# MCDR INSPECTION REPORT

# General

S.N.	Particulars	Details			
1	File No.	CHG/BLS/LST-49/38CHG02003			
2	Name of the Mine	Godadih Mahal No-2 Limestone Mine			
3	Date of Inspection	20/09/2021			
4	Name of Inspecting Officer	Shri Rudra N. Mishra (Senior Mining Geologist)			
5	Accompanying Mine Official with	<ol> <li>Shri Nitesh Raghuvanshi (Agent of Mines)</li> <li>Shri Subhash Singh, Mines Manager</li> </ol>			
	Designation Cofficer Cofficer				
6	Last date of Inspection& Officer	10/09/2020 & Shri R K Das (Sr. ACOM)			
7	Total Lease Area (Ha) with breakup	Non- forest – 95.899 hect.			
	of non-forest and forest land	Forest Land: 24.414 ha			
		Total Area: 120.313 ha			
8	Mine code	38CHG02003			
9	IBM Registration Number under rule 45 of MCDR,2017	IBM/4355/2011			
10	Name of the Lease, Address, Phone,	M/S Jindal Steel and Power Limited,			
	email and fax number	Post Box-16, Kharsia Road, Raigarh-496001			
		(Chhattisgarh)			
		Phone - +91 (0)7762-227001/02/03/04/05 Fax - +91 (0)7762-227021/22			
11	Village	Godadih Mahal No-2			
12	Taluka/Mandal	Tehsil: Masturi,			
13	District	Bilaspur			
14	Pin code	495551			
15	State	Chhattisgarh			
16	Post Office	Loharsi			
17	Nearest Police Station	Pachpedi			
18	Nearest Railway Station	Jairamnagar			
19	Date of Grant of Mining Lease	05/01/2017, 11/01/2017 to 10/01/2017 (50 years)			
20	Date of Execution	11/01/2017			
21	Date of opening of Mine	25/09/2018			
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	Shri Dinesh Kumar Sraogi			
	Address, phone, email, fax number	M/S Jindal Steel and Power Limited,			
	and date of appointment	Post Box-16, Kharsia Road,			
		Raigarh-496001 (Chhattisgarh)			

		Phone - +91 (0)7762-227001/02/03/04/05
		Fax - +91 (0)7762-227021/22
		Email-dks@jspl.com
		Date of appointment – 09.11.2012
26	Name of the Mine Agent with	Shri Nitesh Raghuvanshi (Agent of Mines)
	Address, phone, email, fax number	Godadih Mahal No-2 Limestone Mine
	and date of appointment	M/S Jindal Steel and Power Limited
	The same of the sa	Village- Godadih Mahal No-2,
		PO -Loharsi, Tehsil: Masturi,
		Distric- Bilaspur, Chhattisgarh
		Email: nitesh.raghuvanshi@jindalsteel.com
27	Name of the Mine Manager with	Shri Subhash Singh, Mines Manager
21	Address, phone, email, fax number	(1st Class Mines Manager Certificate holder)
	and date of appointment in mines	Godadih Mahal No-2 Limestone Mine
	and date of appointment in filmes	M/S Jindal Steel and Power Limited
		Village- Godadih Mahal No-2,
		PO -Loharsi, Tehsil: Masturi,
		Distric- Bilaspur, Chhattisgarh
		Email: subhash.singh@jindalsteel.com
		Date of appointment: 02/08/2021
		Phone No. 9109182879
28	Name of the Mining Engineer,	VL Pointed out.
	Qualification and total experience	
	with address, phone, email, fax	
	number and date of appointment in	
	the mine	
29	Whether Geologist and Mining	Yes,
	Engineer appointment in mines	Shri Saorav Shrivastava
	satisfy the rule 55 & carrying out	
	their duties as per rule 54 & 55	
	(MCDR 2017).	
30	Date of Approval of Mine	Date of Approval of Modified Mining Plan
	Plan/Modified Mine Plan with five-	15/02/2019.and valid up to 31st March 2021.
	year period and specific condition in	Proposal period 2018-19 to 2020-21.
	approval letter, if any.	
31	Date of Approval of Scheme of	Date of Approval of Review of Mining letter no-
	Mining/Modified Scheme of Mining	BSP/LST/MPLN/1241/2020 dated 21/10/2021
	with five- year period and specific	Proposal period 2021-22 to 2025-26
	condition in approval letter, if any.	- p
32	Mineral(s) granted in lease and	Limestone
52	approved for Mining	
33	Method of Mining (Opencast,	Opencast
	Underground)	Openeust
34		Fully Mechanized
34	Category (Fully Mechanized, Others	Tuny Mechanized
25	or Manual)	Contino
35	Captive/Non-Captive	Captive
36	Environmental Clearance	1.54 million tones
37	Status of Financial Assurance as per	MDPA Signed Performance Security submitted with
	rule 27 of MCDR, 2017	Chhattisgarh State Govt., Date of expiry: 06/01/2022

## **Exploration**

S.N.	Item	Proposals (2020-21)	Actual Work (2020-21)	Remarks	
1a	Backlog of previous year	09	09	Drilling was	
1b	Exploration over lease area for Geological axis 1 or 2.	39.025 ha	39.05 ha	stopped within ore Zone	
1c	Exploration Agency & Expenditure in Rupees during the year	Consultants, Rs. 30,36,022.00 Consultants, Rs. 30,36,022.00		Violation pointed out.	
1d	Balance area to be explored to bring Geological axis in 1 or 2.	NIL			
1e	Balance reserves as on 01.04.21	Under (121): 13 Under (211): 6.	3.53 million Tonnes 64 million Tonnes		
1f	General remarks of Inspecting officer on geology, exploration etc.	•			

## **Development**

S. N.	Item	Proposals (2020-21)	Actual Work (2020-21)	Remarks
2a	Location of Development w.r.t.	First bench (256-250	First bench (256-	
	lease area	mRL)	250 mRL)	
		Second bench (250-	Second bench	
		244 mRL) for Flux	(250-244 mRL) for	
		Grade	Flux Grade North	
		First bench (256-250	west of the pit.	
		mRL)		
		Second bench (250-		
		244 mRL) for		
		Cement Grade		
2b	Separate benches in topsoil	Yes	Yes	
	overburden and mineral (Rule 15)			
2c	Stripping ratio or ore to OB ratio	1:0.17	1:0.16	
2d	Quantity of topsoil generation in	14100 m <sup>3</sup>	2544.44 m <sup>3</sup>	
	$m^3$			
2e	Quantity of overburden generation			
	in m <sup>3</sup>	47000 m <sup>3</sup>	56860 m <sup>3</sup>	
2f	General remarks of Inspecting			
	officer on development of pit w.r.t			
	type of deposit etc.			

## $\underline{Exploitation}$

S.N	Item	Proposals (2020, 21)	Actual Work	Remarks
•		(2020-21)	(2020-21)	
3a	Number of pits proposed for	One	One	
	production			VL Pointed
3b	Quantity of ROM mineral	Total: 15,40,000 T	BF Grade:	out
	production proposed (2020-21)	BF Grade: 4,62,000T	240167.94 T	
		Cement Grade: 1078,000 T		
3c	Recovery of Salable/usable mineral	100% Saleable mineral	BF Grade:	
	from ROM production	Total: 15,40,000 T	240167.94 T	
		BF Grade: 4,62,000T		
		Cement Grade: 10,78,000 T		
3d	Quantity of mineral reject	Nil	Nil	
	generation			
3e	Grade of mineral reject generation	< 34% CaO	< 34% CaO	
	and threshold value declared	>4% MgO	>5% MgO	
3f	Quantity of sub-grade mineral	Nil	Nil	
	generation			
3g	Grade of sub-grade mineral	34% to 38%CaO	34% to	
	generation		38%CaO	
3h	Manual/Mechanized method	Mechanized	Mechanized	
	adopted for segregation from ROM			

3i	Any analysis or beneficiation study proposed & carried out for sub-	Not in Pro	pposal	Not in Proposal	
3j	grade mineral and reject Provision of drilling & blasting in mineral benches	Yes		Yes	
3k	Provision of mining machineries in mineral benches	Yes		Yes	
31	Whether height of benches in overburden and mineral suitable for method of mining proposed in MP/SOM	Bench He Bench wie benches	ight: 6 m dth: 18 m in ore	Bench height: 6 m, Bench width not maintained in the ore benches as per proposal.	VL Pointed out for bench width and wrong information furnished
3m	Total area covered under excavation /pits	Covered u workings:	under current 16.50ha	Covered under current workings: 3.315 ha	in total area put use on annual returns.
3n	Ore to OB ratio for the pit/mine during the year	1:0.17		1:0.00 as per annual returns	
30	Total area put in use under different heads at the end of year	workings: Reclaime 0.00 ha, S Soil: 0.84 Overburd Occupied buildings, welfare be 3.75 ha Other pur Pond):0.6 Green Be Total Are net area c calculatio	d /Rehabilitated: torage for Top ha en Dump: 4.60ha, by plant, residential, uildings and road:  pose (Settling 0 ha, lt: 7.25 ha a of land: 33.79 ha, onsiders for n of F.A 26.54 ha	Covered under current workings: 3.315 ha Occupied by plant, buildings, residential, welfare buildings and road: 0.55 ha Other purpose: 0.929 ha	
3p	Production of ROM in Tones mineral during last Five-years period, as Applicable	2016-17 2017-18 2018-19	1.54 million Tonnes 1.54 million Tonnes 1.54 million	0.00	
		2019-20 2020-21	Tonnes 1.54 million Tonnes Total: 15,40,000T BF Grade: 4,62,000T Cement Grade:	500 tonnes  240167.94 tonnes BF Grade, nil	
			1078,000 T	production of cement grade	

3q	General	remarks	of	inspecting	Method of mining is Open cast mechanised mining with
	officer on	method o	f mi	ning etc.	shovel and dumper combination. VL Pointed out for bench
			width and wrong information furnished in total area put use		
					on annual returns and nil production of cement grade.

## **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)	Proposal has been given in the approved document for the separate dumping of Top soil, OB/Waste and Mineral.	Zero OB removed as per annual return. Mineral stacked not as per proposed location.	VL pointed out
4b	Location of topsoil, OB & mineral reject dumps	Top Soil dumped along the 7.5 m in the boundary, In between the UTM Coordinates: N2410812 to N2410916 & E635986 to E636086  OB: 0.0635 million m³ N2410605 to N2410736 & E635726 to E635900. Mineral /Ore N2410966 to N2411040 & E634996 to E635056	Top Soil dumped along the 7.5 m in the boundary, OB generation: Nil Mineral stack not in proposed location	·
4c	Number of Dumps within lease area and outside lease area	Within lease: one Soil dump and one OB dump Outside Lease: Nil	One Soil Dump, Nil OB Dump	
4d	Location of Dumps w.r.t. ultimate pit limit (Rule 16)	Proposed beyond ultimate Pit limit	No waste dump on mine site.one soil dump within lease.	
4e	Number of Active & Alive dumps	02	01	
4f	Number of deed dumps	Nil	Nil	

4g	Number of dumps established	Nil	Nil	
4h	Whether Retaining wall or garland drain all along dumps are there	Yes, as per approved document garland drain will be constructed during FY 208-19	Not yet done VL Pointed out.	
4i	Length of Retaining wall or garland drain all along dump	As per approved document 1150m long garland drain	Not yet done	
4j	Number of settling ponds	01, 0.60ha area will be converted into settling pond.	Not yet done	
4k	Specific commends of inspecting officer on waste dump management	VL pointed out for not constructed garland drain, settling pond and mineral stack outside the proposed area.		

## 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	Area is premature for back filling.	Area is premature for back filling.	
5b	Area under backfilling of mined out area	NIL	NIL	
5c	Concurrent use of topsoil for restoration or rehabilitation of mined out area (Rule 32)	yes	yes	
5d	Total area fully reclaimed & rehabilitated during the year	NIL	NIL	
5e	General remarks of inspecting officer on backfilling, reclamation etc.	Area is premature fo	or back filling.	

## **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		Not submitted	
6b	Management of worked/mined out benches Area available for rehabilitation (Ha)			

	Afforestation done (ha)			
	· /			
	No. of saplings planted during the year	3.00 ha,		
	Cumulative no. of plants			
	Any other specific method of	6250 saplings	2560	
	rehabilitation		Saplings	
	Cost incurred on watch & care during			
	the year			
60	Compliance on reclamation and	NA	NA	
6c	Compliance on reclamation and rehabilitation by backfilling	INA	INA	
	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			
6d	Compliance of Rehabilitation of waste	NA	NA	
	land within lease			
	i) Afforestation			
	ii) Area rehabilitation			
	iii) Method of rehabilitation	D 11	_	
6e	Compliance of Environment monitoring	Proposal has	As per	
	(core zone & buffer zone)	been given in the approved	proposal	
		document for		
		regular		
		monitoring of		
		Ambient Air,		
		Water		
		Quality, Noise		
		Vibrations		
6f	General remarks of inspecting officer on		t for less than	50% plantation
	PMCP compliance & progressive closer			nission of yearly
	operations	PMCP Report i	n prescribed fo	rmat.

## **Mineral Conservation**

S.N.	Item	Proposals (2020-21)	Actual Work (2020-21)	Remarks
7a	ROM mineral dispatch or grade wise sorting within lease area		240167.94 tonnes BF Grade, nil production of cement grade	

7b	Method of grade-wise mineral sorting	Mechanical	Mechanical
	i.e. manual or mechanical	77.6	21015
7c	Different grade of mineral	BF Grade: 4,62,000T	240167.94
	sort out at mine	Cement Grade:	tonnes BF
		1078,000 T	Grade, Cement
			grade: Nil
7d	Any beneficiation process at	Only crushing at	Only crushing
	mines	Mine Site	at mine site
7e	General remarks of	Total ROM crushing	in different size and feed to the
	inspecting officer on Mineral	steel plant.	
	conservation & beneficiation		
	issues		

## **Environment**

S.N.	Item	<b>Proposals</b> (2020-21)	Actual Work (2020-21)	Remarks
8a	Separate removal and utilization of topsoil (Rule32)	Yes	Yes	VL pointed
8b	Concurrent use or storage of topsoil	Yes	Yes	out
8c	Separate dumps for overburden waste rock, rejects and fines (Rule 33)	Yes	No dumps of OB, Rejects and fines	
8d	Use of overburden, waste rock, rejects and fines dumps for restoring the land to its original use	Yes	No dumps of OB, Rejects and fines	
8e	Phased restoration, reclamation and rehabilitation of lands affected by mining operations (Pits, dumps etc.)	NA	NA	
8f	Baseline information on existence of plantation & additional plantation done (Rule 41)	3.00 HA 6250 Saplings	2560 saplings	
8g	Survival rate	Proposal not given	70%	
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	VL pointed out	for less than 50% plant	ation.

## **Compliance of Rule 45**

S. N.	Item	Comn	nents	Remarks
9a	Status of submission of monthly and Annual returns	MR Submitted: Au	g_2021	VL Pointed out for
	Timidal Totaliis	AR Submitted: 202	0-2021	wrong
9b	Scrutiny of Annual return for information on Mining Engineer, Geologist and Manager	Mining Engineer not appointed, VL Pointed out		information furnished in Annual
9c	Scrutiny of Annual return on land use pattern for area under pits, reclaimed area, dumps etc.	mosmproto information romanio,		return 2020-2021
9d	Scrutiny of Annual return on afforestation	2560 saplings, 70% survival, less than 50% plantation done		
9e	Scrutiny of Annual return on mineral reject generation (Grade & Quantity)	Nil Mineral Reject generation		
9f	Scrutiny of Annual return on ROM stock and/or grade ore	BF Grade: Opening stock - 500 tonne, Production: 240167.94 tonnes Closing stock: 90480.68 tonne Dispatch: 150187.26 tonnes		
9g	Scrutiny of Annual return on sale value, Ex. Mine price & production costs	Ex Mine Price: Rs 448.12 Cost of Production: Rs 321.23 DMF, NMET not included in cost of production. VL Pointed out		
9i	Scrutiny of Annual return on Fixed assets	Rs – Zero as per Annual Return		
9k. Mac	Scrutiny of Annual return on mining hineries	Type of Machinery	Capacity of each Unit	No. of Unit
		Back Hoe	1.170CUM	04
		Others	1.500	04
		Incomplete inform	ation furnished VL	Pointed out

Details of Violations observed during current inspection: -

नियम	उल्लंघन के प्रकार का विस्तृत ब्यौरा
Rule 11(1)	The following deviations have been found in the mine from approved Scheme of
	Mining Plan vide letter no- Bilaspur/LST/MPLN-1189/2018 Dated 15/02/2019 for
	the period of 2018-19 to 2020-21.
	1) The production Proposal given in 2020-21 was BF Grade: 4,62,000T & Cement
	Grade: 1078,000 T, total production 15,40,000 T but against that BF grade
	240167.94 tonnes produce and zero production of Cement Grade. Only dispatched
	150187.26 tonnes of BF Grade.
	2) During inspection, it was observed substantial number of bore holes drilled were
	stopped within ore zone.
	3) Proposal of Quantity of overburden generation in 47000 m <sup>3</sup> whereas actual 56860
	m <sup>3</sup> Overburden generated but not bumped in the proposed location as per approved
	mining plan.

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	4) Proposed bench width 18 meter in ore zone but not maintained the same bench width in ore zone.
	5) During inspection, it was observed that more than one lakh tonne of limestone
	stacked of different sizes 0-3mm, 3mm to 10mm and 10mm to 40mm which is not
	mentioned in the approved plan and limestone stack yard in the mineralized zone
	near the pit whereas proposal was not given in the approved document.
	6) Two Crusher installed in the mineralized zone near the pit area where as the
	Proposal of crusher was given in different location.
	6) Afforestation: There was a proposal given for plantation of 6250 no of plants
	whereas less than 50 % of plantation done only 2560 no of plants have been planted.
	7) The proposal given for the 02 number of settling pond of 36000cum capacity and
	garland drain of 1150m not completed.
	8) Recovery factor of limestone 70% to 80% considered for the reserve estimation
	whereas the actual recover till date is approx. 100% recovery only mining loss may
	be considered.
Rule 13(2)	The benches in overburden have not been kept sufficiently in advance and their
	workings are interfering with the working of ore or minerals.
Rule 14(4)	The ground selected for dumping of overburden, waste material, the sub-grade or
1(1)	non-saleable ores or minerals have not been proved for absence or presence of
	underlying mineral deposits before it is brought into use for dumping.
Rule - 19	Machinery and plant(1) Where heavy earth moving machinery is used in mines,
Kule - 19	
	the holder of a mining lease shall maintain log books duly authenticated by the
	manager or mining engineer of such mines in respect of each machine showing date-
	wise account of hours worked, hours not worked, reasons for non-working,
	consumption of fuel or energy and lubricants and output of the machine during the
	corresponding working hours. (2) The summary of operation of each machine shall
	be recorded in the log book at the end of each month bringing out the percentage
	availability and percentage utilisation of the machine, average hourly performance
	and average fuel or energy consumption per hour. (3) The log books may be
	maintained in electronic form or in hard copy and shall be made available to the
	authorized officer on demand.
	authorized officer on demand.
	The Same was not produced for verification on demand.
26(2)	Yearly report before 1st day of July every year setting forth the extent of protective
	and rehabilitative works carried out as envisaged in the approved mine closure plan,
	has not been submitted to competent authorities.
Rule 33	Updated print copy of the surface geological plan and sections has not been
	submitted before 30 <sup>th</sup> day of June for the year 2020-2021.
Rule 45	Discrepancies are observed in the annual return submitted for the year 2020-21
(5) (5)	1) The total area put to use as submitted in the return is also found incorrect.
(5) (c)	2) Part-II A 1. Value of fixed assets in (Rs) mentioned -Zero, it's not correct.
	3) Part -V Section -3 for limestone reserve and Resources estimated end of the year
	wrongly mentioned.
	4) Part -V Section -4 Overburden/waste generated nil during the year which is not
	correct.
	5) Part -V Section -5/6/8/9: Type and aggregate Horse power of Machinery
	incomplete information furnished.
<u> </u>	meomplete information runninet.

	<ul> <li>6) Part -VI: Opening stock and closing stock of ROM ore at Mine head and Ex Mine Price is not correct.</li> <li>7) Cost of production per tones of Limestone Rs 321.23 is lesser than Ex mine price of Limestone Rs 448.12. In case of captive mine Ex mine price is considered equal to cost of Production. Needs to be rectified</li> </ul>
Rule 46	Notice of certain appointment—Appointment notice of Agent of Mines has not been sent in prescribed format to the authorised officer within fifteen days from the date of such appointments.
Rule 54	ROM register, Sub grade register, Mineral process register, waste generation register which are supposed to be kept in the mine for verification during inspection but were not shown to the undersigned. In this regard you are advised to furnish the above for verification
Rule 55	whole time Mining Engineer has not been employed in the mines.

Also, Star rating of mines validated

Date: 24/09/2021

Name: Rudra N Mishra Designation: Senior Mining Geologist.