

**INDIAN BUREAU OF MINES
MINERALS DEVELOPEMMENT AND REGULATION DIVISION**

**MCDR inspection REPORT
Hyderabad regional office**

Mine file No : AP/KNL/FE-62/HYD

Mine code : 30APR11026

- (i) Name of the Inspecting : **RK13**) **A.V.Ramesh Kumar**
Officer and ID No.
- (ii) Designation : Assistant Mining Geologis
- (iii) Accompanying mine : Sri A Muralikrishna Agent
Official with
Designation
- (iv) Date of Inspection : 30/04/2022
- (v) Prev.inspection date : 04/03/2020

PART-I : GENERAL INFORMATION

1. (a) **Mine Name** : **SEETHARAMAPURAM**
- (b) **Registration NO.** : **IBM/456/2011**
- (c) Category : A Other Mechanised
- (d) Type of Working : Opencast
- (e) Postal address
- State : ANDHRA PRADESH
- District : KURNOOL
- Village : SEETHARAMAPURAM
- Taluka : DHONE
- Post office : SEETHARAMAPURAM
- Pin Code : 518599
- FAX No. : 08516276111
- E-mail :
- Phone : 08516-273001/273099
- (f) Police Station : BETHAMCHERLA
- (g) First opening date : 23/01/2008
- (h) Weekly day of rest : SUN
2. Address for : B.Sanjeev Reddy
correspondance H.No-6-200, Rly Station Road, At/po-Bethancherla
Dist -Kurnool , A.P
3. (a) Lease Number : APR2768
- (b) Lease area : 8.29
- (c) Period of lease : 20
- (d) Date of Expiry : 07/01/2028
4. Mineral worked : IRON ORE Main

5. Name and Address of the

Lessee : B.SANJEEVA REDDY
 6-100 RLY STATION ROAD
 BETHHAMCHERLA POST KURNOOL
 ANDHRA PRADESH
 Phone:
 FAX :

Mining Engineer

Name : DURGA PRASAD, Full Time
 Qualification : BTECH 9(MINING)
 Appointment/ : 20/08/2019
 Termination date

Geologist

Name : M Sreenivasulu, Full Time
 Qualification : Msc Geology
 Appointment/ :
 Termination date

6. Date of approval of Mining	:	Fresh under rule 22 MCR1960	02/08/2006
Plan/Scheme of Mining	:	Modif.of approved Mining Plan	15/09/2010
	:	Mining Scheme rule 12 MCDR1988	18/04/2013
	:	MP review under 17(1) MCR 2016	11/12/2017

PART - II : OBSERVATION/COMMENTS OF INSPECTING OFFICERS

Exploration :

Sl.No.	Item	Proposals	Actual work	Remarks
1a	Backlog of previous year	There is no proposal for exploration during the year 2021-22.	No exploration was carried out during the year 2021-22.	The entire potential mineralised area explored under G1 level.
1b	Exploration over lease area for geological axis 1 or 2	None	None	None
1c	Exploration Agencies and Expenditure in lakh rupees during the year	None	None	None
1d	Balance area to be explored to bring Geological axis in 1 or 2	None	None	The entire potentially Mineralised area explored under G1 level.
1e	Balance reserve as on 01/04/20	---	The reserves as on 1/4/2022 - 75,144 tonnes	No remarks to be made.
1f	General remarks of inspecting officers on geology, exploration etc	There was no proposal for exploration during the year 2021-22.	No exploration was carried out during the year 2021-22.	The entire potential mineralised area explored under G1 level. a total of 32 boreholes were drilled in the mining lease. The lease area forms a part of hill slope. The lease area falls under Cuddapah Super group. The iron ore occurring in the lease is moderately hard and friable in nature.

Development :

Sl.No.	Item	Proposals	Actual work	Remarks
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2a	Location of development w.r.t.lease area	It was proposed to develop the mine between gridlines N100-N345 & E130-E300.	The development being carried out as proposed.	There is no deviation in the development.
2b	Separate benches in topsoil, overburden and minerals (Rule 15)	It was proposed to develop fourth bench in the ore during the year 2021-22.	The Mine was well developed and one bench(fourth) was developed in the mineral during the year 2021-22.	There is no deviation in developing benches.
2c	Stripping ratio or ore to OB ratio	1:1.44	1:1.8	No remarks to be made.
2d	Quantity of topsoil generation in m3	Nil	No topsoil was generated during the year 2021-22	No remarks to be made.
2e	Quantity of overburden generation in m3	It was proposed to generate waste of about 29,960 tonnes during the year 2021-22.	The actual overburden generated was 17441 tonnes	No remarks to be made.
2f	General remarks of inspecting officers on development of pit w.r.t. type of deposit etc	It was proposed to develop fourth bench in the year 2021-22.Also it was proposed to dump waste on the North Eastern side of the lease.	The development being carried out as proposed.	There is no deviation

Exploitation:

Sl.No.	Item	Propasals	Actual work	Remarks
3a	Number of pit proposed for production	One Pit	One Pit	No deviation noticed.
3b	Quantity of ROM mineral production proposed	It was proposed to produce 29,960 tonnes duirng the year 2021-22.	The actual production reported was 21,943 tonnes during the year 2021-22.	No deviation noticed.

3c	Recovery of sailable/usable mineral from ROM production	The recovery rate proposed was 39%.	It was noticed that about 39% being recovered. The recovered ore being dispatched for sale to buyers.	No remarks to be made.
3d	Quantity of mineral reject generation	There was no proposal for generation of mineral rejects during the year 2021-22.	No mineral rejects were generated during the year 2021-22.	No remarks to be made.
3e	Grade of mineral rejects generation and threshold value declared.	Nil	None	None
3f	Quantity of sub grade mineral generation.	There was no proposal to generate sub grade mineral during the year 2021-22.	No sub grade mineral was generated during the year 2021-22.	None
3g	Grade of sub grade mineral generation	None	None	None
3h	Manual / Mechanised method adopted for segregating from ROM	It was proposed to segregate by using mechanical screening	The same was noticed during the inspection.	No deviation noticed.
3i	Any analysis or beneficiation study proposed and carried out for sub grade mineral and rejects.	No beneficiation study proposed by the lessee during the year 2021-22	No beneficiation study carried out during the year 2021-22.	None
3j	Provision of drilling and blasting in mineral benches	It was proposed to carry out occasional drilling and blasting.	The same was noticed during the inspection.	It was proposed to carry out drilling and blasting occasionally as the Iron ore in the lease is friable and can be mined/excavated easily.
3k	Provision of mining machineries in mineral benches	It was proposed to excavate and transport the mineral by using excavator and tippers.	The same was noticed during the inspection.	None

3l	Whether height of benches in overburden and mineral suitable for method of mining proposed in MP/SOM	It was proposed to maintain a height of 3 meters in overburden and 6 meters in ore.	The same was noticed during the inspection.	No deviation noticed.
3m	Total area covered under excavation/pits	---	The total area covered under pits was 2.30 ha	None
3n	Ore to OB ratio for the pit/mine during the year.	1:1.08	1:1.5	None
3o	Total area put in use under different heads at the end of year	---	Pits - 2.30 ha Dump - 1 ha Infrastructure - 0.70 ha	None
3p	Production of ROM mineral during the last five year period as applicable	2017-18 - 20,658 tonnes 2018-19 - 23,583 tonnes 2019-20 - 26,642 tonnes 2020-21 - 27,032 tonnes 2021-22 - 29,960 tonnes	2017-18 - 20,000 tonnes 2018-19 - 7290 tonnes 2019-20 - 12977 tonnes 2020-21 - 402 tonnes 2021-22 - 21943 tonnes	No deviation noticed.
3q	General remarks of inspecting officers on method of mining etc.	It was proposed to carry out production from one pit during the year 2021-22. Further, bench height was proposed to be maintained at 6 meters in ore.	Same was noticed as proposed.	A violation for Rule 11(1) of MCDR, 2017 was issued as the lessee does not have a valid/approved document from 1.04.2022. The validity of the earlier proposal period expired on 31.03.2022.

Solid Waste Management - Dumping:

Sl.No.	Item	Proposals	Actual work	Remarks
4a	Separate dumping of topsoil, OB and mineral rejects (Rule 32,33)	It was proposed to dump the overburden separately.	The overburden generated being dumped separately.	No deviation noticed.

4b	Location of topsoil, OB and mineral reject dumps	It was proposed to dump the overburden on the north eastern side of the mining lease.	Same was noticed during the inspection.	No deviation noticed.
4c	Number of dumps within lease area and outside of lease area	One within the lease.	One within the lease noticed.	No remarks to be made.
4d	Location of dumps w.r.t. ultimate pit limit (Rule 16)	It was proposed to dump the waste beyond the ultimate pit limit.	Dumping being done as proposed.	No deviation noticed.
4e	Number of active and alive dumps.	One	One	None
4f	Number of dead dumps.	Nil	Nil	None
4g	Number of dumps established.	One	One	None
4h	Whether Retaining wall or garland drain all along dumps are there.	Yes	Yes	No deviation noticed.
4i	Length of Retaining wall or garland drain all along dumps	420 meters	A retaining wall with an approximate length of 400 meters was made.	No deviation.
4j	Number of settling ponds	None	Nil	None
4k	Specific comments of inspecting officer on waste dump management	It was proposed to dump the waste on the North eastern side of the lease.	Same was noticed during the inspection.	No deviation was noticed with regard to the solid waste management dumping in the lease.

Solid Waste Management - Backfilling:

Sl.No.	Item	Proposals	Actual work	Remarks
5a	Status of part or full extraction of mineral from mined out area before starting backfilling.	There is no proposal for reclamation during the year 2021-22.	No reclamation was carried out during the year 2021-22.	No area matured for the purpose of reclamation.

5b	Area under backfilling of mined out area	None	None	None
5c	Concurrent use of topsoil for restoration or rehabilitation of mineral out area (Rule 32)	None	None	There is no topsoil in the mining lease.
5d	Total area fully reclaimed and rehabilitated	None	None	None
5e	General remarks of inspecting officers on backfilling and reclamation etc.	None	None	No reclamation was carried out by the lessee during the year 2021-22.No area matured for reclamation in the mining lease.

Progressive Mine Closure Plan:

Sl.No.	Item	Proposals	Actual work	Remarks
6a	Whether Annual report on PMCP submitted on time and correctly. Rule 23 E(2).	---	yes the annual report on PMCP submitted to this office regularly.	None
6b	Area available for rehabilitation (ha) .	None	None	None
6c	afforestation done (ha).	0.255 ha	0.25 ha	None
6d	No. of saplings planted during the year	512 saplings proposed to be planted during the year 2021-22.	About 500 saplings were planted during the year.	None
6e	Cumulative no .of plants	---	11,300 no.s	None
6f	Any other method of rehabilitation	None	None	None
6g	Cost incurred on watch and care during the year	---	It was informed by the lessee that about Rs.60,000/- was incurred as expenditure during the year 2021-22.	None

6h	Compliance on reclamation and rehabilitation by backfilling (i) Voids available for backfilling (Lx B x D	None	None	None
6i	Compliance on reclamation and rehabilitation by backfilling (ii) Voids filled by waste / tailings	None	None	None
6j	Compliance on reclamation and rehabilitation by backfilling (iii)Afforestation on on backfilled area	None	None	None
6k	Compliance on reclamation and rehabilitation by backfilling (iv) Rehabilitation by making water reservoir	None	None	None
6l	Compliance on reclamation and rehabilitation by backfilling (v)any other specific means.	None	None	None
6m	Compliance of rehabilitation of waste land within lease (i)afforestation	None	None	None
6n	Compliance of rehabilitation of waste land within lease (ii)Area rehabilitation (ha)	None	None	None
6o	Compliance of rehabilitation of waste land within lease (iii)Method of rehabilitation	None	None	None

6p	Compliance of environmental monitoring (core zone and buffer zone)	It was proposed to carry out environmental monitoring in both core and buffer zones.	Regular environmental monitoring being carried out in both core and buffer zones. The parameters are found to be within the permissible limits.	None
6q	General remarks of inspecting officers on PMCP compliance and progressive closure operations etc.	----	all the proposals related to PMCP proposed by the lessee are implemented for the year 2021-22.	No deviation noted.

Mineral Conservation:

Sl.No.	Item	Propasals	Actual work	Remarks
7a	ROM Mineral dispatch or grade-wise sorting within lease area	It was proposed to carry out grade wise sorting by manual crushing and screening.	The same was noticed during the inspection.	No deviation noticed.
7b	Method of grade-wise mineral sorting i.e. manual or mechanical.	It was proposed carry out sorting by manual method.	The same was noticed during the inspection.	No remarks to be made.
7c	Different grade of mineral sorted out at mines.	It was proposed to sort two grade i.e 35-45% fe and above 45% fe. Also it was proposed to produce both fines and lumps.	The same was noticed during the inspection.	No remarks to be made.
7d	Any beneficiation process at mines .	No beneficiation was proposed to carry out in the lease.	No beneficiation process was noticed in the lease.	No remarks to be made.
7e	General remarks of inspecting officer on Mineral conservation and beneficiation issues	It was proposed to carry out Manual sorting and crushing.	The same was noticed during the inspection.	No remarks to be made.

Environment:

Sl.No.	Item	Propasals	Actual work	Remarks
8a	Separate removal and utilization of topsoil (Rule 32)	As there was no topsoil, no proposal was made to handle the same.	No topsoil was generated during the year 2021-22.	None
8b	Concurrent use or storage of topsoil	None	None	None
8c	Separate dumps for overburden, waste rock, rejects and fines (Rule 33)	It was proposed to dump the waste on the North eastern part of the lease.	Same was noticed duirng the inspection.	None
8d	Use of overburden, waste rock, rejects and fines dumps for restoring the land to its original use	None	None	There was proposal made to use overburden, waste etc during the year 2021-22.
8e	Phased restoration, reclamation and rehabilitation of lands affected by mining operations (Pits, dumps etc)	None	None	None
8f	Baseline information on existence of plantation and additional plantation done (Rule 41)	The Lease area lies on the slope of the hill with undulating terrain.	Except for the plantation made by the lessee, no other vegetation noticed in the lease area.	None
8g	Survival rate	80%	75%	None
8h	Water sprinkling on roads to control airborne dust	It was proposed to control dust suppression by water sprinkling using tractor mounted water tanker.	Same was noticed duirng the inspection.	None
8i	General remarks of inspecting officer on aesthetic beauty in and around mines area	---	All the environmental protection related measures proposed are implemneted for the year 2021-22.	No deviation.

Compliance of Rule 45:

Sl.No.	Item	Propasals	Actual work	Remarks
9a	Status of submission of Monthly and Annual returns	The Monthly returns submitted by lessee regularly.The Annual return for the year 2020-21 was submitted but the annual return for the year 2021-22 is yet to be submitted.	All the statutory returns submitted by the lessee regularly.	None
9b	Scrutiny of Annual return for information on Mining Engineer, Geologist and Manager	Annual return 2021-22 is yet to be submitted.As per the annual return 2020-21,Sri Durga Prasad was reported as Mining Engineer.	During the inspection it was noted that Sri M Sreenivasulu was appointed as Geologist along with sri Durga prasad.The lessee was advised to include the name of the Geologist in the Annual Return 2021-22.	None
9c	Scrutiny of Annual return on land use pattern for area under pits, reclaimed area, dumps etc.	Annual return for the year 2021-22 is yet to be submitted.	During the inspection it was noted as following: Pit - 2.30 ha Dump - 1.00 ha Infrastructure - 0.70 ha	None
9d	Scrutiny of Annual return on afforestation	Annual return for the year 2021-22 is yet to be submitted.	During the inspection it was noted from the register that about 500 saplings were planted duirng the year 2021-22.	None
9e	Scrutiny of Annual return on mineral reject generation (Grade and quantity)	No mineral reject were generated and the same were no mentioned in the annual return 2020-21.The AR for 2021-22 is yet to be submitted.	Same was noticed duirng the inspection.	None
9f	Scrutiny of Annual return on ROM stock and/or graded ore	Annual return for the year 2021 is yet to be submitted.However, the production compiled from the 12 monthly returns was 21,943 tonnes.	Same was noticed duirng the inspection.	None

9g	Scrutiny of Annual return on sale value, Ex. Mine price and production cost	The Annual return for the year 2021-22 is yet to be submitted.The Ex-mine price reported for the year 2020-21 for lumps was Rs.792/- per tonne for less than 55% fe.The ex-mine price reported for fines for the year 2020-21 was Rs. 512/- per tonne for less than 55% fe.	Same was noticed during the inspection.	None
9h	Scrutiny of Annual return on fixed assets	The value of fixed assets as per Annual return 2020-21 was Rs.5,40,000/- .The AR for 2021-22 was not yet submitted.	The scrutiny of the same was not carried out.	None
9k	Scrutiny of Annual return on mining machineries	Annual return for the year 2021-22 was not yet submitted.	During the inspection it was noticed that One Hydraulic excavator,one wtractor mounted water tanker and two tippers were noticed.	None

Details of violations observed during current inspection and compliance position of violation pointed out

Violation observed			Show couse position		
Rule NO.	Issued on	Compliance on	Rule NO.	Issued on	Compliance on
MCDR17	Rule 11(1)	04/05/2022			

Date :**(A.V.Ramesh Kumar)**

Indian Bureau of Mines