

MCDR INSPECTION REPORT OF GORUMAHISANI IRON ORE BLOCK

General

S N	Particulars	Details
1	File No.-	
2	Name of the Mine	Gorumahisni 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
5	Date of Inspection	04.05.2023 & 05.05.2023
6	Name of official accompanying inspection	Sri Anubhab Dutta, Sri Manas Kumar Patra & Sri Anup Samanta
	IBM Registration Number under rule 45 of MCDR, 1988	IBM/1235/2011
8	Name of the lessee, Address, phone, email and fax number	M/s. 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	Gorumahisani
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	Sri 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	Sri Anubhab Dutta, At & PO- Gorumahisani, Dist- Mayurbhanj, Odisha- 757042 E-mail- gmspl2011@gmail.com Date of Appointment- 04.03.2023

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26	Name of the Mining Engineer & Geologist, Qualification and total experience	Mining engineer Qualification Date of appointment Address phone/email	Sri Anup Samanta Qualification- B.Tech- Mining, Exp- 18 yrs 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	Sri Manas Kumar Patra, M.Sc.-Geology, Exp- 15 yrs, D.O.A.- 05.07.2021 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, Sri Anup Samanta, Mining engineer Sri Manas Kumar Patra, Geologist	
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	
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	

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	However, the lessee has already drilled 128 nos of bore holes during 2021-22.
1c	Exploration Agency & Expenditure in lakh Rupees during the year	Not proposed	Nil	The lessee has not drilled any exploratory bore holes during the reporting year of 2022-23
1d	Balance area to be explored to bring Geological axis in 1 or 2	32.50 Ha	Nil	The lessee has not drilled any exploratory bore holes during the reporting year of

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				2022-23
1e	Balance reserves as on 01.04.2023		16134667.700 tonnes	
1f	General remarks of inspecting officer on geology, exploration etc.	The lessee has not carried out the exploration proposal as per the approved modification of mining plan. However, as per the present draft modification submitted to this office, the lessee has drilled 128 no of bore holes within the lease area during 2020-21.		

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	The lessee has not carried out development as per the proposal of the approved modification of mining plan during the reporting year of 2022-23. In this regard, a violation letter vide dated 22/05/2023 has been issued to the lessee from this office.
2b	Separate benches in topsoil, overburden and mineral (Rule 15)	NA	Nil	No proposal
2c	Stripping ratio or ore to OB ratio	1:0.27 (MT: m ³)	1:2.5 (MT: m ³)	
2d	Quantity of topsoil generation in m ³	Nil	Nil	
2e	Quantity of overburden/waste generation in m ³	204921 m ³	1341666 m ³	
2f	General remarks of inspecting officer on development of pit w.r.t. type of deposit etc.	The lessee has proposed development and production from all existing quarries i.e. 5 nos of quarries. During the inspection it has been seen that the lessee has carried out excavation work within two quarries only and back filled in another two quarries i.e. Kisuntanki Quarry, 2550 quarry where development and production were proposed. A violation letter for contravention of Rules of MCDR 2017 has already been issued vide dated 22/05/2023 to the lessee.		

Exploitation

S.N.	Item	Proposals	Actual work	Remarks
3a	Number of pits proposed for production	5 Nos; Kochar Quarry, Kochar Top Quarry, F-Level Quarry, Kisuntanki	2 Nos; Kochar Quarry, F-Level Quarry	The lessee has not carried out exploitation as per the

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		Quarry, 2550 quarry		proposal of the approved modification of mining plan during the reporting year of 2022-23. In this regard, a violation letter vide dated 22/05/2023 has been issued to the lessee from this office.
3b	Quantity of ROM production proposed	750000 tonnes	690796.600 tonnes	The lessee has not carried out exploitation as per the proposal of the approved modification of mining plan during the reporting year of 2022-23. In this regard, a violation letter vide dated 22/05/2023 has been issued to the lessee from this office.
3c	Recovery of salable/usable mineral from ROM production	262500 tonnes	5432.300 tonnes	
3d	Quantity of mineral reject generation	487500 tonnes	166294.930 tonnes	
3e	Grade of mineral reject generation and threshold value declared	45-55% Fe	45-55% Fe	
3f	Quantity of sub-grade mineral generation	Nil	Nil	
3g	Grade of sub-grade mineral generation	NA	NA	
3h	Manual / Mechanised method adopted for segregating from ROM	Mechanized	Mechanized	
3i	Any analysis or beneficiation study	NA	Nil	

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	proposed & carried out for sub-grade mineral and reject			
3j	Provision of drilling & blasting in mineral benches	Yes, Jack Hammer 115 mm dia Drills. Blasting proposed with LD explosives of 25mm dia. & 83mm dia. With detonating cord & milli second delay detonators.	Yes, Jack Hammer 115 mm dia Drills. Blasting proposed with LD explosives of 25mm dia. & 83mm dia. With detonating cord & milli second delay detonators.	
3k	Provision of mining machineries in mineral benches	Yes, Shovel and Dumper combination Proposed	Yes, Shovel and Dumper combination carried out.	
3l	Whether height of benches in overburden and mineral suitable for method of mining proposed in MP/SOM	Proposed bench height=6m, Proposed bench width=9m	The height of the bench is suitable for the method of mining proposed in review of mining plan. However in few places the proposed bench geometry was not followed. A violation letter in this regard has already been issued to the lessee vide letter dated 22/05/2023.	
3m	Total area covered under excavation/pits	67.83 Ha	58.686 Ha	Lessee has back filled two number quarries namely Kisuntanki Quarry, 2550 quarry.
3n	Ore to OB ratio for the pit/ mine during the year	1:0.27 (MT: M3)	1:2.5 (MT: m ³)	
3o	Total area put in use under different heads at the end of year	147.39 Ha till the end of the plan period.	140.44 Ha till the end of the reporting year.	
3p	Production of ROM mineral during last five-year period, as applicable			
	Year- 2020-21	2020-21= 750000 MT	282983.550 MT	
	Year- 202-22	2021-22= 750000 MT	652792.700 MT	

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	Year- 2022-23	2022-23= 750000 MT	690796.600 MT	
3q	General remarks of inspecting officer on method of mining etc.	The lessee has proposed development and production from all existing quarries i.e. 5 nos of quarries. During the inspection it has been seen that the lessee has carried out excavation work within two quarries only and back filled in another two quarries i.e. Kisuntanki Quarry, 2550 quarry where development and production were proposed. Further the bench geometry was also not as per the proposal of the approved mining plan document. However, a violation letter for contraventions of Rules of MCDR 2017 has already been issued vide dated 22/05/2023 to the lessee.		

Solid Waste Management-Dumping

S.N.	Item	Proposals	Actual work	Remarks
4a	Separate dumping of topsoil, OB & mineral reject (Rule 32, 33)	Separate dumping of topsoil, OB & mineral reject were proposed	Separate dumping of OB & stacking of mineral reject are being practiced.	
4b	Location of topsoil, OB & mineral reject dumps	Top Soil= NA, OB Proposed:- 2022-23- Rajpal Dump, KTD-2 Dump, 2550 Dump. Mineral Reject Proposed:- 2022-23= Mineral reject-1	Top Soil= Nil OB Proposed:- 2022-23- Rajpal Dump, KTD-2 Dump, Mineral Reject Proposed:- 2022-23= Mineral reject-1	
4c	Number of dumps within lease area and outside lease area	Within Lease- 17, Outside Lease- Nil	Within Lease- 17, Outside Lease- Nil	
4d	Location of dumps w.r.t. ultimate pit limit (Rule 16)	Rajpal-2467689N to 2467803N/425338 E to 425421E KTD2-2467309N to 2467428N/426406 E to 426566E 2550-2467709N to 2467795N/426453 E to 426495E	Rajpal-2467689N to 2467803N/425338E to 425421E	Out of the 3 active dump , dumping of waste are carried out in one dump only in one dump.
4e	Number of active & alive dumps	17	3 active dumps out of 17 dumps	
4f	Number of dead dumps	0	0	
4g	Number of dumps stabilised	14	14	
4h	Whether Retaining wall or garland drain all along dumps are there	Both Retaining wall and Garland drain proposed.	Both Retaining wall and Garland drain constructed;	

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		Retaining wall:- 2022-23= 740m, Garland drain:- 2022-23=740m	Retaining wall:- 2022-23= 740m, Garland drain:- 2022-23=740m	
4i	Length of Retaining wall or garland drain all along dump	Retaining wall:- 2022-23= 740m, Garland drain:- 2022-23=740m	Retaining wall:- 2022-23= 740m, Garland drain:- 2022-23=740m	
4j	Number of settling ponds	2022-23= 5 Nos	05 Nos	
4k	Specific comments of inspecting officer on waste dump management	Separate dumping of OB & stacking of mineral reject are being practiced during the reporting year. OB dumps are well within the proposed location and protective measures are also constructed as per the proposal. However, the lessee has proposed development and production from all existing quarries i.e. 5 nos of quarries. During the inspection it has been seen that the lessee has carried out excavation work within two quarries only and back filled in another two quarries i.e. Kisuntanki Quarry, 2550 quarry where development and production were proposed. Based on the mine inspection, a violation letter for contraventions of Rules of MCDR 2017 has already been issued vide dated 22/05/2023 to the lessee.		

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	In 2 Nos quarries; Kisuntanki Quarry, 2550 quarry	
5b	Area under backfilling of mined out area	Nil	In 2 Nos quarries entirely; Kisuntanki Quarry, 2550 quarry, about 9.15 Ha.	
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 lessee has proposed development and production from all existing quarries i.e. 5 nos of quarries. During the inspection it has been seen that the lessee has carried out excavation work within two quarries only and back filled in another two quarries i.e. Kisuntanki Quarry, 2550 quarry where development and production were proposed. Based on the mine inspection, a violation letter for contraventions of Rules of MCDR 2017 has already been issued vide dated 22/05/2023 to the lessee.		

Progressive Mine Closure Plan

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S.N	Item	Proposals	Actual work	Remarks
6a	Whether Annual report on PMCP submitted on time and correctly - Rule 23E(2). Details should be given in the format as given in Annexure-20.	Yes	Report has been submitted	
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	i) 1250 nos of saplings ii) 2022-23= 0.5 Ha iii) Plantation	i) 1250 nos of saplings ii) 2022-23= 0.5 Ha iii) Plantation	
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	The lessee has carried out afforestation of about 1250 nos of saplings and environmental monitoring as per the proposal during the reporting year. However, the lessee has carried out back filled in two quarries i.e. Kisuntanki Quarry, 2550 quarry where development and production were proposed. Based on the mine inspection, a violation letter for contraventions of Rules of MCDR 2017 has already been issued vide dated 22/05/2023 to the lessee.		

Mineral Conservation

S.N	Item	Proposals	Actual work	Remarks
7a	ROM Mineral dispatch or grade-	Saleable	Saleable Ore: +55 %	

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	wise sorting within lease area	Ore: +55 % Fe, Mineral Reject: +45 to 51% Fe +51 to 55% Fe were proposed.	Fe, Mineral Reject: +45 to 51% Fe +51 to 55% Fe are being in practiced.	
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	Saleable Ore: +55 % Fe, Mineral Reject:- +45 to 51% Fe +51 to 55% Fe	Saleable Ore: +55 % Fe, Mineral Reject:- +45 to 51% Fe +51 to 55% Fe	
7d	Any beneficiation process at mines	Nil	Nil	
7e	General remarks of inspecting officer on Mineral conservation & beneficiation issues	Saleable Ore: +55 % Fe, Mineral Reject: +45 to 51% Fe +51 to 55% Fe stocks are being practiced. Further no beneficiation process was proposed. Only crushing and Screenings are being carried out during the reporting year.		

Environment

S.N.	Item	Proposals	Actual work	Remarks
8a	Separate removal and utilization of topsoil (Rule 32)	Nil	Nil	
8b	Concurrent use or storage of topsoil	Nil	Nil	
8c	Separate dumps for overburden, waste rock, rejects and fines (Rule 33)	Separate dumps for overburden and mineral reject stacks, waste rocks are proposed.	Separate dumps for Over-burden and mineral stacks and other waste rocks are being practiced.	
8d	Use of overburden, waste rock, rejects and fines dumps for restoring the land to its original use	Nil	Back filled in two quarries i.e. Kisuntanki Quarry, 2550 quarry	Back filled in two quarries i.e. Kisuntanki Quarry, 2550 quarry
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)	2022-23=1250 Nos	1250	

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8g	Survival rate			
8h	Water sprinkling on roads to control airborne dust	Water sprinkling by water tanker over haul roads has been carried out during the reporting year.	Water sprinkling by water tanker over haul roads has been carried out during the reporting year.	
8i	General remarks of inspecting officer on aesthetic beauty in and around mines area	The lessee has proposed development and production from all existing quarries i.e. 5 nos of quarries. During the inspection it has been seen that the lessee has carried out excavation work within two quarries only and back filled in another two quarries i.e. Kisuntanki Quarry, 2550 quarry where development and production were proposed. A violation letter for contravention of Rules of MCDR 2017 has already been issued vide dated 22/05/2023 to the lessee. However, lessee has planted 1250 no of saplings within the lease area and water sprinkling by water tanker over haul roads to control the airborne dust and to minimize the fugitive dust emission. This sustains the aesthetic beauty of the mine area.		

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	Annual return for FY 2022-23 has not been submitted till the date of inspection and yet to be submitted within the scheduled time period.	Annual return for FY 2022-23 has not been submitted till the date of inspection and yet to be submitted within the scheduled time period.	
9c	Scrutiny of Annual return on land use pattern for area under pits, reclaimed area, dumps etc.	Annual return for FY 2022-23 has not been submitted till the date of inspection and yet to be submitted within the scheduled time period.	Annual return for FY 2022-23 has not been submitted till the date of inspection and yet to be submitted	

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			within the scheduled time period.	
9d	Scrutiny of Annual return on afforestation	Annual return for FY 2022-23 has not been submitted till the date of inspection and yet to be submitted within the scheduled time period.	Annual return for FY 2022-23 has not been submitted till the date of inspection and yet to be submitted within the scheduled time period.	
9e	Scrutiny of Annual return on mineral reject generation (Grade & quantity)	Annual return for FY 2022-23 has not been submitted till the date of inspection and yet to be submitted within the scheduled time period.	Annual return for FY 2022-23 has not been submitted till the date of inspection and yet to be submitted within the scheduled time period.	
9f	Scrutiny of Annual return on ROM stock and/or graded ore	Annual return for FY 2022-23 has not been submitted till the date of inspection and yet to be submitted within the scheduled time period.	Annual return for FY 2022-23 has not been submitted till the date of inspection and yet to be submitted within the scheduled time period.	
9g	Scrutiny of Annual return on sale value, Ex. Mine price & production cost	Annual return for FY 2022-23 has not been submitted till the date of inspection and yet to be submitted within the scheduled time period.	Annual return for FY 2022-23 has not been submitted till the date of inspection and yet to be submitted within the scheduled time period.	

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9j	Scrutiny of Annual return on fixed assets	Annual return for FY 2022-23 has not been submitted till the date of inspection and yet to be submitted within the scheduled time period.	Annual return for FY 2022-23 has not been submitted till the date of inspection and yet to be submitted within the scheduled time period.	
9k	Scrutiny of Annual return on mining machineries	Annual return for FY 2022-23 has not been submitted till the date of inspection and yet to be submitted within the scheduled time period.	Annual return for FY 2022-23 has not been submitted till the date of inspection and yet to be submitted within the scheduled time period.	