

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

MCDR inspection REPORT

Hyderabad regional office

Mine file No : AP/KNL/FE-75/HYD

Mine code : 30APR11043

- (i) Name of the Inspecting : **25**) **SHRI IBRAHIM SARIF**
Officer and ID No.
- (ii) Designation : Sr. Asst. Contrl. Mines
- (iii) Accompanying mine : Sri Manikanta geologist & Sri Rambabu Manager(Mines)
Official with
Designation
- (iv) Date of Inspection : 23/01/2021
- (v) Prev.inspection date : 19/10/2016

PART-I : GENERAL INFORMATION

1. (a) **Mine Name** : **ARYA LAKSHMI STEEL PVT LT**
- (b) **Registration NO.** : **IBM/18104/2014**
- (c) Category : A Other than Fully Mech.
- (d) Type of Working : Opencast
- (e) Postal address
- State : ANDHRA PRADESH
- District : KURNOOL
- Village : TAVISIKONDA
- Taluka : BETHAMCHERLA
- Post office : GUTUPALLI
- Pin Code : 518599
- FAX No. :
- E-mail : benitamines@gmail.com
- Phone : 8309458250
- (f) Police Station : BETHAMCHERLA
- (g) First opening date : 23/11/2011
- (h) Weekly day of rest : SUN
2. Address for : 8-2-685/p1 third floor,Road no.12
correspondance : Opp: Police tower,Banjara Hills
Hyderabad-500034
3. (a) Lease Number : APR3270
- (b) Lease area : 32.91
- (c) Period of lease : 20
- (d) Date of Expiry : 08/12/2031
4. Mineral worked : IRON ORE Main

5. Name and Address of the

Lessee : M/s Shree Arya Lakshmi Steel Pvt. Ltd.
 D-201, Aditya Elite, BS
 Maktha, Somajiguda,
 Hyderabad HYDERABAD
 TELANGANA
 Phone:
 FAX :

Owner : U.BHARGAV
 D-201, Aditya Elite, BS
 Maktha, Somajiguda,
 Hyderabad, Telangana ST
 HYDERABAD TELANGANA
 Phone:
 FAX :

Mining Engineer

Name : M VINAY KUMAR, Full Time
 Qualification : BE MINING
 Appointment/ :
 Termination date

Geologist

Name : Manikanta, Full Time
 Qualification : MSc
 Appointment/ :
 Termination date

6. Date of approval of Mining	:	Fresh under rule 22 MCR1960	20/05/2009
Plan/Scheme of Mining	:	MP review under 17(1) MCR 2016	17/06/2019

PART - II : OBSERVATION/COMMENTS OF INSPECTING OFFICERS

Exploration :

Sl.No.	Item	Proposals	Actual work	Remarks
1a	Backlog of previous year	11 DTH Bore holes	11 DTH Bore holes drilled	
1b	Exploration over lease area for geological axis 1 or 2		The area covered under G1 scale:7.433 ha Area covered under G2 scale: 5.224 ha Area under G3 scale: 1.261 ha Area under G4 scale: 18.997 ha	
1d	Balance area to be explored to bring Geological axis in 1 or 2		The area to be upgraded to G1 scale is 25.482 ha	
1e	Balance reserve as on 01/04/20		The reserve/resource as on 1.4.2021 is as follows: (122) 1129845 tonnes (222) 227445 tonnes (333)703725 tonnes	
1f	General remarks of inspecting officers on geology, exploration etc			None

Development :

Sl.No.	Item	Proposals	Actual work	Remarks
2a	Location of development w.r.t.lease area	N-1709850 to N 1701000 & E 184784 to E 184954 N-1709677 to N 1709875 & E 184630 to E 184874 N-1709480 to N 1709647 & E 184574 to E 184776	The mining operations area found more or less within proposals.	
2b	Separate benches in topsoil, overburden and minerals (Rule 15)	It was proposed to develop one bench in OB and two benches in Mineral/ore	The same was noticed during the inspection	

2c	Stripping ratio or ore to OB ratio	1:4.06	1:2.35	
2d	Quantity of topsoil generation in m3	No proposal	Nil	
2e	Quantity of overburden generation in m3	452825	40303	The reason for less generation of waste is due to less production of iron ore.
2f	General remarks of inspecting officers on development of pit w.r.t. type of deposit etc			Development activities are carried out more or less as within the proposals.

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	334125 T	Actual production reported was 17150 tonnes.	
3c	Recovery of sailable/usable mineral from ROM production	---	None	
3d	Quantity of mineral reject generation	Nil	Nil	
3e	Grade of mineral rejects generation and threshold value declared.	Nil	Nil	None
3f	Quantity of sub grade mineral generation.	Nil	Nil	None
3g	Grade of sub grade mineral generation	Nil	None	None
3h	Manual / Mechanised method adopted for segregating from ROM	Mechanisation	Mechanisation	

3i	Any analysis or beneficiation study proposed and carried out for sub grade mineral and rejects.	NO proposal	Nil
3j	Provision of drilling and blasting in mineral benches	Provision has been made for deploying Deep Hole Drilling with 115 mm dia drill and blasting is being done using High explosives in mineral benches. The powder factor anticipated is 9 kgs/tonne	Drilling and Blasting is being carried out as per proposals.
3k	Provision of mining machineries in mineral benches	0.9 cum capacity Hydraulic excavators along with 10 Tonne capacity tippers, 115 mm dia Drilling Machines.	The above machineries are being used to carry out mining operations
3l	Whether height of benches in overburden and mineral suitable for method of mining proposed in MP/SOM	it is proposed to work with a bench height of 4-6 meters	Bench height of 6 meters is suitable for 0.9 cum capacity excavator used.
3m	Total area covered under excavation/pits	6.9686 Ha	3.0520 Ha
3n	Ore to OB ratio for the pit/mine during the year.	1 : 4.06	1 : 2.35
3o	Total area put in use under different heads at the end of year	12.268 Ha	Area under mine workings: 2.856 ha Area under dumps: 2.370 ha Area under infrastructure: 2.721 ha

3q	General remarks of inspecting officers on method of mining etc.	Mechanised method of mining is being practise using HEMM with Deep hole Drilling and Blasting by maintaining bench height of 6 meters and width more than the height.
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Solid Waste Management - Dumping:

Sl.No.	Item	Propasals	Actual work	Remarks
4a	Separate dumping of topsoil, OB and mineral rejects (Rule 32,33)	It was proposed to dump OB seperately	The same was noticed duirng the inspection	
4b	Location of topsoil, OB and mineral reject dumps		None	None
4c	Number of dumps within lease area and outside of lease area	It was proposed to have two dumps on Eastern side of lease.	Two dumps on Eastern side were noticed during the inspection	
4d	Location of dumps w.r.t. ultimate pit limit (Rule 16)	Two dumps are located on Eastern side of the leased	The same was observed during the inspection	
4e	Number of active and alive dumps.	Two active dumps	Two active dumps	
4f	Number of dead dumps.	Nil	Nil	
4g	Number of dumps established.	Two	Two	
4h	Whether Retaining wall or garland drain all along dumps are there.	No proposal	Nil during he year	
4i	Length of Retaining wall or garland drain all along dumps	Nil	None	
4j	Number of settling ponds	No proposal	Nil	

4k	Specific comments of inspecting officer on waste dump management	None	None
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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.	--	None	None
5b	Area under backfilling of mined out area	--	None	None
5c	Concurrent use of topsoil for restoration or rehabilitation of mineral out area (Rule 32)	--	None	None
5d	Total area fully reclaimed and rehabilitated	--	None	
5e	General remarks of inspecting officers on backfilling and reclamation etc.		None	

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	Yes Submitted	
6b	Area available for rehabilitation (ha) .	--	None	None
6c	afforestation done (ha).	--	0.25 Ha	

6d	No. of saplings planted during the year	100	100
6f	Any other method of rehabilitation	---	None
6h	Compliance on reclamation and rehabilitation by backfilling (i) Voids available for backfilling (L x B x D	--	None
6i	Compliance on reclamation and rehabilitation by backfilling (ii) Voids filled by waste / tailings	None	None
6j	Compliance on reclamation and rehabilitation by backfilling (iii) Afforestation on on backfilled area	None	None
6k	Compliance on reclamation and rehabilitation by backfilling (iv) Rehabilitation by making water reservoir	None	None
6l	Compliance on reclamation and rehabilitation by backfilling (v) any other specific means.	None	None
6m	Compliance of rehabilitation of waste land within lease (i) afforestation	No proposal	None
6n	Compliance of rehabilitation of waste land within lease (ii) Area rehabilitation (ha)	No proposal	Nil

6o	Compliance of rehabilitation of waste land within lease (iii)Method of rehabilitation	No proposal	Nil
6p	Compliance of environmental monitoring (core zone and buffer zone)		The environmental parameters monitoring has been carried out both in the core and buffer zone. All the parameters are within the permissible limits
6q	General remarks of inspecting officers on PMCP compliance and progressive closure operations etc.		Plantation is being carried out to improve aesthetic beauty and Environment Monitoring is being carried out by the lessee.

Mineral Conservation:

Sl.No.	Item	Propasals	Actual work	Remarks
7a	ROM Mineral dispatch or grade-wise sorting within lease area	None	Nil	
7b	Method of grade-wise mineral sorting i.e. manual or mechanical.	Mechanised	Mechanised	
7c	Different grade of mineral sorted out at mines.	None	None	
7d	Any beneficiation process at mines	Only Crushing and Screening	SAME is being practised	
7e	General remarks of inspecting officer on Mineral conservation and beneficiation issues		Crushing and Screening is being practised in the lease area	

Environment:

Sl.No.	Item	Propasals	Actual work	Remarks
8a	Separate removal and utilization of topsoil (Rule 32)	No proposal	Nil	
8b	Concurrent use or storage of topsoil	Not applicable as no proposal of top soil generation	Nil	
8c	Separate dumps for overburden, waste rock, rejects and fines (Rule 33)	Yes seperate dump for OB is proposed	Nil	
8d	Use of overburden, waste rock, rejects and fines dumps for restoring the land to its original use	No proposal	Nil	
8e	Phased restoration, reclamation and rehabilitation of lands affected by mining operations (Pits, dumps etc)	NO proposal	Nil	
8f	Baseline information on existence of plantation and additional plantation done (Rule 41)	100	100	
8g	Survival rate	---	70%	
8h	Water sprinkling on roads to control airborne dust	Yes Water sprinkling arrangement to be made to suppress the dust	Water sprinkling arrangement is there for dust suppression	
8i	General remarks of inspecting officer on aesthetic beauty in and around mines area		Plantation is being carried out to improe aesthetic beauty.	

Compliance of Rule 45:

Sl.No.	Item	Propasals	Actual work	Remarks
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9a	Status of submission of Monthly and Annual returns	Monthly/ Annual returns to be submitted regularly	Submitted Regularly
9b	Scrutiny of Annual return for information on Mining Engineer, Geologist and Manager	Mining Engineer in charge M.VINAY KUMAR Geologist in charge S.MANIKANTA	Mining Engineer in charge M.VINAY KUMAR Geologist in charge S.MANIKANTA
9c	Scrutiny of Annual return on land use pattern for area under pits, reclaimed area, dumps etc.	Covered under current (O/C) Workings :2.856 Ha, Waste Disposal : 3.37, Occupied by plant, buildings, residential, welfare buildings & roads :2.271 Ha, Other Purpose (Stock yard): 0.208 Ha	Covered under current (O/C) Workings :2.856 Ha, Waste Disposal : 3.37, Occupied by plant, buildings, residential, welfare buildings & roads :2.271 Ha, Other Purpose (Stock yard): 0.208 Ha
9d	Scrutiny of Annual return on afforestation	50	100 sapplings planted
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	Lumps : 9773 Tonnes Fines : 3150 Tonnes	More or less as furnished
9g	Scrutiny of Annual return on sale value, Ex. Mine price and production cost	EMP : Rs. 820 & Rs. 600 COP : Rs. 365	As submitted by Lessee
9h	Scrutiny of Annual return on fixed assets	it was reported that total value of fixed assets was Rs. 850000	As submitted by Lessee
9k	Scrutiny of Annual return on mining machineries	Shovel : 2.1 cum capacity Tipper : 8.0 cum capacity	thec same was noticed duiring the inspection.

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

Date :

(SHRI IBRAHIM SARIF)

Indian Bureau of Mines