# MCDR INSPECTION REPORT

#### 1.0 GENERAL

Sl.N	PARTICULARS	DETAILS
1	File No.	CHG/BLD/FE-1/NGP/30MPR13002
2	Name & Designation of the inspecting officer	Shri Arun Kumar,
		Regional Controller of Mines
		& Shri Rudra N Mishra,
		Senior Mining Geologist.
3	Date of Inspection	09/03/2022 (MCDR)
4	Accompanying mine personnel	Shri PM Sirpurkar GM i/c cum Agent (DMM &DMNL), Shri Birendra Kumar, Mine Manager, Dalli
		Mech.
		Shri Dhananjay Singh (Jharandalli
		Mech.Mine) Shri Vinod Kumar Singh, Dalli Mech. Mine
5	Date of Last Inspection & Officer	02/02/2021, Shri R.K. Das (Sr. ACOM)
6	Name of the Mine	Dalli Mech. Mine & Jharandalli Mech. Mine
7	Total Lease Area (Ha) with breakup of non-forest	Forest Land: 283.60 Ha
'	and forest land	Non-Forest Land: 436.00 Ha
	and forest faild	Total Land: 719.60 Ha
8	Mine code	30MPR13002
9	IBM Registration Number under rule 45 of	IBM/5662/2011
	MCDR, 2017	
10	Name of the lessee, Address, phone, email and	Steel Authority of India Limited (SAIL)
	fax number	Bhilai Steel Plant
		Ispat Bhawan, Lodhi Road,
	Village	New Delhi -110003.  Kondekasa
	Taluka/Mandal	Taluka –Dalli-Rajhara
	District	Balod
	Pin code	491228
	State	Chhattisgarh
	Post office	Dalli Rajhara
11	Nearest police station	Dalli Rajhara
12	Nearest Police station  Nearest Railway station	Dalli Rajhara  Dalli Rajhara
13	ļ	05.11.1962, ML Grant 03.01.2005
	Date of Grant of Mining Lease Date of Execution	·
14		Lease deed execution 18.10.2005
15	Date of opening of Mine	05.11.1962
16	Date of first Renewal, if applicable and its period	First Renewal: 1988 (Period 01.06.88 to 31.05.98)
17	& expiry  Data of submission of rangual application if	,
1/	Date of submission of renewal application if  Mining Operations are continuing under deemed	Second Renewal: 1998 (Period 01.06.98 to 31.05.2003)
	Mining Operations are continuing under deemed extension	Third Renewal: 01-06-2003
	CAUSIOII	Period: 20years

Name of the Nominated Owner with Address, phone, email, fax number and date of appointment   Shri Anirban Das Gupta   Director In charge Bhilai Steel Plant, Ispat Bhawan Bhilai, DistDurg, Chhattisgarh Phone: 07882862001   Email amirbandasgupta@sail.in Date of appointment: 30/09/2020   Shri P M Sirpurkar GM ½ cum Agent (DMM &DMNL), Off Address: Dalli Administrative Building, Dalli Rajhara, Dist-Balod, Pin-491228(C.G) Phone-9407983906   Email:pshirpurkar@sail.in Date of appointment: 04/08/2020.   Shri R C. Behra, (Jharandalli Mech.Mine)   Add-Room no-50, Administrative Building, IOC, Rajhara Post-Dalli Rajhara, Dist-Balod, Pin-491228(C.G)   Email-rebehra@sail.in Date of appointment: 04/08/2020.   Shri Brendra Kumar, Mine Manager, Dalli Mech. Mine, Off Address: Dalli Administrative Building, IOC, Rajhara Post-Dalli Rajhara, Dist-Balod, Pin-491228(C.G)   Phone-9407982925   Email:birendrakumar@sail-bhilaisteel.com Date of appointment: 03/07/2019   Shri Dhananjay Singh (Jharandalli Mech.Mine)   Add-Room no-49, Administrative Building, IOC, Rajhara Post-Dalli Rajhara, Dist-Balod, Pin-491228(C.G)   Ph-9407982902   Id-dhananjaysingh@sail-bhilaisteel.com Date of appointment: 18/10/2018   Shri Vinod Kumar Singh, Dalli Mech. Mine Date of appointment: 18/10/2018   Shri Vinod Kumar Singh, Dalli Mech. Mine Date of appointment: 18/10/2018   Shri Vinod Kumar Singh, Dalli Mech. Mine Date of appointment: 18/10/2018   Shri Vinod Kumar Singh, Dalli Mech. Mine Date of appointment: 18/10/2018   Shri Vinod Kumar Singh, Dalli Mech. Mine Date of appointment: 18/10/2018   Shri Vinod Kumar Singh, Dalli Mech. Mine Date of appointment: 18/10/2018   Shri Vinod Kumar Singh, Dalli Mech. Mine Date of appointment: 01/03/2021   YES   Shri P. Marathe (Geologist)   Shri P. Marath			Expiry: 31-05-2023
phone, email, fax number and date of appointment    Director In charge Bhilai Steel Plant, Ispat Bhawan Bhilai, DistDurg, Chhattisgarh Phone: 07882862001   Email anirbandasgupta@sail.in Date of appointment : 30/09/2020   Shri P M Sirpurkar GM i/c cum Agent (DMM &DMNL), Off Address: Dalli Administrative Building, Dalli Rajhara, Dist-Balod, Pin-491228(C.G) Phone-9407983906   Email-pshirpurkar@sail.in Date of appointment - 04/08/2020.   Shri R C. Behra, (Jharandalli Mech.Mine) Add-Room no-50, Administrative Building, IOC, Rajhara Post- Dalli Rajhara, DistBalod, Pin-491228(C.G)   Email-rebehra@sail.in Date of appointment- 04/08/2020   Shri Birendra Kumar, Mine Manager, Dalli Mech. Mine, Off Address: Dalli Administrative Building, Phone: -07882851804(Off), Mob.940788292   Shri Dinanajay Singh (Jharandalli Mech.Mine) Add-Room no-49, Administrative Building, Phone: -07882851804(Off), Mob.940788292   In the part of appointment	18	Name of the Nominated Owner with Address,	1 7
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Phone: - 07882851804(Off), Mob.9407982925 Email:birendrakumar@sail-bhilaisteel.com Date of appointment- 03/07/2019 Shri Dhananjay Singh (Jharandalli Mech.Mine) Add-Room no-49, Administrative Building, IOC, Rajhara Post- Dalli Rajhara, Dist- Balod, Pin- 491228(C.G) Ph- 9407982902 Id -dhananjaysingh2@sail-bhilaisteel.com Date of appointment- 18/10/2018  21 Name of the Mining Engineer, Qualification and total experience with Address, phone, email, fax number and date of appointment in mine  Shri Vinod Kumar Singh, Dalli Mech. Mine BE (Mining), 15 yrs exp in various mines. Off Address: Dalli Administrative Building, Mob. 09407982944, Email-vksingh6@sail-bhilaisteel.com Date of appointment- 01/03/2021  YES Shri P. Marathe (Geologist)		1 -	· ·
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Treatist in the same of the sa	22	Whether Geologist and Mining Engineer	**
out their duties as per rule 43 & 44.		appointed in mines satisfy the rule 42 & carrying	Shri P. Marathe (Geologist)
		out their duties as per rule 43 & 44.	

23	Date of Approval of Mining Plan/Modified Mining Plan with five-year period and specific condition in approval letter, if any.	Mining Plan: 15/12/2005 Modified Mining Plan: 23/01/2007
24	Date of Approval of Scheme of Mining/Modified Scheme of Mining with five-year period and specific condition in approval letter, if any.	Review of Mining Plan -03/08/2016 (2013-14 to 2017-18), No. Durg/Iron/Mining-8/Nag/5-Raipur/255 dated 03-08-2016 Modified Mining Plan approved vide No BLD/FE/MPLN-1229/2019-RPR dated 24/01/2020 (1/02/2020 to 31/03/2023)
25	Mineral(s) granted in lease and proved for mining	Hematite
26	Method of Mining (Opencast, Underground)	Opencast
27	Category (Fully Mechanized, Others or Manual)	Fully Mechanized
28	Captive/Non-Captive	Captive
29	EC for ROM Prod:	14.00 million tones
30	FA amount Rs Valid up to:	Rs 12.60 Crore Valid Up to 31.03.2023

 $Scientific\ Mining:\ Compliance\ of\ proposals\ of\ approved\ mining\ plan/scheme\ of\ mining.\ -$ 

# 1.0 EXPLORATION

SN	ITEM	PROPOSALS	ACTUAL WORK	REMARKS
		(2020-21)	(2020-21)	
1a	Backlog of previous year	Bore holes Nos- 35, Total	BH= 0	35 Bore holes
		Mtrs=3130m	Mtrs = 0	proposed in 2020-
		1,1,1,1,5		2021 Violation
				Pointed out
1b	Exploration over lease	G4 area to Convert	Nil	Lowest level of
	area for Geological axis	G1 Category based		exploration
	1 or 2.	on the analysis report		259mRL
1c	Exploration Agency &			Exploration not yet
	Expenditure in lakh	No proposal	Nil	done.
	Rupees during the year			
1d	Balance area to be	G1 Category:	Nil	Balance Area
	explored to bring	260.40Ha		remain same
	Geological axis in 1 or 2	G4 Category:		
		264.51Ha		
		Unexplored		
1e	Balance reserves as	Area:194.67Ha Nil	Mineral Reserves	As por AD
16		INII	: 2150000 tonnes,	As per AR
	01.04.2021		. 2150000 tollies,	submitted for the
				year 2020-21.

				Lump Ore Grade
				65.25% Fe and for
				Fines 63.71% Fe.
1f	General remarks of	Violation pointed out	due to exploration not car	ried out during the
	inspecting officer on		ategory: 260.40Ha, G4 Cat	tegory: 264.51Ha &
	geology, exploration etc.	Unexplored Area:194	67Ha.	

### 2.0 DEVELOPMENT

SN	ITEM	PROPOSALS	ACTUAL WORK	REMARKS
		(2020-21)	(2020-21)	
2a	Location of	The eastern pit will be	Same as proposal	
	development w.r.t. lease	deepened up to 450	actual work is being	
	area	Mrl and central pit	carried out.	
		will be excavated	DMM Konde A	
		laterally at	lowest level is 460	
		500 Mrl.	mRL.	
		(Pit-1 DMM)		
		Between 530 to 445		
		Bench level		
		(Pit-2 JMM)		
2b	Separate benches in	yes	Being maintained	Overburden-7
	topsoil, overburden and			and 16
	mineral (Rule 15)			Mineral-6 & 14
2c	Stripping ratio of ore to	1: 0.50	1: 0.73	Bulk Density
20	OB ratio (t / t)	1. 0.30	1.0.73	t/m3:
				Ore: 3.5 (avg)
				OB: 2.7(avg)
2d	Quantity of topsoil	NIL	NIL	
	generation in m <sup>3</sup>			
2e	Quantity of overburden	3140000 T	36598467 T	as per Annual
	generation in Tons			Return
2f	General remarks of	Mining carried out by fully mechanized open cast bench mining		
	inspecting officer on	method with deployment of HEMM and in conjunction with deep		
	development of pit wrt.	hole drilling & blasting.		
	type of deposit etc.			

# 3.0 EXPLOITATION

S.N.	ITEM	PROPOSAL	ACTUAL WORK	REMARK
		(2020-21)	(2020-21)	
3a	Number of pits proposed for	One Pit in JMM	2 Pit developed	As per proposal
	production	and one pit in	Total − 2 pits	
		DMM proposed	developed	
		Total − 2 pits		
		proposed		

3b	Quantity of Iron Ore production proposed	6250000 T	4732274.700 T	
3c	Recovery of saleable/usable mineral from Iron Ore production	5312500 T (15% Loss after Washing)	Actual = 4210680 T	Loss after washing approx.
3d	Quantity of mineral reject generation	No proposal	Nil	As per AR submitted for the year 2020-21.
3e	Grade of mineral reject generation and threshold value declared	Threshold value: Fe 45%	Threshold value: Fe 45%	As per AR submitted for the year 2020-21.
3f	Quantity of sub-grade mineral generation	No proposal	Nil	
3g	Grade of sub-grade mineral generation	45-55 Fe %	50 Fe %	
3h	Manual / Mechanised method adopted for segregating from ROM	Mechanized method proposed for segregating from ROM	Mechanized method adopted for segregating from ROM	
3i	Any analysis or beneficiation study proposed & carried out for sub-grade mineral and reject	No study Proposed	No such study carried out	Nil
3j	Provision of drilling & blasting in mineral benches	Provision of Drilling and blasting is made in Mineral benches for hard strata	Drilling and blasting carried out by combination of slurry and Nonel Detonators	Drill m/c of 152mm dia. with spacing -3.0 – 4.0mts, burden 5.5 -4.5 mts & depth of 11 to 12 mts
3k	Provision of mining machineries in mineral benches	Hydraulic excavators and Dumper combination Proposed	Mining is carried out by using Hydraulic excavators and 50 to 60 Tonner Dumper.	Drill Machine: 07 No, Dumpers: 10 Nos. Shovel:10 No, Dozer:06 Nos, Water Tankers:28000 Lt & 10000 Lt total 04 & 03 numbers respectively.
31	Whether height of benches in overburden and mineral suitable for method of mining proposed in MP/SOM	Bench height of 10 m and width of 11.91 m proposed	Average Bench height of 10m and bench width of 11.00 m	
3m	Total area covered under excavation/pits	155.07 Ha at the end of plan period	148.240 Ha at the end of reporting year	Nil
3n	Stripping ratio of ore to OB ratio (tones /tones)	1: 0.50	01: 0.73	Nil

2 -	T-4-1	A TI 1 D'4	C11	NT:1
30	Total area put in use under	Area Under Pit:	Covered under	Nil
	different heads at the end of year	155.07 ha, Waste	working pit-148.240	
		dump-72.83 Ha,	Ha, Reclaimed and	
		Mineral storage:	Rehabilitated area:	
		15.96Ha,	9.00 ha Use for	
		Infrastructure-	waste disposal:	
		16.66 Ha, roads -	59.350 ha	
		28.70ha,	Occupied by plant,	
		Railways:7.59ha,	building residential,	
		Mineral	welfare building and	
		separation	roads:61.230 ha and	
		plant:118.96ha	other purpose: 3.960	
		Pipe line: 3.18	ha at the end of	
		Ha at the end of	reporting year	
		plan period		
3p	Production of Iron Ore during	2016-17-	2016-17-	Actual production
	last Five -year period, as	4575474.00Tons	4575474.00Tons	within the
	applicable	2017-18-	2017-18-	proposed limits
		5750000 Tons	5109944.00Tons	
		2018-19-	2018-19-	
		5494837 Tons	5036137.00 Tons	
		2019-20-	2019-20-	
		5361820 Tons	5080892.00Tons	
		2020-21-	2020-21-	
		6250000 Tons	4732275.00Tons	
3q	General remarks of inspecting		is Open cast mechanize	d mining with
-1	officer on method of mining etc.	_	nbination. Subgrade min	_
		Saleable ore.		
		Saleable of C.		

# 4.0 SOLID WASTE MANAGEMENT-DUMPING

SN	ITEM	PROPOSALS	ACTUAL WORK	REMARKS
		(2020-21)	(2020-21)	
4a	Separate dumping of topsoil, OB	Separate dumping	Separate dump of	Nil
	& mineral reject (Rule 32, 33)	for OB proposed	OB maintained	
b	Location of topsoil, OB &	Topsoil dump NA	OB dump = WD1	Waste is being
	mineral reject dumps	OB dump = WD1	Mineral reject	dump at
		6100N-	dumps – Hitkasa	earmarked place
		6225N/6250E-	Tailing Dam	as per approved
		6470E		documents.
		Mineral reject		
		dumps – Hitkasa		
		Tailing Dam		
4c	Number of dumps within lease	Within lease area-01	Within lease area-	
	area and outside lease area	Nos.	01 Nos	
		Outside lease area-	Outside lease area-	
		Nil	Nil	

4d	Location of dumps w.r.t. ultimate pit limit (Rule 16)	Outside of ultimate pit limit	Outside of ultimate pit limit
4e	Number of active & alive dumps	1	1
4f	Number of dead dumps	No proposal	Nil
4g	Number of dumps stabilized	No proposal	Nil
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	Retaining wall 500Mtrs proposed	Retaining wall 500 Mtrs constructed.
4j	Number of settling ponds	No proposal	Nil
4k	Specific comments of inspecting officer	Waste is being dump documents.	at earmarked place as per approved

### 5.0 SOLID WASTE MANAGEMENT-BACKFILLING

SN	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	Nil	Area is not matured for backfilling.
5b	Area under backfilling of mined out area	No Proposal	Nil	
5c	Concurrent use of topsoil for restoration or rehabilitation of mined out area (Rule 32)	No Proposal	Nil	
5d	Total area fully reclaimed & rehabilitated	No Proposal	Nil	
5e	General remarks of inspecting officer on backfilling, reclamation etc	The Mineral is not ex backfilling.	hausted and the area is not	matured for

### **6.0 PROGRESSIVE MINE CLOSURE PLAN**

SN	ITEM	PROPOSALS	ACTUAL	REMARKS
		(2020-21)	WORK	
			(2020-21)	
6a	Whether Annual report on PMCP submitted	PMCP report to	PMCP report	
	on time and correctly - Rule 23E (2). Details	be submitted by	submitted.	
	should be given in the format as given in	1 <sup>st</sup> of July every		
	Annexure-20.	year.		

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	No Proposal	i) Nil ii) Nil iii)Nil Departmental	
	year			
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	No Proposal Waste NA NA	Nil Waste NA NA	
	v) Any other specific means	NA	NA	
6d	Compliance of Rehabilitation of waste land within lease i) Afforestation ii) Area rehabilitated (ha) iii) Method of rehabilitation	No Proposal NA NA	Nil NA NA	
6e	Compliance of Environmental monitoring (core zone & buffer zone)	Proposed Environmental monitoring in core and Buffer Zone.	Environmental monitoring in core and Buffer Zone is carried out regularly.	Monitoring carried out by M/s SAIL. All the parameters were observed to be within permissible limits.
6f	General remarks of inspecting officer on PMCP compliance & progressive	PMCP report submitted and environmental monitoring compliance done as per proposal.		

# 7.0 MINERAL CONSERVATION

SN	ITEM	PROPOSALS	ACTUAL WORK	REMARKS
		(2020-21)	(2020-21)	
7a	ROM Mineral dispatch or grade-wise sorting within lease area	Grade-wise sorting proposed within the lease area	Grade-wise sorting done within the lease area	Subgrade mineral generated is blended simultaneously with high grade mineral during

71	Mala Cala in the state of the s	M 1 1 1	N 1 . 1	feeding to the crushing plant.
7b	Method of grade-wise mineral sorting	Mechanical	Mechanical	ROM dispatch
	i.e., manual or mechanical	sorting	method adopted	to Rajhara/Dalli
		proposed.	for grade wise	Crushing Plant
			sorting.	for processing
7c	Different grade of mineral sorted out at	Below 55 Fe%,	Below 55 Fe%,	
	mines	55 to 58 Fe%,	55 to 58 Fe%,	
		58 to 60 Fe%,	58 to 60 Fe%,	
		60 to 62 Fe%,	60 to 62 Fe%,	
		62 to 65 Fe%	62 to 65 Fe%	
		65% and above	65% and above	
7d	Any beneficiation process at mines	No proposal	Nil	
7e	General remarks of inspecting officer	Crushing is being done for sizing of ore.		
	on Mineral conservation &			
	beneficiation issues			

# **8.0 ENVIRONMENT**

SN	ITEM	PROPOSALS	ACTUAL WORK	REMARKS
		(2020-21)	(2020-21)	
8a	Separate removal and utilization of	No proposal	Nil	
	topsoil (Rule 32)			
8b	Concurrent use or storage of topsoil	No proposal	Nil	
8c	Separate dumps for overburden, waste	Separate dumping	Separate dump for	
	rock, rejects and fines (Rule 33)	for OB proposed	OB maintained	
8d	Use of overburden, waste rock, rejects	No proposal	Nil	
	and fines dump for restoring the land			
	to its original use			
8e	Phased restoration, reclamation and	No proposal	Nil	
	rehabilitation of lands affected by			
	mining operations (Pits, dumps etc.)			
8f	Baseline information on existence of	10000 Sapling	Within lease area-	,
	plantation & additional plantation done		13200 saplings,	
	(Rule 41)		Outside Lease area:	
			Nil saplings.	
8g	Survival rate	Survival rate 90%	Survival rate 90 %	
8h	Water sprinkling on roads to control	Water sprinkling	Water Tankers were	07 nos of
	airborne dust	on haul roads	deployed to control	water
		proposed to	the airborne dust on	tankers of
		control airborne	haul roads and	28000 lt
		dust.	screening plants.	and 10000
		1		

			Lt capacity deployed.
8i	General remarks of inspecting officer	The aesthetic beauty in and around the mine	e is
	on aesthetic beauty in and around	maintained	
	mines are		

#### 9.0 COMPLIANCE OF RULE 45

S. N.	Item	Comments	Remarks
9a	Status of submission of monthly and Annual returns	M.R. Submitted up to–Feb -2021 A.R. submitted for the year 2020-21	AR Submitted on 30/06/2021
9b	Scrutiny of Annual return for information on Mining Engineer, Geologist and Manager	Shri P. Marathe (Geologist) Shri Vinod Kumar Singh, Mining Engineer	Same Mining Engineer & Geologist were present during the course of inspection.
9c	Scrutiny of Annual return on land use pattern for area under pits, reclaimed area, dumps etc.	Covered under working pit-148.240 Ha, Reclaimed and Rehabilitated area: 9.00 ha Use for waste disposal: 59.350 ha Occupied by plant, building residential, welfare building and roads:61.230 ha and other purpose: 3.960 ha at the end of reporting year	Appears to be correct
9d	Scrutiny of Annual return on afforestation	Within lease area-13200 saplings, Outside Lease area: Nil saplings. Survival rate 90 %	
9e	Scrutiny of Annual return on mineral reject generation (Grade & Quantity)	Nil	Nil
9f	Scrutiny of Annual return on ROM stock and/or grade ore	ROM Stock: Opening Stock: 339601.780T Production: 4732274.700T. Closing stock: 100327.770 T	Appears to be correct
9g	Scrutiny of Annual return on sale value, Ex. Mine price & production costs	Lumps & Fines: Cost of production: Rs.1310.30/Ton Captive use, Ex-Mine price and Cost of production same.	
9i	Scrutiny of Annual return on Fixed assets	Value of Fixed Assets: Rs 449120883 (As per reported in AR)	
9k	Scrutiny of Annual return on mining Machineries	Drill Machine: 07 No, Dumpers: 10 Nos. Shovel:10 No, Dozer: 06 Nos, Water Tankers:28000 Lt & 10000 Lt total 04 & 03 numbers respectively.	

<sup>10-</sup> Details of violations observed during current inspection and compliance position of earlier violation pointed out: - Violations observed during Inspections under Rule 11(1).

Earlier violation pointed out have been complied. Four stars rated during self-appraisal. It's also validated after inspection.

Date: 04/04/2022

Shri Arun Kumar

Regional Controller of Mines.