

MCDR INSPECTION REPORT

General:

Sl .No.	Particulars	Details
1	Name of the Mine	Boria Tibbu Iron Ore Mine
2	Date of Inspection:	04.06.2022
3	Name of Inspecting Officer	Shri Dayanand Upadhyay, Sr. ACOM
4	Name of official accompanying inspection	-
5	Last date of Inspection & Officer	Shri Rajesh Das, Sr. ACOM
6	Total Lease Area (Ha) with breakup of Non-forest and forest land	Total Lease Area : 110.00 Ha Forest Land : 110 Ha Non Forest Land : Nil
7	Mine code	30CHG15002
8	IBM Registration Number under rule 45 of MCDR, 1988/2017	IBM/4243/2011
9	Name of the Lease, Address, Phone, email and fax number	Boria Tibbu Iron Ore Mine Village: Boria, Taluka: Manpur State: Chhattisgarh FAX : 0771-4082709, 4082765 Email id vinod.pillai@hiragroup.com
10	Village	Boria
11	Taluka/Mandal	Manpur
12	District	Rajnandgaon
13	Pin code	491229
14	State	Chhattisgarh
15	Post Office	Khadgaon
16	Nearest Police Station	Khadgaon
17	Nearest Railway Station	Dalli- Rajhara
18	Date of Grant of Mining Lease	15.03.2010
19	Date of Execution	15.03.2010 (Lease deed execution)
20	Weekly day of rest	Sunday
21	Date of opening of Mine	01.04.2014
22	Date of First Renewal, if applicable and its period & expiry	Not applicable
23	Date of Second Renewal, if applicable and its period & expiry	Not applicable
24	Date of submission of renewal application if Mining Operations are continuing under deemed extension	Not applicable
25	Name of the Nominated Owner with Address, phone, email, fax number and date of appointment	Mr Vinod Pillai B-7 Sahni Vihar, Raipur Phone -0771-4082706, fax – 0771-4057601 Email id vinod.pillai@hiragroup.com Appointment date 28.07.2009

Sl .No.	Particulars	Details
26	Name of the Mine Agent with Address, phone, email, fax number and date of appointment	Mr Gangaram Verma Capital city phase 1 Saddu Raipur Phone No 07714082765 Email id : grverma.gpil@gmail.com gangaram.verma@hiragroup.com Date of Appointment Appointment date 11.09.2019
27	Name of the Mine Manager with Address, phone, email, fax number and date of appointment in mines	Mr H Upate Boria Tibbu Iron Ore Mines Village:Boria, Taluka: Manpur State: Chhattisgarh Date of Appointment : 01.05.2015
28	Name of the Mining Engineer, Qualification and total experience with address, phone, email, fax number and date of appointment in the mine	Mr H Upate Boria Tibbu Iron Ore Mines Village:Boria, Taluka: Manpur State: Chhattisgarh Date of Appointment : 01.05.2015
29	Whether Geologist and Mining Engineer appointment in mines satisfy the rule 42 & carrying out their duties as per rule 43 & 44.	Mr Kanwaljit Singh Dhaliwal (Geologist) Boria Tibbu Iron Ore Mines Village:Boria, Taluka: Manpur State: Chhattisgarh Date of Appointment : 16.04.2012
30	Date of Approval of Mine Plan/Modified Mine Plan with five- year period and specific condition in approval letter, if any.	19.03.2020 No specific Condition was imposed in approval letter
31	Date of Approval of Scheme of Mining/Modified Scheme of Mining with five- year period and specific condition in approval letter, if any.	19.03.2020 No specific Condition was imposed in approval letter
32	Mineral(s) granted in lease and approved for Mining	Iron Ore
33	Method of Mining (Opencast, Underground)	Open cast
34	Category (Fully Mechanized, Others or Manual)	Fully Mechanised
35	Captive/Non-Captive	Captive
36	Present EC Status	EC Granted for 0.705 MTPA Iron Ore Production
37	Status of Financial Assurance	Bank guarantee of Rs. 24022800 was submitted @ Rs. 3.0 Lakh per hectare as Financial Assurance against net area of 80.076 hectare considered for Financial Assurance Calculation alongwith Review of Mining Plan. Subsequently after amendment in MCDR 2017, additional Bank guarantee of differential amount

Sl .No.	Particulars	Details
		<p>of Financial Assurance i.e. Rs. 16015200/- (Rs. One Crore Sixty Lakh Fifteen Thousand Two Hundred Only), as per the provision of the Mineral Conservation and Development (Amendment) Rule, 2021 in respect of Boria Tibbu Iron Ore Mines</p> <p>Details of Additional BG are as follows. Bank Guarantee No. :0853622BG0000025 Date of Issue :27.01.2022 Guarantee Amount :Rs. 16015200/- (Rs. One Crore Sixty Lakh Fifteen Thousand Two Hundred Only) Date of Expiry :31.03.2025 Date of Claim :31.03.2026</p>

Scientific Mining: Compliance of proposals of approved Mining Plan/Review of Mining Plan:

1.0 Exploration:

S.N.	Item	Proposals (2020-21)	Actual Work (2020-21)	Remarks
1a	Backlog of previous year	2020-21 : 8 no. of Bore hole 2021-22 : 12 no. of Bore hole	Nil	Exploration as proposed is not carried out. Violation is issued to the lessee on 28/06/2022
1b	Exploration over lease area for Geological axis 1 or 2.	G1 level	Nil	
1c	Exploration Agency & Expenditure in Lakh Rupees during the year	Not specified	Nil	--do--
1d	Balance area to be explored to bring Geological axis in 1 or 2.	35.32ha	Nil	--do--
1e	Balance reserves as on 01.04.2021	59.0 Mt	59.0 Mt	Balance reserves as on 01.04.2021 is 59.0 Mt
1f	General remarks of Inspecting officer on geology, exploration etc.	Exploration as proposed is not carried out. Violation is issued to the lessee on 28/06/2022 in reference to non-compliance of exploration proposal.		

2.0 Development:

S.N.	Item	Proposals (2020-21)	Actual Work (2020-21)	Remarks
2a	Location of Development w.r.t.	Development Forest	Nil	No

	lease area	Compartment 535		development & production is carried out in 2020-21. Violation is pointed out in this regard on 28/06/2022
2b	Separate benches in topsoil overburden and mineral (Rule 15)	Yes	Work not done	
2c	Stripping ratio or ore to OB ratio	1:0.75	Work not done	
2d	Quantity of topsoil generation in m ³	Not proposed	Nil	
2e	Quantity of overburden generation in m ³	0.086 (million cum)	Nil	
2f	General remarks of Inspecting officer on development of pit w.r.t type of deposit etc.	No development & production is carried. Violation is pointed out in this regard on 28/06/2022		

3.0 Exploitation:

S.N	Item	Proposals (2020-21)	Actual Work (2020-21)	Remarks
3a	Number of pits proposed for production	1	Nil	No development & production is carried in 2020-21. Violation is pointed out in this regard on 28/06/2022
3b	Quantity of ROM mineral production proposed (2021-22)	0.325 Million Tonnes	Nil	--do--
3c	Recovery of Salable/usable mineral from ROM production	0.05 Million Tonnes	Nil	--do--
3d	Quantity of mineral reject generation	0.274 Million Tonnes	Nil	--do--
3e	Grade of mineral reject generation and threshold value declared	+45%fe for hematite ore & +15%fe for Magnetite ore	Nil	--do--
3f	Quantity of sub-grade mineral generation	0.274 Million Tonnes	Nil	--do--
3g	Grade of sub-grade mineral generation	+45%fe for hematite ore & +15%fe for Magnetite ore	Nil	--do--
3h	Manual/Mechanized method adopted for segregation from ROM	Mechanized	Work not done	--do--
3i	Any analysis or beneficiation study	Yes	Yes	Pilot Scale BMQ

S.N .	Item	Proposals (2020-21)	Actual Work (2020-21)	Remarks																																																				
	proposed & carried out for sub-grade mineral and reject			Beneficiation Testing has been carried out by IMMT Bhubaneswar																																																				
3j	Provision of drilling & blasting in mineral benches	Separate Drilling by 115 mm dia drills in Ore and OB Benches	Work not done	No development & production is carried. Violation is pointed out in this regard on 28/06/2022																																																				
3k	Provision of mining machineries in mineral benches	Deployment of 1.8 -3.5 cu.m excavators with 25-31 t capacity tippers	Work not done	--do--																																																				
3l	Whether height of benches in overburden and mineral suitable for method of mining proposed in MP/SOM	Yes	Work not done	--do--																																																				
3m	Total area covered under excavation /pits	16.971 During plan period	Work not done	--do--																																																				
3n	Ore to OB ratio for the pit/mine during the year			--do--																																																				
3o	Total area put in use under different heads at the end of year	Total area put in use under different heads at the end of year is given below.																																																						
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S.N	Item	Proposals (2020-21)	Actual Work (2020-21)	Remarks										
3p	Production of ROM mineral during last five-years period, as Applicable	<table border="1"> <thead> <tr> <th>Financial Year</th> <th>Production, Mt</th> </tr> </thead> <tbody> <tr> <td>2017-18</td> <td>0.405</td> </tr> <tr> <td>2018-19</td> <td>0.3871</td> </tr> <tr> <td>2019-20</td> <td>0.4929</td> </tr> <tr> <td>2020-21</td> <td>Nil</td> </tr> </tbody> </table>		Financial Year	Production, Mt	2017-18	0.405	2018-19	0.3871	2019-20	0.4929	2020-21	Nil	
		Financial Year	Production, Mt											
		2017-18	0.405											
		2018-19	0.3871											
		2019-20	0.4929											
2020-21	Nil													
3q	General remarks of inspecting officer on method of mining etc	No development & production is carried. Violation is pointed out in this regard on 28/06/2022												

4.0 Solid Waste Management-Dumping:

S.N.	Item	Proposals (2020-21)	Actual Work (2020-21)	Remarks
4a	Separate dumping of topsoil, OB & mineral reject (Rule 32,33)	Yes	Yes	
4b	Location of topsoil, OB & mineral reject dumps	OB Dumps 1. Dump 1 492204E to 492590E & 2262710N to 2263180N OB Dumps 1. Dump 2 491800E to 492650E & 226200N to 2263250N	Work not done	No development & production is carried in 2020-21. Violation is pointed out in this regard on 28/06/2022
4c	Number of Dumps within lease area and outside lease area	5 nos. of dumps are located within the lease	5 nos. of dumps are located within the lease	5 nos. of dumps are located within the lease
4d	Location of Dumps w.r.t. ultimate pit limit (Rule 16)	Located Outside the UPL	Located Outside the UPL	Located Outside the UPL
4e	Number of Active & Alive dumps	2	2	Active
4f	Number of dead dumps	3	3	dead dumps Partial Stabilized
4g	Number of dumps Stabilised	Partial Stabilisation of Inactive Terraces of dumps	Partial Stabilisation of Inactive Terraces of dumps	Partial Stabilisation of Inactive Terraces of dumps
4h	Whether Retaining wall or garland drain all along dumps are there	Yes	Yes	

S.N.	Item	Proposals (2020-21)	Actual Work (2020-21)	Remarks
4i	Length of Retaining wall or garland drain all along dump	Garland Drain 285 m x 1.5m x1 m Boulder Bund : 310 m x 1.5 m x1.2 m	Garland Drain 285 m x 1.5m x1 m Boulder Bund : 310 m x 1.5 m x1.2 m	Retaining wall & garland drain along dump constructed.
4j	Number of settling ponds	1	1	
4k	Specific comments of inspecting officer on waste dump management	Separate dumping of topsoil, OB are maintained. Retaining wall and garland drain are maintained along the dump.		

5.0 Solid Waste Management-Backfilling:

S.N.	Item	Proposals (2020-21)	Actual Work (2020-21)	Remarks
5a	Status on part or full extraction of mineral from mined out area before starting backfilling	No proposal of Backfilling	Nil	Area is not matured for reclamation and rehabilitation.
5b	Area under backfilling of mined out area	No proposal of Backfilling	Nil	--do--
5c	Concurrent use of topsoil for restoration or rehabilitation of mined out area (Rule 32)	Not proposed	Nil	--do--
5d	Total area fully reclaimed & rehabilitated	Not proposed	Nil	--do--
5e	General remarks of inspecting officer on backfilling, reclamation etc	Area is not matured for reclamation and rehabilitation.		

6.0 Progressive Mine Closer Plan:

S.N.	Item	Proposals (2020-21)	Actual Work (2020-21)	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	Yes	Annual report on PMCP submitted
6b	Management of worked/mined out benches			
	i) Area available for rehabilitation (Ha)	Not proposed.	Not Applicable	Area is not matured for reclamation and rehabilitation.
	ii) Afforestation done (ha)	3.23 ha	1.75 ha	Violation is pointed out in this regard on 28/06/2022

S.N	Item	Proposals (2020-21)	Actual Work (2020-21)	Remarks
	iii) No.of saplings planted during the year	8075no.	4200no.	--do--
	iv) Cumulative no. of plants	Not specified	26100no.	
	v) Any other specific method of rehabilitation	Not proposed.	Not Applicable	
	vi) Cost incurred on watch & care during the year	5.0Lakh	5.25 lakh	5.25 lakh Cost incurred on watch & care
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 backfilling iv) Rehabilitation by making water reservoir v) Any other specific means	Not proposed.	Not Applicable	Area is not matured for reclamation and rehabilitation.
6d	Compliance of Rehabilitation of waste land within lease i) Afforestation ii) Area rehabilitation iii) Method of rehabilitation	5000 no. of plantation	5000 no. of plantation	Waste land of safety zone covers with plantation.
6e	Compliance of Environment monitoring (core zone & buffer zone)	Monthly Monitoring of Air, Water and Noise Quality	Monthly Monitoring of Air Water and Noise Quality is being done at mines	
6f	General remarks of inspecting officer on PMCP compliance & progressive closer operations	Area is not matured for reclamation and rehabilitation.		

7.0 Mineral Conservation:

S.N.	Item	Proposals (2020-21)	Actual Work (2020-21)	Remarks
7a	ROM mineral dispatch or grade wise sorting within lease area	Grade-wise Sorting within the lease	Grade-wise Sorting within the lease	
7b	Method of grade-wise mineral sorting i.e. manual or mechanical	Mechanical/Manual	Mechanical/Manual	
7c	Different grade of mineral sort out at mine	+45%fe for hematite ore &	+45%fe for hematite ore &	

		+15%fe for Magnetite ore	+15%fe for Magnetite ore	
7d	Any beneficiation process at mines	No	No	
7e	General remarks of inspecting officer on Mineral conservation & beneficiation issues	Grade wise sorting is being practiced by crushing and screening.		

8.0 Environment:

S.N.	Item	Proposals (2020-21)	Actual Work (2020-21)	Remarks
8a	Separate removal and utilization of topsoil (Rule32)	Not proposed	Nil	No topsoil is generated during the period
8b	Concurrent use or storage of topsoil	Not proposed	Nil	
8c	Separate dumps for overburden waste rock, rejects and fines (Rule 33)	Yes	Separate dumps for OB, Subgrade mineral and fines have been maintained	OB, Low grade materials, BMQ etc. are being stacked separately
8d	Use of overburden, waste rock, rejects and fines dumps for restoring the land to its original use	Not proposed	Nil	Area is not matured for reclamation and rehabilitation.
8e	Phased restoration, reclamation and rehabilitation of lands affected by mining operations (Pits, dumps etc)	Not proposed	Nil	Area is not matured for reclamation and rehabilitation.
8f	Baseline information on existence of plantation & additional plantation done (Rule 41)	8075no.of plantation	Cumulative as on date total 26100 no. of saplings planted.	Cumulative as on date total 26100 no. of saplings planted.
8g	Survival rate	Not pecified	80%	
8h	Water sprinkling on roads to control airborne dust	Yes	Yes	Provisin made for Water sprinkling by tanker.
8i	General remarks of inspecting officer on aesthetic beauty in and around mine area	Aesthetic beauty beauty in and around mines area is maintained by plantation.		

9.0 Compliance of Rule 45:

S N	Item	Comments		Remarks
9a	Status of submission of monthly and Annual returns	AR & MR submitted regularly.		AR & MR submitted regularly.
S N	Item	Details Given in A.R.	Observation of I/Officer	

9b	Scrutiny of Annual return for information on Mining Engineer, Geologist and Manager	Mining engineer, geologist employment is furnished	Mining engineer, geologist are employed in the mine.	Mining engineer, geologist are employed in the mine.
9c	Scrutiny of Annual return on land use pattern for area under pits, reclaimed area, dumps etc.	Land use pattern for area under pits, dumps etc. furnished.	Found in order	Found in order
9d	Scrutiny of Annual return on afforestation	4200 no of saplings	4200 no of saplings	4200 no of saplings
9e	Scrutiny of Annual return on mineral reject generation (Grade & Quantity)	Nil	Nil	Nil
9f	Scrutiny of Annual return on ROM stock and/or grade ore	ROM closing stock(hematite ore): 71530.85T	ROM closing stock(hematite ore): 71530.85T	ROM closing stock(hematite ore): 71530.85T
9g	Scrutiny of Annual return on sale value, Ex. Mine price & production costs	Fines Below 55% fe: Rs 2694/-	Fines Below 55% fe: Rs 2694/-	Fines Below 55% fe: Rs 2694/-
9i	Scrutiny of Annual return on Fixed assets	Fixed assets Rs 589353/-	Fixed assets Rs 589353/-	Fixed assets Rs 589353/-
9k	Scrutiny of Annual return on mining Machineries	Machineries furnished in AR.	Found in order	Found in order

10- Details of violations observed during inspection and the compliance status.

Violation of Rule 11(1) and 14(2) were issued to lessee on 28/06/2022.

Date: 01/07/2022

Signature:

Name: (D.Upadhyay)

Designation: Sr. ACOM