

INDIAN BUREAU OF MINES
MINERALS DEVELOPEMMENT AND REGULATION DIVISION

MCDR inspection REPORT

Hyderabad regional office

Mine file No : AP/KSN/FE-11/HYD

Mine code : 30APR10003

- (i) Name of the Inspecting : 25) SHRI IBRAHIM SARIF
Officer and ID No.
- (ii) Designation : Sr. Asst. Contrl. Mines
- (iii) Accompanying mine : S S Siva Prasad Rao, Nominated Owner
Official with
Designation
- (iv) Date of Inspection : 03-NOV-21
- (v) Prev.inspection date : 12-SEP-15

PART-I : GENERAL INFORMATION

1. (a) Mine Name : GANDRAI (9.261 HA)
- (b) Registration NO. : IBM/5634/2011
- (c) Category : B Manual
- (d) Type of Working : Opencast
- (e) Postal address :
State : ANDHRA PRADESH
District : KRISHNA
Village : Gandrai
Taluka : Jaggayyapeta
Post office : Gandrai
Pin Code :
FAX No. :
E-mail : surapaneniprasad54@gmail.c
Phone : 9394411990
- (f) Police Station : CHILLAKALLU
- (g) First opening date : 20-JUL-08
- (h) Weekly day of rest : SUN
2. Address for : SRI SIVAPRASADA RAO, Mg.Partner,
correspondance M/S LAKSHMI ENTERPRISES, Ratna Laboratory,40-1-1
I Floor, Sai Tower, NCB Colony, Benz Circle, Vij
3. (a) Lease Number : APR2661
- (b) Lease area : 9.27
- (c) Period of lease : 20 50
- (d) Date of Expiry : 25-JUN-28 2058 .
4. Mineral worked : IRON ORE Main

5. Name and Address of the

Lessee : M/SLAKSHMI ENTERPRISES
KRISHNA ANDHRA PRADESH
Phone:
FAX :

Owner : M/SLAKSHMI ENTERPRISIS
SRI SIVAPRASAD RAO, MG
PARTNER H.NO. 40-1-101/A,
SAI TOWERS, NCB COLONY,
BENJ CIRCLE, VIJAYAWADA
KRISHNA ANDHRA PRADESH
Phone:
FAX :

6. Date of approval of Mining	:	Fresh under rule 22 MCR1960	20-APR-07
Plan/Scheme of Mining	:	Mining Scheme rule 12 MCDR1988	04-FEB-15
	:	MP review under 17(1) MCR 2016	28-NOV-18

PART - II : OBSERVATION/COMMENTS OF INSPECTING OFFICERS

Exploration :

Sl.No.	Item	Proposals	Actual work	Remarks
1a	Backlog of previous year	No backlogging in previous year.	Not applicable.	
1b	Exploration over lease area for geological axis 1 or 2	No proposal for the year 2020-21.	Not applicable	Entire lease area has been explored in G1 scale.
1c	Exploration Agencies and Expenditure in lakh rupees during the year	No proposal during the year 2020-21	Nil	Rs. 2,25,000 spent on exploration so far by the lessee
1d	Balance area to be explored to bring Geological axis in 1 or 2	No proposal during the year 2020-21	Nil	
1e	Balance reserve as on 01/04/20	As on 01.04.2021: As per latest approved review of Mining Plan 111 : 19273 Tonnes 122 : 18727 Tonnes Total 38,000 Tonnes Reserves depleted as per approved production :	As on 01.04.2021: As per latest approved review of Mining Plan 111 : 19273 Tonnes 122 : 18727 Tonnes Total 38,000 Tonnes Reserves depleted as per production reported : 2018-19 : Nil 2019-20 : 90 Tonnes 2020-21 : 60 Tonnes Balance reserves : 37,850 tonnes	
		2018-19 : 2000 Tonnes 2019-20 : 2000 Tonnes 2020-21 : 2000 Tonnes Balance reserves : 32,000 Tonnes		

1f	General remarks of inspecting officers on geology, exploration etc	The ore in this lease area is float ore with out crops of Iron ore with mineralisation from 0.5 meters to 0.8 meters only. The entire mineralised area of the lease has been explored in G1 scale by 28 no. of trial pits in grid intervals of 40 x 40 meters and 50 x 50 meters.
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Development :

Sl.No.	Item	Propasals	Actual work	Remarks
2a	Location of development w.r.t.lease area	N 404120 to 404223 E 1875465 to 1875482 100 MRL to 101 MRL	Production and development are being carried out within approved proposals of the plan period.	
2b	Separate benches in topsoil, overburden and minerals (Rule 15)	No such proposal of maintaining bench of Top soil/ Overburden	Not applicable	The ore occurrence is of float ore type.
2c	Stripping ratio or ore to OB ratio	1 : 2.125	Nil	
2d	Quantity of topsoil generation in m3	No proposal for the year 2020-21	No Top soil generated during the year	
2e	Quantity of overburden generation in m3	1465.4 cum of interburden/ waste to be generated	Nil	
2f	General remarks of inspecting officers on development of pit w.r.t. type of deposit etc			This is float ore deposit. Mining operation are carried out by manual method.

Exploitation:

Sl.No.	Item	Propasals	Actual work	Remarks
3a	Number of pit proposed for production	One Pit	One pit	
3b	Quantity of ROM mineral production proposed	F.Y 2020-21 : 2000 Tonnes	F.Y 2020-21 : 60 Tonnes	Less production due to Covid pendamic and scarcity of labour availability
3c	Recovery of sailable/usable mineral from ROM production	Notmentioned in the approved Mining Plan	-	
3d	Quantity of mineral reject generation	No proposal for the year 2020-21	Not applicable	
3e	Grade of mineral rejects generation and threshold value declared.	Threshold value notified by IBM is 45% Fe and same is being considered in the approved RMP. Ore above threshold value is saleable and Below is Mineral reject after beneficiation. However no proposal of generation of mineral reject is anticipated.	Nil during the year	
3f	Quantity of sub grade mineral generation.	No proposal for the year 2020-21	Not applicable	
3g	Grade of sub grade mineral generation	Not applicable	-	

3h	Manual / Mechanised method adopted for segregating from ROM	Manual mehod to be adopted for segregation of ore	Manual method is adopted for segregation of ore	
3i	Any analysis or beneficiation study proposed and carried out for sub grade mineral and rejects.	No beneficiation study has been proposed during plan period.	Not Applicable	
3j	Provision of drilling and blasting in mineral benches	No proposal for the year 2020-21	Nil	No drilling and Blasting is being carried out as the deposit is of float ore.
3k	Provision of mining machineries in mineral benches	No proposal for the year 2020-21	Nil	
3l	Whether height of benches in overburden and mineral suitable for method of mining proposed in MP/SOM	Not applicable -		
3m	Total area covered under excavation/pits	2.0356 Ha up to plan period	Area coverd under excavation is within approved proposals of 2.0356 Ha	
3n	Ore to OB ratio for the pit/mine during the year.	1 : 2.125	Nil	
3o	Total area put in use under different heads at the end of year	Total area put to use is 3.5066 Ha up to plan period	Mining operations are carried out within approved proposals i.e 3.5066 Ha.	

3p	Production of ROM mineral during the last five year period as applicable	2016-17 : 2000 Tonnes 2017-18 : 2000 Tonnes 2018-19 : 2000 Tonnes 2019-20 : 2000 Tonnes 2020-21 : 2000 Tonnes	2016- 17 : 30 Tonnes 2017-18 : 430 Tonnes 2018-19 : Nil 2019-20 : 90 Tonnes 2020-21 : 60 Tonnes
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3q General remarks of inspecting officers on method of mining etc.

Manual method of mining is carried out.

Solid Waste Management - Dumping:

Sl.No.	Item	Propasals	Actual work	Remarks
4a	Separate dumping of topsoil, OB and mineral rejects (Rule 32,33)	No proposal for the year 2020-21.	Nil	
4b	Location of topsoil, OB and mineral reject dumps	No proposal for the year 2020-21.	Nil	
4c	Number of dumps within lease area and outside of lease area	No proposal of establishing external waste dump during the year 2020-21	Nil	
4d	Location of dumps w.r.t. ultimate pit limit (Rule 16)	Not applicable -		
4e	Number of active and alive dumps.	Not applicable -		
4f	Number of dead dumps.	Not applicable -		
4g	Number of dumps established.	Not applicable -		

4h	Whether Retaining wall or garland drain all along dumps are there.	Not applicable Nil as there is no external waste dump to be established		
4i	Length of Retaining wall or garland drain all along dumps	Not applicable Nil		
4j	Number of settling ponds	No proposals for the year 2020-21	Nil	
4k	Specific comments of inspecting officer on waste dump management			Interburden generated during mining is backfilled in the mined out area. No external dumps observed in the lease area.

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.	The occurrence of the ore is of float in nature and up to 0.8 meters only. After complete extraction of ore, the mined out area is to be backfilled by the waste/interburden.	After complete excavation of ore, mined out area is being backfilled.	
5b	Area under backfilling of mined out area	0.36 Ha	Development and backfilling is carried out within the approved proposals.	
5c	Concurrent use of topsoil for restoration or rehabilitation of mineral out area (Rule 32)	No proposal of generation of Top soil during the plan period	No top soil generated during the year 2020-21	

5d	Total area fully reclaimed and rehabilitated	No proposal during the year 2020-21	Nil	
5e	General remarks of inspecting officers on backfilling and reclamation etc.			Waste/ reject is being backfilled in the mined out area.

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).	To be submitted before due date.	Not submitted	Violation pointed out
6b	Area available for rehabilitation (ha) .	No proposal for the year 2020-21	Nil	
6c	afforestation done (ha).	Not mentioned in the approved mining plan	Nil	
6d	No. of saplings planted during the year	25 sapplings to be planted	25 sapplings found planted in the lease area.	
6e	Cumulative no .of plants	Not mentioned in the approved document	350 sapplings planted so far in the lease area.	
6f	Any other method of rehabilitation	No proposal for the year 2020-21	Nil	
6g	Cost incurred on watch and care during the year	No proposal for the year 2020-21	Nil	

6h	Compliance on reclamation and rehabilitation by backfilling (i) Voids available for backfilling (L x B x D	0.36 Ha	Backfilling is being carried out within approved proposals.	
6q	General remarks of inspecting officers on PMCP compliance and progressive closure operations etc.			Backfilling is being carried out in the mned out area and used for cultivation purpose.

Mineral Conservation:

Sl.No.	Item	Proposals	Actual work	Remarks
7a	ROM Mineral dispatch or grade-wise sorting within lease area	Saleable ore produced is to be dispatched.	260 Tonnes of salable ore was dispatched during the year 2020-21	
7b	Method of grade-wise mineral sorting i.e. manual or mechanical.	Manual method to be adopted for mineral sorting.	Manual method is adopted for mineral sorting.	
7c	Different grade of mineral sorted out at mines.	Above threshold value 45% Fe	As per approved proposal sorting of above threshold value ie. 45% Fe is being done	
7d	Any beneficiation process at mines .	Manual screening, sorting and sizing is proposed to be adopted	Manual screening, sorting and sizing is being done	
7e	General remarks of inspecting officer on Mineral conservation and beneficiation issues			Manual sorting and sizing is being practice to get the saleable ore

Environment:

Sl.No.	Item	Propasals	Actual work	Remarks
8a	Separate removal and utilization of topsoil (Rule 32)	No proposal for the year 2020-21	No top soil generated during the year 2020-21	
8b	Concurrent use or storage of topsoil	No proposal for the year 2020-21	Nil	
8c	Separate dumps for overburden, waste rock, rejects and fines (Rule 33)	Not applicable	Nil	No extrenal dumps are established as interburden generated is being utiised for backfilling the mined out area.
8d	Use of overburden, waste rock, rejects and fines dumps for restoring the land to its original use	Yes, inetburden/ waste generated is to be utilised for backfilling of the mined out area.	Interburden/ waste generated is being utilised for backfilling.	
8e	Phased restoration, reclamation and rehabilitation of lands affected by mining operations (Pits, dumps etc)	No proposal for the plan period	Nil	
8f	Baseline information on existence of plantation and additional plantation done (Rule 41)	25 sapplings to be planted	25 sappling found planted	
8g	Survival rate	Not mentioned in the approved plan	About 80%	
8h	Water sprinkling on roads to control airborne dust	Yes water sprinkling arrangement to be made for dust suppression	Water Sprinkling arrangements are there to supress the dust.	

8i	General remarks of inspecting officer on aesthetic beauty in and around mines area	Plantation is being carried out to improve aesthetic beauty. Depth of working is 1 meters only and after excavation mined out area is backfilled by interburden generated during sorting of ore. subsequently area is used for cultivation purpose. Impact due to shallow depth mining is not much to environment.
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Compliance of Rule 45:

Sl.No.	Item	Proposals	Actual work	Remarks
9a	Status of submission of Monthly and Annual returns	Monthly Return upto September 2021 and Annual return up to 2020-21 to be submitted timely.	Monthly return upto September-2021 and Annual return for the year 2020-21 has been submitted..	
9b	Scrutiny of Annual return for information on Mining Engineer, Geologist and Manager	Not furnished	-Not employed	Violation pointed out
9c	Scrutiny of Annual return on land use pattern for area under pits, reclaimed area, dumps etc.	Not furnished	Area is found degraded due to mining and allied activities but details are not furnished in AR 2020-21	Violation pointed out
9d	Scrutiny of Annual return on afforestation	Nil	25 sapplings planted during the year	

9e	Scrutiny of Annual return on mineral reject generation (Grade and quantity)	Nil	Nil
9f	Scrutiny of Annual return on ROM stock and/or graded ore	574 Tonnes	As submitted by lessee
9g	Scrutiny of Annual return on sale value, Ex. Mine price and production cost	Ex MIne Price : Rs. 2000/- Sale Price : Rs. 1869/- Cost of Production : Rs. 1000/-	As submitted by lessee
9h	Scrutiny of Annual return on fixed assets	Nil	Nil
9k	Scrutiny of Annual return on mining machineries	Nil	Nil

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
Rule 26(2)	07-DEC-21				
MCDR17 Rule 31(1)	07-DEC-21				
Rule 45(6)(ii)	07-DEC-21				
MCDR17 Rule 55(1)(3)	07-DEC-21				

Date :

(SHRI IBRAHIM SARIF)

Indian Bureau of Mines