

Part-I: General

S. N.	Particulars	Details
1	Name of the Mine	Patabeda Iron & Mn Mines
2	Total Lease Area (Ha) with breakup of Non-forest and forest land	Total Lease - 19.425Ha Non-Forest- 2.918Ha DLC Forest- 11.246 Ha KF- 5.261Ha
3	Mine code	30ORI13017
4	IBM Registration Number under rule 45 of	IBM/247/2011
5	Name of the lessee, Address, phone, email and fax number	M/s M G Mohanty At: Patabeda, Po: Malda, District: Sundargarh(Odisha) mgmohantybo@gmail.com
6	Village	Patabeda
7	Taluka/Mandal	Koira
8	District	Sundargarh
9	Pin code	770048
10	State	Odisha
11	Post office	Malda
12	Nearest police station	Koira
13	Nearest Railway station	Joroli
14	Date of Grant of Mining Lease	31.10.1985
15	Date of Execution	03.04.1986
16	Date of opening of Mine	25.04.1986
17	Date of first Renewal, if applicable and its period & expiry	In view of Section8(A) of MMDR amendment Act, 2015,w.e.f.12.01.2015,the lease period has been extended for 50 years from 03.04.1986 to 02.04.2036 by way of execution of supplementary lease deed on 01.08.2016.
18	Date of submission of renewal application if Mining Operations are continuing under deemed extension	NA
19	Name of the Nominated Owner with Address, phone, email, fax number and date of appointment	R.L. Mohanty 5A, forest Park rlmbbsr@mail.com
20	Name of the Mine Agent with Address, phone, email, fax number and date of appointment	Tanuj Mohanty, 5A, forest Park, Bhubaneswar tanuj.mohanty@gmail.com
21	Name of the Mines Manager with Address, phone, email, fax number and date of appointment in mines	Mahendra Kumar Mohanty At: Patabeda, Po: Malda, Dist: Sundargarh Mob. No.: 7440015202 Mail id : mohanty.mahendra@gmail.com
22	Name of the Mining Engineer, Qualification and total experience with Address, phone, email, fax number and date of appointment in mine	Mr. Saroj Kumar Shaw(Mining Engg) At: Patabeda, Po: Malda, Dist: Sundargarh Mob. No.: 7440015220 Data of Appointment : 01.11.2021

23	Name of the Geologist, Qualification and total experience with Address, phone, email, fax number and date of appointment in mine	Mr. Dillip Kumar Pattanayak (Geologist). At: Patabeda, Po: Malda, Dist: Sundargarh Mob. No.: 7440015245 Data of Appointment : 01.11.2021
24	Whether Geologist and Mining Engineer appointed in mines satisfy the rule 55 & carrying out their duties as per rule 56 & 57.	Yes,
25	Date of Approval of Mining Plan/Modified Mining Plan with five-year period and specific condition in approval letter, if any.	BBS/SNG/Fe& Mn/MP-238, dt. 05.07.2005
26	Date of Approval of Scheme of Mining/Modified Scheme of Mining with five-year period and specific condition in approval letter, if any.	MRMP/A/37-ORI/BHU/2021-22, dt. 16.03.2022
27	Mineral(s) granted in lease and proved for mining	Iron
28	Method of Mining(Open cast, Underground)	Open Cast
29	Category (Fully Mechanized, Others or Manual)	Fully Mechanized
30	Captive/Non Captive	Non-Captive

Details about Mining Plan/ Mining Scheme

a) Letter No. and date of approval of mining plan	:	BBS/SNG/Fe& Mn/MP-238, dt. 05.07.2005
b) Letter No. and date of approval of Review mining Plan.	:	MRMP/A/37-ORI/BHU/2021-22, dt. 16.03.2022
c) Condition while approving the MP/ MS/ modification	:	
d) Period of mining plan/ mining scheme in force :	:	Scheme Period 2022-23 to 2025-26

1. **Scientific Mining:** Compliance of proposals of approved mining plan/scheme of mining. (Duplication of information in existing TMIS data sheets and draft write up has been avoided.)

Exploration:

S.N.	Item	Proposals for 2022-23	Actual work during 2022-23	Remarks
1a	Backlog of previous year		Nil	
1b	Exploration over lease area for Geological axis 1 or 2.	No Proposal	Nil	
1c	Exploration Agency & Expenditure in lakh Rupees during the year	No Proposal	Nil	
1d	Balance area to be explored to bring Geological axis in 1 or 2	Nil	The entire area has been explored under G-1 level.	
1e	Balance reserves as on 01.04.2023	111- 8051300 122- 0 221- 50775	111- 8051300 122- 0 221- 50775	

2. **Development: (2022-23)**

S.N.	Item	Proposals for 2022-23	Actual work during 2022-23	Remarks
2a	Location of development w.r.t. lease area	N2426073-2426232 E331937-332157	N2426073-2426232 E331937-332157	
2b	Separate benches in topsoil, overburden and mineral (Rule 15)	No	Nil	
2c	Stripping ratio or ore to OB ratio	1:0.04	1:0.05	
2d	Quantity of topsoil generation in m ³	Nil	Nil	
2e	Quantity of overburden generation in m ³	6900m ³	9026m ³	

3. **Exploitation (2022-23)**

S.N.	Item	Proposals for 2022-23	Actual work during 2022-23	Remarks
3a	Number of pits proposed for production	One	One	Pit coordinate N2426368-2426120 E331931-332111

3b	Quantity of ROM mineral production proposed	196630tonne	179780tonne	
3c	Recovery of salable/usable mineral from ROM production	196630tonne	179780tonne	
3d	Quantity of mineral reject generation	Nil	Nil	The Mineral reject is blended with the high grade ores to meet the marketable grade.
3e	Grade of mineral reject generation and threshold value declared	+45% to -55%	+45% to -55%	
3f	Quantity of sub-grade mineral generation	-	-	
3g	Grade of sub-grade mineral generation	-	-	
3h	Manual / Mechanized method adopted for segregating from ROM	Mechanized	Mechanized	
3i	Any analysis or beneficiation study proposed & carried out for sub-grade	No Proposal	N A	
3j	Provision of drilling & blasting in mineral benches	Yes	Yes	Deep hole drilling of 110mm dia is done with 2.5m burden, 3.0m spacing and 6m height. Blasting is done with Slurry explosives of 83mm dia, Nonel and Electric detonator used.
3k	Provision of mining machineries in mineral benches	Yes	Yes	Excavator – 1.6 M³ Excavator – 1.42 M³ Wheel loader-1.8 M³ Wheel loader-2.5 M³ DTH Drill-110mm Tipper – 16tonne Tipper – 25tonne Water Tanker-9Kl Crusher plant – 120TPH Mobile Screening Plant -250TPH
3l	Whether height of benches in overburden and mineral suitable for method of mining proposed in MP/SOM	Yes	Yes	
3m	Total area covered under excavation/pits	Pit – 6.694Ha	Pit – 6.694Ha	
3n	Ore to OB ratio for the pit/mine during the year	1:0.04	1:0.05	

3o	Total area put in use under different heads at the end of year	19.425	19.425	Pit – 6.694Ha Dump –1.384Ha Other Plant, Infrastructure and road -11.347Ha Safety zone -1.29Ha
3p	Production of ROM mineral during the last Six year period as applicable. (16-17 to21-22)	2016-17- 194317 2017-18- 189459 2018-19- 195083 2019-20- 195120 2020-21- 195526 2021-22- 210200 2022-23- 196630	2016-17- 144000 2017-18- 166520 2018-19- 180000 2019-20- 179500 2020-21- 178600 2020-21- 179742 2022-23- 179760	

4. Solid Waste Management-Dumping:

S.N.	Item	Proposals for 2022-23	Actual work during 2022-23	Remarks
4a	Separate dumping of topsoil, OB & mineral reject (Rule 33, 37)	Yes	Yes	
4b	Location of topsoil, OB & mineral reject dumps	<u>M R –Dump -1</u> N2426203- 2426376 E332195-332307 <u>M R –Dump -2</u> N2425900- 2425984 E332240-3322331 <u>Dump -3 (Dead)</u> N2426006- 2426087 E331948-332040 <u>Dump -4 (Active)</u> N2426344- N2426372 E332155- E332191	<u>M R –Dump -1</u> N2426203- 2426376 E332195-332307 <u>M R –Dump -2</u> N2425900- 2425984 E332240-3322331 <u>Dump -3 (Dead)</u> N2426006- 2426087 E331948-332040 <u>Dump -4 (Active)</u> N2426344- N2426372 E332155- E332191	
4c	Number of dumps within lease area and outside lease area	within lease area – 4 outside lease area - Nil	within lease area – 4 outside lease area - Nil	
4d	Location of dumps w.r.t. ultimate pit limit	<u>Dump -3 (Dead)</u> N2426006- 2426087 E331948-332040 <u>Dump -4 (Active)</u> N2426344- N2426372 E332155- E332191	<u>Dump -3 (Dead)</u> N2426006- 2426087 E331948-332040 <u>Dump -4 (Active)</u> N2426344- N2426372 E332155- E332191	
4e	Number of active & alive dumps	1	1	
4f	Number of dead dumps	1	1	
4g	Number of dumps stabilized	3	3	
4h	Whether Retaining wall or garland drain all along dumps are there	Yes	Yes	
4i	Length of Retaining wall or garland drain all along dump	50mt retaining wall and 70mt garland drain.	60mt retaining wall work done.	

4j	Number of settling ponds	Maintenance	3Nos	De-silted
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5. Solid Waste Management-Backfilling: N.A

S.N.	Item	Proposals for 2022-23	Actual work during 2022-23	Remarks
5a	Status on part or full extraction of mineral from mined out area before starting backfilling	N.A	N.A	
5b	Area under backfilling of mined out area	N.A	N.A	
5c	Concurrent use of topsoil for restoration or rehabilitation of mined out area (Rule 32)	N.A	N.A	
5d	Total area fully reclaimed & rehabilitated	N.A	N.A	

6. Progressive Mine Closure Plan:

S.N.	Item	Proposals for 2022-23	Actual work during 2022-23	Remarks
6a	Whether Annual report on PMCP submitted on time and correctly - Rule 26 (2).	Yes	Yes	
6b	i)Area available for rehabilitation (ha)	NIL	NIL	
	ii)Afforestation done (ha)	No Proposal	Gap plantation	
	iii)No. of saplings planted during the year	Nil	218	
	iv)Cumulative no. of plants		19154 nos planted as on date	
	v)Any other specific method of rehabilitation	No Proposal	Nil	
	vi)Cost incurred on watch & care during the year	No Proposal	Under supervision of Lessee	
6c	Compliance on reclamation and rehabilitation by backfilling (i) Voids available for backfilling (L X B X D).	No Proposal	NIL	
	(ii) Void filled by waste/tailings.	No Proposal	NIL	
	(iii) Afforestation on the backfilled area.	No Proposal	NIL	
	(iv) Rehabilitation by making water reservoir.	No Proposal	NIL	
	(v) Any other specific means	No Proposal	NIL	
6d	Compliance of Rehabilitation of waste land within lease (i)Afforestation	No Proposal	NIL	
	(ii) Area rehabilitated (ha) Method of rehabilitation	No Proposal	NIL	

	(iii) Method of rehabilitation	No Proposal	NIL	
6e	Compliance of Environmental monitoring (core zone & buffer zone)	Core Zone- Quarry, Haul road, Crusher plant Buffer Zone – Gonua Camp Guruda Camp	Core Zone- Quarry, Haul road, Crusher plant Buffer Zone – Gonua Camp Guruda Camp	

7. Mineral Conservation:

S.N.	Item	Proposals for 2022-23	Actual work during 2022-23	Remarks
7a	ROM Mineral dispatch or grade-wise sorting within lease area	55-58&% Fe 58-60&% Fe 60-62&% Fe 62-65&% Fe	55-58&% Fe 58-60&% Fe 60-62&% Fe 62-65&% Fe	
7b	Method of grade-wise mineral sorting i.e. manual or mechanical	Mechanical	Mechanical	
7c	Different grade of mineral sorted out at mines	55-58&% Fe 58-60&% Fe 60-62&% Fe 62-65&% Fe	55-58&% Fe 58-60&% Fe 60-62&% Fe 62-65&% Fe	
7d	Any beneficiation process at mines	NA	NA	

8. Environment:

S.N.	Item	Proposals for 2022-23	Actual work during 2022-23	Remarks
8a	Separate removal and utilization of topsoil (Rule 32)	No Proposal	N.A	
8b	Concurrent use or storage of topsoil	No Proposal	N.A	
8c	Separate dumps for overburden, waste rock, rejects and fines (Rule 33)	Yes	Yes	
8d	Use of overburden, waste rock, rejects and fines dumps for restoring the land to its original use	No Proposal	N.A	
8e	Phased restoration, reclamation and rehabilitation of lands affected by mining operations (Pits, dumps etc)	Plantation on waste dump	218 nos planted	
8f	Baseline information on existence of plantation & additional plantation done (Rule 41)	No Proposal	N.A	
8g	Survival rate		80%	

8h	Water sprinkling on roads to control airborne dust	Yes	Yes	
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9. **Compliance of Rule 45 (2021-22)**

S.N.	Item	Proposals for 2021-22	Actual work during 2021-22	Remarks
9a	Status of submission of Monthly and Annual returns	Yes	M.R. Submitted up to April-2023 A.R. submitted up to 2021-22	
9b	Scrutiny of Annual return for information on Mining Engineer, Geologist and Manager	Manager -1 Geologist -1 Mining Engineer-1	Mahendra Kumar Mohanty (Manager) Dillip Kumar Pattanayak (Geologist) Saroj Kumar Shaw (Mining Engineer)	
9c	Scrutiny of Annual return on land use pattern for area under pits, reclaimed area, dumps etc.	Pit – 6.5Ha Dump –1.138Ha Other Plant, Infrastructure and road -10.497Ha Safety zone -1.29Ha	Pit – 6.5Ha Dump –1.138Ha Other Plant, Infrastructure and road - 10.497Ha Safety zone -1.29Ha	
9d	Scrutiny of Annual return on Afforestation	250	293	
9e	Scrutiny of Annual return on mineral reject generation (Grade & quantity)	Nil	Nil	
9f	Scrutiny of Annual return on ROM stock and/or graded ore	<u>Closing stock</u> ROM - 14818.000 <u>Processed Ore</u> <u>Lump</u> +65% Fe - 24.260 62-65&% Fe - 6691.110 60-62&% Fe - 15.400 <u>Fines</u> +65% Fe - 5.522 62-65&% Fe –	<u>Closing stock</u> ROM - 14818.000 <u>Processed Ore</u> <u>Lump</u> +65% Fe - 24.260 62-65&% Fe - 6691.110 60-62&% Fe - 15.400 <u>Fines</u> +65% Fe - 5.522 62-65&% Fe - 54.940 60-62&% Fe- 29478.130 55-58&% Fe - 51.480 -55% Fe - 13.960	

9g	Scrutiny of Annual return on sale value, Ex. Mine price & production cost etc.	Ex- Mine Price Lump +65% Fe - 8267.82 62-65&% Fe - 10252.51 Fines 62-65&% Fe – 6935.02 60-62&% Fe – 5474.23 55-58&% Fe – 4599.66	Ex- Mine Price Lump +65% Fe - 8267.82 62-65&% Fe - 10252.51 Fines 62-65&% Fe – 6935.02 60-62&% Fe – 5474.23 55-58&% Fe – 4599.66 production cost –Rs2857.09	
9h	Scrutiny of Annual return on fixed assets	Rs. 64024322.00	Rs. 64024322.00	
9i	Scrutiny of Annual return on mining machineries	Excavator – 1.6 M ³ Excavator – 1.42 M ³ Wheel loader-1.8 M ³ Wheel loader-2.5 M ³ DTH Drill-110mm Tipper – 16tonne Tipper – 25tonne Water Tanker-9Kl Crusher plant – 120TPH Mobile Screening Plant -250TPH	Excavator – 1.6 M ³ Excavator – 1.42 M ³ Wheel loader-1.8 M ³ Wheel loader-2.5 M ³ DTH Drill-110mm Tipper – 16tonne Tipper – 25tonne Water Tanker-9Kl Crusher plant – 120TPH Mobile Screening Plant - 250TPH	

Details of violations observed during current inspection and compliance position of earlier violation pointed out.
NIL VIOLATIONS