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MCDR inspection REPORT

Bangalore regional office

Mine file No : KNT/CTD/FE/50/BNG

Mine code : 30KAR07034

- (i) Name of the Inspecting : S21) H M Shivakumar
Officer and ID No.
- (ii) Designation : Assistant Controller Mine
- (iii) Accompanying mine : R. Rama Mohan Reddy, Agent., B. Gopal, Mines Manager.
Official with
Designation
- (iv) Date of Inspection : 02/12/2023
- (v) Prev.inspection date : 12/11/2022

PART-I : GENERAL INFORMATION

1. (a) **Mine Name** : DINDADAHALLI FE ML 2658 2
- (b) **Registration NO.** : IBM/6285/2011
- (c) **Category** : A Other than Fully Mech.
- (d) **Type of Working** : Opencast
- (e) **Postal address**
- State : KARNATAKA
- District : CHITRADURGA
- Village : DINDADAHALLI
- Taluka : CHITRADURGA
- Post office :
- Pin Code : 577501
- FAX No. : 0832-2654384
- E-mail : goasponge@rediffmail.com
- Phone : 0832-2654384
- (f) **Police Station** : chitrdurga
- (g) **First opening date** : 25/02/2011
- (h) **Weekly day of rest** : SUN
2. **Address for correspondance** : Goa Sponge & Power Ltd.,
Ltd., SURVEY NO. 58/1, 59/1, 60/1,
VILLAGE SANTONA, SANGUEM-403704
3. (a) **Lease Number** : KAR1668
- (b) **Lease area** : 10.98
- (c) **Period of lease** : 50
- (d) **Date of Expiry** : 24/02/2061
4. **Mineral worked** : IRON ORE Main

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5. Name and Address of the

Lessee : GOA SPONGE AND POWER LIMITED
 CHITRADURGA KARNATAKA
 Phone:
 FAX :

Owner : Jogindarkumar Shyamlal Singla
 A/1 Aquamarina Society,
 Venaulim Near Colva Police
 Station, Margao, Colva,
 South Goa, Goa-403708 SOUTH
 GOA GOA
 Phone: +91 7420078211/
 FAX :

Agent : R. Rama Mohan Reddy
 SOUTH GOA GOA
 Phone:
 FAX :

Mining Engineer

Name : B GOPAL, Full Time
 Qualification :
 Appointment/ : 31/05/2022
 Termination date

Geologist

Name : B VIJAY KUMAR, Full Time
 Qualification :
 Appointment/ : 30/05/2022
 Termination date

Manager

Name : B GOPAL
 Qualification :
 Appointment/ : 31/05/2022
 Termination date

6. Date of approval of Mining	:	Fresh under rule 22 MCR1960	11/05/2006
Plan/Scheme of Mining	:	Modif.of approved Mining Plan	09/05/2013
	:	Mining Scheme rule 12 MCDR1988	02/05/2016
	:	MP review under 17(1) MCR 2016	05/01/2021
	:	MP modif under 17(3) MCR 2016	22/05/2023

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PART - II : OBSERVATION/COMMENTS OF INSPECTING OFFICERS

Exploration :

Sl.No.	Item	Proposals	Actual work	Remarks
1a	Backlog of previous year	10	10	No Deviation
1b	Exploration over lease area for geological axis 1 or 2	10.98	10.98	No Deviation
1c	Exploration Agencies and Expenditure in lakh rupees during the year	Sri Balaji Borewells & 150,000/-	Sri Balaji Borewells & 160,000/-	No Deviation
1d	Balance area to be explored to bring Geological axis in 1 or 2	NIL	NIL	No Deviation
1e	Balance reserve as on 01/04/20	4,60,787 in tonnes	15,34,590 in tonnes	During the year exploration is carried out and a total of 1127835 tonnes of Reserves established as on 15/03/2023 which is wrongly calculated in AR 2022-2023. Violation issued.
1f	General remarks of inspecting officers on geology, exploration etc			The entire lease area consists of Iron Ore float with thickness varying from 7.5m to 8.5m. At the time of MP preparation 60% recovery was assumed. However, further the lessee reported that based on the actual mining 100% recovery is being achieved and accordingly modified mining plan is approved with updated Reserves established during 2022-2023.

Development :

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Sl.No.	Item	Propasals	Actual work	Remarks
2a	Location of development w.r.t.lease area	Northern side of the lease area	Northern side of the lease area	Excavation observed to have extended beyond the proposed grid intervals towards southern side of the pit. Violation issued.
2b	Separate benches in topsoil, overburden and minerals (Rule 15)	NIL	NIL	Excavation observed to have extended beyond the proposed grid intervals towards southern side of the pit. Violation issued.
2c	Stripping ratio or ore to OB ratio	1:0	1:0	Change In Recovery Percentage of Iron Ore (Float Ore) Noted Based on Mining Operations After Re-Openingof The Mine. Further incorporated in the modifications to approved MP. There is no waste generation
2d	Quantity of topsoil generation in m3	NIL	NIL	Change In Recovery Percentage of Iron Ore (Float Ore) Noted Based on Mining Operations After Re-Openingof The Mine. Further incorporated in the modifications to approved MP. There is no waste generation
2e	Quantity of overburden generation in m3	NIL	NIL	Change In Recovery Percentage of Iron Ore (Float Ore) Noted Based on Mining Operations After Re-Openingof The Mine. Further incorporated in the modifications to approved MP. There is no waste generation

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2f	General remarks of inspecting officers on development of pit w.r.t. type of deposit etc	Mining of Iron Ore float is by open pit mining with shovel-tipper combination without drilling and blasting suitable to the type of deposit. Excavation observed to have extended beyond the proposed grid intervals towards southern side of the pit. Violation issued.
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Exploitation:

Sl.No.	Item	Propasals	Actual work	Remarks
3a	Number of pit proposed for production	One	One	No Deviation.
3b	Quantity of ROM mineral production proposed	21,000tonnes	21,000tonnes	No Deviation.
3c	Recovery of sailable/usable mineral from ROM production	100%	100%	Change In Recovery Percentage of Iron Ore (Float Ore) Noted Based on Mining Operations after Re-Openingofthe Mine. Further Modifications to MP approved incorporating the same.
3d	Quantity of mineral reject generation	NIL	NIL	Change In Recovery Percentage of Iron Ore (Float Ore) Noted Based on Mining Operations after Re-Openingofthe Mine. Further Modifications to MP approved incorporating the same.

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3e	Grade of mineral rejects generation and threshold value declared.	NIL	NIL	Change In Recovery Percentage of Iron Ore (Float Ore) Noted Based on Mining Operations after Re-Openingofthe Mine. Further Modifications to MP approved incorporating the same.
3f	Quantity of sub grade mineral generation.	NIL	NIL	Change In Recovery Percentage of Iron Ore (Float Ore) Noted Based on Mining Operations after Re-Openingofthe Mine. Further Modifications to MP approved incorporating the same.
3g	Grade of sub grade mineral generation	NIL	NIL	Change In Recovery Percentage of Iron Ore (Float Ore) Noted Based on Mining Operations after Re-Openingofthe Mine. Further Modifications to MP approved incorporating the same.
3h	Manual / Mechanised method adopted for segregating from ROM	Mechanized method	Mechanized method	No Deviation
3i	Any analysis or beneficiation study proposed and carried out for sub grade mineral and rejects.	NIL	NIL	No Deviation
3j	Provision of drilling and blasting in mineral benches	NIL	NIL	No Deviation
3k	Provision of mining machineries in mineral benches	NIL	NIL	No Deviation

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3l	Whether height of benches in overburden and mineral suitable for method of mining proposed in MP/SOM	The bench height is 4m and width of the benches will be more than the bench height is maintained, over all pit slope angle of 45° will be maintained	The bench height is 4m and width of the benches will be more than the bench height is maintained, over all pit slope angle of 45° has maintained	No Deviation
3m	Total area covered under excavation/pits	0.91	1.86	As per the modified approved mining plan it is 1.86 Ha. However, excavation observed to have extended beyond proposed grid interval. Violation issued.
3n	Ore to OB ratio for the pit/mine during the year.	1:0.00	Nil	Change In Recovery Percentage of Iron Ore (Float Ore) noted based on Mining Operations after Re-Openingof The Mine.
3o	Total area put in use under different heads at the end of year	0.91Ha	Excavation: 1.86 Ha. Infrastructure etc., 0.5 Ha. Green belt & Mineral Storage: 0.690 Ha.	Excavation observed to have extended beyond proposed grid interval. Violation issued.
3p	Production of ROM mineral during the last five year period as applicable	2018-19: Nil 2019-20: Nil 2020-21: Nil 2021-22: Nil 2022-23: 21,000 (in tonnes)	2018-19: Nil 2019-20: Nil 2020-21: Nil 2021-22: Nil 2022-23: 21,000 (in tonnes)	Mine re-opened only in the year 2022-23, The mine was not working in the previous years due to the requirement of statutory clearances.
3q	General remarks of inspecting officers on method of mining etc.			Mining of Iron Ore float is by open pit mining with shovel-tipper combination without drilling and blasting and is being carried out as proposed.

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Sl.No.	Item	Propasals	Actual work	Remarks
4a	Separate dumping of topsoil, OB and mineral rejects (Rule 32,33)	There is no top soil generation.	NIL	There is no top soil generation.
4b	Location of topsoil, OB and mineral reject dumps	NIL	NIL	NIL
4c	Number of dumps within lease area and outside of lease area	NIL	NIL	NIL
4d	Location of dumps w.r.t. ultimate pit limit (Rule 16)	NIL	NIL	NIL
4e	Number of active and alive dumps.	NIL	NIL	NIL
4f	Number of dead dumps.	NIL	NIL	NIL
4g	Number of dumps established.	NIL	NIL	NIL
4h	Whether Retaining wall or garland drain all along dumps are there.	NIL	NIL	NIL
4i	Length of Retaining wall or garland drain all along dumps	NIL	NIL	A garland drain is already existing in the lease; which is being maintained.
4j	Number of settling ponds	NIL	NIL	
4k	Specific comments of inspecting officer on waste dump management			There are no waste dumps in the Mining lease area.

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.	Concurrent back-filling of waste is proposed into the mined-out pits as the mineral will be exhausted in the proposed mining pits and no dump is proposed as method of disposal of waste is by means of simultaneous back-filling.	In the lease area recovery factor of ore is 100%. There is no waste generation.	There is no back-filling. Change In Recovery Percentage of Iron Ore (Float Ore) Noted Based on Mining Operations after Re-Opening of the Mine. Further Modifications to MP approved incorporating the same.
5b	Area under backfilling of mined out area	0.22	In the lease area recovery factor of ore is 100%. There is no waste generation.	There is no back-filling. Change In Recovery Percentage of Iron Ore (Float Ore) Noted Based on Mining Operations after Re-Opening of the Mine. Further Modifications to MP approved incorporating the same.
5c	Concurrent use of topsoil for restoration or rehabilitation of mineral out area (Rule 32)	There is no top soil generation	NIL	There is no top soil generation
5d	Total area fully reclaimed and rehabilitated	NIL	NIL	There is no proposal

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5e	General remarks of inspecting officers on backfilling and reclamation etc.	There is no backfilling. Change In Recovery Percentage of Iron Ore (Float Ore) Noted Based on Mining Operations after Re-Opening of the Mine. Further Modifications to MP approved incorporating the same.
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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).	NIL	Not submitted.	Violation issued.
6b	Area available for rehabilitation (ha) .	NIL	NIL	
6c	afforestation done (ha).	0.12	0.12	Carried out.
6d	No. of saplings planted during the year	150	150	Appears to be correct.
6e	Cumulative no .of plants	150	150	Appears to be correct.
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	NIL	NIL	

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6i	Compliance on reclamation and rehabilitation by backfilling (ii) Voids filled by waste / tailings	NIL	NIL
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)	NIL	NIL

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6q	General remarks of inspecting officers on PMCP compliance and progressive closure operations etc.	All the PMCP proposals are complied with satisfactorily.
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Mineral Conservation:

Sl.No.	Item	Propasals	Actual work	Remarks
7a	ROM Mineral dispatch or grade-wise sorting within lease area	NIL	NIL	
7b	Method of grade-wise mineral sorting i.e. manual or mechanical.	Mechanical sorting of mineral size wise only i.e. Lumps and Fines	Mechanical sorting of mineral size wise only i.e. Lumps and Fines only.	Mechanical sorting of mineral size wise only i.e. Lumps and Fines only. Grade reported is +45 to -51% Fe only.
7c	Different grade of mineral sorted out at mines.	Size wise sorting is done i.e Lumps and fines.	Nil	Grade reported for both lumps and fines is +45 to -51% Fe only.
7d	Any beneficiation process at mines	NIL	NIL	
7e	General remarks of inspecting officer on Mineral conservation and beneficiation issues			The entire Mineral produced is blended to marketable grade thereby taking care of Mineral Conservation aspect. No beneficiation is required or proposed.

Environment:

Sl.No.	Item	Propasals	Actual work	Remarks
8a	Separate removal and utilization of topsoil (Rule 32)	There is no top soil	NIL	

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8b	Concurrent use or storage of topsoil	NIL	NIL	
8c	Separate dumps for overburden, waste rock, rejects and fines (Rule 33)	NIL	NIL	
8d	Use of overburden, waste rock, rejects and fines dumps for restoring the land to its original use	NIL	NIL	
8e	Phased restoration, reclamation and rehabilitation of lands affected by mining operations (Pits, dumps etc)	NIL	NIL	
8f	Baseline information on existence of plantation and additional plantation done (Rule 41)	0.12Ha	0.12	Done.
8g	Survival rate	90%	90%	Appears to be correct.
8h	Water sprinkling on roads to control airborne dust	2KLD	2KLD	Appears to be correct.
8i	General remarks of inspecting officer on aesthetic beauty in and around mines area			Aesthetic beauty in and around the mine is satisfactorily maintained.

Compliance of Rule 45:

Sl.No.	Item	Propasals	Actual work	Remarks
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9a	Status of submission of Monthly and Annual returns	M.R. Submitted up to November 2023. A.R. Submitted up to 31/03/2023 on 30/05/2023		
9b	Scrutiny of Annual return for information on Mining Engineer, Geologist and Manager	Mining Engineer: KUNTHELI GOPALU Geologist: B. VIJAY KUMAR	Mining Engineer was present during inspection. Geologist was on sick leave.	NIL
9c	Scrutiny of Annual return on land use pattern for area under pits, reclaimed area, dumps etc.	Pit: 1.860 Ha. Infrastructure : 0.500 Ha For Green belt & Mineral Storage: 0.690	Nil	Violation issued for deviation is excavation.
9d	Scrutiny of Annual return on afforestation	Proposed 0.23 Ha with 575 plants.	80 WML 20 OML	Violation issued.
9e	Scrutiny of Annual return on mineral reject generation (Grade and quantity)	NIL	NIL	NIL
9f	Scrutiny of Annual return on ROM stock and/or graded ore	NIL	NIL	NIL
9g	Scrutiny of Annual return on sale value, Ex. Mine price and production cost	45% to below 51% Fe Iron Ore lumps Rs. 893.53/- per tonne and Iron Ore fines Rs.430.18/- per tonne		
9h	Scrutiny of Annual return on fixed assets	Value of Fixed Assets* (? 3015176)	Land acquisition cost in the MP declared is Rs.60 lakhs which is not considered	Violation issued.
9k	Scrutiny of Annual return on mining machineries	TIPPER: 2 GENERATOR (DIESEL): 1 DUMPER :1 SHOVEL: 1	The reported machineries were found deployed on the day of inspection.	

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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
MCDR17 Rule 11(1)	12/01/2024		MCDR17 Rule 45(7)	12/01/2024	
MCDR17 Rule 45(7)(a)	12/01/2024				

Date :**(H M Shivakumar)**

Indian Bureau of Mines