MCDR INSPECTION REPORT

General

S. N.	Particulars	Details
1	Name of the Mine	Sanindpur Iron & Bauxite Mines
i	Name of the Mine	Banspani Iron Ore Mines
ii	Date of Inspection	06.11.2024
iii	Name of Inspection officer:	Shri Rajesh Kumar Das, Deputy controller of Mines
iv	Name of official accompanying inspection	Sri A. S. Mahapatra, Agent cum Sr.V.P (Agent),Shri A.K.Choudhary(Mine Manager) & Shri Abhijit Sen, Sr. V.P (Geology).
v	Total Lease Area (Ha) with breakup of non-forest and forest land	Total area: 380.40 Ha Forest Area: 187.753 Ha Non-Forest Area: 192.647 Ha
2	Total Lease Area (Ha) with breakup of Non-forest and forest land	Total Lease Area (Ha)- 147.10 Forest Land(ha)-126.324 Non Forest Land(ha)-20.776
3	Minecode	30ORI13023
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 Pvt.Ltd. Rungta Office, Main Road,Barbil-758035, Dist:-Keonjhar (Odisha) ,Fax:06767-276161
6	Village	Sanindpur
7	Taluka/Mandal	Bonai
8	District	Sundargarh
9	Pincode	770048
10	State	Odisha
11	Post office	Patmunda
12	Nearest police station	Koira
13	Nearest Railway station	Barbil
14	Date of Grant of Mining Lease	19.07.1983
15	Date of Execution	06.09.1985
16	Date of opening of Mine	01.08.1989
17	Date of first Renewal, if applicable and its period & expiry	Not applicable. As per the section 8A (6) of the Mines & Minerals (Development & Regulation) Amendment Act 2015, the validity of the lease period has been extended upto 05.09.2035.
18	Date of second Renewal, if applicable and its period & expiry	NA
19	Date of submission of renewal application if Mining Operations are continuing under deemed extension	NA
20	Name of the Nominated Owner with Address, phone, email, fax number and date of appointment	Sri. Hirak Mazumder Rungta Office, Main Road, Barbil Dist-Keonjhar, Odisha, 758035 Phone No-06767-276161 Fax No-06767-276161 Email-bbloffice@rungtasons.com Date of Appointment – 30.11.2020
21	Name of the Mine Agent with Address, phone, email, fax number and date of appointment	Sri. Anant Sankar Mahapatra Rungta Office, Main Road, Barbil

		Dist-Keonjhar, Odisha, 758035 Phone No-06767-275481/276441 Date of Appointment – 29.04.2016
22	Name of the Mines Manager with Address, phone, email, fax number and date of appointment in mines	Mr.Anil Kumar Choudhary, Mining Engineer, AMIE (Mining), 1st. class manager's certificate of competency in 2005. Date of appointment:10.08.2021
23	Name of the Mining Engineer, Qualification and total experience with Address, phone, email, fax number and date of appointment in mine	Mr. Manoj Kumar Manaw Full time Mining Engineer, B.E (Mining), 1st. class manager certificate of competency in 09.04.2012. 19 years of experience. Date of appointment:01.03.2021 At-Rungta Colony Sanindpur Mobile No-
24	Name of the Geologist, Qualification and total experience with Address, phone, email, fax number and date of appointment in mine	Mr.Dillip Kumar Naik Full time geologist, M.Sc. (Applied Geology). 18 years of experience. Date of appointment:01.11.2015 At-Rungta Colony Sanindpur Mobile No-
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.	The Mining Plan was approved on 14.03.2006 vide IBM Letter No.314(3)/2005-MCCM(CZ)/Fe/MP-28 and it is valid from 2005-06 to 2009-10. Modification of Mining Plan was approved vide letter no.314(3)/2009-MCCM(CZ)/Fe/MP-29 dated 25.02.2010
27	Date of Approval of Scheme of Mining/Modified Scheme of Mining with five-year period and specific condition in approval letter, if any.	The Approval of modification of review of mining plan was approved on 24.08.2022 vide letter No.BBS/SNG/IRON-BXT/2176/MRMP/2023-24/452 No specific condition. Approval of the Modification of Review of Mining Plan along with Progressive Mine Closure Plan (PMCP) was approved on 14.02.2024 vide letter No. No. MCDR-MiFL0FE/45/2023-BBS-IBM_RO_. No specific condition.
28	Mineral(s) granted in lease and proved for mining	Iron Ore(Hematite)
29	Method of Mining(Opencast, Underground)	Opencast
30	Category (Fully Mechanised, Others or Manual)	Fully Mechanized
31	Captive/Non Captive	Non Captive

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	During 2023-24 15 nos of borehole proposed	15 nos of coring boreholes are done during 2023-24.	
1b	Exploration over lease area for Geological axis 1 or 2.	G1-147.10Ha G2-Nil G3-Nil	G1-147.10Ha G2-Nil G3-Nil	
1c	Exploration Agency & Expenditure in lakh Rupees during the year	No specific proposal	M/s Gems project M/s Geo Exploration India(P)Ltd. Total Expenditure-₹ 14485361	
1d	Balance area to be explored to bring Geological axis in 1 or 2	Nil	Nil	
1e	Balance reserves as per latest approved document	As per the annual return the reserve as on 31.03.2024 is 10,74,62,304.36 & remaining resources 2,95,87,721.40 Total Resources are 13,70,50,025.76 MT	As per the annual return the reserve as on 31.03.2024 is10,74,62,304.36 & remaining resources 2,95,87,721.40 Total Resources are13,70,50,025.76 MT	
1f	General remarks of inspecting officer on geology, exploration etc.	The deposit forms a part of pre cambrian sedimentary formation known as the Iron-ore series developed in Singhbhum Keonjhar-Bonai area. The general strike of the formation is NNE SSW and dip towards west and amount varies from 35-40 degree. The lease area broadly explored in G1.		

Development

S.N.	Item	Proposals for, 2023-24	Actual work during 2023-24	Remark
2a	Location of development w.r.t. lease area	N2426232.96 to N2425380.39 and, E324170.92, to E325269.16	N2426232.59 to N2425381.52 and E324191.59, to E325269.16	
2b	Separate benches in topsoil, overburden and mineral (Rule 15)	NA	NA	
2c	Stripping ratio or ore to OB ratio	1:0.148	1:0.128	
2d	Quantity of topsoil generation in m3	NIL	NIL	
2e	Quantity of overburden	1944598	1341891.40	

	generation in m3			
2f	General remarks of inspecting officer on development of pit w.r.t. type of deposit etc	1. The proposed mineral production of ROM 22935000 MT(20850000 MT FROM opencast & 2085000 MT from dump working) in 2023-24 but actual production of ROM reported 9478932.06 MT(9226570.26 MT from opencast & 252362 MT from dump working) which is approximately 41% of total proposal and only 12% from dump working. 2. During mine visit it was observed that that bench parameters are not as per proposal. The benches not developed as per proposal. The maximum height of bench was proposed 9 meter and minimum width 9-12 meter but bench height in many places 12-15 meter and width also less than proposal. The bench height between towards BPI-BP-H in northern direction of lease more than 15 meter. There are many places where undercuts in benches, overhang boulder observed. The mineral also stacked at the edge of the benches.		

EXPLOITATION

N.	Item	Proposals for, 2023-24	Actual work during 2023-24	Remark
3a	Number of pits proposed for production	C-Top Quarry	C-Top Quarry	
3b	Quantity of ROM mineral production proposed	20850000 MT (Open Cast workings) 2085000MT(Dump Working) Total ROM22935000MT	9226570.26 MT (Open Cast workings) 252362 MT(Dump Working) Total ROM 9478932.06 MT	
3c	Recovery of salable/usable mineral from ROM production	20850000 MT (Open Cast workings) 2085000MT(Dump Working) Total ROM22935000MT	9226570.26 MT (Open Cast workings) 252362 MT(Dump Working) Total ROM 9478932.06 MT	
3d	Quantity of mineral reject generation	504000 Tons	Nil	
3e	Grade of mineral reject generation and threshold value declared	45%-58% Fe	45-58% Fe	
3f	Quantity of sub-grade mineral generation	Not specifically mentioned	Nil	
3g	Grade of sub-grade mineral generation	45%-58% Fe	NA	
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	Two sets of wet beneficiation plants of 250tph throughput capacity each (total 500tph capacity) are proposed to install within the ML area.	One set of wet benefication plant of 250 tph has been running. Installation of another set of benefication plant of 250 tph is under	

			process.	
3j	Provision of drilling & blasting in mineral benches	Deep Hole drilling depth 10m, spacing 3 & burden 2.5m & blasting was proposed and rock breakers will be used for breaking of large boulders to avoid secondary blasting.	Controlled blasting technique with depth 10m, spacing 3 m & burden 2.5m has been adopted. The rock breakers have been used for breaking of large boulders to avoid secondary blasting..	
3k	Provision of mining machineries in mineral benches	The width of mineral benches is proposed to keep adequate (minimum 9m) for movement of mining mechnaries.	The width of mineral benches is kept adequate (9-20m) for movement of mining mechnaries.	
3l	Whether height of benches in overburden and mineral suitable for method of mining proposed in MP/SOM	The height of mineral/OB benches are proposed to keep adequate (Maximum 9m) for mining.	The height of mineral/OB benches are kept 9m for mining.	
3m	Total area covered under excavation/pits	60.930 Ha	60.930 Ha	
3n	Ore to OB ratio for the pit/mine during the year	1:0.148	1:0.128	
3o	Total area put in use under different heads at the end of year	138.37 Ha	138.37 Ha	
3p	Production of ROM mineral during last five-year period, as applicable			
	Year- 2019-20	70,00,000 tonne	49,08,982.360 tonne	
	Year- 2020-21	70,00,000 tonne	57,51,318.722 tonne	
	Year- 2021-22	120,00,000 tonne	69,98,567.170 tonne	
	Year-2022-23	100,00,000 tonne	69,91,495.518 tonne	
	Year-2023-24	20850000 tonne	9478932.06 tonne	
3q	General remarks of inspecting officer on method of Mining	The method of mining is opencast, mechanised with shovel-tipper combination using deep hole drilling blasting and broadly working as per proposals.		

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)	Yes	Yes	
4b	Location of topsoil, OB & mineral reject dumps	Location of OB	Location of OB	

		dumps(Dump-D) N2425913.71 To N2426174.45 E323278.26 To E323673.42 Location of mineral reject dumps(Dump-B) N2425575.15 To N2425923.61 E324159.65 To E324535.04 Location of OB dumps(Dump-E) N2426010.30 To N2426232.38 E324954.63 To E325265.79 OB dumping also proposed in C-Top Quarry as Backfilling, RL 652-577 of 67904 m2 area	dumps(Dump-D) N2425919.68 To N2426173.03 E323281.19 To E323664.83 Location of mineral reject dumps(Dump-B) N2425574.53 To N2425908.77 E324161.84 To E324551.51 To Location of OB dumps(Dump-E) N2426230.26 To N2426026.57 E325035.81 To E325264.81 Backfilling not done.	
4c	Number of dumps within lease area and outside lease area	3 nos. dumps (2 nos of existing waste dump (Dump-D) & (Dump-B, which is found partly low grade ore bearing) and another new dump Dump-E is proposed to be done)	3 nos of Dumps (Dump-B Dump-D& Dump-E) are present.	
4d	Location of dumps w.r.t. ultimate pit limit	The dumps were proposed to be done outside the Ultimate pit limit.	The dumps are present outside the Ultimate pit limit.	
4e	Number of active & alive dumps	3 nos (Dump-D , E and Dump-B)	3 nos (Dump-D , E and Dump-B)	
4f	Number of dead dumps	Nill	Nill	
4g	Number of dumps stabilished	Nill	Nill	
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	Construction & repairing ofretaining wall & garland drain was given in 2023-24 for 1610 m & 425 m length respectively	retaining wall & garland drain construction only 380 meter & 350 meter respectively	
4j	Number of settling ponds	Nill	Nill	
4k	Specific comments of inspecting officer on waste dump management	As mentioned above waste dumping in C-top quarry for backfilling not done.		

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	Full extraction	Not done	
5b	Area under backfilling of mined out area	67904 m2	Nil	
5c	Concurrent use of topsoil for restoration or rehabilitation of mined out area (Rule 36)	No Proposal	NA	
5d	Total area fully reclaimed & rehabilitated	No Proposal	NA	
5e	General remarks of inspecting officer on backfilling, reclamation etc	The backfilling not done as per proposal as the area proposed not exhausted fully.		

Progressive Mine Closure Plan

N.	Item	Proposals for, 2023-24	Actual work during 2023-24	Remark
6a	Whether Annual report on PMCP submitted on time and correctly - Rule 26(2).	Yes	Yes	
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	 3.0 Ha 3.0 Ha 10000 233222 No Proposal 10 Lakhs	 3.0 Ha 3.0 Ha 15000 253222 No Proposal 15 Lakhs	
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	No proposal	No work done	
6d	Compliance of Rehabilitation of waste land within lease i) Afforestation ii) Area rehabilitated (ha) iii) Method of rehabilitation	No proposal	No work done	
6e	Compliance of Environmental monitoring (core zone & buffer zone)	Quarterly environmental monitoring	Broadly as per proposal.	
6f	General remarks of inspecting officer on PMCP compliance & progressive closure operations	Broadly as per proposal.		

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	12808000.00 MT(+58% Fe) 252000.00 MT MT (45-58% Fe) 1500000.00 MT (+58% Fe)	**ROM** (a) 45% to below 51% Fe ROM-5.000 MT **CLO:-** (a) Below 62% Fe (CLO any size)-906588.530 MT (b) 62% to below 65%Fe (5-18 mm size CLO)-400840.300 MT (c) 62% to below 65%(10-40 mm size CLO)-229250.714 MT (d) 62% to below 65% Fe (CLO others)-0.000 (e) 65% and above Fe(5-18mm size CLO)-42224.780 MT 65% and above Fe (10-40 mm size CLO)-55894.160 MT **Fines:-** (b) 51% to below 55% Fe-0.000MT (c) 55% to below 58% Fe-2408720.970 MT (d) 58% to below 60% Fe-0.000MT (e) 60% to below 62% Fe 4379407.352MT (f) 62% to below 65% Fe-2485358.652 MT (g) 65% and above Fe	

			63870.010 MT Concentrates:- 328409.920 MT	
7b	Method of grade-wise mineral sorting i.e. manual or mechanical	Mechanical	Mechanical	
7c	Different grade of mineral sorted out at mines	12808000.00 MT(+58% Fe) 252000.00 MT MT (45-58% Fe) 1500000.00 MT (+58% Fe)	**CLO:-** (a) Below 62% Fe (CLO any size) - 68193.981MT (b) 62% to below 65%Fe (5-18 mm size CLO) 280.680MT (c) 62% to below 65%(10-40 mm size CLO)- 184.356MT (d) 65% and above Fe(5-18mm size CLO)- 1087.170MT (e) 65% and above Fe (10-40 mm size CLO)- 38.850MT **Fines:-** (a) 55% to below 58% Fe- 2981.283MT (d) 60% to below 62% Fe- 2.433MT (f) 62% to below 65% Fe- 160.016MT (g) 65% and above Fe- 719.990 MT **Concentrates:-** 21342.980MT	
7d	Any beneficiation process at mines	Yes	Yes	
7e	General remarks of inspecting officer on Mineral conservation & beneficiation issues	The blending of low grade with high grade done to get the desired grade. Wet beneficiation plant within lease area to beneficiate low grade ore..		

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	No work done	
8b	Concurrent use or storage of topsoil	No proposal	No work done	
8c	Separate dumps for	Separate dumps for	Separate dumps	

	overburden, waste rock, rejects and fines (Rule 37)	overburden and low grade stacks are proposed.	for overburden and low grade stacks are present.	
8d	Use of overburden, waste rock, rejects and fines dumps for restoring the land to its original use	There is a proposal for OB to be stacked in dumps which will be utilized for backfilling in future.	The OB are stacked now in dump-D & dump-E, which will be utilized for back filling in future.	
8e	Phased restoration, reclamation and rehabilitation of lands affected by mining operations (Pits, dumps etc)	No Proposal	No work done	
8f	Baseline information on existence of plantation & additional Plantation done	Total 10000 nos of plantation are proposed to be done	Total 15000 nos of plantation has been done	
8h	Water sprinkling on roads to control airborne dust	Six nos of water tanker are proposed for dust suppression on haul road. Capacity-12 & 18 KL	3.2 km length of fixed water sprinklers and Nine nos of water tanker of 12 KL Two nos of water tanker of 18 KL has been deployed to control dust on haul road.	
8i	General remarks of inspecting officer on aesthetic beauty in and around mines area	During mine visit no adverse impact on aesthetic beauty within lease observed		

Compliance of Rule 45

S.N.	Item	COMMENTS		Remarks
9a	Status of submission of Monthly and Annual returns	M.R. Submitted upto September-2023 A.R. Submitted upto 2023-24		
S.N.	Item	Details given in A.R. for the year 2023-24		Remarks
9b	Scrutiny of Annual return for information on Mining Engineer, Geologist and Manager	Mr Anil Kumar Choudhury (Mines Manager) Mr.Manoj Kumar Manaw (Mining engineer) Mr Dillip Kumar Naik (Geologist)		
9c	Scrutiny of Annual return on land use pattern for area under pits, reclaimed area, dumps etc.	Area Covered under current Mining Activity -60.93 Top Soil Preservation- 0.1400		

		OB / waste dump-13.0700 Mineral Storage, Mineral beneficiation plan, Tailing Pond -29 ha. Infrastructure (Workshop, administrative building etc.), Roads, Township - 24.31 ha.		
9d	Scrutiny of Annual return on afforestation	15000 nos. of plantation reported.		
9e	Scrutiny of Annual return on mineral reject generation (Grade & quantity)	Nil		
9f	Scrutiny of Annual return on ROM stock and/or graded ore	214749.143	214749.143	
9g	Scrutiny of Annual return on sale value, Ex. Mine price & production cost	Ex. Mine price :- **CLO:-** (a) Below 62% Fe (CLO any size) 4861.96 ₹-Tonne (b) 62% to below 65%Fe (5-18 mm size CLO) 6039.53 ₹-Tonne (c) 62% to below 65%(10-40 mm size CLO) 6024.89 ₹-Tonne (d) 65% and above Fe(5-18mm size CLO)- 6210.56 ₹-Tonne (e)65% and above Fe (10-40 mm size CLO) 6046.87 ₹-Tonne **Fines:-** (b) 51% to below 55% Fe -0.00 ₹-Tonne (c) 55% to below 58% Fe -4591.92 ₹-Tonne (d) 58% to below 60% Fe -0.00 ₹-Tonne (e) 60% to below 62% Fe - 3668.49 ₹-Tonne (f) 62% to below 65% Fe 4300.15 ₹-Tonne (g) 65% and above Fe 4412.69 ₹-Tonne **Concentrate**		

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3391.31 ₹-Tonne
Production Cost:-
Total
1391.03</td><td></td><td></td></tr>
<tr><td>9i</td><td>Scrutiny of Annual return on fixed assets</td><td>₹ 1791296583</td><td>₹ 1791296583</td><td></td></tr>
<tr><td>9k</td><td>Scrutiny of Annual return on mining machineries</td><td>
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<tr><td>Type of machinery</td><td>No. of machinery</td></tr>
<tr><td>Excavator</td><td>39</td></tr>
<tr><td>Hyd.Excav. with Rock Breaker</td><td>6</td></tr>
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<tr><td>Geneartor</td><td>3</td></tr>
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During present inspection violations under Rule 11(1) & 45(5)© found violated and accordingly violations letter pointed out.

Signed by Rajesh Kumar Das
Date: 07-03-2025 14:18:26