

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

MCDR INSPECTION REPORT

Hyderabad regional office

Mine file No : AP/KNL/FE-61/HYD

Mine code : 30APR11027

- (i) Name of the Inspecting : **S41**) **Y M SIVA PRASAD**
Officer and ID No.
- (ii) Designation : Assistant Mining Engineer
- (iii) Accompanying mine : Basha, Mines Manager.
Official with
Designation
- (iv) Date of Inspection : 05/07/2017
- (v) Prev.inspection date : 19/11/2016

PART-I : GENERAL INFORMATION

1. (a) **Mine Name** : **THAVASIKONDA**
- (b) **Registration NO.** :
- (c) Category : B Manual
- (d) Type of Working : Opencast
- (e) Postal address :
State : **ANDHRA PRADESH**
District : **KURNOOL**
Village :
Taluka :
Post office :
Pin Code :
FAX No. : **08516-276111**
E-mail :
Phone :
- (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, BETHAMCHERLA**
DIST- KURNOOL , A.P-518599
3. (a) Lease Number : **APR2769**
- (b) Lease area : **32**
- (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 :

Owner : B.SANJEEVA REDDY
25/512,SRINIVASA NAGAR
NANDYAL KURNOOL ANDHRA
PRADESH
Phone: 08514 - 242356
FAX :

6. Date of approval of Mining : Fresh under rule 22 MCR1960 02/08/2006
Plan/Scheme of Mining Mining Scheme rule 12 MCDR1988 19/11/2014

PART - II : OBSERVATION/COMMENTS OF INSPECTING OFFICERS

Exploration :

Sl.No.	Item	Proposals	Actual work	Remarks
1a	Backlog of previous year	N I L	N I L	
1b	Exploration over lease area for geological axis 1 or 2	06 no. of core bore holrs.	The lessee has not carried out exploration as proposed for the year 2016-17.	The lessee has not carried out exploration as proposed for the year 2016-17.Hence violation of rule 11(10 MCDR 2017 is pointed out to lessee and issued vide this office letter no.AP/KNL/LST-61/Hyd dated 19.7.2017.
1e	Balance reserve as on 01/04/20	71, 8 22 T.	2, 22, 066 T.	The balance reserve is more than the proposed as anticipated is achieved due to poor market conditions . .
1f	General remarks of inspecting officers on geology, exploration etc			

Development :

Sl.No.	Item	Proposals	Actual work	Remarks
2a	Location of development w.r.t.lease area	The development proposed between section C-C' to F-F'	The development proposed between section C-C' to F-F'	
2b	Separate benches in topsoil, overburden and minerals (Rule 15)	seperate benches in OB has been proposed.	As proposed the benches have been formed.	
2c	Stripping ratio or ore to OB ratio	1 : 1.24	1: 1	The ratio is less due to to the fact that less production on account of poor market conditions.

2d	Quantity of topsoil generation in m3	There is no proposals of soil generation.	N I L	
2e	Quantity of overburden generation in m3	58861 T		
2f	General remarks of inspecting officers on development of pit w.r.t. type of deposit etc	N I L	N I L	The targetted production is less due to poor market demand.

Exploitation:

Sl.No.	Item	Propasals	Actual work	Remarks
3a	Number of pit proposed for production	One pit, proposed in between section C'-C' TO F'-F'.	One pit, proposed in between section C'-C' TO F'-F'.	The targetted production could not be achieved due to poor market conditions.
3b	Quantity of ROM mineral production proposed	71,045 Tonnes	25,700 Tonnes	
3c	Recovery of sailable/usable mineral from ROM production	40% float ore, 29% from ferruginous shale	35% float ore, 30% from Ferruginous Shale.	
3d	Quantity of mineral reject generation	29,534 Tonnes.	600 Tonnes.	
3e	Grade of mineral rejects generation and threshold value declared.	Threshold value declared is 45% Fe content.No mineral reject grade is furnished.	The grade of Mineral reject is 35% Fe content and the threshold value declared is 45% Fe content.	
3f	Quantity of sub grade mineral generation.	No generation of subgrade mineal is proposed.	-	
3g	Grade of sub grade mineral generation	No details have been proposed.	-	
3h	Manual / Mechanised method adopted for segregating from ROM	Manual method.	Manual method.	

3i	Any analysis or beneficiation study proposed and carried out for sub grade mineral and rejects.	No such proposals have been made.	-	
3j	Provision of drilling and blasting in mineral benches	Drilling and blasting.	As proposed drilling and blasting is practiced.	
3k	Provision of mining machineries in mineral benches	Provision has been made.	As proposed , it has been done.	
3l	Whether height of benches in overburden and mineral suitable for method of mining proposed in MP/SOM	Yes.	Done.	
3m	Total area covered under excavation/pits	8.5 ha	253.	
3n	Ore to OB ratio for the pit/mine during the year.	1 : 1.21	1 : 1	
3o	Total area put in use under different heads at the end of year	10.51 HA	8.15 HA	
3p	Production of ROM mineral during the last five year period as applicable	2012-13 : 89.450 T, 2013-14 : No proposals (document is under process.),	2012-13 : 66,654 T. 2013-14 : 37,345 T, 2014-15 : 30,522 T 2015-16 : 1530 T. AND 2016-17 : 25,700 Tonnes.	Production is less than thetargetted [ropoduction for want of market demand.

2014-
15 : 70,896 T.
2015-16 :
70,964 T, AND
2016-17 :
71,045 T.

3q	General remarks of inspecting officers on method of mining etc.	Open cast semimechanised method of mining.	As proposed semimechanised opencast method of mining is practiced. Excavation is done machanically by deploying JCB Excavator and where as ore sorting is done by manually.
----	---	--	---

Solid Waste Management - Dumping:

Sl.No.	Item	Propasals	Actual work	Remarks
4a	Separate dumping of topsoil, OB and mineral rejects (Rule 32,33)	No top soil and mineral rejec dumps have been proposed. The waste dump is proposed on the North Eastern part of the ML area.	As proposed the waste dump is dumped on the North Eastern part of the ML area.	
4b	Location of topsoil, OB and mineral reject dumps	As said the waste dump is proposed in the North Eastern part of the ML area.	As proposed the waste is dumped on the North Eastern part of ML AREA.	
4c	Number of dumps within lease area and outside of lease area	Waste dumps have been proposed at locations within MLarea. (N E and S)	There are Two waste dumps within ML area. One is on North Eastern side and other is on SAouthern side within ML area.	
4d	Location of dumps w.r.t. ultimate pit limit (Rule 16)	The proposed pits are beyond UPL.	The two dumps lie beyond UPL.	
4e	Number of active and alive dumps.	The proposed dumps are active in nature.	These two dumps are active dumps.	
4f	Number of dead dumps.	N I L	-	
4g	Number of dumps established.	None.	-	
4h	Whether Retaining wall or garland drain all along dumps are there.	Yes	Yes.	

4i	Length of Retaining wall or garland drain all along dumps	160 x 0.50 x 0.50 meters.	160 x 0.50 x 0.50 meters. Garland drain done.
4j	Number of settling ponds	N I L	-
4k	Specific comments of inspecting officer on waste dump management	Two dumps have been proposed beyond UPL.	Two dumps are in a single terrace. The height of the dumps does not exceed beyond 4m.

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 such proposals have been made as the mineral is tet to exhaust.	-	
5b	Area under backfilling of mined out area	None	-	
5c	Concurrent use of topsoil for restoration or rehabilitation of mineral out area (Rule 32)	No such proposals are made.	-	
5d	Total area fully reclaimed and rehabilitated	N I L	-	
5e	General remarks of inspecting officers on backfilling and reclamation etc.	No backfilling and reclamation proposals have been made.	-	

Progressive Mine Clousre Plan:

Sl.No.	Item	Propasals	Actual work	Remarks
6a	Whether Annual report on PMCP submitted on time and correctly. Rule 23 E(2).	Not submitted.	Violation of rule 26 (2) of MCDR 2017 has been pointed out.	

6b	Area available for rehabilitation (ha) .	No such proposals have been made.	-	
6c	afforestation done (ha).	About 520 saplings over an extent of 0.52 ha has been proposed.	Afforestation is done as proposed.	
6d	No. of saplings planted during the year	520	560. saplings.	The survival rate is less than 40% to lack of watch and ward.
6e	Cumulative no .of plants	2080 saplings	510 saplings	The survival rate is poor due to lack of watch and ward.
6f	Any other method of rehabilitation	None	-	
6g	Cost incurred on watch and care during the year	No cost details have been furnished.	-	
6h	Compliance on reclamation and rehabilitation by backfilling (i) Voids available for backfilling (Lx B x D	No such proposals have been made.	-	
6i	Compliance on reclamation and rehabilitation by backfilling (ii) Voids filled by waste / tailings	No such proposals have been made.	-	
6j	Compliance on reclamation and rehabilitation by backfilling (iii)Afforestation on on backfilled area	No such proposals have been made.	-	
6k	Compliance on reclamation and rehabilitation by backfilling (iv) Rehabilitation by making water reservoir	No such proposals have been made.	-	

6l	Compliance on reclamation and rehabilitation by backfilling (v)any other specific means.	No such proposals have been made.	-
6m	Compliance of rehabilitation of waste land within lease (i)afforestation	No such proposals have been made.	-
6n	Compliance of rehabilitation of waste land within lease (ii)Area rehabilitation (ha)	Afforestation over an extent of 0.52 ha is proposed.	Afforestation is done but the survival rate is very poor.
6o	Compliance of rehabilitation of waste land within lease (iii)Method of rehabilitation	The method proposed is by afforestation.	Afforestation is done.
6p	Compliance of environmental monitoring (core zone and buffer zone)	It is proposed to periodicle monitoring of Environmental parameters both in Core and Buffer zone.	As proposed, the monitoring is being done.
6q	General remarks of inspecting officers on PMCP compliance and progressive closure operations etc.	No reclamation and rehabilitation proposals have been proposed as the mineral is persisting at depth.	Except Afforestation programme in the buffer zone (7.5 m), no othermeans of rehabilitation is done.

Mineral Conservation:

Sl.No.	Item	Propasals	Actual work	Remarks
7a	ROM Mineral dispatch or grade-wise sorting within lease area	ROM sorting within ML area.	The sorting of ROM is done within ML area.	
7b	Method of grade-wise mineral sorting i.e. manual or mechanical.	Manual sorting is proposed	Manual sorting of ROM is done.	

7c	Different grade of mineral sorted out at mines.	Except size sorting, no grade wise sorting is proposed.	As proposed sorting is done.
7d	Any beneficiation process at mines .	Except sizing no beneficiation is proposed.	Sizing of ROM is done.
7e	General remarks of inspecting officer on Mineral conservation and beneficiation issues	The screening , sizing and sorting is proposed.	The ROM is subjected to screening, sorting & manual sorting where the mineral is effectively/metculously sorted out.

Environment:

Sl.No.	Item	Propasals	Actual work	Remarks
8a	Separate removal and utilization of topsoil (Rule 32)	There are no proposals of removal topsoil and utilisation of the same.	-	
8b	Concurrent use or storage of topsoil	No such proposals have been done.	-	
8c	Separate dumps for overburden, waste rock, rejects and fines (Rule 33)	Seperate waste rock dump is proposed.	As proposed the waste rock is dumped seperately.	
8e	Phased restoration, reclamation and rehabilitation of lands affected by mining operations (Pits, dumps etc)	No such proposals have been made.	-	
8f	Baseline information on existence of plantation and additional plantation done (Rule 41)	N A	N A	
8g	Survival rate	N A	N A.	

8h	Water sprinkling on roads to control airborne dust	Water sprinkling on haul roads is proposed.	Water sprinkling is done by water tanker on haul roads.
8i	General remarks of inspecting officer on aesthetic beauty in and around mines area		

Compliance of Rule 45:

Sl.No.	Item	Propasals	Actual work	Remarks
9a	Status of submission of Monthly and Annual returns	Monthly returns and Annual returns should be submitted as per Statue.	Monthly returns since September 2017 and Annual return for the year 2016-17 have not been submitted.	The violation of rules 45(6)(a) and 45(6)(b) of MCDR 2017 are pointed out to lessee.
9b	Scrutiny of Annual return for information on Mining Engineer, Geologist and Manager	Does not arise -		
9c	Scrutiny of Annual return on land use pattern for area under pits, reclaimed area, dumps etc.	NA	-	
9d	Scrutiny of Annual return on afforestation	NA		
9e	Scrutiny of Annual return on mineral reject generation (Grade and quantity)	Not Applicable -		
9f	Scrutiny of Annual return on ROM stock and/or graded ore	NA	-	
9g	Scrutiny of Annual return on sale value, Ex. Mine price and production cost	Not Applicable -		

9k	Scrutiny of Annual return on mining machineries	Does not arise.	NA
----	--	--------------------	----

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)	19/07/2017			
MCDR17	Rule 26(2)	19/07/2017			
MCDR17	Rule 45(6)(a)	19/07/2017			
MCDR17	Rule 45(6)(b)	19/07/2017			

Date :

(Y M SIVA PRASAD)

Indian Bureau of Mines