



No. 659(510)Lat-I/O/2004/Hyd.

Room No.603,
6th Floor,CGO Towers,
Kavadiguda,Secunderabad.-50008
Date: 19.11.2019.

To
Shri Ch.Krishnamacharyulu,Managing Partner,
M/s Sri Anjani Mines and Minerals,
501,Mohan Residency,ITI Circle,
Beside SBI Bank,Kadapa-516 001,
Andhra Pradesh.

Sub: Submission of Modified Mining Plan in respect of Anjani Iron Ore and Laterite Mine of M/s Anjani Mines & Minerals over an extent of 208.300 ha. Situated in Yellaturu Village, Pendlimarri Mandal, Kadapa dist., A.P. submitted under Rule 17(3) of MCR, 2016.

Ref: Your letter no.Nil dated Nil received by this office on 10.10.2019.

Sir,

With reference to your letter cited above on the subject, the inspection of the mine was carried out by Shri S.K.Muduli,JMG along with Sri Ramakrishnaiah,Mine Representative and P.V.Narayana Rao,QP on 08.11.2019 and found certain deficiencies which were forwarded to you and your Qualified Person on respective e.mail ids i.e., anjani.m.minerals@gmail.com and podurirao@gmail.com.

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 @ RsThree 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,

Shivam
19/11/19

(Shailendra Kumar)
Regional Controller of Mines

Copy to Sri P.V.Narayana Rao, Qualified Person for information and necessary action.

Shivam
19/11/19

(Shailendra Kumar)
Regional Controller of Mines

मूलपतिपरनहीं

खाननियंत्रक (द), भारतीय खानब्यूरो, बेंगलुरु।

शैलेन्द्र कुमार
19/11/19

(शैलेन्द्र कुमार)
क्षेत्रीय खाननियंत्रक

Scrutiny Comments on Modified Mining Plan submitted in respect of Anjani Iron ore and Laterite Mine of M/s Anjani Mines and Minerals over an extent of 208.30 Ha located at Chabali and Thumaluru village, Pendimarru Mandal, YSR Kadapa District, Andhra Pradesh

General

- 1) The mine was suspended vide Order No-AP/CDP/Fe-4/HYD Dated 26.11.2014 and thereafter was recommended for termination on 12.06.2019. A letter was issued to the state DMG with copy to you vide letter no-659(510)/Lat-IO/2004/HYD dated 31.10.2019 for providing the current status of the mining lease. You are advised to submit a letter from the state DMG clarifying the status of the lease wrt this office letter no-AP/CDP/Fe-4/HYD Dated 12.06.2019 and the status of extension of lease period as per section 8A of MMDR Act-1957 for further processing of the document.
- 2) During processing of the documents it was observed from the Deed of Reconstitution of Partnership that all partners are released with new partners after amendment of MMDR Amendment Act-2015. Hence the law under which change of all the partners is permitted for the lease not granted through auction after MMDR Amendment Act-2015 may please be discussed with justification for the purpose and a letter in this regard may please be obtained from the State DMG.
- 3) Certificate towards of Registration of firm under Indian Partnership Act-1932 (9 of 1932) needs to be submitted.
- 4) Review of exploration, production and development, waste generation, Progressive Mine Closure Plan proposal, reclamation and rehabilitation and plantation to be submitted from 2009-10 to 2018-19 and 2019-20 (upto 31.10.2019).
- 5) Review of compliance status of violations need to be submitted correctly.
- 6) Authenticated production and despatch figure from concerned ADMG to be submitted for the period 2010-11.
- 7) Reason/Justification for modification needs to be submitted.
- 8) Consent letter to be submitted in Registered Firm letter head.
- 9) Permission for reduction of the scale of plan to be submitted else all the draw in to be submitted as per the statute.

Geology

- 10) **During inspection the DTH bore holes are not saved properly and no numbering and no pillar has been constructed to identify it.** As it is a pocket type deposit occurring within the Ferruginous Shale, exploration through DTH bore holes and that to by 5m composite sampling, the size, shape, structure, grade, and other relevant characteristics of the deposit could not be established properly and also could not be verified scientifically. Looking into the mode of occurrence of the iron ore deposit, it is advised to carry out trial pits in the already identified mineralised zone as per the Grid pattern specified in MEMC Rules-2015. Future exploration needs to be proposed by trial pitting in G1 level.
- 11) During inspection it was observed that most of the mining pits are water logged due to which the iron occurrence could not be verified. As per the local geology iron ore occurs as pocket within the Ferruginous Shale in the mine, but in the Geological cross section no such iron ore pockets have been demarcated instead the consecutive bore hole having Ferruginous Shale with Iron ore has been extrapolated and 20% recovery factor has been applied on the entire Ferruginous Shale formation and also considered for estimation of iron ore reserves/resources. The Geology of the deposit is not matching with the geological sections drawn and the lithologs furnished. Recovery test has been conducted on Iron ore of 40 to 50% of Fe and sub grade iron ore 35 to 45% of Fe. As it is not a Hematitic siliceous iron ore estimation needs to be made on Fe%>45%. The recovery test needs to be carried out on iron ore having Fe content of more than and equal to 45%. While estimating the reserves/resources the SiO₂ needs to be submitted and samples have not been analysed for SiO₂% and Al₂O₃%. Recovery test result to be considered only in the mineralised zone explored by mining pit only. Intermediate zones are not allowed.

- 12) The bore hole lithologs are not matching with the earlier approved lithologs and sections. Necessary correction required to be done and accordingly the reserves/resources to be re-estimated. The 20% ore recovery should be applied only in the mineralised area already proved by mining pit area. 80% of waste has been considered as sub grade while estimating reserves / resources, which is not allowed.
- 13) The reserves/resources are estimated in excess as the mineralised zone is erroneously extrapolated and the recovery factor has not been applied correctly. As it is a pocket type of deposit and there is Geological uncertainties, estimation of resources under 333 and 334 category for both iron ore and Laterite is not allowed.
- 14) The back up table of reserves/resources estimation to be furnished in the following manner separately for Laterite and Iron Ore for different categories of UNFC like 111,121,122,221,222,333,334.
- 15) In the Geological cross section the UPL has not been demarcated and UNFC axis wise coding has not been given.
- 16) The core BHs and DTH bore holes analysis result are not matching with each other even at the same position. Previous Bore hole location have been changed. Earlier drilled bore holes not projected correctly in the geological Sections. Ore zone has not been demarcated in the Geological Cross section.
- 17) 10% check samples needs to be analysed from NABL/Govt Laboratory and report needs to be submitted.
- 18) Basis for considering the Bulk density and recovery percentage needs to be submitted.
- 19) All the reserves/resources estimation parameters needs to be submitted. UPL to be demarcated based on the explored depth of mineralization.
- 20) Original bills towards exploration need to be produced for verification.

Mining

- 21) For utilization of low grade iron ore having Fe content less than 45%, the Lessee may approach State DMG under rule 12(1)(k) of MCR-2016.
- 22) Mining proposal to be submitted based on the remaining earlier approved min reserves.
- 23) Copy of the Permission for deep hole drilling and blasting to be submitted.
- 24) The water table needs to be submitted in BGL and in RL. Also the maximum and minimum depth of mining.
- 25) Stacking of waste dump to be submitted as temporary dump and the details of simultaneous backfilling needs to be submitted. Details of temporary dumping and backfilling like co-ordinates, area, height, level, volume needs to be submitted.
- 26) Details of existing all the mineralised dump and waste dump to be submitted.
- 27) UNFC category be mentioned in the Year wise Production and Development Section.
- 28) Describe briefly the layout of mine workings, pit road layout, the layout of faces and sites for disposal of overburden/waste along with ground preparation prior to disposal of waste, reject etc.
- 29) Conceptual Mine planning upto the end of lease period taking into consideration the present available reserves and resources describing the excavation, recovery of ROM, Disposal of waste, backfilling of voids, reclamation and rehabilitation needs to be submitted supported with plan and sections.

PMCP

- 30) The PMCP table needs to be submitted as per the format issued by IBM. No area has been reclaimed and rehabilitated. No of roads and side by dumping has not been surveyed and demarcated properly. As the mining lease is of 208.30 Ha area the area under utilization to be demarcated as per the latest available Satellite imagery.

- 31) All the roads, pits, dumps and plant, infrastructure and stock yards needs to be demarcated in the surface plan. Accordingly the PMCP/FA plan needs to be modified and Bank Guarantee amount needs to be calculated on the updated PMCP/FA plan. Submission like fully reclaimed and rehabilitation of part of the mining pit area is not considerable in PMCP chapter..
- 32) Year wise Plantation and Quarterly environmental monitoring needs to be proposed.

Plans & Section

- 33) 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.
- 34) All Contour lines are to be demarcated properly and seasonal nalla are to be demarcated.
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