

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

MCDR INSPECTION REPORT

Bhubaneshwar regional office

Mine file No : ORI/MN/KJR/MCDR-74/BBS

Mine code : 40ORI08063

- (i) Name of the Inspecting : **AKP**) **ASHOK KUMAR PANY**
Officer and ID No.
- (ii) Designation : Assistant Mining Engineer
- (iii) Accompanying mine : **SHRI SUNIL KUMAR, MINES MANAGER**
Official with
Designation
- (iv) Date of Inspection : 22/11/2021
- (v) Prev.inspection date :

PART-I : GENERAL INFORMATION

1. (a) **Mine Name** : **KATASAH I MANGANESE ORE MI**
- (b) **Registration NO.** : **IBM/4530/2011**
- (c) Category : A Other than Fully Mech.
- (d) Type of Working : Opencast
- (e) Postal address
- State : ORISSA
- District : KEONJHAR
- Village : KATASAH I
- Taluka : RUGUDI
- Post office : CHORMALDA
- Pin Code : 758052
- FAX No. :
- E-mail : agrasensponge@gmail.com
- Phone : 7894402799
- (f) Police Station : RUGUDI
- (g) First opening date : 23/10/2020
- (h) Weekly day of rest : SUN
2. Address for : KATASAH I
correspondance BARBIL
KEONJHAR
3. (a) Lease Number :
- (b) Lease area : 196.86 ha
- (c) Period of lease : 50 year
- (d) Date of Expiry : 05/07/2070
4. Mineral worked : Manganese

5. Name and Address of the

Lessee : Agrasen Sponge Private Limited
Mandiakudar, Post-
Chungimati Kansbahal
Sundargarh, Odisha
SUNDARGARH ORISSA
Phone:7894402799
FAX :

Owner : SHRI M L SHARMA
KANSABAHAL SUNDARGARH
KEONJHAR ORISSA
Phone: 7894402799
FAX :

Mining Engineer

Name : SUNIL KUMAR SINHA, Full Time
Qualification : B E MINING
Appointment/ : 01/10/2020
Termination date

Geologist

Name : SHRI P K MALLIK, Full Time
Qualification : MSC GEOLOGY
Appointment/ : 01/10/2020
Termination date

Manager

Name : SHRI SUNIL KUMAR
Qualification : DIPLOMA IN MINING ENGG
Appointment/ : 01/10/2020
Termination date

6. Date of approval of Mining Plan/Scheme of Mining : MP under 16(1) of MCR 2016 02/12/2020

PART - II : OBSERVATION/COMMENTS OF INSPECTING OFFICERS

Exploration :

Sl.No.	Item	Proposals	Actual work	Remarks
1a	Backlog of previous year	Nil	Nil	
1b	Exploration over lease area for geological axis 1 or 2	Nil	Nil	
1c	Exploration Agencies and Expenditure in lakh rupees during the year	NA	NA	
1d	Balance area to be explored to bring Geological axis in 1 or 2	As per the approved Mining Plan the unexplored area of 28.629 Ha	As per the approved Mining Plan the unexplored area of 28.629 Ha	
1e	Balance reserve as on 01/04/20	As per the approved mining plan the reserve position as on 10.10.2020 is as follows:- Reserve - 614773 tonne Resource- 49588 tonne	The updated reserve after depleting production as on 01.04.2021 is as follows:- Reserve - 613152.665 tonne Resource- 49588 tonne	
1f	General remarks of inspecting officers on geology, exploration etc			The float manganese ore found in pocket deposit in the lease area.

Development :

Sl.No.	Item	Proposals	Actual work	Remarks
2a	Location of development w.r.t.lease area	During the year the development proposed in Quarry-6&7 and Rola Pit	As per proposal	

2b	Separate benches in topsoil, overburden and minerals (Rule 15)	Separate benches for overburden and mineral proposed. No proposal of generation of top soil.	Carried out	
2c	Stripping ratio or ore to OB ratio	1:36	1:7	
2d	Quantity of topsoil generation in m3	Nil	Nil	
2e	Quantity of overburden generation in m3	37399 Cum	11300 Cum	
2f	General remarks of inspecting officers on development of pit w.r.t. type of deposit etc			The mining operation commenced from 23.10.2020 and the development not achieved as per proposal.

Exploitation:

Sl.No.	Item	Propasals	Actual work	Remarks
3a	Number of pit proposed for production	02 Pits	2 Pits i.e. quarry-6&7 and Rola pit	
3b	Quantity of ROM mineral production proposed	2050 tonne	1620.335 tonne	
3c	Recovery of sailable/usable mineral from ROM production	1435 tonne	414.15 tonne	
3d	Quantity of mineral reject generation	615 tonne	1206.185 tonne	
3e	Grade of mineral rejects generation and threshold value declared.	Mineral Reject grade- 10% to 25% Mn Threshold value-10% Mn	Mineral Reject grade- 10% to 25% Mn Threshold value-10% Mn	

3f	Quantity of sub grade mineral generation.	Same as mineral reject	Same as mineral reject
3g	Grade of sub grade mineral generation	Same as mineral reject	Same as mineral reject
3h	Manual / Mechanised method adopted for segregating from ROM	Manual	Manual
3i	Any analysis or beneficiation study proposed and carried out for sub grade mineral and rejects.	Nil	Nil
3j	Provision of drilling and blasting in mineral benches	Nil	Nil
3k	Provision of mining machineries in mineral benches	Nil	Nil
3l	Whether height of benches in overburden and mineral suitable for method of mining proposed in MP/SOM	The height of benches -3-6m and with 10-12m proposed	Yes, the same is suitable.
3m	Total area covered under excavation/pits	The area proposed under excavation during the plan period is 50.606 ha	Area under excavation is 44.486 ha
3n	Ore to OB ratio for the pit/mine during the year.	1:36	1:7
3o	Total area put in use under different heads at the end of year	The total area put to use under different head during the plan period is 73.511 ha	The total area under different head during the year is 56.1851 ha

3p	Production of ROM mineral during the last five year period as applicable	2020-21-2050.00 tonne	2020-21-1620.335 tonne	Mine was operated from the year 2020-21
3q	General remarks of inspecting officers on method of mining etc.			The Mining operation carried out in semi mechanised method.

Solid Waste Management - Dumping:

Sl.No.	Item	Propasals	Actual work	Remarks
4a	Separate dumping of topsoil, OB and mineral rejects (Rule 32,33)	Separate dumping of OB and mineral reject proposed. No proposal of generation of top soil.	As per proposal	
4b	Location of topsoil, OB and mineral reject dumps	Waste Dump-1- N310-N440 To W155-W455 Waste Dump-2- N1108-N1290 To W1200-W1400	Waste Dump-1- N310-N440 To W155-W455 Waste Dump-2- N1108-N1290 To W1200-W1400	
4c	Number of dumps within lease area and outside of lease area	Two dumps inside lease area. No dumps out side.	Two dumps inside lease area. No dumps out side.	
4d	Location of dumps w.r.t. ultimate pit limit (Rule 16)	Out side UPL	Out side UPL	
4e	Number of active and alive dumps.	Two active Dump	Two active Dump	
4f	Number of dead dumps.	Nil	Nil	
4g	Number of dumps established.	Nil	Nil	
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	200 m retaining wall proposed	Carried out	
4j	Number of settling ponds	Nil	Nil	
4k	Specific comments of inspecting officer on waste dump management			The waste dumps were stabilised.

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.	Part area mined out and proposed for back filling.	Part area mined out and proposed for back filling.	
5b	Area under backfilling of mined out area	0.3 ha proposed for back filling	0.3 ha back filled	
5c	Concurrent use of topsoil for restoration or rehabilitation of mineral out area (Rule 32)	Nil	Nil	
5d	Total area fully reclaimed and rehabilitated	Nil	Nil	
5e	General remarks of inspecting officers on backfilling and reclamation etc.			Part area of 0.3 ha back filled during the year.

Progressive Mine Clousre Plan:

Sl.No.	Item	Propasals	Actual work	Remarks
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6a	Whether Annual report on PMCP submitted on time and correctly. Rule 23 E(2).	To be submitted on or before 1st July	Submitted
6b	Area available for rehabilitation (ha) .	Nil	Nil
6c	afforestation done (ha).	Nil	Nil
6d	No. of saplings planted during the year	Nil	Nil
6e	Cumulative no .of plants	Nil	Nil
6f	Any other method of rehabilitation	Nil	Nil
6g	Cost incurred on watch and care during the year	Nil	Nil
6h	Compliance on reclamation and rehabilitation by backfilling (i) Voids available for backfilling (Lx B x D	0.3 ha	0.3 ha
6i	Compliance on reclamation and rehabilitation by backfilling (ii) Voids filled by waste / tailings	37399m3	11300 M3
6j	Compliance on reclamation and rehabilitation by backfilling (iii)Afforestation on on backfilled area	Nil	Nil

6k	Compliance on reclamation and rehabilitation by backfilling (iv) Rehabilitation by making water reservoir	Nil	Nil	
6l	Compliance on reclamation and rehabilitation by backfilling (v)any other specific means.	Nil	Nil	
6m	Compliance of rehabilitation of waste land within lease (i)afforestation	Nil	Nil	
6n	Compliance of rehabilitation of waste land within lease (ii)Area rehabilitation (ha)	Nil	Nil	
6o	Compliance of rehabilitation of waste land within lease (iii)Method of rehabilitation	Nil	Nil	
6p	Compliance of environmental monitoring (core zone and buffer zone)	Monitoring Proposed	Carried out	
6q	General remarks of inspecting officers on PMCP compliance and progressive closure operations etc.			The mining operation commenced from 23.10.2020 and no major proposal during the year.

Mineral Conservation:

Sl.No.	Item	Propasals	Actual work	Remarks
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7a	ROM Mineral dispatch or grade-wise sorting within lease area	Grade wise sorting	Grade wise sorting	
7b	Method of grade-wise mineral sorting i.e. manual or mechanical.	Manual	Manual	
7c	Different grade of mineral sorted out at mines.	25% to 35% Mn and below 25% Mn	25% to 35% Mn and below 25% Mn	
7d	Any beneficiation process at mines	Nil	Nil	
7e	General remarks of inspecting officer on Mineral conservation and beneficiation issues			The mineral sorted manual in the lease area.

Environment:

Sl.No.	Item	Propasals	Actual work	Remarks
8a	Separate removal and utilization of topsoil (Rule 32)	No proposal of generation of top soil	Nil	
8b	Concurrent use or storage of topsoil	Nil	Nil	
8c	Separate dumps for overburden, waste rock, rejects and fines (Rule 33)	Separate dumping proposed	carried out.	

8d	Use of overburden, waste rock, rejects and fines dumps for restoring the land to its original use	0.3 ha back filling proposed	0.3 ha back filled	
8e	Phased restoration, reclamation and rehabilitation of lands affected by mining operations (Pits, dumps etc)	Na	Na	
8f	Baseline information on existence of plantation and additional plantation done (Rule 41)	No planation proposal during the year	Nil	
8g	Survival rate	NA	NA	
8h	Water sprinkling on roads to control airborne dust	Proposed	carried out	
8i	General remarks of inspecting officer on aesthetic beauty in and around mines area			The aesthetic beauty maintained around mines area.

Compliance of Rule 45:

Sl.No.	Item	Propasals	Actual work	Remarks
9a	Status of submission of Monthly and Annual returns	The anual return to be submitted on or before 1st July	Submitted	

9b	Scrutiny of Annual return for information on Mining Engineer, Geologist and Manager	The Mining Engineer, Manager and Geologist furnished in the Annual return.	Mining Engineer, Manager and Geologist appointed.
9c	Scrutiny of Annual return on land use pattern for area under pits, reclaimed area, dumps etc.	Area under pit- 23.2 ha, Reclaimed area- 0 ha, Area used for waste disposal- 2.2 ha	As per mining plan the area under mining is 44.486 ha, Area used for OB Dump- 7.0391 ha
9d	Scrutiny of Annual return on afforestation	No of tree plantated during the year- Nil	Nil
9e	Scrutiny of Annual return on mineral reject generation (Grade and quantity)	1206 tonne, 22 % Mn	1206 tonne, 22 % Mn
9f	Scrutiny of Annual return on ROM stock and/or graded ore	1620.335 Tonne	The production shows in grade wise details, hence the same is Nil.
9g	Scrutiny of Annual return on sale value, Ex. Mine price and production cost	The cost of production is Rs 8419.98	The cost of production is Rs 8419.98
9h	Scrutiny of Annual return on fixed assets	The vaule of fixed asset- Rs. 5140932/-	The vaule of fixed asset- Rs. 5140932/-
9k	Scrutiny of Annual return on mining machineries	Back Hoe-0.9 Cum- 1 Nos. Dumper- 20 tonne-1 Nos.	Back Hoe-0.9 Cum- 1 Nos. Dumper- 20 tonne-1 Nos.

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 :

(ASHOK KUMAR PANY)

Indian Bureau of Mines