INDIAN BUREAU OF MINES MINERALS DEVELOPMENT AND REGULATION DIVISION

MCDR inspection REPORT

Bangalore regional office

	Mine :	file No : KNT/BLR/Fe-	495	BNG	Mine code :	30KAR03186
	(i)	Name of the Inspecting Officer and ID No.	g :	SQ06) SURESH PRASAD		
	(ii)	Designation	:	Deputy Controller Mines		
	(iii)	Accompaning mine Official with Designation	:	SRI VENKATESH CHALIGERI,	MINES MANAGER,	SRI PRAKASH M
	(iv)	Date of Inspection	:	15/02/2022		
	(v)	Prev.inspection date	:			
		P7	ART-	I : GENERAL INFORMATION		
1.	(a)	Mine Name	:	UBBALAGUNDI IRON ORE MINI	2	
	(b)	Registration NO.	:	IBM/432/2011		
	(c) (d) (e) (f) (g) (h)	Category Type of Working Postal address State District Village Taluka Post office Pin Code FAX No. E-mail Phone Police Station First opening date Weekly day of rest		A Fully Mechanised Opencast KARNATAKA BELLARY UBBLAGUNDI SANDUR TARANAGAR 583119 08395250132 sunil.singh@jsw.in 08395250120, 022 4286100 SANDUR 21/11/2019 SUN	00	
2.		ess for espondance	:	UBBALAGUNDI VILLAGE, POST SANDUR TALUK BALLARY DISTRICT	I TARANAGAR	
3.	(a) (b) (c) (d)	Lease Number Lease area Period of lease Date of Expiry	::			
4.	Miner	ral worked	:	IRON ORE Ma	in	

5. Nar	ne and Address of the Lessee :	JSW STEEL LIMITED JSW Mining office, Near Talur Cross Vidyanagar Post, Toranagallu Sandur, Bellary BELLARY KARNATAKA Phone:9448286155 FAX :
	Owner :	DR. VINOD NOWAL DY.MANAGING DIRECTOR, M/S JSW STEEL LIMITED, NANDI IRON ORE MINE, BELLARY BELLARY KARNATAKA Phone: 9448286155 FAX :
	Agent :	SUNIL KUMAR SINGH JSW steel Ltd., Vijayanagar works, Vidyanagar Po, Bellari, Karnataka BELLARY KARNATAKA Phone: 9449598135 FAX : 08395250132/142
	Mining Engineer	
	Name :	VENKATESH CHALIGERI,Full Time
	Qualification :	BE MINING
	Appointment/ : Termination date	18/08/2020
	Geologist	
	Name :	RITAM PATRA,Full Time
	Qualification :	
	Appointment/ : Termination date	
	Manager	
	Name :	VENKATESH M CHALIGERI
	Qualification :	BE in Mining
	Appointment/ : Termination date	07/02/2022
	ce of approval of Min: an/Scheme of Mining	ing : Fresh under rule 22 MCR1960 29/04/2019

PART - II : OBSERVATION/COMMENTS OF INSPECTING OFFICERS

Exploration :

Sl.No.	Item	Proposals	Actual work	Remarks
la	Backlog of previous year	NIL	NA	-
1b	Exploration over lease area for geological axis 1 or 2	8 Boreholes, Total 715m	Nil	Violation issued under rule 11(1) of MCDR, 2017. Further, the mine was expired and closed temporarily from 29.09.2020
lc	Exploration Agencies and Expenditure in lakh rupees during the year	No Proposal.	Nil.	As exploration not undertaken.
ld	Balance area to be explored to bring Geological axis in 1 or 2	No proposal	Nil.	As per Mining Plan, G1 - 1.20 Ha G2- 1.80 Ha G3- 9.80 Ha G4- 5.67 Ha Unexplored Area- 14.42 Ha
le	Balance reserve as on 01/04/20	5.813 MMT (as per the Approved Mining Plan)	5.173 MMT (as on 01.04.2021)	Balance Reserves shown as submitted in the Annual Return.
lf	General remarks of inspecting officers on geology, exploration etc			Exploration of 8 bore holes (715 m) was proposed for the year 2020-21. However not carried out the same. Hence, violation issued. Further, FC of the lease has expired on 20.09.2020.

Development :

Sl.No.	Item	Propasals	Actual work	Remarks
2a	Location of development w.r.t.lease area	677045	E/W: 676850 to 677034 N/S: 1665570 to 1665750.	For year 2020-21.

2b	Separate benches in topsoil, overburden and minerals (Rule 15)	Overburden &	Benches in Overburden & Mineral: 7	No Topsoil Generation
2c	Stripping ratio or ore to OB ratio	l: 1.47 (in Tonnes)	1: 1.34 (in Tonnes)	For year 2020-21.
2d	Quantity of topsoil generation in m3	No proposal.	Not applicable.	No Topsoil Generation.
2e	Quantity of overburden generation in m3		202,193 m3	For year 2020-21.
2f	General remarks of inspecting officers on development of pit w.r.t. type of deposit etc			Development proposal were not achieved in the year 2019-20 and 2020-21 fully, therefore violation issued for the deviation observed.

Exploitation:

Sl.No.	Item	Propasals	Actual work	Remarks
3a	Number of pit proposed for production	1	1	-
3b	Quantity of ROM mineral production proposed	340,000 Metric Tonnes	301,281 Metric Tonnes	Since the mine is discontinuous with effect from 29.09.2020 due to FC Expiry, production target could not be achieved during FY 2020-21.
3с	Recovery of sailable/usable mineral from ROM production	95%	95%	
3d	Quantity of mineral reject generation	No proposal.	NA	No mineral reject generation as per AR 2020-21.
3e	Grade of mineral rejects generation and threshold value declared.	No proposal.	Not applicable.	THV of Fe greater than or equal to 35%

3f	Quantity of sub grade mineral generation.	No proposal.	Not applicable.	-
3g	Grade of sub grade mineral generation	No proposal.	Not applicable.	-
3h	Manual / Mechanised method adopted for segregating from ROM	Mechanized Method for ROM Segregation	Mechanized Method for ROM Segregation	Dry Crushing and Screening - 150 TPH
3i	Any analysis or beneficiation study proposed and carried out for sub grade mineral and rejects.	No Proposal	No such beneficiation study has been carried out.	-
3j	Provision of drilling and blasting in mineral benches	Drilling and Blasting is proposed for mineral benches.	Drilling and Blasting is being carried out for production purpose.	106 (2) (B) Permission obtained from DGMS as per MMR 1961.
3k	Provision of mining machineries in mineral benches	Proposed Mining Machineries: Excavators-3 Tippers-10 Drill-1 Wheel loader-2	Deployed Mining Machineries: Excavators-4 Tippers-9 Drill-1 Wheel loader-2	106 (2) (B) Permission obtained from DGMS as per MMR 1961.
31	Whether height of benches in overburden and mineral suitable for method of mining proposed in MP/SOM	Bench Height- 8m Bench Width- 8m	Bench Height- 8m Bench Width- 8m	-
3m	Total area covered under excavation/pits	15.88 Ha (for plan period, as per the Approved Mining Plan)	14.90 Ha (As on 01.04.2021)	-
3n	Ore to OB ratio for the pit/mine during the year.	1: 1.47 (in Tonnes)	1: 1.34 (in Tonnes)	

30	Total area put in use under different heads at the end of year	Mining- 15.88 Ha Roads - 0.50 Ha Infrastructure - 0.50 Ha Waste Dumps- 10.49 Ha Mineral Storage- 1.30 Ha Others - 4.22 Ha Total - 32.89 Ha (Area considered for Financial Assurance for Plan Period, as per the Approved Mining Plan)	Mining- 14.90 Ha Roads - 0.50 Ha Infrastructure - 0.15 Ha Waste Dumps-5.40 Ha Mineral Storage- 1.30 Ha Others - 10.64 Ha Total - 32.89 Ha (as on 01.04.2021)	
3р	Production of ROM mineral during the last five year period as applicable	2019-20: 340,000 2020-21: 340,000 2021-22: 340,000 (in Metric Tonnes)	2019-20: 339,576 2020-21: 301,281 2021-22: 0 (in Metric Tonnes)	Mine is discontinuous with effect from 29.09.2020 due to FC Expiry.
3q	General remarks of inspecting officers on method of mining etc.			

Solid Waste Management - Dumping:

Sl.No.	Item	Propasals	Actual work	Remarks
4a	Separate dumping of topsoil, OB and mineral rejects (Rule 32,33)	Separate dumping of Overburden is proposed.	Separate dumping of Overburden is being carried out.	_
4b	Location of topsoil, OB and mineral reject dumps		OB Dump location: E/W: 677024 to 677128 N/S: 1665580 to 1665740.	_

Inactive dump was 4c Number of dumps Within Lease Within Lease Area-2 within lease Area-2 i.e. i.e.1 Inactive Dump & 1 dumped by area and outside 1 Inactive Active Dump Erstwhile lessee. of lease area Dump & 1 Outside Lease Area- No Active Dump Proposal Outside Lease Area- No Proposal Some parts of Dump: ID-1 4d Location of Some parts of dumps w.r.t. Dump: ID-1 & & PD lie inside the UPL. PD lie inside ultimate pit the UPL. limit (Rule 16) 4e Number of active Active Dump -1 Active Dump -1 and alive dumps. 4f Number of dead 1 Inactive 1 Inactive Dump, As per the dumps. Dump information, Ccategory Mine, inactive dumps are created by earlier lessee. Number of dumps Stabilization 4g Nil 1 Inactive Dump, established. Stabilization Under Under Progress as Progress. per approved R&R Plan 4h Whether Yes, Yes For EID-1, ID-1, Retaining wall PD & Road or garland drain all along dumps are there. 4i Length of Retaining Wall: Retaining For EID-1, ID-1, Retaining wall Wall: TW-1: 484m PD & Road or garland drain TW-1: 480m TW-2: 367.5m all along dumps TW-2: 405m TW-3: 626.8m TW-3: 740m Garland Drain: Garland Drain: GD-1: 484m GD-2: 153m GD-1: 350m GD-2: 747m GD-3: Om GD-3: 589m 4j Number of LBCD- 3 nos. LBCD- 3 nos. For Nala 1 &2 settling ponds GCD- 2 nos. GCD- 2 nos. SMCD-1 no. SMCD-1 no. SST-1 No. SST-0 No. 4k Specific The inactive dumps created by the comments of inspecting earlier lessee is officer on waste being stablized by way of plantation dump management and geotextiling by the present lessee.

Solid Waste Management - Backfilling:

Sl.No.	Item	Propasals	Actual work	Remarks

5a	Status of part or full extraction of mineral from mined out area before starting backfilling.	No proposal.	NIL	No area is completely mined out till this plan period.
5b	Area under backfilling of mined out area	No proposal.	Not applicable.	No area is completely mined out during this plan period.
5c	Concurrent use of topsoil for restoration or rehabilitation of mineral out area (Rule 32)	No proposal.	Not applicable.	No Topsoil Generation.
5d	Total area fully reclaimed and rehabilitated	No proposal.	Not applicable.	-
5e	General remarks of inspecting officers on backfilling and reclamation etc.			Mineral in the mine area not exhausted fully. Thus no. proposal in the mining pit for backfilling.

Progressive Mine Clousre Plan:

Sl.No.	Item	Propasals	Actual work	Remarks
ба	Whether Annual report on PMCP submitted on time and correctly. Rule 23 E(2).	Submission of Annual report on PMCP under rule 23E(2)	Annual PMCP Report for Year 2020-21 has been submitted to IBM Office.	-
6b	Area available for rehabilitation (ha) .	NIL	NA	-
бс	afforestation done (ha).	Proposed Plantation Area- 0.37 Ha	Achieved in Safety Zone- 0.28 Ha. Outside the Lease Area- 2.97 Ha	As per the information furnished by mine management.
6d	No. of saplings planted during the year		Achieved Within Mine Lease: 955 Outside Mining Lease: 5810	Advice to complete the plantation.
бе	Cumulative no .of plants	No proposal.	7877 Nos.	-

бf Any other method Implementation Bio-engineering measures of of Biofor Surface Water and rehabilitation engineering Dump Management as per measures for Approved R&R Plan are Surface Water being implemented. and Dump Management as per Approved R&R Plan. Cost incurred on No proposal. Not applicable. 6g watch and care during the year 6h Compliance on No proposal. Not applicable. Mineral is not reclamation and exhausted from the rehabilitation Pit. by backfilling (i) Voids available for backfilling (Lx ВхD бi Compliance on No proposal. Not applicable. Mineral is not reclamation and exhausted from the rehabilitation Pit. by backfilling (ii) Voids filled by waste / tailings бj Mineral is not Compliance on No proposal. Not applicable. reclamation and exhausted from the rehabilitation Pit. by backfilling (iii)Afforestati on on backfilled area 6k Compliance on No proposal. Not applicable. Mineral is not reclamation and exhausted from the rehabilitation Pit. by backfilling (iv) Rehabilitation by making water reservoir 61 Compliance on No proposal. Not applicable. reclamation and rehabilitation by backfilling (v)any other specific means. бm Compliance of No proposal. Not applicable. rehabilitation of waste land within lease (i)afforestation

бп	Compliance of rehabilitation of waste land within lease (ii)Area rehabilitation (ha)	No proposal.	Not applicable.	
бо	Compliance of rehabilitation of waste land within lease (iii)Method of rehabilitation	No proposal.	Nil.	
бр	Compliance of environmental monitoring (core zone and buffer zone)	Regular Environmental Monitoring of Core and Buffer zone is proposed.	Environmental Monitoring of Core and Buffer zone is being carried out on regular basis.	Monitoring Agency- Ecomen Laboratories Pvt. Ltd. Parameters which are being Monitored: " Ambient Air Quality " Ambient Noise " Surface Water Quality " Dust Fall Measurement " Noise Monitoring (Personal Exposure) " Stack Monitoring " Personal Dust Monitoring " Fugitive Dust Monitoring " Ground Water Quality " Soil Quality
бq	General remarks of inspecting officers on PMCP compliance and progressive closure operations etc.			Mineral is not exhausted from the Pit. Further, lease is granted newly through the auction process of C-category mine.

Mineral Conservation:

Sl.No.	Item	Propasals	Actual work	Remarks
7a	ROM Mineral dispatch or grade-wise sorting within lease area	Yes	Dispatch of finished product after taking Bulk Permits from DMG.	Grade-wise dispatch.

7b	Method of grade- wise mineral sorting i.e. manual or mechanical.	Mechanical Sorting	Mechanical Sorting	Dry Crushing and Screening Method
7c	Different grade of mineral sorted out at mines.	Yes	Fe<55% Fe?55-58%	_
7d	Any beneficiation process at mines	No Proposal	No beneficiation process is carried out within lease area.	Satisfactory, Mine is non-working due to FC renewal.
7e	General remarks of inspecting officer on Mineral conservation and beneficiation issues			

Environment:

Sl.No.	Item	Propasals	Actual work	Remarks
8a	Separate removal and utilization of topsoil (Rule 32)	-	No Topsoil generated during operations.	Majority part of area is broken out.
8b	Concurrent use or storage of topsoil	No proposal.	Not applicable.	No Topsoil generated during the year 2020-21.
8c	Separate dumps for overburden, waste rock, rejects and fines (Rule 33)		Separate dumping of overburden is being carried out.	_
8d	Use of overburden, waste rock, rejects and fines dumps for restoring the land to its original use	No proposal.	Not applicable.	_

8e	Phased restoration, reclamation and rehabilitation of lands affected by mining operations (Pits, dumps etc)	No proposal.	Not applicable.	_
8f	Baseline information on existence of plantation and additional plantation done (Rule 41)	Gapfilling & greenbelt development No. of plantation: 1295	Plantation inside & outside the mine lease area has been carried out to increase the green cover in & around the mine Achieved Plantation- Within Mine Lease area: 955 Outside Mine Lease area: 5810	_
8g	Survival rate	80%	97%	-
8h	Water sprinkling on roads to control airborne dust	sprinkling on	Water tanker have been deployed for sprinkling on roads to control airborne dust.	No. of Water Tankers:1 Capacity: 10000 Liter
8i	General remarks of inspecting officer on aesthetic beauty in and around mines area			Developed mine office area with good aesthetic beauty condition.

Compliance of Rule 45:

Sl.No.	Item	Propasals	Actual work	Remarks
9a	Status of submission of Monthly and Annual returns		M.R. Submitted up to: Jan, 2021, Submitted on 08.02.2021 A.R. Submitted up to: Year 2020-21, submitted on 24.06.2021	-
9b	_	Engineer- Mr.	Mr Venkatesh M Chaligeri is performing duties of Manger and Mining Engineer in the mine.	-

Scrutiny of 9c Appears to be correct. The land use Annual return on pattern area land use pattern covered under for area under mining - 14.9 pits, reclaimed Ha. area, dumps etc. and dumping -5.4 Ha. 9d Scrutiny of Achieved Appears to be correct. Annual return on Within Mine afforestation Lease: 955 & Outside Mining Lease: 5810. The survival rate within the lease area is 97% & outside the lease area is 95% 9e Scrutiny of Nil. Nil. Annual return on mineral reject generation (Grade and quantity) 9f Scrutiny of Opening stock Appears to be correct. Annual return on - 267951.990 ROM stock and/or Tonne graded ore ROM production - 301281.560 Tonne Closing stock -244219.4Tonne Grade-wise Ore:-Lumps below 55% of Fe =113723.980 Tonne Fines below 55% of Fe =211290.170 Tonne. 9q Scrutiny of Ex-mine Price: Annual return on 549.00 Rs./Te. sale value, Ex. Mine price and production cost 9h Scrutiny of The value of Fixed assets not given Violation issued under rule 45(7)Annual return on fixed assets correctly. of MCDR, 2017. fixed assets (in Rs.) 0.

9k	Scrutiny of Annual return on mining machineries	<pre>(HYDROULIC) 1.4 Cub. M.= 3 Nos. Shovel (HYDROULIC) 1 Cub. M.= 1 Nos. Wheel Loader 2.67 Cub. M. = 2 Nos. Drill Machine (102mm)=1 No. Tipper 14 Cub. M. = 9 Nos. Crsher 150 TPH = 1 No. Water Tanker 9000 Ltr.=1 No. Jeep/ Tractor</pre>	Appears	to be	correct.	_
		Jeep/ Tractor 75 HP = 2 Nos. Generator 15 KWH = 1 No. Generator 10 KWH = 2 No.				

Details of violations observed during current inspection and compliance position of violation pointed out						
Violatio	on observed		Show couse position			
Rule NO.	Issued on	Compliance on	Rule NO.	Issued on Compliance on		
MCDR17 Rule 11(1)	28/02/2022					
MCDR17 Rule 45(7)(a;28/02/2022					

Date :

(SURESH PRASAD)

Indian Bureau of Mines