

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

**MCDR inspection REPORT
Hyderabad regional office**

Mine file No : AP/VZNR/Mn-131/Hyd

Mine code : 40APR20076

- (i) Name of the Inspecting : **RK13**) **A.V.Ramesh Kumar**
Officer and ID No.
- (ii) Designation : Assistant Mining Geologis
- (iii) Accompanying mine : Sri Asok Konda Nominated Owner
Official with
Designation
- (iv) Date of Inspection : 01/07/2022
- (v) Prev.inspection date : 24/01/2017

PART-I : GENERAL INFORMATION

1. (a) **Mine Name** : **CHINNARAVYAM MN(4.053 HA)**
- (b) **Registration NO.** : **IBM/732/2011**
- (c) Category : A Other Mechanised
- (d) Type of Working : Opencast
- (e) Postal address
- State : ANDHRA PRADESH
- District : VIZIANAGARAM
- Village : CHINNARAVYAM
- Taluka : MERAKAMUDIDAM
- Post office : GARBHAM
- Pin Code : 535102
- FAX No. :
- E-mail : mines@sarawagi.com
- Phone : 9704988444
- (f) Police Station : Budarayavalasa
- (g) First opening date : 01/03/2008
- (h) Weekly day of rest : SUN
2. Address for : M/S S.K.SARAWAGI & Co(P) Ltd
correspondance CHEEPURUPALLI (PO)
VIZIANAGARAM Dt,-535 128
3. (a) Lease Number : APR3130
- (b) Lease area : 4.05
- (c) Period of lease : 20
- (d) Date of Expiry : 23/03/2027
4. Mineral worked : MANGANESE ORE Main

5. Name and Address of the

Lessee : SK SARAWAGI AND (P)CO LTD
 VIZIANAGARAM ANDHRA
 PRADESH
 Phone:08952 83225 &83374
 FAX :

Owner : ASOK KONDA
 SK SARAWAGI HOUSE KASPA
 STREET,CHIPURUPALLY,
 VIZIZNAGARAM DISTRICT
 VIZIANAGARAM ANDHRA PRADESH
 Phone: 9704988444
 FAX :

Agent : B CHANDRASEKHAR
 M/s S K Sarawagi & Co
 Waltair Uplands
 Visakhapatnam VIZIANAGARAM
 ANDHRA PRADESH
 Phone: 9346546023
 FAX :

Mining Engineer

Name : P ARUN JYOTHI,Full Time
 Qualification : BTECH MINING
 Appointment/ :
 Termination date

Geologist

Name : V CHIRANJEEVI,Full Time
 Qualification : MSC GEOLOGY
 Appointment/ :
 Termination date

6. Date of approval of Mining	:	Mining Scheme rule 12 MCDR1988	23/01/2014
Plan/Scheme of Mining		Modif.approved Mining Scheme	30/03/2015
		MP review under 17(1) MCR 2016	09/08/2018

PART - II : OBSERVATION/COMMENTS OF INSPECTING OFFICERS

Exploration :

Sl.No.	Item	Proposals	Actual work	Remarks
1a	Backlog of previous year	No exploration was proposed during the year 2021-22	No exploration was carried out during the year 2021-22	There is no deviation
1b	Exploration over lease area for geological axis 1 or 2	No proposal for exploration.	No exploration was carried out.	The entire potentially mineralised area has been explored under G1 scale.
1c	Exploration Agencies and Expenditure in lakh rupees during the year	None	None	As no exploration was carried out, no expenditure was incurred.
1d	Balance area to be explored to bring Geological axis in 1 or 2	None	None	The entire potentially mineralised area explored under G1 scale. A total of 28 boreholes were made in the mining lease.
1e	Balance reserve as on 01/04/20	---	The reserves as on 1.4.2022 are 4,06,891 tonnes.	No remarks to be made.
1f	General remarks of inspecting officers on geology, exploration etc	---	None	As no exploration was proposed during the year 2021-22, no exploration was carried out. The entire potentially mineralised area covered under G1 scale of exploration. The mining lease falls under Easternghat mobile belt. The main country rock in the lease area are Khondalites. The thickness of the manganese vein varies from 80 meters to 100 meters.

Development :

Sl.No.	Item	Propasals	Actual work	Remarks
2a	Location of development w.r.t.lease area	It was proposed to develop the existing single pit on the Southern side of the lease	Same was noticed duirng the inspection.	No deviation noticed.
2b	Separate benches in topsoil, overburden and minerals (Rule 15)	Seperate benches were proposed in Overburden and Ore.	Same was noticed duirng the inspection.Four benches in OB and eight benches in ore.	No deviation was noticed
2c	Stripping ratio or ore to OB ratio	1:0.36	1:0.36	No remarks to be made.
2d	Quantity of topsoil generation in m3	No topsoil was proposed to be generated duirng the year 2021-22.	No topsoil was generated duirng the year 2021-22.	No remarks to be made.
2e	Quantity of overburden generation in m3	An overburden of 10,922 Cubic meters was proposed duirng the year 2021-22.	Actual OB reported was 13,428 Cubic meters	While excavation, more waste was encountered than estimated.
2f	General remarks of inspecting officers on development of pit w.r.t. type of deposit etc	None	None	The development of the mine and other parameters are being carried out as proposed. There is no significant deviation.

Exploitation:

Sl.No.	Item	Propasals	Actual work	Remarks
3a	Number of pit proposed for production	One Pit	One Pit	No deviation noticed.
3b	Quantity of ROM mineral production proposed	It was proposed to produce 51,068 tonnes duirng the year 2021-22.	The actual production reported was 10,260 tonnes.	The less production was due to sluggish market conditions.
3c	Recovery of sailable/usable mineral from ROM production	It was estimated that a recovery of 64% shall be done.	Same was noticed during the inspection.	No remarks to be made.

3d	Quantity of mineral reject generation	None	None	None
3e	Grade of mineral rejects generation and threshold value declared.	None	None	None
3f	Quantity of sub grade mineral generation.	It was proposed to generate about 1021 tonnes of subgrade material during the year 2021-22	No subgrade material was generated during the year 2021-22	No subgrade material was encountered during the excavation.
3g	Grade of sub grade mineral generation	Less than 17% of MN	No subgrade was generated.	No remarks to be made.
3h	Manual / Mechanised method adopted for segregating from ROM	None	None	None
3i	Any analysis or beneficiation study proposed and carried out for sub grade mineral and rejects.	No beneficiation was proposed in the lease.	No beneficiation was noticed in the lease.	No remarks to be made.
3j	Provision of drilling and blasting in mineral benches	None	None	None
3k	Provision of mining machineries in mineral benches	It was proposed to use Excavator and tipper for excavating and transporting the mineral.	Same was noticed during the inspection.	No deviation noticed.
3l	Whether height of benches in overburden and mineral suitable for method of mining proposed in MP/SOM	It was proposed to maintain a bench height of 3 meters.	Same was noticed during the inspection.	No deviation noticed.
3m	Total area covered under excavation/pits	---	Pit - 2.730 ha Infrastructure - 0.210 ha Dump - 0.80 ha	No remarks to be made.

3n	Ore to OB ratio for the pit/mine during the year.	1:0.36	1:0.36	No remarks to be made.
3o	Total area put in use under different heads at the end of year	--	Pit - 2.730 ha Infrastructure - 0.210 ha Dump - 0.80 ha	No remarks to be made.
3p	Production of ROM mineral during the last five year period as applicable	2017-18 - Lapsed period 2018-19 -52704 tonnes 2019-20 - 62575 tonnes 2020-21- 51068 tonnes 2021-22 - 51,068 tonnes	2017-18 - Lapsed period 2018-19 -37162 tonnes 2019-20 -41042 tonnes 2020-21 -51863 tones 2021-22 -10,260 tonnes	No remarks to be made
3q	General remarks of inspecting officers on method of mining etc.	None	None	The proposal for production and development being implemented and there is no deviation.

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 maintain a seperate Overburden dump in the mining lease.	A single dump of overburden was noticed duiring the inspection.	No deviation noticed.
4b	Location of topsoil, OB and mineral reject dumps	It was proposed to maintain a OB dump on the Northern side of the Mining Lease.	Same was noticed duiring the inspection.	No deivation was noticed.
4c	Number of dumps within lease area and outside of lease area	One dump within ML	One dump within ML.	No deviation noticed.
4d	Location of dumps w.r.t. ultimate pit limit (Rule 16)	The Dump was proposed beyond the UPL	Same was noticed duiring the inspection.	No deviation noticed.
4e	Number of active and alive dumps.	One active dump	One active dump	No remarks to be made.

4f	Number of dead dumps.	None	None	None
4g	Number of dumps established.	One	One	No remarks to be made.
4h	Whether Retaining wall or garland drain all along dumps are there.	Yes	Yes a retaining wall was noticed during the inspection.	No deviation noticed.
4i	Length of Retaining wall or garland drain all along dumps	150 meters length and 3 meters height	Same was noticed during the inspection.	No deviation noticed.
4j	Number of settling ponds	None	None	None
4k	Specific comments of inspecting officer on waste dump management	None	None	The Overburden management being carried out as proposed in the approved document.

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 was made for backfillin or any other type of reclamation during the year 2021-22.	No reclamation measures were carried out in the mining lease area during the year 2021-22.	There is no deviation.
5b	Area under backfilling of mined out area	None	None	As no reclamation was proposed are carried out, no area is covered under backfilling.
5c	Concurrent use of topsoil for restoration or rehabilitation of mineral out area (Rule 32)	As there is no proposal for generation of topsoil, no such proposal was made.	No topsoil was generated.	No remarks to be made.
5d	Total area fully reclaimed and rehabilitated	None	None	As there was no reclamation carried out, no area is covered under reclaimed or rehabilitated.

5e	General remarks of inspecting officers on backfilling and reclamation etc.	None	None	as no area was matured for the purpose of reclamation, no backfilling was carried out.
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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).	---	The annual report pertaining to PMCP submitted by the lessee in time.	No deviation noticed.
6b	Area available for rehabilitation (ha) .	It was proposed to afforest about 0.2 ha duirng the year 2021-22	About 0.2 ha was afforested duirng the year 2021-22.	No deviation noticed.
6c	afforestation done (ha).	0.2 ha	0.2 ha	No remarks to be made.
6d	No. of saplings planted during the year	100 no.s	100 no.s	No deviation noticed.
6e	Cumulative no .of plants	--	1100 no.s	No remarks to be made.
6f	Any other method of rehabilitation	None	None	None
6g	Cost incurred on watch and care during the year	--	It was informed by the lessee that about Six lakh rupees was incurred towards watch and ward duirng the year 2021-22.	No remarks to be made.
6h	Compliance on reclamation and rehabilitation by backfilling (i) Voids available for backfilling (Lx B x D	None	None	None
6i	Compliance on reclamation and rehabilitation by backfilling (ii) Voids filled by waste / tailings	None	None	None

6j	Compliance on reclamation and rehabilitation by backfilling (iii) Afforestation on backfilled area	None	None	None
6k	Compliance on reclamation and rehabilitation by backfilling (iv) Rehabilitation by making water reservoir	None	None	None
6l	Compliance on reclamation and rehabilitation by backfilling (v) any other specific means.	None	None	None
6m	Compliance of rehabilitation of waste land within lease (i) afforestation	None	None	None
6n	Compliance of rehabilitation of waste land within lease (ii) Area rehabilitation (ha)	None	None	None
6o	Compliance of rehabilitation of waste land within lease (iii) Method of rehabilitation	None	None	None
6p	Compliance of environmental monitoring (core zone and buffer zone)	It was proposed to carry out environmental monitoring of parameters in both core and buffer zone.	Regular monitoring being carried out in both 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.	None	None	all the proposals made for PMCP were being implemented by the lessee.

Mineral Conservation:

Sl.No.	Item	Propasals	Actual work	Remarks
7a	ROM Mineral dispatch or grade-wise sorting within lease area	No grade wise sorting was proposed in the Mining lease area.	No grade wise sorting was noticed in the lease area.	No deviation noticed.
7b	Method of grade-wise mineral sorting i.e. manual or mechanical.	None	None	No remarks to be made.
7c	Different grade of mineral sorted out at mines.	None	None	The grade of ore produced at mining lease level was up to 25% Mn.
7d	Any beneficiation process at mines .	No beneficiation was proposed to be carried out in the lease area.	No beneficiation was noticed in the lease areas.	No remarks to be made.
7e	General remarks of inspecting officer on Mineral conservation and beneficiation issues	None	None	No proposals were made by the lessee for grade wise sorting or beneficiation in the lease.

Environment:

Sl.No.	Item	Propasals	Actual work	Remarks
8a	Separate removal and utilization of topsoil (Rule 32)	None	None	As there is no proposal or generation of topsoil, no action needed.
8b	Concurrent use or storage of topsoil	None	None	None
8c	Separate dumps for overburden, waste rock, rejects and fines (Rule 33)	Yes seperate dump was proposed for OB.	Seperate dump for OB was noticed duirng the inspection	No deviation noticed.
8d	Use of overburden, waste rock, rejects and fines dumps for restoring the land to its original use	No proposal was made for concurrent use of OB.	No such activity noticed duirng the inspection.	No remarks to be made.

8e	Phased restoration, reclamation and rehabilitation of lands affected by mining operations (Pits, dumps etc)	No proposal was made for phased restoration, reclamation or rehabilitation in the lease area during the year 2021-22.	No such activity noticed during the inspection.	No deviation noticed.
8f	Baseline information on existence of plantation and additional plantation done (Rule 41)	---	The area is covered with shrubs and plantation made by the lessee.	No remarks to be made.
8g	Survival rate	70%	70%	No deviation noticed.
8h	Water sprinkling on roads to control airborne dust	It was proposed to suppress the dust by water sprinkling using tractor.	The same was noticed during the inspection.	No remarks to be made.
8i	General remarks of inspecting officer on aesthetic beauty in and around mines area	None	None	The proposal made for separate dumping and dust suppression were being carried out by the lessee.

Compliance of Rule 45:

Sl.No.	Item	Propasals	Actual work	Remarks
9a	Status of submission of Monthly and Annual returns	---	The Monthly and annual return being submitted regularly by the lessee.	No deviation noticed.
9b	Scrutiny of Annual return for information on Mining Engineer, Geologist and Manager	As per the annual return 2021-22, Sri Arun Jyothi and sri Chianjeevi are appointed as Mining Engineer and geologists respectively.	Same was confirmed during the inspection.	No deviation noticed.

9c	Scrutiny of Annual return on land use pattern for area under pits, reclaimed area, dumps etc.	As per the Annual return the land use pattern is as follows Pit - 2.730 ha Infrastructure - 0.210 ha Waste dump - 0.80 ha	Same was noticed during the inspection.	No remarks to be made.
9d	Scrutiny of Annual return on afforestation	100 no.s with survival rate of 70%	Same was noticed during the inspection.	No deviation noticed.
9e	Scrutiny of Annual return on mineral reject generation (Grade and quantity)	None	None	No remarks to be made.
9f	Scrutiny of Annual return on ROM stock and/or graded ore	as per the AR 2021-22, 10,260 tonnes was reported.	During the inspection same was confirmed.	No remarks to be made.
9g	Scrutiny of Annual return on sale value, Ex. Mine price and production cost	The ex-mine price reported as per Annual report 2021-22 was Rs. 2234/- per tonne	Same was confirmed during the inspection by checking the records.	No remarks to be made.
9h	Scrutiny of Annual return on fixed assets	Value of fixed assets reported was Rupees Seven crores.	No scrutiny was carried for checking value of fixed assets.	No remarks to be made.
9k	Scrutiny of Annual return on mining machineries	As per the Annual return, 4 tippers, 1 hydraulic shovel, one dozer and one motor were reported.	The same were noticed during the inspection.	No remarks to be made.

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

Date :

(A.V.Ramesh Kumar)

Indian Bureau of Mines