MCDR INSPECTION REPORT

General

S.N.	Particulars	Details
1	Name of the Mine Date of Inspection: Name of Inspecting Officer & Accompanying person	Boria Tibbu Iron Ore Mine of M/S Godawari Power & Ispat Ltd,03.02.2020, Shri R K Das & Shri Gangaram Verma(Agent Mine),Inspection for processing Review of Mining Plan
2	Total Lease Area (Ha) with breakup of Non-forest and forest land	110.00 Ha
3	Mine code	30CHG15002
4	IBM Registration Number under rule 45 of MCDR,1988	IBM/4243/2011
5	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
6	Village	Boria
7	Taluka/Mandal	Mohla
8	District	Rajnandgaon
9	Pincode	491229
10	State	Chhattisgarh
11	Post Office	Khadgaon
12	Nearest Police Station	Khadgaon
13	Nearest Railway Station	Dalli
14	Date of Grant of Mining Lease	15.03.2010
15	Date of Execution	15.03.2010
16	Date of opening of Mine	01.04.2014
17	Date of First Renewal, if applicable and its period & expiry	As per lease deed lease is for 20 years from 15.03.2010 but as per amendment in MMDR Act, 2015 lease will be upto 14.03.2060 but supplementary lease deed still not done.
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	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
21	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 gangaram.verma@hiragroup.com Appointment date 11.09.2019
22	Name of the Mine Manager with Address, phone, email, fax number and date of appointment in mines	Mr H R Upate, C/O Boria Tibbu Iron Ore Mine Village:Boria, Taluka: Manpur State: Chhattisgarh FAX: 0771-4082709, 4082765 Email id vinod.pillai@hiragroup.com Date of appointment 01.05.2015

S.N.	Particulars	Details
23	Name of the Mining Engineer, Qualification and total	Mr H R Upate, C/O Boria Tibbu Iron Ore Mine
	experience with address, phone, email, fax number and date	Village:Boria, Taluka: Manpur
	of appointment in the mine	State: Chhattisgarh
		FAX: 0771-4082709, 4082765
		Email id vinod.pillai@hiragroup.com
		Date of appointment 01.05.2015
24	Whether Geologist and Mining Engineer appointment in	Mr Kanwaljit Singh Dhaliwal (Geologist)
	mines satisfy the rule 42 & carrying out their duties as per	
	rule 43 & 44.	
25	Date of Approval of Mine Plan/Modified Mine Plan with	24.05.2006
	five- year period and specific condition in approval letter, if	
26	any.	22.02.2017
26	Date of Approval of Scheme of Mining/Modified Scheme of	23.03.2016
	Mining with five- year period and specific condition in approval letter, if any.	
27	Mineral(s) granted in lease and approved for Mining	Iron Ore
21	(76	non ore
28	Method of Mining (Opencast, Underground)	Open cast
29	Category (Fully Mechanised, Others or Manual)	Fully Mechanised
30	Captive/Non-Captive	Captive

Exploration

S.N.	Item	Proposals	Actual Work	Remarks	
1a	Backlog of previous year	13	19		
1b	Exploration over lease area for Geological axis 1 or 2.	15	15		
1c	Exploration Agency & Expenditure in Lakh Rupees during the year	Rs. 45 Lakh	Kartikay Exploration & Mining Services (P) Limited Rs. 120 Lakh		
1d	Balance area to be explored to bring Geological axis in 1 or 2.	-	35.32		
1e	Balance reserves as on 01.04.2019	3.82 Mt (Excl. BMQ)	87.812 Mt (Incl. 80.553 Mt of BMQ Reserve/Resources)	Due to additional exploration and change in threshold value for Magnetite, Reserve/Resource has increased	
1f	General remarks of Inspecting officer on geology, exploration etc.	The rocks belongs to the Bailadila group of rocks comprising BMQ, BHQ, Quartzite, Hematite, Magnetite, Lateritic ore, Limonitic soil and BHJ. Strike of the deposit varies fromN100 to N135 degree and dip 50-80 degree. Totatal 67 nos core bore holes reported in lease area and broadly mineralized area cover under G1 & G2.			

Development

S.N.	Item	Proposals	Actual Work	Remarks	
2a	Location of Development w.r.t. lease	Forest Compartment 535	Forest Compartment		
	area	and 536	535 and 536		
2b	Separate benches in topsoil overburden	Yes	Yes		
	and mineral (Rule 15)				
2c	Stripping ratio or ore to OB ratio	1:0.15	1:3.29		
2d	Quantity of topsoil generation in m ³	NIL	Nil		
2e	Quantity of overburden generation in m ³	77190 (cum)	3594452 (tonnes)		
2f	General remarks of Inspecting officer on	The development is more than proposal and huge OB dump as			
	development of pit w.r.t type of deposit	reported and BMQ. The future proposals for 20 core bore holes			
	etc.	were proposed in 2021-22 & 2	022-23		

Exploitation

S.N.	Item	Proposals	Actual V	Vork	Remarks
3a	Number of pits proposed for production	5	5	, 0111	11011111111111
3b	Quantity of ROM mineral production proposed (2018-19)	498855	387104	1.08	
3c	Recovery of Salable/usable mineral from ROM production	85%	85%)	
3d	Quantity of mineral reject generation	Nil	Nil		
3e	Grade of mineral reject generation and threshold value declared	Nil	Nil		
3f	Quantity of sub-grade mineral generation	Nil	Nil		
3g	Grade of sub-grade mineral generation	Nil	Nil		
3h	Manual/Mechanized method adopted for segregation from ROM	Nil	Nil		
3i	Any analysis or beneficiation study proposed & carried out for sub-grade mineral and reject	Nil	study and pi beneficiation	test of Magnetite BMQ) is gress at IT Lab,	
3j	Provision of drilling & blasting in mineral benches	Deep hole drilling by 110 mm dia Drill at 2.7 m burden & 2.8 m spacing, 83 mm cartridge slurry explosives for blasting	Deep hole drilling by 115 mm dia Drill at 2.5 to 3 m burden & 3 to 3.5 m spacing, 83 mm cartridge slurry explosives for blasting		NONEL is being used for initiation to reduce air overpressure and improve fragmentation
3k	Provision of mining machineries in mineral benches	Excavators: 1.0 – 3.5 cu. M Tippers: 20t Drill: 110 mm Dozer , Grader, Water Tankers	Excavators: 1.8 – 3.5 cu. M Tippers: 25t/30t Drill: 115 mm Dozer, Grader, Water Tankers, Rock breakers, wheel loaders etc		
31	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	14.52 Ha	15.491	На	
3n	Ore to OB ratio for the pit/mine during the year	1:0.15	1:3.2		
30	Total area put in use under different heads at the end of year		_		
		Type of land use	Area Put into Use as per Approve d Plan	Existin g Area put into use	
		Area of excavation	14.52	15.491	
		Storage for top-soil	-	-	
		Overburden dump	4.15	35.017	
		Mineral storage	-	1.156	

S.N.	Item	Propos	sals	Actual \	Work	Remarks
		Infrastructu Rest sh pumping st	elter &	0.12	1.901	
		Roads		4.86	5.449	
		Railways		-	-	
		Tailing pon	ıd		-	
		Effluent plant	treatment		-	
		Mineral plant	separation		0.645	
		Township a	irea		-	
		Sub-grade s	storage		-	
		Sub Total		23.65	59.66	
		Undisturbe	d Area	86.35	50.34	
		Total Leas	e Area	110	110	
3p	Production of ROM mineral during last five-					
	years period, as Applicable	Year	ROM Production, Tonnes			
		Tear	Proposal	Ac	tual	
		2014-15	-	7107	78.00	
		2015-16	297185	201	.059	
		2016-17	377020	212	2837	
		2017-18	465500	401	363	
		2018-19	498855	389	0656	
3q	General remarks of inspecting officer on method of mining etc	The method	of mining is b	proadly as p	er propos	al.

Solid Waste Management-Dumping

~ 7.7				
S.N.	Item	Proposals	Actual Work	Remarks
4a	Separate dumping of topsoil, OB & mineral	Yes	Separate dumps for	
	reject (Rule 32,33)		OB, Subgrade	OB, Low grade
			mineral and fines	materials, BMQ etc.
			have been	are being stacked
			maintained. Top soil	separately
			generation is nil.	1
4b	Location of topsoil, OB & mineral reject	Block A	Block A	1. Higher stripping
	dumps	Western Part of	Western Part of the	ratio than
		the Quarry	Quarry	proposal in
		Block B	Block B	Modified Mining
		NW boundary	NW boundary of hill	Plan.
		of hill slope	slope	2. Separate stacking
				of Banded
			BMQ dumping in 10	Magnetite
			Ha quarry area of	Quartzite for
			Forest Compartment	Mineral
			536	Conservation
			Temporary waste	
			dumping near ML	
			boundary pillar no.	
			D of FC 535	
4c	Number of Dumps within lease area and	4	4	
	outside lease area			
4d	Location of Dumps w.r.t. ultimate pit limit	Located outside	Located outside the	
	(Rule 16)	the ultimate pit	ultimate pit limit of	
		limit	last approved mining	
			plan	

S.N.	Item	Proposals	Actual Work	Remarks	
4e	Number of Active & Alive dumps	-	2		
4f	Number of dead dumps	-	2		
4g	Number of dumps Stabilised	-	1 under stabilization		
			by plantation		
4h	Whether Retaining wall or garland drain all	Yes	Yes		
	along dumps are there				
4i	Length of Retaining wall or garland drain all	-	1768 m od boulder		
	along dump		crater wall/bunds		
4j	Number of settling ponds	Nil	Nil		
4k	Specific commends of inspecting officer on			is more than proposal	
	waste dump management	therefore the protective measures is incorporated in Review of			
		Mining Plan			

Solid Waste Management-Backfilling

S.N.	Item	Proposals	Actual Work	Remarks
5a	Status on part or full extraction of mineral from	-	Area not matured for	
	mined out area before starting backfilling		backfilling	
5b	Area under backfilling of mined out area	-	-	
5c	Concurrent use of topsoil for restoration or	Top soil	Top soil generation is	
	rehabilitation of mined out area (Rule 32)	generation is Nil	Nil	
5d	Total area fully reclaimed & rehabilitated	Nil	Nil	
5e	General remarks of inspecting officer on	Nil		
	backfilling, reclamation etc			

Progressive Mine Closer Plan

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	Yes	
6b	Management of worked/mined out benches			
	i) Area available for rehabilitation (Ha)	-	-	
	ii) Afforestation done (ha)	0.857	0.857	
	iii) No.of saplings planted during the year	2143	2143	
	iv) Cumulative no. of plants	-	28600	
	v) Any other specific method of rehabilitation	-	-	
	vi) Cost incurred on watch & care during the year	Rs. 6.45 Lakh	Rs. 6.45 Lakh	
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	NA	NA	
6d	Compliance of Rehabilitation of waste land	NA	NA	
	within lease i) Afforestation	5000	5000	

	ii) Area rehabilitation	2	2	
	iii) Method of rehabilitation	Plantation	Plantation	
6e	Compliance of Environment monitoring (core zone & buffer zone)	Complied	Complied	Monthly monitoring of Air, water, noise quality is being carried out by third party i.e. M/s ANACON Lab
6f	General remarks of inspecting officer on PMCP compliance & progressive closer operations	Broadly Com	plied	

Mineral Conservation

S.N.	Item	Proposals	Actual Work	Remarks	
7a	ROM mineral dispatch or grade wise sorting	-	Sorting of BHQ &	Screening of	
	within lease area		Ore is carried out	fines from BHQ	
			within lease	is carried out by	
				using power	
				screens	
7b	Method of grade-wise mineral sorting	-	Manual sorting is	Screening of	
	i.e. manual or mechanical		carried out for	fines from BHQ	
			separation of BHQ	is carried out by	
			with Ore	using power	
				screens	
7c	Different grade of mineral sort out at mine		Average grade of Ore		
			is below 55%.		
7d	Any beneficiation process at mines	Nil	NA. Only crushing &		
			Screening is carried		
			out at Mines		
7e	General remarks of inspecting officer on		ial is used by blending a		
	Mineral conservation & beneficiation issues	large quantity of BMQ is produce and also occurs in deposit			
		therefore proposal is there to setup beneficiation plant to			
		recover ore from BMQ. Ore characterization study and pilot			
			on test of Banded M		
		(BMQ) is under p	rogress at CSIR IMMT L	Lab, Bhubaneswar	

Environment

S.N.	Item	Proposals	Actual Work	Remarks	
8a	Separate removal and utilization of topsoil (Rule32)	Nil	Nil	No topsoil is generated during	
8b	Concurrent use or storage of topsoil	Nil	Nil	the period	
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	NA	NA	Bottom of ore couldn't be reached as the orebody continues upto 286 mRL	
8e	Phased restoration, reclamation and rehabilitation of lands affected by mining operations (Pits, dumps etc)	Nil	Nil	Bottom of ore couldn't be reached as the ore body continues upto 286 mRL	
8f	Baseline information on existence of plantation & additional plantation done (Rule 41)	No. of Plants : 625 Area : 0.25 Ha	No. of Plants : 5000 Area : 2.02 Ha		
8g	Survival rate	-	80%		

8h	Water sprinkling on roads to control airborne dust	Yes	Yes	
8i	General remarks of inspecting officer on aesthetic beauty in and around mine area	During mine	mine visit no such adverse impact observed.	

Compliance of Rule 45

S.N	Item	COMMENTS	Remarks
•	Status of submission of Monthly and	M.R. Submitted upto– Dec'19	
	Annual returns A.R. submitted upto- 2018-19		

S.N	Item	Details GIVEN in	Observation of	Remarks
		A.R.	I/Officer	
9b	Scrutiny of Annual return for information on Mining Engineer, Geologist and Manager	Yes given	Shri Manoj Upate Mining Engineer & Manager,Shri Kawaljit Singh Dhaliwal Geologist	
9c	Scrutiny of Annual return on land use pattern for area under pits, reclaimed area, dumps etc.	Yes given	Covered under O/C working-14.463 ha., used for waste disposal-20.198 ha., Infrastructure-9.172 ha.	
9d	Scrutiny of Annual return on afforestation	Within lease area 5000 nos 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	461.24 Tons		
9g	Scrutiny of Annual return on sale value, Ex. Mine price & production cost	Ex-mine price for for lump and fines are Rs 2041/-		
9i	Scrutiny of Annual return on fixed assets	Rs 684256 reported		
9k	Scrutiny of Annual return on mining machineries		Excavators: 1.0 – 2.5 cu. M Tippers: 30t Drill: 115 mm Tankers, wheel loaders etc	

Details of Validations observed during current inspection and compliance position of earlier violation pointed out:- The last inspection of mine was done by Shri S kartikeye and during inspection the violation pointed out for site deviation of working and dumping under Rule 11(1) of MCDR,2017 is still not complied and for that that Review of Mining plan is submitted with incorporation of present status and after approval of document the same may be complied. During present inspection which was done for processing of Review of Mining Plan and no new violation pointed out.

Date:06.03.2020 Name: Rajesh Kumar Das

Designation: Senior Assistant Controller of Mines