

MCDR INSPECTION REPORT**General**

S N	Particulars		Details
1	File no		
2	Name of the Mine		Gorumahisani Iron Ore Block
3	Total Lease Area (Ha) with breakup of Non-forest and forest land		Forest Area= 90.50 Ha Non-Forest Area= 259.00 Ha Total= 349.50 Ha
4	Mine code		30ORI10020
4.1	Name of Inspecting officer with Designation		Rajesh Kumar Das,DCOM
5	Date of Inspection		05.11.2024
6	Name of official accompanying inspection		Shri Anubhab Dutta, Shri Marumudi Srinubabu & Shri Anup Samanta
7	IBM Registration Number under rule 45 of MCDR, 1988		IBM/1235/2011
8	Name of the lessee, Address, phone, email and fax number		GHANASHYAM MISRA & SONS PVT. LTD. 7, Waterloo Street, 2nd Floor, Kolkata, West Bengal- 700069, Tel: 033-22480602/22482623, Fax: 033-22482623 E-mail- gmspl2011@gmail.com
9	Village		Kuleishila, Badamouda, Sanamouda, Sundhal, Balitangri, Nodhabani and Gorumahisani
10	Taluka/Mandal		Rairangpur
11	District		Mayurbhanj
12	Pincode		757042
13	State		Odisha
14	Post office		Gorumahisani
15	Nearest police station		Gorumahisani
16	Nearest Railway station		Tatanagar
17	Date of Grant of Mining Lease		02.07.2020
18	Date of Execution		03.07.2020
19	Date of opening of Mine		25.07.2020
20	Date of first Renewal, if applicable and its period & expiry		NA
21	Date of second Renewal, if applicable and its period & expiry		NA
22	Date of submission of renewal application if Mining Operations are continuing under deemed extension		NA
23	Name of the Nominated Owner with Address, phone, email, fax number and date of appointment		Shri Sourav Misra, JBS Road, Silver Spring, Kolkata, E-mail- gmspl2022@gmail.com
24	Name of the Mine Agent with Address, phone, email, fax number and date of appointment		NA
25	Name of the Mines Manager with Address, phone, email, fax number and date of appointment in mines		Shri Anubhab Dutta, At&PO- Gorumahisani, Dist- Mayurbhanj, Odisha- 757042 E-mail- gmspl2011@gmail.com Date of Appointment- 04.03.2023
26	Name of the Mining Engineer & Geologist, Qualification and total	Mining engineer Qualification Date of appointment	Shri Anup Samanta Qualification- B.E.- Mining, Exp- 19 yrs

	experience	Address phone/email	D.O.A.- 01.04.2020 GMSPL Office, At/PO- Gorumahisani, Dist- Mayurbhanj, Odisha-757042, E-mail- gmspl2011@gmail.com
		Geologist Qualification Date of appointment Address phone/email	Shri Marumudi Srinubabu, M.Sc.(Tech)-Applied Geology, Exp- 15 yrs, D.O.A.- 16.01.2024 GMSPL Office, At/PO- Gorumahisani, Dist- Mayurbhanj, Odisha-757042, E-mail- gmspl2011@gmail.com
27	Whether Geologist and Mining Engineer appointed in mines satisfy the rule 42 & carrying out their duties as per rule 43 & 44.		Yes
28	Date of Approval of Review of Mining Plan/Modified Mining Plan with five-year period and specific condition in approval letter, if any.		Approved vide letter No- MP/A/31-ORI/BHU/2020-21 dated 29-01-2021, Subsequent Modification approval vide letter no- MPM/A/05-ORI/BHU/2021-22 dated 29-07-2021, Modification approval vide letter no- No. MCDR-MiFLOFE/18/2022-BBS-IBM_RO_BBS dated 01-12-2023
29	Date of Approval of Scheme of Mining/Modified Scheme of Mining with five-year period and specific condition in approval letter, if any.		NA
30	Mineral(s) granted in lease and proved for mining		IRON ORE
31	Method of Mining(Open cast, Underground)		Open cast
32	Category (Fully Mechanised, Others or Manual)		Fully Mechanized
33	Captive/Non Captive		Non-Captive

Scientific Mining: Compliance of proposals of approved mining plan/Review of mining.

Exploration

S.N.	Item	Proposals	Actual work	Remarks
1a	Backlog of previous year	Nil	Nil	
1b	Exploration over lease area for Geological axis 1 or 2.	30	Nil	In plan period 78 bore holes proposed and 128 boreholes reported in 2020-21.
1c	Exploration Agency & Expenditure in lakh Rupees during the year	NA	NA	The inspection carried out for processing of Review of Mining Plan.
1d	Balance area to be explored to bring Geological axis in 1 or 2	32.50 Ha	3.32 Ha	
1e	Balance reserves as on 01.04.2024	----	2,46,08,296.1 0 MT	
1f	General remarks of inspecting officer on geology, exploration etc.	Gorumahisani Iron Ore Block forms a part of the Badampahar-Sulaipat-Gorumahisani belt extending from Badampahar in the South up to Gorumahisani in the North through Suleipat. The predominant rock types of this belt belong to the Banded Iron Formation (BIF), consisting of Banded Magnetite Quartzite (BMQ), Banded Hematite Quartzite (BHQ), Banded Magnetite Grunerite Quartzite (BMGQ) and Banded Cherty Quartzite (BCQ) of volcano-		

		sedimentary origin. The Banded Iron Formation in Gorumahisani area show a general strike in a northeast-southwest direction with variable dip usually in a north westerly direction. The potential mineralized area broadly explored in G1 & G2.
--	--	--

Development

S.N.	Item	Proposals	Actual work	Remarks
2a	Location of development w.r.t. lease area	Kochar Quarry, Kochar Top Quarry, F-Level Quarry, Kisuntanki Quarry, 2550 quarry	Kochar Quarry, F-Level Quarry	Work carried out over the Kochar Quarry & F-Level Quarry.
2b	Separate benches in topsoil, overburden and mineral (Rule 15)	NA	Nil	
2c	Stripping ratio or ore to OB ratio	1:0.23 (MT: m ³)	1:0.13 (MT: m ³)	
2d	Quantity of topsoil generation in m ³	Nil	Nil	
2e	Quantity of overburden/waste generation in m ³	96100 m ³	79672.81 m ³	
2f	General remarks of inspecting officer on development of pit w.r.t. type of deposit etc.	The development is broadly with in proposed area.		

Exploitation

S.N.	Item	Proposals	Actual work	Remarks
3a	Number of pits proposed for production	5	3	
3b	Quantity of ROM production proposed	2023-24=742616 MT	608063.900 MT	
3c	Recovery of salable/usable mineral from ROM production	2023-24=742616 MT	458473.300 MT	
3d	Quantity of mineral reject generation	2023-24= Nil	Nil	
3e	Grade of mineral reject generation and threshold value declared	15% Fe as Threshold Value	15% Fe as Threshold Value	
3f	Quantity of sub-grade mineral generation	Nil	Nil	
3g	Grade of sub-grade mineral generation	Nil	Nil	
3h	Manual / Mechanised method adopted for segregating from ROM	Mechanized	Mechanized	
3i	Any analysis or beneficiation study proposed & carried out for sub-grade mineral and reject	NA	Nil	
3j	Provision of drilling & blasting in mineral benches	Proposed	Being done	
3k	Provision of mining machineries in mineral	Proposed	Being done	

	benches			
3l	Whether height of benches in overburden and mineral suitable for method of mining proposed in MP/SOM	Proposed bench height=6.5m, Proposed bench width=9m	Bench height=6.5m, Bench width=9m	
3m	Total area covered under excavation/pits	67.84 Ha	44.80 Ha	
3n	Ore to OB ratio for the pit/mine during the year	2023-24= 1:0.23 (MT: M3)	1:0.13 (MT: m ³)	
3o	Total area put in use under different heads at the end of year	140.543 Ha	122.85 Ha	
3p	Production of ROM mineral during last five-year period, as applicable			
	Year- 2019-20			
	Year- 2020-21	2020-21= 750000 MT	282983.550 MT	
	Year- 202-22	2021-22= 750000 MT	652792.700 MT	
	Year- 2022-23	2022-23= 750000 MT	690796.600 MT	
	Year- 2023-24	2023-24= 742616 MT	608063.900 MT	
3q	General remarks of inspecting officer on method of mining etc.	The method of mining is by opencast method by using deep hole drilling & Blasting and HEMM.		

Solid Waste Management-Dumping

S.N	Item	Proposals	Actual work	Remarks
4a	Separate dumping of topsoil, OB & mineral reject (Rule 32, 33)	Yes	Being done	
4b	Location of topsoil, OB & mineral reject dumps	Top Soil= NA, OB Proposed:- 2023-24- 2550-Dump, KTD-2-Dump, KTD-2-Extn-Dump, 2550-Extn-Dump Proposed:- 2023-24= Mineral Reject- Nil	Top Soil= NA, OB Proposed:- 2023-24-KTD-2-Dump,2550-Extn-Dump Proposed:- 2023-24= Mineral Reject- Nil	
4c	Number of dumps within lease area and outside lease area	Within Lease- 15, Outside Lease- Nil	Within Lease- 2, Outside Lease- Nil	Temporary mineral stock yard at Kisuntanky & No-2 Siding.

4d	Location of dumps w.r.t. ultimate pit limit (Rule 16)	(1) KTD2-Dump- 2467309N to 2467428N/426	(1) KTD2- 2467409.72N to 426482.62E	
----	---	---	---	--

		406E to 426566E (2) 2550-Dump-2467709N to 2467795N/426453E to 426495E (3) KTD2-Extn-2467423.02N to 426432.80E (4) 2550-Extn-2467754.86N to 426473.95E	(2) 2550-Extn-2467754.86N to 426473.95E	
4e	Number of active & alive dumps	15	2	
4f	Number of dead dumps	0	0	
4g	Number of dumps stabilised	2	2	
4h	Whether Retaining wall or garland drain all along dumps are there	Proposed in the mining plan	Both Retaining wall and Garland drain constructed	
4i	Length of Retaining wall or garland drain all along dump	Retaining wall:- 2023-24= 275m, Garland drain:- 2023-24=270m	Retaining wall:- 2023-24= 275m, Garland drain:- 2023-24=270m	
4j	Number of settling ponds	2023-24= 5 Nos	2023-24= 5 Nos	
4k	Specific comments of inspecting officer on waste dump management	The OB dump shall be properly secured to prevent escape of material there from in harmful quantities which may cause degradation of environment and to prevent causation of floods. It was observed that there is no proper terracing and dump height is more than 30 meter (Rajpal Dump, Inclined dump, KTD1 & D2) but still no proper retaining wall is constructed nor any control measures for dump stability taken and accordingly violation pointed out.		

Solid Waste Management-Backfilling

S.N.	Item	Proposals	Actual work	Remarks
5a	Status on part or full extraction of mineral from mined out area before starting backfilling	Nil	Nil	
5b	Area under backfilling of mined out area	Nil	Nil	
5c	Concurrent use of topsoil for restoration or rehabilitation of mined out area (Rule 32)	Nil	Nil	
5d	Total area fully reclaimed & rehabilitated	Nil	Nil	
5e	General remarks of inspecting officer on backfilling, reclamation etc	The area not matured for backfilling.		

Progressive Mine Closure Plan

S.N.	Item	Proposals	Actual work	Remarks
6a	Whether Annual report on PMCP submitted on time and correctly - Rule 23E(2). Details	Yes	Report has been submitted	

	should be given in the format as given in Annexure-20.			
6b	Management of worked/mined out benches i) Area available for rehabilitation (ha) ii) Afforestation done (ha) iii) No. of saplings planted during the year iv) Cumulative no. of plants v) Any other specific method of rehabilitation vi) Cost incurred on watch & care during the year	Nil	Nil	
6c	Compliance on reclamation and rehabilitation by backfilling i) Voids available for backfilling (L * B * D) ii) Void filled by waste/tailings iii) Afforestation on the backfilled area iv) Rehabilitation by making water reservoir v) Any other specific means	Nil	Nil	
6d	Compliance of Rehabilitation of waste land within lease i) Afforestation ii) Area rehabilitated (ha) iii) Method of rehabilitation	Nil	Nil	
6e	Compliance of Environmental monitoring (core zone & buffer zone)	Proposed in the mining plan	Done	
6f	General remarks of inspecting officer on PMCP compliance & progressive closure operations	Broadly as per proposal.		

Mineral Conservation

S.N.	Item	Proposals	Actual work	Remarks
7a	ROM Mineral dispatch or grade-wise sorting within lease area	Gradewise	Broadly as per proposal.	
7b	Method of grade-wise mineral sorting i.e. manual or mechanical	Mechanized Method	Mechanized Method	
7c	Different grade of mineral sorted out at mines	15%-45% Fe, 45-55% Fe & Above 55% Fe	15%-45% Fe, 45-55% Fe & Above 55% Fe	15-55% sell after beneficiation, +55% Fe direct sell.
7d	Any beneficiation process at mines	Crushing, Screening, Magnetic Separator	Crushing, Screening, Magnetic Separator	
7e	General remarks of inspecting officer on Mineral conservation & beneficiation issues	15-55% sell after beneficiation, +55% Fe direct sell.		

Environment

S.N.	Item	Proposals	Actual work	Remarks
------	------	-----------	-------------	---------

8a	Separate removal and utilization of topsoil (Rule 32)	NA	Nil	
8b	Concurrent use or storage of topsoil	NA	Nil	
8c	Separate dumps for overburden, waste rock, rejects and fines (Rule 33)	Proposed	Provided	
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 & additional plantation done (Rule 41)	2023-24=800 Nos	37497	
8g	Survival rate	70%	Broadly as per proposal	
8h	Water sprinkling on roads to control airborne dust	Proposed in the Mining Plan	Water tanker of 6 & 8KL	
8i	General remarks of inspecting officer on aesthetic beauty in and around mines area	During mine visit no adverse impact on aesthetic beauty in and around mines area observed.		

Compliance of Rule 45

S.N.	Item	COMMENTS		Remarks
9a	Status of submission of Monthly and Annual returns	Submitted within times		Form-F1 has been submitted
S.N.	Item		Observation of I/Officer	Remarks
9b	Scrutiny of Annual return for information on Mining Engineer, Geologist and Manager	Manager- Shri Anubhab Dutta Mining Engineer- Shri Anup Samanta, Geologist- Shri Marumudi Srinubabu		
9c	Scrutiny of Annual return on land use pattern for area under pits, reclaimed area, dumps etc.	122.85 Ha		
9d	Scrutiny of Annual return on afforestation	Actually planted 21518 Nos. of plants/species over within lease hold area and outside lease hold area against proposal of 1250 Nos. of species.		
9e	Scrutiny of Annual return on mineral reject generation (Grade & quantity)	Nil		
9f	Scrutiny of Annual return on ROM stock and/or graded ore	After end of the F.Y.2023-24, 1007440.800 MT of ROM and 319113.310 MT of saleable graded ore kept at within lease hold area.		
9g	Scrutiny of Annual return on	Production Cost-Rs. 855.92		Based on

	sale value, Ex. Mine price & production cost	Grade	Sale Value (Rs.)	Ex-Mine Price (Rs.)		Annual Return for F.Y. 2023-24
		-45% Fe, Fines	645.00	399.90		
		-51% Fe, Fines	848.00	658.00		
		-55% Fe, Fines	2211.00	2017.00		
		-62% Fe, CLO	4500.00	4250.00		
		Cost of production 855.92 excluding premium.				
9i	Scrutiny of Annual return on fixed assets	Rs 276519610/-				Based on Annual Return for F.Y. 2023-24
9k	Scrutiny of Annual return on mining machineries	Excavator-6 Nos., Dumper-42 Nos., Drill-4 Nos., Dozer-3 Nos, Road Grader-1 Nos., Water Tanker- 4 Nos., Crusher-3 Nos., Loader-6 Nos.				

During present inspection Rule 11(1),37(2) & 45(5) of MCDR,2017 found violated.

Signature of Mines Manager/ Mining Engineer

Signed by Rajesh Kumar
Das
Date: 02-04-2025 16:58:26