

**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 : **M017**) **MANISH K MAINDIRATTA**
Officer and ID No.
- (ii) Designation : Regional Controller Mines
- (iii) Accompanying mine :
Official with
Designation
- (iv) Date of Inspection : 04/03/2020
- (v) Prev.inspection date : 09/06/2017

PART-I : GENERAL INFORMATION

1. (a) **Mine Name** : **SEETHARAMAPURAM**
- (b) **Registration NO.** :
- (c) Category : B Manual
- (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 :

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	2017-18-4 CBH proposed 2018-19-5CBH proposed	Not done any.	
1b	Exploration over lease area for geological axis 1 or 2	About 2.78 hectare of ferruginous zone has been explored. The proposal for exploration for the remaining portion has been proposed.	The same has not been completed.	
1c	Exploration Agencies and Expenditure in lakh rupees during the year		Exploration for the year 2017-18 onwards is pending.	
1d	Balance area to be explored to bring Geological axis in 1 or 2	NA	The exploration proposal fo the year 2017-18 and 2018-19 has not been undertaken.	
1e	Balance reserve as on 01/04/20	As per the document approved on 11.12.2017, Total mineral resource as on 31.03.2017= 148542 Tonnes. 111=137756T (more than 45% Fe)	depletion (prod'n) during the period 2017-18=20000T 2018-19=7290T Balance Reserve as on 1.04.2019= 121252T	2019-20=11897T in 2019-20 so far.
1f	General remarks of inspecting officers on geology, exploration etc		Ferruginous quartzite along with non ferruginous quartzite and yellow ochre/ ferruginous shale occure as irregular pocket deposit.	

Development :

Sl.No.	Item	Propasals	Actual work	Remarks
2a	Location of development w.r.t.lease area	Development is proposed in the sole existing pit only within section line AA' to EE'..	Carried out as per proposal in same pit	
2b	Separate benches in topsoil, overburden and minerals (Rule 15)	No proposal	Waste and iron ore are worked separately. However the benches of proposed height in the western side of the pit have not been developed.	
2c	Stripping ratio or ore to OB ratio	No OB generation anticipated in 2018-19 However 27474 T of waste generation was anticipated.	However ore : waste ratio for 2018-19 was 1:0.648	11250T of waste generated has been reported as OB in the returns for 2018-19 .
2d	Quantity of topsoil generation in m3	2018-19 No proposal	Nil generated	
2e	Quantity of overburden generation in m3	2018-19=No proposal	2018-19=11250 T Generated	
2f	General remarks of inspecting officers on development of pit w.r.t. type of deposit etc			

Exploitation:

Sl.No.	Item	Propasals	Actual work	Remarks
3a	Number of pit proposed for production	1 pit is proposed with extraction in section line AA' to EE' upto a depth of 416mRL.	Working carried out in same pit	

3b	Quantity of ROM mineral production proposed	2018-19 60469T of Iron Ore production was proposed (I.Ore)	2018-19= 7290T of I .ore (6740T lumps and 550 tonnes fines) produced.	In 2019-20=11897T of Iron ore is produced. The quality of mineral is reported to be less than 55% Fe.
3c	Recovery of sailable/usable mineral from ROM production	39% of +45% Fe content ore and 30% of low grade iron ore of less than 45% Fe content recovery was assessed	7290T of (<55% Fe)from a total of 18540 T of excavation .i.e 39.20% reported.	
3d	Quantity of mineral reject generation	Mineral reject generation of 29793T of low grade iron ore was assessed for 2018-19 and Mineral reject generation of 29793T of low grade iron ore was assessed for 2019-20.	No mineral reject generation reported. Entire lumps and fines are reported to be < 55% Fe.	
3e	Grade of mineral rejects generation and threshold value declared.		Not applicable	
3f	Quantity of sub grade mineral generation.	2018-19=No proposal	2018-19=Nil generated	
3g	Grade of sub grade mineral generation		Not Applicable	
3h	Manual / Mechanised method adopted for segregating from ROM	Screening proposed	Mechanical screening done	
3i	Any analysis or beneficiation study proposed and carried out for sub grade mineral and rejects.	Proposed beneficiation study for low grade iron in future.	No study undertaken so far.	

3j	Provision of drilling and blasting in mineral benches	Ore is soft to moderately hard . so excavator is proposed for the purpose with rare drilling and blasting for the breaking of big boulders.	As per proposal
3k	Provision of mining machineries in mineral benches	Proposed	Mine is not found working. No machinery for excavation or loading was there at site.
3l	Whether height of benches in overburden and mineral suitable for method of mining proposed in MP/SOM		4 to 5 m high benches are developed for mechanized mining.
3m	Total area covered under excavation/pits	2.177 ha. Proposed under excavation till 2021-22	About same area is under pit and and 0.260 hectare area has been backfilled , as reported in the plan but the same is not discernible in the field.
3n	Ore to OB ratio for the pit/mine during the year.	Area is devoid of OB. However Ore: waste ratio of 1:1.16 assessed.	7290 T of ore and 11250 T waste reported in 2019-20
3o	Total area put in use under different heads at the end of year	Area under pit -2.177 ha. Area under backfilling = 0.26 hectare Area under Infra/ road= 0.11 hectare and area is under dumps/ stock yard= 1.973 ha., till 2021-22	About 2.177 hectare area under pit and 0.26 hectare area is under backfilling Infra/ road= 0.06 hectare and 1.25 hectare area is under dumps/ stock yard.

3p	Production of ROM mineral during the last five year period as applicable	Production of +45% fe iron Ore as proposed 2014-15=9346T 2015-16=9266T 2016-17= 2017-18=52969T 2018-19=60469 T	Production of +45% fe iron Ore as acheived 2014-15=10580T 2015-16=10414T 2016-17=347T 2017-18=20000T 2018-19=7290T
3q	General remarks of inspecting officers on method of mining etc.		The recovery of 39% from the ROM was assessed in the approved mining plan, however the reason for increase in recovery for the year 2018-19 need to be clarified by the lessee.

Solid Waste Management - Dumping:

Sl.No.	Item	Propasals	Actual work	Remarks
4a	Separate dumping of topsoil, OB and mineral rejects (Rule 32,33)	Separate dumping of mineral reject of less than 45% fe proposed.	Separate dumping of waste and mineral are seen. However the analysis report thereof has not been produced during inspection.	
4b	Location of topsoil, OB and mineral reject dumps	Mineral reject dumping proposed at N250-350 , EE300-E375	Waste dump is there as per proposal	
4c	Number of dumps within lease area and outside of lease area	One major waste dump proposed	One main waste dump And two fine Iron Ore dumps are seen. Apart from this heaps of iron ore fine is also found near the crusher.	
4d	Location of dumps w.r.t. ultimate pit limit (Rule 16)	The dump is proposed on the non ferruginous zone as per geological plan	The area need to be explored further to prove the absence of mineral in light of it's submission in the document that mineral is existing below the non mineralized quartzite as well.	
4e	Number of active and alive dumps.	lwaste dump	The said waste dump is active and alive, It is about-12m high.	
4f	Number of dead dumps.	Nil	Nil	

4g	Number of dumps established.	No proposal for dump stabilisation	Only one active waste dump is there
4h	Whether Retaining wall or garland drain all along dumps are there.	2018-19- 420m retaining wall proposed	Not done.
4i	Length of Retaining wall or garland drain all along dumps	2018-19- 420m retaining wall proposed	Not done.
4j	Number of settling ponds	No proposal	not done

Solid Waste Management - Backfilling:

Sl.No.	Item	Propasals	Actual work	Remarks
5a	Status of part or full extraction of mineral from mined out area before starting backfilling.	No proposal	Not applicable	
5b	Area under backfilling of mined out area	No proposal	Nil	
5c	Concurrent use of topsoil for restoration or rehabilitation of mineral out area (Rule 32)	No proposal	No top soil generated	
5d	Total area fully reclaimed and rehabilitated	Not applicable	Not applicable	
5e	General remarks of inspecting officers on backfilling and reclamation etc.		Are is not mature for the purpose of backfilling and reclamation.	

Progressive Mine Clousre Plan:

Sl.No.	Item	Propasals	Actual work	Remarks
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6a	Whether Annual report on PMCP submitted on time and correctly. Rule 23 E(2).		Not submitted.
6b	Area available for rehabilitation (ha) .	No proposal for mgmt. of worked out bench.	Not done
6c	afforestation done (ha).	No proposal for mgmt. of worked out bench.	Not done on worked out bench.
6d	No. of saplings planted during the year	No proposal for mgmt. of worked out bench.	Not done
6e	Cumulative no .of plants	No proposal for mgmt. of worked out bench.	Not applicable at present.
6f	Any other method of rehabilitation	Nor proposal	not being undertaken at present.
6g	Cost incurred on watch and care during the year	-----	-----
6h	Compliance on reclamation and rehabilitation by backfilling (i) Voids available for backfilling (Lx B x D	No proposal for reclamation and rehabilitation by backfilling.	Not done
6i	Compliance on reclamation and rehabilitation by backfilling (ii) Voids filled by waste / tailings	No proposal for reclamation and rehabilitation by backfilling.	Not done
6j	Compliance on reclamation and rehabilitation by backfilling (iii)Afforestation on on backfilled area	No proposal for reclamation and rehabilitation by backfilling.	Not done

6k	Compliance on reclamation and rehabilitation by backfilling (iv) Rehabilitation by making water reservoir	No rproposal	not done
6l	Compliance on reclamation and rehabilitation by backfilling (v)any other specific means.	No proposal	Not done at present.
6m	Compliance of rehabilitation of waste land within lease (i)afforestation	2018-19 150 sapling over 0.1 hectare area proposed	Undertaken as per proposal
6n	Compliance of rehabilitation of waste land within lease (ii)Area rehabilitation (ha)		About 0.2 hectare waste land i.e, 7.5m biffer zone has been planted.
6o	Compliance of rehabilitation of waste land within lease (iii)Method of rehabilitation	Plantation proposed	Plantation done on part of 7.5m biffer zone.
6p	Compliance of environmental monitoring (core zone and buffer zone)		Not done

Mineral Conservation:

Sl.No.	Item	Propasals	Actual work	Remarks
7a	ROM Mineral dispatch or grade-wise sorting within lease area	Grade wise sorting proposed	As proposed grade wise sorting is done by screening.	
7b	Method of grade-wise mineral sorting i.e. manual or mechanical.	Manual screening proposed	Mechanical Screen observed in the field	

7c	Different grade of mineral sorted out at mines.	No detailed submission	Lumps and fine of <55% Fe generation is reported in the year 2018-19.
7d	Any beneficiation process at mines	----	Screening and sorting is undertaken.

Environment:

Sl.No.	Item	Propasals	Actual work	Remarks
8a	Separate removal and utilization of topsoil (Rule 32)	No proposal	Not done as the working is devoid of top soil	
8b	Concurrent use or storage of topsoil	No proposal	Not done	
8c	Separate dumps for overburden, waste rock, rejects and fines (Rule 33)	Proposed	Done as per proposal for waste and fine.	
8d	Use of overburden, waste rock, rejects and fines dumps for restoring the land to its original use	No proposal in 2018-19	Not done.	
8e	Phased restoration, reclamation and rehabilitation of lands affected by mining operations (Pits, dumps etc)	No proposal	Not done	
8f	Baseline information on existence of plantation and additional plantation done (Rule 41)		150 saplings planted in 2018-19.	
8g	Survival rate		50% survival reported	

8h Water sprinkling proposed on roads to control airborne dust Done accordingly.

Compliance of Rule 45:

Sl.No.	Item	Propasals	Actual work	Remarks
9a	Status of submission of Monthly and Annual returns		M.R. Submitted upto feb 2020 A.R. Submitted up to 2018-19	
9b	Scrutiny of Annual return for information on Mining Engineer, Geologist and Manager	No information given	Not appointed.	
9c	Scrutiny of Annual return on land use pattern for area under pits, reclaimed area, dumps etc.	Pit -2.5 hectare Dump-1.25ha. Infra-0.6 ha.	Broadly the same.	
9d	Scrutiny of Annual return on afforestation	150 saplings with 50% survival	Broadly the same.	
9e	Scrutiny of Annual return on mineral reject generation (Grade and quantity)	NIL reported	As per proposal	
9f	Scrutiny of Annual return on ROM stock and/or graded ore	6740 T of lumps and 550T of fines of < 55% Fe is reported to be generated.	The stock of lumps and fines has been observed in the field. Production is as per the record available at the site in prod register.	
9g	Scrutiny of Annual return on sale value, Ex. Mine price and production cost	CoP reported as 351/- PMT whereas sale value is reported as 500/- PMT	the domestic transfer is reported at a rate lesser than ASP in the monthly return for jan 2020	
9h	Scrutiny of Annual return on fixed assets	Submitted	----	

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

Violation observed			Show cause position		
Rule NO.	Issued on	Compliance on	Rule NO.	Issued on	Compliance on
MCDR17	Rule 11(1)	22/05/2020			
	Rule 45(7)	22/05/2020			
MCDR17	Rule 26(1)	22/05/2020			
MCDR17	Rule 26(2)	22/05/2020			
MCDR17	Rule 35(2)	22/05/2020			

Date :

(MANISH K MAINDIRATTA)

Indian Bureau of Mines