

MCDR INSPECTION REPORT

General

S. N.	Particulars	Details	
1	Name of the Mine	Mahulsukha Iron & Manganese Ore Mine	
	Name of the Inspecting Officer	Shri Sujit Kumar Jena, JMG	
	Date of Inspection	07.11.2024	
2	Total Lease Area (Ha) with breakup of Non-forest and forest land	Total Lease area (Ha.)	390.317
		Forest Area (Ha.)	382.437
		Non-Forest Area (Ha.)	7.880
		Other (If any)	---
3	Mine code	40ORI13059	
4	IBM Registration Number under rule 45 of MCDR, 1988	IBM/4585/2011	
5	Name of the lessee, Address, phone, email and fax number	M/s. RUNGTA SONS PRIVATE LIMITED Name : Sri Hirak Mazumder 8AEXPRESS TOWER, 42A-SHAKESPEARE SARANI PIN: 700017, Odisha Phone: 06767276161 Email: bbloffice@runtasons.com	
6	Village	Randa, Rantha & Bhutuda	
7	Taluka/Mandal	Bonai	
8	District	Sundargarh	
9	Pincode	770041	
10	State	Odisha	
11	Post office	Bhutuda	
12	Nearest police station	Lahunipada	
13	Nearest Railway station	Barsuan	
14	Date of Grant of Mining Lease	29.06.2020	
15	Date of Execution	29.06.2020	
16	Date of opening of Mine	17.09.2020	
17	Date of first Renewal, if applicable and its period & expiry	Not Applicable	
18	Date of second Renewal, if applicable and its period & expiry	Not Applicable	
19	Date of submission of renewal application if Mining Operations are continuing under deemed extension	Not Applicable	
20	Name of the Nominated Owner with Address, phone, email, fax number and date of appointment	M/s. RUNGTA SONS PRIVATE LIMITED Name : Sri Hirak Mazumder Rungta Office, Main road, Barbil, Keonjhar PIN: 758035, Odisha Phone: 06767276161 Email: bbloffice@runtasons.com	
21	Name of the Mine Agent with Address, phone, email, fax number and date of appointment	Shri Dillip Kumar Parida At/Po: Barbil Dist-Keonjhar, Pin-758035 State-Odisha	

22	Name of the Mines Manager with Address, phone, email, fax number and date of appointment in mines	Name : Mr. Chandrakanta Rath Address: AT/PO- Bhutuda, VIA Barsuan Dist: Sundergarh, PIN: 770041, Odisha Phone: 9437357067 Email: rath.ranju@gmail.com
23	Name of the Mining Engineer, Qualification and total experience with Address, phone, email, fax number and date of appointment in mine	Name : Mr. Sunil Kumar Bharti Address: AT/PO- Bhutuda, VIA Barsuan Dist: Sundergarh, PIN: 770041, Odisha Phone: 9437345219, 9439489644 Email: bharti.koira@gmail.com Qualification- B.Tech in mining Experience- 19 years
24	Name of the Geologist, Qualification and total experience with Address, phone, email, fax number and date of appointment in mine	Name : Mr. Bhabagrahi Mohapatra Address: AT/PO- Bhutuda, VIA Barsuan Dist: Sundergarh, PIN: 770041, Odisha Phone: 9437139637 Email: mohapatrab123@gmail.com Qualification- M.sc in Geology Experience- 30 years
25	Whether Geologist and Mining Engineer appointed in mines satisfy the rule 55& carrying out their duties as per rule 56 & 57.	Yes
26	Date of Approval of Mining Plan/Modified Mining Plan with five-year period and specific condition in approval letter, if any.	<ul style="list-style-type: none"> • Mining Plan has been approved by IBM vide letter no-MP/A/17/-ORI/BHU/2020-21/1796, dt. 01.10.2020 • A Modification of Mining Plan has been approved by IBM vide letter no-MCDR-MiFLOCR/05/2022-BBS-IBM_RO_BBS, dt. 22.05.2024.
27	Date of Approval of Scheme of Mining/Modified Scheme of Mining with five-year period and specific condition in approval letter, if any.	22.05.2024 (MMP)
28	Mineral(s) granted in lease and proved for mining	Iron and Manganese
29	Method of Mining(Open cast, Underground)	Open cast
30	Category (Fully Mechanised, Others or Manual)	Other than Fully Mechanized
31	Captive/Non Captive	Non-Captive
32	Present EC Capacity	40,000 MTPA (Only for Manganese)

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 2023-24	Actual work during 2023-24	Remark
1a	Backlog of previous year	NIL	NIL	

1b	Exploration over lease area for Geological axis 1 or 2.	146 Nos	39 Nos	Due to want of FC and EC
1c	Exploration Agency & Expenditure in lakh Rupees during the year	-	V.K.S.Mining services (22.77 Lakh)	
1d	Balance area to be explored to bring Geological axis in 1 or 2		279.217-G1 111.100-G2	
1e	Balance reserves as per latest approved document	Mn-6,69,041 tonne Fe-2,67,83,298 tonne	Mn-6,69,041 tonne Fe-2,67,83,298 tonne	As on dated 31.03.2024
1f	General remarks of inspecting officer on geology, exploration etc.	The deposit in the area forms a part of the South Eastern part of the Singhbhum Keonjhar belt and is represented by narrow easterly plunging synclonirium of 60 KM length 25 KM width. The general strike is North East to North, dips are moderate to west.		

Development

S. N.	Item	Proposals for, 2023-24	Actual work during 2023-24	Remark
2a	Location of development w.r.t. lease area	NANDAGIRA QUARRY-1N (2410731N-2411065N, 308308E-308610E)	NANDAGIRA QUARRY-1N (2410731N-2411065N, 308308E-308610E)	Within the proposal
2b	Separate benches in topsoil, overburden and mineral (Rule 15)	No Proposal for top soil generation. For Mn- No. of benches for Ore-6 No. of benches for OB-10 (for all blocks) For Fe- No. of benches for Ore-5 No. of benches for OB-5	As per proposal	
2c	Stripping ratio or ore to OB ratio (Ton:m3)	2023-24, Mn: 1:2.56 Fe: 1: 0.38	2023-24, Mn: 1: 1.11 Fe: Nil	The actual stripping ratio is less than the proposal due to less

				development for want of EC.
2d	Quantity of topsoil generation in m3	No proposal during the reporting year	Not Applicable	
2e	Quantity of overburden generation in m3	2023-24 Mn-205130 Cum Fe-235077 Cum	2023-24 Mn- 44445 Cum Fe-NIL	Less generation of OB during FY 2022-23 vis a vis ROM
2f	General remarks of inspecting officer on development of pit w.r.t. type of deposit etc.	The mine working is confined to 1 pit only. The work is being broadly carried out as per proposals in the approved document.		

EXPLOITATION

N.	Item	Proposals for, 2023-24	Actual work during 2023-24	Remark
3a	Number of pits proposed for production	1 nos (Nandgira quarry)	1 nos (Nandgira quarry)	
3b	Quantity of ROM mineral production proposed	Mn-80002 MT Fe-603516 MT	Mn-39990 MT Fe-0.00	Mn ore production is restricted to 40000 tons as per EC. EC for enhancement production of Mn ore & newly included Iron ore is yet to be obtained.
3c	Recovery of salable/usable mineral from ROM production	Mn-88% (+20%Mn) of Fe-64.99% MT (+55%Fe)	Mn-100% (+20%Mn) Fe-NIL	No Mineral reject generated during the course of mining/processing.
3d	Quantity of mineral reject generation	Mn-9600 MT (10%-20% Mn) Fe-14677MT	Mn-Nil (+10% to 20%Mn) Fe-NIL	No Mineral reject generated during the course of mining/processing.
3e	Grade of mineral reject generation and threshold value declared	Mn- Mineral reject is 10%-20% Mn & threshold value is 10% of Mn content Fe- Mineral reject is 45-55% Fe & threshold value is 45% of Fe content.	Mn- Threshold value is 10% of Mn content Fe- Threshold value is 45% of Fe content.	

3f	Quantity of sub-grade mineral generation	Mn-9600 MT Fe-14677MT	Mn-Nil Fe-NIL	No Mineral reject generated during the course of mining/processing.																																																																																
3g	Grade of sub-grade mineral generation	10%-20% Mn	10%-20% Mn																																																																																	
3h	Manual / Mechanised method adopted for segregating from ROM	Manual	Manual	Segregation (sorting and picking) of ore from ROM by the help of labours.																																																																																
3i	Any analysis or beneficiation study proposed & carried out for sub-grade mineral and reject	No proposal	NA																																																																																	
3j	Provision of drilling & blasting in mineral benches	Deep Hole drilling was proposed keeping depth 6-9m, spacing up to 2.5m, burden 2m & blasting was proposed and few rock breakers will be used for hard Ore breaking.	As per proposal	Blasting is done using controlled blasting technique. Wet drilling is practiced in the mines using drills equipped with water injection system.																																																																																
3k	Provision of mining machineries in mineral benches	<table border="1"> <thead> <tr> <th>Type of machinery</th> <th>Size</th> <th>No. of units</th> </tr> </thead> <tbody> <tr> <td rowspan="2">Shovel</td> <td>3.2 CuM</td> <td>3</td> </tr> <tr> <td>2.5 CuM</td> <td>3</td> </tr> <tr> <td>Shovel(Mn)</td> <td>2.5 CuM</td> <td>2</td> </tr> <tr> <td rowspan="2">Loaders</td> <td>2.5 CuM</td> <td>3</td> </tr> <tr> <td>1.5 CuM</td> <td>2</td> </tr> <tr> <td rowspan="2">Dumper</td> <td>20 T</td> <td>4</td> </tr> <tr> <td>35 T</td> <td>14</td> </tr> <tr> <td rowspan="2">Drill machine</td> <td>100 mm</td> <td>2</td> </tr> <tr> <td>85 mm</td> <td>3</td> </tr> <tr> <td>Dozer</td> <td>400-440 HP</td> <td>1</td> </tr> <tr> <td>Grader</td> <td>120 HP</td> <td>1</td> </tr> <tr> <td>Rock breaker</td> <td></td> <td>1</td> </tr> <tr> <td>Ambulance</td> <td></td> <td>1</td> </tr> <tr> <td>Water tanker</td> <td>20KL</td> <td>4</td> </tr> <tr> <td>Disesel Browser</td> <td></td> <td>2</td> </tr> <tr> <td>Mobile Maintenance Van</td> <td></td> <td>4</td> </tr> <tr> <td>Crane</td> <td></td> <td>1</td> </tr> <tr> <td>Excavator for quick dispatch system</td> <td>1 CuM</td> <td>3</td> </tr> <tr> <td>Staff bus</td> <td></td> <td>1</td> </tr> </tbody> </table>	Type of machinery	Size	No. of units	Shovel	3.2 CuM	3	2.5 CuM	3	Shovel(Mn)	2.5 CuM	2	Loaders	2.5 CuM	3	1.5 CuM	2	Dumper	20 T	4	35 T	14	Drill machine	100 mm	2	85 mm	3	Dozer	400-440 HP	1	Grader	120 HP	1	Rock breaker		1	Ambulance		1	Water tanker	20KL	4	Disesel Browser		2	Mobile Maintenance Van		4	Crane		1	Excavator for quick dispatch system	1 CuM	3	Staff bus		1	<table border="1"> <thead> <tr> <th>Type of machinery</th> <th>Capacity of each unit</th> <th>No. of units</th> </tr> </thead> <tbody> <tr> <td>Front end Loader</td> <td>3 CuM</td> <td>1</td> </tr> <tr> <td rowspan="4">Back Hoe</td> <td>1.2 CuM</td> <td>1</td> </tr> <tr> <td>2.45 CuM</td> <td>1</td> </tr> <tr> <td>1.70 CuM</td> <td>1</td> </tr> <tr> <td>0.90 CuM</td> <td>1</td> </tr> <tr> <td>Tipper</td> <td>14 CuM</td> <td>6</td> </tr> <tr> <td>Water Tanker</td> <td>10 KL</td> <td>1</td> </tr> <tr> <td>D G Set</td> <td>30 Kwh</td> <td>2</td> </tr> </tbody> </table>	Type of machinery	Capacity of each unit	No. of units	Front end Loader	3 CuM	1	Back Hoe	1.2 CuM	1	2.45 CuM	1	1.70 CuM	1	0.90 CuM	1	Tipper	14 CuM	6	Water Tanker	10 KL	1	D G Set	30 Kwh	2	Less machineries are used due to restriction of EC quantity.
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3l	Whether height of benches in overburden and mineral suitable for method of mining proposed in MP/SOM	It is proposed to keep the bench height up to 6mtr for both Ore & OB benches.	As per proposal																																																													
3m	Total area covered under excavation/pits	27.210 ha	27.210 ha																																																													
3n	Ore to OB ratio for the pit/mine during the year (T/m ³)	2023-24, Mn: 1:2.56 Fe: 1: 0.38	2023-24, Mn: 1: 1.11 Fe: Nil																																																													
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3p	Production of ROM mineral during last six-year period, as applicable 2020-21 2021-22 2022-23 2023-24 2024-25	2020-21 Mn-44964 MT Fe-0.00 MT 2021-22 Mn-44964 MT Fe-0.00 MT 2022-23 Mn-59228 MT Fe-500060 MT 2023-24 Mn-80002 MT Fe-603516 MT	2020-21 Mn-39985 MT Fe-0.00 2021-22 Mn-39550 MT Fe-0.00 2022-23 Mn-39990 MT Fe-0.00 2023-24 Mn-39990 MT Fe-0.00	
3q	General remarks of inspecting officer on method of	Open-cast fully mechanised mining method with Backhoe-Dumper combination, with 6 m high and width up to 8-9m and deep drilling and blasting is being broadly carried as per approved document.		

Solid Waste management-Dumping

S.N.	Item	Proposals for, 2023-24	Actual work during 2023-24	Remark
4a	Separate dumping of topsoil, OB & mineral reject (Rule 33, 37)	No top soil generation is proposed. Separate dumping for OB & mineral reject is proposed in different location.	No top soil and mineral reject generated during mining activity. Overburden dumped in different location in accordance with approve mining plan.	Dumping are being carried out at Dump- 4 (Active)
4b	Location of topsoil, OB & mineral reject dumps	Dump – 4 OB: 2410970 – 2411450 & 308660-308840	Dump – 4 OB : 2410970 – 2411450 & 308660-308840	Dumping are being carried out at Dump- 4 (Active)
4c	Number of dumps within lease area and outside lease area	Within ML:06 Outside ML:00	Within ML:06 Outside ML:00	
4d	Location of dumps w.r.t. ultimate pit limit	Dump-4 is proposed outside the UPL having coordinates from 21 ⁰ 47'28.94"E TO 21 ⁰ 47'44.48" E 85 ⁰ 08'58.89"N TO 85 ⁰ 08'06.24"N	Dump-4 is located outside the UPL having coordinates from 21 ⁰ 47'28.94"E TO 21 ⁰ 47'44.48" E 85 ⁰ 08'58.89"N TO 85 ⁰ 08'06.24"N	
4e	Number of active & alive dumps	1nos.	1nos.	
4f	Number of dead dumps	5 no.	5 no.	

4g	Number of dumps stabilized	5 nos	5 nos	
4h	Whether Retaining wall or garland drain all along dumps are there	Retaining wall and garland drain proposed all along dumps.	Retaining wall and garland drain made all along dumps.	
4i	Length of Retaining wall or garland drain all along dump	Yes	As per proposal	
4j	Number of settling ponds	Nil	Nil	
4k	Specific comments of inspecting officer on waste dump management			

Solid Waste management-Backfilling

S.N.	Item	Proposals for, 2023-24	Actual work during 2023-24	Remark
5a	Status on part or full extraction of mineral from mined out area before starting backfilling	No proposal during the reporting year	Not Applicable	
5b	Area under backfilling of mined out area	No proposal during the reporting year	Not Applicable	
5c	Concurrent use of topsoil for restoration or rehabilitation of mined out area (Rule 36)	No Top Soil Generation during reporting year	Not Applicable	
5d	Total area fully reclaimed & rehabilitated	No proposal during the reporting year	Not Applicable	
5e	General remarks of inspecting officer on backfilling, reclamation etc.			

Progressive Mine Closure Plan

SN.	Item	Proposals for, 2023-24	Actual work during 2023-24	Remark
6a	Whether Annual report on PMCP submitted on time and correctly - Rule	To be submitted by 1st July	Submitted on time	

	26(2).				
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	i) Area available for rehabilitation (ha)	Nil	i) Area available for rehabilitation (ha)	Nil
		ii) Afforestation to be done (ha)	Nil	ii) Afforestation is done (ha)	Nil
		iii) No. of saplings to be planted during the year	Nil	iii) No. of saplings is planted during the year	Nil
		iv) Cumulative no. of plants	Nil	iv) Cumulative no. of plants	Nil
		v) Any other specific method of rehabilitation	Nil	v) Any other specific method of rehabilitation	NA
		vi) Cost incurred on watch & care during the year	Nil	vi) Cost incurred on watch & care during the year	1410
		6c	Compliance on reclamation and rehabilitation by backfilling i) Voids available for backfilling (L X B X D) ii) Void filled by waste/tailings iii) Afforestation on the backfilled area iv) Rehabilitation by making water reservoir v) Any other specific means	i) Void to be available for backfilling (L X B X D)	
ii) Void filled by waste/tailings	Nil			ii) Void filled by waste/tailings	NIL
iii) Afforestation on the backfilled area	Nil			iii) Afforestation on the backfilled area	NIL
iv) Rehabilitation by making water reservoir	Nil			iv) Rehabilitation by making water reservoir	NIL
v) Any other specific means	NA			v) Any other specific means	NIL
6d	Compliance of Rehabilitation of waste land within lease i) Afforestation ii) Area rehabilitated (ha) iii) Method of rehabilitation			i) Afforestation	2000
		ii) Area rehabilitated (ha)	1.00Ha (Safety zone plantation & casual replacement)	ii) Area rehabilitated (ha)	1.00Ha (Safety zone plantation & casual replacement in Dump slope & SZ area)
		iii) Method of rehabilitation	By plantation		

			iii) Method of rehabilitation	By plantation	
6e	Compliance of Environmental monitoring (core zone & buffer zone)	Quarterly Environmental monitoring (core zone & buffer zone) was proposed to be done.	Quarterly Environmental monitoring (core zone & buffer zone) has been done.		
6f	General remarks of inspecting officer on PMCP compliance & progressive closure operations	The lessee has done adequate plantation and is regularly monitoring the Environmental Parameters			

Mineral Conservation

S.N.	Item	Proposals for, 2023-24	Actual work during 2023-24	Remark
7a	ROM Mineral dispatch or grade-wise sorting within lease area	Grade wise sorting and sizing proposed	Grade wise sorting and sizing done.	
7b	Method of grade-wise mineral sorting i.e. manual or mechanical	Manual	As per proposal	
7c	Different grade of mineral sorted out at mines	Mn- 10-25% Mn & 25%-35% Mn and above Fe- 45-55% Fe & +55% Fe	Mn- 10-25% Mn, 25%-35% Mn, 35%-42% Mn & 42%-46% Mn and above Fe-NIL	
7d	Any beneficiation process at mines	Nil	Nil	
7e	General remarks of inspecting officer on Mineral conservation & beneficiation issues	No Beneficiation process carried out. Manual Method of grade-wise mineral sorting was carried out		

Environment

S.N.	Item	Proposals for, 2023-24	Actual work during 2023-24	Remark
8a	Separate removal and utilization of topsoil (Rule 36)	No proposal for Top Soil generation during the reporting year	Not done	
8b	Concurrent use or storage of topsoil	NA	NA	
8c	Separate dumps for overburden, waste rock,	Separate dumps for overburden and mineral reject stacks, waste rocks are	Separate dumps for overburden and mineral reject	

	rejects and fines (Rule 37)	proposed.	stacks, waste rocks are maintained as per approved mining plan.	
8d	Use of overburden, waste rock, rejects and fines dumps for restoring the land to its original use	No such proposal	Not Applicable	
8e	Phased restoration, reclamation and rehabilitation of lands affected by mining operations (Pits, dumps etc.)	No such proposal	Not Applicable	
8f	Baseline information on existence of plantation & additional Plantation done	FY- 2023-24, 2000 no. of plantation has been proposed	01.04.2020-31.03.2023 9450 no. of sapling has been planted. FY- 2023-24, 3300 no. of sapling has been planted.	
8h	Water sprinkling on roads to control airborne dust	Four nos. of water tanker are proposed for dust suppression on haul road. Capacity-20 KL	Two water tanker of 10KL is deployed to control dust on haul road.	
8i	General remarks of inspecting officer on aesthetic beauty in and around mines area	Aesthetic beauty in & around mines area is well maintained. The lessee is implementing the PMCP proposal and has carried out adequate plantation.		

Compliance of Rule 45

S.N.	Item	COMMENTS				Remarks
9a	Status of submission of Monthly and Annual returns	M.R. September'24 Submitted on 09.10.2024 A.R. 2023-24 submitted 29.06.2024				
S.N.	Item	Details given in A.R. for the year 2023-24		Observation of I/Officer	Remarks	
9b	Scrutiny of Annual return for information on Mining Engineer, Geologist and Manager	Chandrakanta Rath, Mine minager	Sunil Kumar Bharti, Mining engineer	Chandrakanta Rath, Mine minager	Sunil Kumar Bharti, Mining engineer	
		Sunil Kumar Sahoo, Geologist		Sunil Kumar Sahoo, Geologist		
9c	Scrutiny of Annual return on land use pattern for area under pits, reclaimed area, dumps etc.	Already exploited & abandoned by opencast(O/C) mining	0.00	Already exploited & abandoned by opencast(O/C) mining	0.00	

		Covered under current working	27.21	Covered under current working	27.21	
		Reclaimed / rehabilitated	0	Reclaimed / rehabilitated	0	
		Used for waste disposal	19.89	Used for waste disposal	19.89	
		Occupied by plant buildings, residential, welfare buildings & roads	14.98	Occupied by plant buildings, residential, welfare buildings & roads	14.98	
		Other purpose(mineral storage)	17.8	Other purpose(mineral storage)	17.8	
		Work done under progressive mine closure plan during this year	0	Work done under progressive mine closure plan during this year	0	
9d	Scrutiny of Annual return on afforestation	3300 nos		Appears to be correct		
9e	Scrutiny of Annual return on mineral reject generation (Grade & quantity)	Nil		Appears to be correct		
9f	Scrutiny of Annual return on ROM stock and/or graded ore	7681.9MT(ROM Mn ore) 8072.385 (-25% Mn) 4316.685MT (25-35% Mn) 39.32MT (35-46% Mn)		Appears to be correct		
9g	Scrutiny of Annual return on sale value, Ex. Mine price & production cost	Ex. Mine price :- (a) Below 25% Mn – 3866.73 MT (b) 25% to below 35%Mn -8615.08MT		Appears to be correct		
9i	Scrutiny of Annual return on fixed assets	Rs 57862600.00		Appears to be correct		

9k	Scrutiny of Annual return on mining machineries	Type of machinery	No. of machinery	Appears to be correct			
		Front End loader	1				
		Back hoe (0.9 cum)	1				
		Back hoe (1.2 cum)	1				
		Back hoe (1.7 cum)	1				
		Back hoe (2.45cum)	1				
		Tipper (14 cum)	6				
		Water Tanker	1				
		DG Set	2				

Date: 19-02-2025

Sujit Kumar Jena
Junior Mining Geologist