

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

**Review and updation of Mining Plan REPORT**

**Hyderabad regional office**

**Mine file No :** AP/NLR/FE-4

**Mine code :** 30APR15003

- (i) Name of the Inspecting : **M001** ) **S K MUDULI**  
Officer and ID No.
- (ii) Designation : Junior Mining Geologist
- (iii) Accompanying mine : **MOHAMMED JAFARULLAH, MINES MANAGER**  
Official with  
Designation
- (iv) Date of Inspection : 06/03/2021
- (v) Prev.inspection date :

**PART-I : GENERAL INFORMATION**

1. (a) **Mine Name** : **SIRASANAMBEDU(40.169 HA)**
- (b) **Registration NO.** :
- (c) Category : B Manual
- (d) Type of Working : Opencast
- (e) Postal address  
State : **ANDHRA PRADESH**  
District : **NELLORE**  
Village :  
Taluka :  
Post office :  
Pin Code :  
FAX No. :  
E-mail :  
Phone :
- (f) Police Station :
- (g) First opening date : 09/04/2006
- (h) Weekly day of rest : SUN
2. Address for :  
correspondance
3. (a) Lease Number : APR3004
- (b) Lease area : 40.48
- (c) Period of lease : 20
- (d) Date of Expiry : 23/02/2026
4. Mineral worked : IRON ORE Main  
LATERITE Associated

## 5. Name and Address of the

Lessee : M/S SAI DHARANI SPONGE IRON(P)LTD  
M/S.SAI DHARANI SPONGE  
IRON(P)LTD H.NO 5-90S.R.  
NAIKNAGAR,IDA JEEDIME  
TTA,HYDERABAD-55 HYDERABAD  
TELANGANA  
Phone:  
FAX :

Owner : SAI DHARANI SPONGE IRON (P) LTD.  
TADIPARTI (V), PODALKUR  
(M), NELLORE DIST NELLORE  
ANDHRA PRADESH  
Phone:  
FAX :

6. Date of approval of Mining	:	Fresh under rule 22 MCR1960	10/01/2006
Plan/Scheme of Mining	:	Mining Scheme rule 12 MCDR1988	29/09/2014
	:	MP modif under 17(3) MCR 2016	31/08/2016

## PART - II : OBSERVATION/COMMENTS OF INSPECTING OFFICERS

## Exploration :

Sl.No.	Item	Proposals	Actual work	Remarks
1a	Backlog of previous year	No exploration proposal in 2019-20 and also in 2020-21	Nil during 2019-20 and 2020-21	
1b	Exploration over lease area for geological axis 1 or 2	Entire lease area to be explored by 2017-18.	Exploration proposed has not been completed.	Mine has been suspended by IBM on 31.10.2018 for violating provision of rule 11(1) of MCDR-2017.
1c	Exploration Agencies and Expenditure in lakh rupees during the year	No exploration proposal in 2019-20 and also in 2020-21	No exploration during 2019-20 and 2020-21	
1d	Balance area to be explored to bring Geological axis in 1 or 2	About 14 Ha	About 14 Ha	
1e	Balance reserve as on 01/04/20		1005320 tonnes under 122 category Reserves.	
1f	General remarks of inspecting officers on geology, exploration etc			The iron ore formation is of float type.

## Development :

Sl.No.	Item	Proposals	Actual work	Remarks
2a	Location of development w.r.t.lease area	00- S180 & W200 -W420, SW part of the lease area during 2019-20 N20- S320 & W40 -W520, SW part of the lease area during 2020-21	No Production and developement during 2019-20 and 2020-21	Mine suspended on 31.10.2018 for violating provision of rule 11(1) of MCDR-2017.
2b	Separate benches in topsoil, overburden and minerals (Rule 15)	No proposal	Deposit is of float type no overburden is there hence no need to maintain seperate bench for ore and waste	

2c	Stripping ratio or ore to OB ratio	1:0.31 during 2019-20 and 2020-21	Nil as there is no mining operation due to suspension	
2d	Quantity of topsoil generation in m3	Nil during 2019-20 and 2020-21	Nil	
2e	Quantity of overburden generation in m3	OB-NIL during 2019-20 and 2020-21 IW-8676 Cu.M and 8688 Cu.M during 2019-20 and 2020-21	Nil during 2019-20 and 2020-21	
2f	General remarks of inspecting officers on development of pit w.r.t. type of deposit etc			There are in total eight mining pits. Pits are developed in elongated fashion.

#### Exploitation:

Sl.No.	Item	Propasals	Actual work	Remarks
3a	Number of pit proposed for production	One	No production during 2019-20 and 2020-21	
3b	Quantity of ROM mineral production proposed	27474 Cu.M in 2019-20 27512 Cu.M in 2020-21	Nil during 2019-20 and 2020-21	
3c	Recovery of sailable/usable mineral from ROM production	76%	No production during 2019-20 and 2020-21	
3d	Quantity of mineral reject generation	No proposal during 2019-20 and 2020-21	Nil	
3e	Grade of mineral rejects generation and threshold value declared.	Not applicable	Not applicable	
3f	Quantity of sub grade mineral generation.	No proposal during 2019-20 and 2020-21	Nil	
3g	Grade of sub grade mineral generation	Not applicable	Not applicable	
3h	Manual / Mechanised method adopted for segregating from ROM	Mechanised	Mechanised	

3i	Any analysis or beneficiation study proposed and carried out for sub grade mineral and rejects.	No proposal	Not done
3j	Provision of drilling and blasting in mineral benches	No drilling & blasting is proposed as the ore is easily exploitable by deploying excavator in combination with reock breaker	No drilling & blasting is being done.
3k	Provision of mining machineries in mineral benches	Excavator - 0.9 cum- 1 Tipper - 10 T - 3	Nil during 2019-20 and 2020-21
3l	Whether height of benches in overburden and mineral suitable for method of mining proposed in MP/SOM	3 m	3 m, Yes suitable for this type of deposit
3m	Total area covered under excavation/pits	17.104	About 17 Ha.
3n	Ore to OB ratio for the pit/mine during the year.	1:0.31	Nil
3o	Total area put in use under different heads at the end of year	21.632 Ha by end of 31.03.2021.	About 20 Ha
3p	Production of ROM mineral during the last five year period as applicable	2015-16 : 77530 tonnes 2016-17 : 75012 tonnes 2017-18 : 75969 tonnes 2018-19 : 76076 tonnes 2019-20 : 76927 tonnes	2015-16 : 65732 tonnes 2016-17 : 40726 tonnes 2017-18 : 13400 tonnes 2018-19- Nil tonnes 2019-20- Nil tonnes
3q	General remarks of inspecting officers on method of mining etc.		Mechanised method of mining has been adopted. Mine has been suspended by IBM on 31.10.2018.

## Solid Waste Management - Dumping:

Sl.No.	Item	Propasals	Actual work	Remarks
4a	Separate dumping of topsoil, OB and mineral rejects (Rule 32,33)	Yes	Seperate dumping of Mineral reject was found observed in the lease	
4b	Location of topsoil, OB and mineral reject dumps	On Southen side of the lease area	As per proposal	
4c	Number of dumps within lease area and outside of lease area		9 nos Mineral rject stack and 2 nos ROM stack yard.Two waste dump is there.	
4d	Location of dumps w.r.t. ultimate pit limit (Rule 16)	Outside UPL	Outside UPL	
4e	Number of active and alive dumps.		9 nos Mineral rject stack and 2 nos ROM stack yard.Two waste dump is there.	
4f	Number of dead dumps.	Nil	Nil	
4g	Number of dumps established.		9 nos Mineral rject stack and 2 nos ROM stack yard	
4h	Whether Retaining wall or garland drain all along dumps are there.	No proposal	Not done	Earlier retaining wall of 250m length is there.
4i	Length of Retaining wall or garland drain all along dumps	No proposal	Nil	
4j	Number of settling ponds	One	One	
4k	Specific comments of inspecting officer on waste dump management			9 nos Mineral reject stack and 2 nos ROM stack yard are there.Two waste dump is there.

## Solid Waste Management - Backfilling:

Sl.No.	Item	Propasals	Actual work	Remarks
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5a	Status of part or full extraction of mineral from mined out area before starting backfilling.	Northern part of the Quarry	Mineral found to be fully completely extracted at Northern side of the lease area.	
5b	Area under backfilling of mined out area	0.243 Ha-2019-20 0.144 Ha-2020-21	Nil	
5c	Concurrent use of topsoil for restoration or rehabilitation of mineral out area (Rule 32)	top soil to be utilised for plantation	No top soil generation during 2019-20 and 2020-21.	
5d	Total area fully reclaimed and rehabilitated	1.07 Ha to be backfilled by 31.03.2021	Nil	Mine has been suspended by IBM on 31.10.2018.
5e	General remarks of inspecting officers on backfilling and reclamation etc.			No back filling has been done during 2019-20 and 2020-21.

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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 sumitted regularly	Not Submitted as Mine has been suspended by IBM on 31.10.2018.	
6b	Area available for rehabilitation (ha) .	0.926 Ha by 2019-20 1.07 Ha by 2020-21	0.926 Ha by 2019-20 1.07 Ha by 2020-21	
6c	afforestation done (ha).	0.32 Ha in 2019-20 0.32 Ha in 2020-21	Nil during 2019-20 and 2020-21	
6d	No. of saplings planted during the year	800 nos in 2019-20 800 nos in 2020-21	Nil during 2019-20 and 2020-21	
6e	Cumulative no .of plants	4000 nos from 2016-17 to 2020-21	2000 nos of sapling planted in 2016-17 and in rest of the periods no planataion has been done.	

6f	Any other method of rehabilitation	No such proposal approved for 2019-20 and 2020-21	Not done.
6h	Compliance on reclamation and rehabilitation by backfilling (i) Voids available for backfilling ( Lx B x D	10400 Cu.M in 2019-20 7632 Cu.M in 2020-21	10400 Cu.M in 2019-20 7632 Cu.M in 2020-21
6i	Compliance on reclamation and rehabilitation by backfilling (ii) Voids filled by waste / tailings	8676 Cu.M waste in 2019-20 8688 Cu.M waste in 2020-21	Nil
6j	Compliance on reclamation and rehabilitation by backfilling (iii)Afforestation on on backfilled area	Proposal to develop plantation over the back filling area	Nil
6k	Compliance on reclamation and rehabilitation by backfilling (iv) Rehabilitation by making water reservoir	No such proposal	Nil
6l	Compliance on reclamation and rehabilitation by backfilling (v)any other specific means.	No such proposal	Nil
6m	Compliance of rehabilitation of waste land within lease (i)afforestation	No such proposal	Nil
6n	Compliance of rehabilitation of waste land within lease (ii)Area rehabilitation (ha)	No such proposal	Nil



6o	Compliance of rehabilitation of waste land within lease (iii)Method of rehabilitation	No such proposal	Nil	
6p	Compliance of environmental monitoring (core zone and buffer zone)		No environmental monitoring done during 2019-20 and 2020-21.	
6q	General remarks of inspecting officers on PMCP compliance and progressive closure operations etc.			Lessee has not done any progressive closure work for the year 2019-20 and 2020-21.

#### Mineral Conservation:

Sl.No.	Item	Propasals	Actual work	Remarks
7a	ROM Mineral dispatch or grade-wise sorting within lease area	Ore generated in the mine is to be dispatched	No production during 2019-20 and 2020-21.	Mine has been suspended by IBM on 31.10.2018.
7b	Method of grade-wise mineral sorting i.e. manual or mechanical.	Initially Manual sorting and sizing followed by mechanised crushing and screening	No grade wise mineral sorting has been done during 2019-20 and 2020-21.	
7c	Different grade of mineral sorted out at mines.	Iron Ore -45-55% Fe Laterite - 35-45% Fe	No sorting has been done during 2019-20 and 2020-21.	
7d	Any beneficiation process at mines	Dry crushing and screening	Not done.	
7e	General remarks of inspecting officer on Mineral conservation and beneficiation issues			Ore from the mine is sorted based on the Iron content. Iron ore- 45- 55% Fe.Laterite 35-45% Fe and the fines are found stacked seperately in the lease area in the earmarked site as per approved proposals.

## Environment:

Sl.No.	Item	Propasals	Actual work	Remarks
8a	Separate removal and utilization of topsoil (Rule 32)	No such prioposal	Nil during 2019-20 and 2020-21	
8b	Concurrent use or storage of topsoil	Seperate dump/ Stack of Mineral reject and waste are proposed	Found maintained seperately	
8c	Separate dumps for overburden, waste rock, rejects and fines (Rule 33)	Seperate dump/ Stack of Mineral reject and waste to be maintained	Found maintained seperately	
8d	Use of overburden, waste rock, rejects and fines dumps for restoring the land to its original use	Back filling of the Northern Part of the Lease.	Not done	
8e	Phased restoration, reclamation and rehabilitation of lands affected by mining operations (Pits, dumps etc)	Phased restoration, reclamation and rehabilitation of Pits proposed	Not done.	
8h	Water sprinkling on roads to control airborne dust	To be donr regularly to suppress the dust	Mine has been suspended by IBM on 31.10.2018.	
8i	General remarks of inspecting officer on aesthetic beauty in and around mines area			Plantation needs to be done to improve the aestheitic beauty of the mine.

## Compliance of Rule 45:

Sl.No.	Item	Propasals	Actual work	Remarks
9a	Status of submission of Monthly and Annual returns	To be submitted regularly	Is being submitted	

9b	Scrutiny of Annual return for information on Mining Engineer, Geologist and Manager	Mining Engineer in charge MOHAMMED ZAFARULLA Geologist in charge P R MISHRA	Mining Engineer in charge MOHAMMED ZAFARULLA	Mine has been suspended by IBM on 31.10.2018.
9c	Scrutiny of Annual return on land use pattern for area under pits, reclaimed area, dumps etc.	Submitted as Nil	(i) Already exploited & abandoned by opencast (O/C) mining 13.12 (ii) Covered under current (O/C) Workings 6.604 (iii) Reclaimed/Rehabilitated 0 (iv) Used for waste disposal 0.986 (v) Occupied by plant, buildings, residential, welfare buildings & roads 11.2 (vi) Other Purpose (Weigh bridge) 0.412 (vii) Work done under progressive mine closure plan during the year 0.32	
9d	Scrutiny of Annual return on afforestation	Nil	Nil	
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	114460 tonnes	114460 tonnes	
9g	Scrutiny of Annual return on sale value, Ex. Mine price and production cost	Nil	Nil	
9h	Scrutiny of Annual return on fixed assets	Nil	Nil	
9k	Scrutiny of Annual return on mining machineries			

**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 :**

(S K MUDULI)

Indian Bureau of Mines