same may be enclosed.
14. Page -5, the mining plan was approved for grant of renewal of mining lease, but not grant of mining lease, which may be corrected.
15. Page no.6, Para-3.3, the location of boreholes drilled as shown in Surface & Geological plan is not matching with the same of last approved scheme of mining, which may be shown correctly.
16. Para 1(f), the rule 22© of MCR, 1960 need to be replaced with appropriate rule as 17(1) with 2016 may be changed. Proof of qualification certificate not enclosed.
17. Para 3.1, only two approved MP/MS document details furnished in table, without table number, but nothing after the period 2012-13, what happened after this period is not dealt, which ought to have been. But the present submission is submitted for modification in the approved document from the period 2016-17 to 2017-18, as if the valid document is valid up to 2016-17. The document to be submitted for review & up-dation of MP under rule 17(1) of MCR, 2016.
18. Para 3.3, under review on exploration, it is given 20 nos. of DD holes undertaken by M/s Madras Cements Pvt. Ltd., but no other information furnished on the outcome of the holes with expenditure, metrage drilled and other details.

19. Para 3.3(ii), under excavation, the details furnished for 2008-09 to 2012-13 only, what happened after the period 2012-13 is not explained, why the document was not submitted after 2012-13. If it is so, how the present document is submitted for the modification from 2016-17 to 2017-18.

PART-A

20. Para 1(e)(i): under details of pits & trenches, it is mentioned that the existing pits are shown in geological plan, in addition to that it is expected that the surface plan should be prepared with all the details as per rule 28(1)(a) of MCDR,1988. Further, (a) The details of borehole logging data of 20 boreholes with latest chemical analysis reports may be enclosed.(b) There are more than two pits and the dimension of the pits may be given. The description of all pits / workings and dumps may be given. The proper location of Boreholes & pits etc. may be shown in all the related plates.

21. Para 1(d), it is given M/s Madras Cements Pvt. Ltd., carried out exploration, who deployed, when lessee is yourself. Para 1(f). Surface plan has not been prepared showing the grid lines 100mx100m.

22. Para-1(g), Geological Plan: The preparation of Geological plan is not in the lines of last Scheme of mining document.

23. Para-1(h): Geological Sections: The section AA' and BB' are not matching with geological plan. The extent of sectional area considered for G1 level may be demarcated in the sections. The bottom and collar RL of boreholes may be given in the cross sections. The extent of area of G1 and G2 level of exploration may be demarcated in Geological plan also.

24. Para 1(i), under future exploration, no exploration proposed for future programme, since already 20 bore holes drilled and with two pits in the ML area, but during the site inspections, some more pits could be seen in the ML area, which are not brought out in the plan nor in the text.

25. Para 1(j), under reserves & resources, the bulk density is given as 26t/ cubic metre as per the field tests conducted is found to be not appropriate and correct. The G1 level explored area in geological plan and sections has not been shown and UNFC codes for Reserves/Resources estimated are also to be shown.

26. Para 1(j), in page-16, under economic axis (E1), in Sl. No. 2, it is given that the mining plan & scheme of mining is prepared regularly is not correct, since the mine is not operating 2008 onwards, the document to be submitted for the period 2013-14 to 2017-18 not submitted, instead of that, the lessee submitting the document for the period 2016-17 to 2017-18 is not justified and correct.

27. In page-17, the reserves/ resources calculated under G1 scale of exploration, reveals 90, 90,588 tonnes, without differentiating the quantity of reserves and resources from the quantity indicated. Not given UNFC codification, for the quantity indicated. Besides, the reserves/ resources given in table number- nil, as on 1/4/2016 were reported for reserves only for all the quantity in 111 UNFC code, shows not appropriate and correct. This need to be checked and corrected along with the period as on 1/12/2016. In the light of the above remarks, the text and the plates need to be attended, wherever applicable.

28. Para 2A (a), the present mining pits is described for just two pits only, but during the field observations, some more pits of various sizes were observed, which are covered under shrubs and bushes, all those things also should be brought out in the relevant plans and accordingly in working/ development plans and sections. The present positions shown in plate No. 3 &, further not completed, which ought to have been. Further, the slope of faces, direction of advancement, approach to the faces & specification of roads, etc to be marked. Also, the existing dumps spread parameters, height, slope protective works etc., to be marked. The bench wise, mRL wise, opening reserves, exploitation and the closing balance should be furnished for the proposed periods. The proposed method of mining though semi-mechanised, may be changed to A (mechanised) mining for the future operations.

15. Para 2(b), the development & production proposed need to be modified based on the pro-rate basis, since already December'16 month is in progress. The plate and the related paras of the text

- may be attended and corrected. Further, 35% & above is the limestone mineral, if it is so, how 40% Cao is taken as cut-off grade may be reconciled.
16. Para 2(c), need to be attended in line with the remarks given in the above para 2(b) and also the plates. The dumping area is proposed on the mineralized area is not appropriate and acceptable, which is against the mineral conservation point of view. The ROM stack is not ear marked in the year wise working plans. In the light of the above remarks the relevant plan and the sections may be attended.
17. Para 2(d), it is given average bulk density is 2.5t/ cum., whereas in other paras, it is considered for 2.6t/cum. If it is so, try to report the correct and the uniform figure, wherever applicable. The mine is A(Mechanised and not Semi-mechanised).
18. Para 2(d)(ii), under blasting, various information furnished, without giving the powder factor, without which how the quantity of explosives calculated per day, for a month and the year may be explained suitably.
19. Table-17 details of haulage & transport equipment's, given for the proposed tonnage for the year 2017-18, but as per the scrutiny remarks given in para 2A, the table may be attended appropriately.
20. Para 2(e), in page-25, it is stated that the 615,360t of waste will be utilized for back filling/dumping in mined out area is accepted, but how both will be possible, better specifically propose either only dumping or back filling, to avoid confusions. In the light of the above remarks, the relevant paras may be attended and modified, wherever applicable. Para 2©, may be considered while attending the corrections.
21. Para 2(f), the excavation location for the year 2017-18 need to be re-considered suitably, up to March, 2018, instead of total production. Besides, under anticipated life of mine, the reserves, resources figure as 352,429t, and the future average production reported as 41,225t/ annum, further, in the below para, different figures reported, this may be reconciled and attended appropriately. The proposals may be drawn for 2017-18 only in this table and also in all the related tables, in page-27, 28, 31, 32, & 43, 44, 0etc.
22. Para 2(f)(5)(a), under land restoration & plantation, in page-27, wherein it is given mineral bearing area will be manually mined up to the ultimate pit limit, is not appropriate and correct, since the mining operation is proposed for A(Mechanised). This para need to be attended appropriately.
23. Under land use details in page-28, wherein table-number is not given, besides, under conceptual lease period, in the 4th column, nothing reported on back filling area, however, in the previous paras of the text, back filling details were furnished.
24. Para 3(b), under maximum and the minimum depth of workings, it should be written as 652.265mRL & 493mRI above MSL.
25. Para 7©, under employment potential, the break-up of the employees given need to be given as per the universal format guidelines. Manager, Mining Engineer-full time Geologist –part time & foreman.
26. Para 8.1, under existing land use pattern, the details furnished up to 1.4.2016, should be brought out as on 1.12.2016.
27. Para 8.3.1, under mined out land, there is no proposal in the balance plan period, what is the balance period may be explained. Besides, why no proposals drawn on back filling in this para may be explained.
28. Para 9, part-B, under the certificate, it is given modification in the approved mining plan is not appropriate and correct. The document submitted reveals the regular one under rule 17(1) of MCR, 2016 and not under rule 17(3), of MCR, 2016. In the light of the above remarks, the certificate to be attended correctly wherever applicable, similarly from the certificate of qualified person and from the RQP.

Part –B

29. Key Plan (Plate No. 1): The ML. No. is written as 2493, whereas in the ML. deed it is 2473, care should be taken to mention correctly in the text and in the plates. The modification in the approved mining plan written on the plate is not correct. It should be corrected suitably. The

approach road to the ML area needs to be marked with approximate distance from a known place. In the light of the above remarks, the other plates may be attended.

30. Surface Plan (Plate No. 3): The existing surface feature, including mine workings, stacks dumps, etc., are not brought out in the plan. The roads, hillocks, electric lines etc., must be brought out. Boundary pillars and the three GCP's must be erected and shown clearly. Existing pits in the ML area must be numbered. Previous document plates must be taken for reference for up-dation. This plan should be prepared as per rule 28(1) (a) of MCDR, 88.

31. Geological Plan (Plate No. 4): The UPL marked on the plan is not appropriate and complete. Some more mineralized areas available, which area not considered under UPL, the reasons for the same may be given. This should be prepared as per rule 28(1) (b) of MCDR, 88. Different mRL of the bore holes may be shown in appropriate plates.

32. Geological sections (Plate No. 5): The ultimate pit limit marked in the sections should be corrected as ultimate pit slope. Accordingly, the UPS marked in cross sections, A-A', B-B' & C-c' are not appropriate and correct. This needs to be redrawn. Longitudinal section may be submitted along with the existing plates.

33. Development & Production Plan (2017-18, Plate No. 6B & 7): The proposed workings for the year 2017-18, from the northern end reveals not appropriate, since the limestone deposits on the SSE reveals wider without any interference of other lithology, like meta basalt, BHQ & Manganiferous Phyllites, than on the northern side. It is therefore; better to propose from SSE to northern side for better mining. The working benches must be brought out for the year 2017-18 at the end of 31st March 2018. Similarly, year wise build of dumps status should match to the end of 31st march 2018. In the light of the above remarks, protective works should be attended. Approach road to the each bench should be marked. CCOM circular No.4/91 & 5/91 may be taken full care while preparing these plates. Geological plan should be taken as base plan for preparing this plan.

34. Environment Plan (Plate No. 8): The other ML areas present within the 500m buffer zone must be brought out for clarity & reference. Existing pits and dumps should be prepared as per rule 28(5) (b) of MCDR, 88.

35. Conceptual Plan & section (Plate No.9): The conceptual plan should be prepared in such a way to represent what would be the conceptual workings at that stage. The present workings will not be appearing at that stage. Therefore the conceptual plan and section should be attended in line with the remarks given in plate no.6A, 6B & 7.

36. Reclamation Plan (Plate No.11): Just submitting the dumping activities will not come under the back filling or reclamation & rehabilitations.

Annexures:

- (i). The annexures enclosed in the text documents must be given with number of pages in each annexure for easy reference.
- (ii). A copy of mining lease transfer order may be enclosed.
- (iii). A copy of execution order of first renewal of mining lease may be enclosed.
- (iv). A copy of photographs of the boundary pillars after erecting as per the norms and three ground control points may be enclosed.
- (v). A copy of lease deed of mining lease granted in 1983 may be enclosed.
- (vi). A copy of latest chemical analysis reports of samples tested in NABL accredited laboratories may be enclosed.
- (vii) . A copy of the latest certificate from the Registrar of companies stating the status of the company and its directors and the nominated owner may be enclosed.
- (viii). Annexure-1A indicated in the annexure table is not mentioned in the enclosure for reference.
- (ix). The qualified person is not enclosed his M.Sc. Geology educational qualification certificate.
- (x). Few photographs of the mine showing the old mine workings/ pits, stacks, dumps, bore holes locations etc., may be enclosed for reference.
- (xi). Copy of the valid bank guarantee may be enclosed.