

MCDR Inspection Report 2022-23

1) Name of Inspecting officer:	Shri Prem Prakash
2) Designation	RCOM
3) Accompanying mine official with designation	Shri Nitesh Raghuvanshi, Mine Agent
4) Date of Inspection	11.01.2024
5) Date of Previous Inspection	13.12.2022

I. GENERAL INFORMATION

Sl. No	Particulars	Details
1	Name of the Mine	Godadih Mahal No.2 Limestone Mines
2	Total Lease Area (Ha) with breakup of Non-forest and forest land	Total Area- 120.313 Ha, Forest Area- 24.414 Ha. Non- Forest Area-95.899 Ha
3	Mine_Code	38CHG02003
4	IBM Registration Number under rule 45 of MCDR, 1988	IBM/4355/2011
5	Name of the lessee, Address, phone, email and fax number	Jindal Steel & Power Ltd. Vill+P.O- Godadih, Tehsil- Masturi, Dist Bilaspur(C.G) 495551
6	Village	Godadih
7	Taluka/Mandal	Masturi
8	District	Bilaspur
9	Pin Code	495551
10	State	Chhattisgarh
11	Post office	Godadih
12	Nearest police station	Pachpedi
13	Nearest Railway station	Jairamnagar
14	Date of Grant of Mining Lease	05.01.2017
15	Date of Execution	07.01.2017
16	Date of opening of Mine	25.09.2018
17	Date of first Renewal, if applicable and its period & expiry	NA
18	Date of second Renewal, if applicable and its period & expiry	NA
19	Date of submission of renewal application if Mining Operations are continuing under deemed extension	NA
20	Name of the Nominated Owner with Address, phone, email, fax number and date of appointment	Shri Sabyasachi Bandyopadhyay Jindal Steel & Power Limited Post Box no.16, Kharsia Road, Raigarh, District Raigarh, Chhattisgarh- 496001 07762 227001, Fax- 07762-227002 e-mail- ed_ic_secretariat.ang@jindalsteel.com Date of appointment-11.08.2023.

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21	Name of the Mine Agent with Address, phone, email, fax number and date of appointment	Shri Nitesh Raghuvanshi, Jindal Steel & Power Limited Godadih Mahal No.2, Taluka -Masturi, District -Bilaspur, Chhattisgarh- 495551. 7880009783 nitesh.raghuvanshi@jindalsteel.com Date of appointment-15.05.2021.
22	Name of the Mines Manager with Address, phone, email, fax number and date of appointment in mines	Shri Nitesh Raghuvanshi, Jindal Steel & Power Limited Godadih Mahal No.2, Taluka- Masturi, District- Bilaspur, Chhattisgarh- 495551. 7880009783 nitesh.raghuvanshi@jindalsteel.com Date of appointment-16.10.2023
23	Name of the Mining Engineer, Qualification and total experience with Address, phone, email, fax number and date of appointment in mine	Shri Amit Kumar Gupta, B.Tech. Mining (2 nd class) Mines Manager certificate holder, Exp. >6 Years, Godadih Mahal No.2, Limestone Mine Jindal Steel & Power, Village- Godadih, Tehsil - Masturi, District Bilaspur, Chhattisgarh- 495551. 7400996419, amit.gupta5@jindalsteel.com Date of appointment- 10.05.2023
24	Name of the Geologist , Qualification and total experience with Address, phone, email, fax number and date of appointment in mine	Shri Saorav Shrivastava, M.Tech (Applied Geology) Exp.>18 Years, Godadih Mahal No.2, Limestone Mine Jindal Steel & Power, Village -Godadih, Tehsil - Masturi, District- Bilaspur, Chhattisgarh- 495551. 8085064799, saorav.shrivastava@jindalsteel.com Date of appointment-14.01.2020
25	Whether Geologist and Mining Engineer appointed in mines satisfy the rule 42 & carrying out their duties as per rule 43 & 44.	Yes
26	Date of Approval of Mining Plan/Modified Mining Plan with five-year period and specific condition in approval letter, if any.	Modification in Review of Mining Plan. Letter no. Bilaspur/chup/khayu-1307/2021- Raipur dated 28.01.2022 -R/o IBM Raipur. Proposal Period From-2021-2022 to 2025-2026 (for 5 years)
27	Date of Approval of Scheme of Mining/Modified Scheme of Mining with five-year period and specific condition in approval letter, if any.	NA
28	Mineral(s) granted in lease and proved for mining	Limestone
29	Method of Mining(Opencast, Underground)	Opencast
30	Category (Fully Mechanised, Others or Manual)	Fully Mechanised
31	Captive/Non Captive	Captive

1/350917/2024 32	Environmental Clearance	1.54 million tones
33	Status of Financial Assurance as per rule 27 of MCDR, 2017	MDPA Signed Performance Security submitted with Chhattisgarh State Govt., Date of expiry: 06/01/2027

II. SCIENTIFIC MINING

[Data in respect of financial year (2022-23) or cumulative, as applicable]

Sl. No	Item	Proposals (2022-23)	Actual Work (2022-23)	Remarks
A. EXPLORATION: -				
1a	Backlog of Previous Year	Nil	Nil	
1b	Exploration Over Lease area for Geological Axis 1 or 2	2022-23-10 boreholes of 3000 mtrs.	Nil	10 nos. of pending boreholes of FY 2022-23 have been completed in FY 2023-24.
1c	Exploration Agencies and Expenditure in lakh rupees during the year	G1	Under G1 Category: 120.3131 Ha	Entire lease area has been explored at G1 level as per the approved Modification of Review of Mining Plan
1d	Balance area to be explored to bring Geological axis 1 or 2	No proposal	Nil	Entire ML area explored in G1 level. However, 10 BHs proposed in FY 2022-23 to know the depth continuity of ore body.
1e	Balance reserves as on 01/04/2023	Under (111): 42.92 Million Tonnes Under (121): 3.86 Million Tonnes		As per the AR 2022-23
1f	General remarks of inspecting officer on geology, exploration etc.	Entire potential mineralized area has been explored under G1 level. However, 10 Nos. boreholes were drilled in FY 2023-24 against the proposal of 10 boreholes during the plan period up to 2022-23 to know the depth continuity of ore body.		

Sl. No	Item	Proposals (2022-23)	Actual Work (2022-23)	Remarks
B. DEVELOPMENT: -				
2a	Location of development w.r.t. lease area	Development proposed in one (01) pit namely Pit No.01	Carried out within the proposed area	
2b	Separate benches in topsoil, overburden and mineral	Separate benches proposed in OB & mineral	Separate benches were maintained in OB & mineral	1 bench in Soil/OB 3 benches in Limestone
2c	Stripping ratio or ore to OB ratio	1:0.04	1:0.11	Tonne:CuM
2d	Quantity of topsoil generation in m3	No proposal	Nil	
2e	Quantity of overburden generation in m3	74526 m3	76135 m3	Advance development of top benches

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2f	General remarks of inspecting officer on development of pit w.r.t. type of deposit etc.	Production and development were carried out within the proposed area.
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Sl. No	Item	Proposals (2022-23)	Actual Work (2022-23)	Remarks
C. EXPLOITATION: -				
3a	Number of Pit Proposed for Production	01pit proposed	Working carried out in 01pit only	
3b	Quantity of ROM mineral production proposed	1540000	670962.11	Less production as per needs of captive plant
3c	Recovery of Sailable/ Usable Mineral from ROM Production	100%	100%	
3d	Quantity of mineral reject generation	No proposal	Nil	
3e	Grade of mineral reject generation and threshold value declared	No proposal	Nil	
3f	Quantity of sub-grade mineral generation	No proposal	Nil	
3g	Grade of sub-grade mineral generation	No proposal	--	
3h	Manual / Mechanised method adopted for segregating from ROM	Mechanized method proposed for segregating from ROM	Mechanized method adopted for segregating from ROM	Blasted ROM from the mines is fed to the crusher (320 TPH crusher)
3i	Any analysis or beneficiation study proposed & carried out for sub-grade mineral and reject	No proposal	No such study carried out	
3j	Provision of drilling & blasting in mineral benches	Deep hole drilling and Blasting proposed in mineral benches	Deep hole drilling and blasting was carried out in mineral benches as proposed	Drill machine -104 mm dia Spacing-3.0 mt., burden-2.5 mt., depth-6.6 mt. Slurry / Emulsion explosive in cartridge form with NONEL initiation system is used
3k	Provision of mining machineries in mineral benches	Yes, HEMMs	HEMMs deployed	
3l	Whether height of benches in overburden and mineral suitable for method of mining proposed in MP/SOM	Bench Height proposals: In OB 1-3m In Mineral-6m	Bench height and width have been maintained as per proposal.	

1/350917/2024	3m	Total area covered under excavation/pits	17.83 Ha. at the end of plan period 2025-26	About 9 Ha. At the end of reporting year 2022-23	
	3n	Ore to OB ratio for the pit/mine during the year	1:0.04	1:0.11	Tonne: CuM
	3o	Total area put in use under different heads at the end of year	26.23 Ha. up to the end of plan period 2025-26	About 15 Ha. up to end of FY 2022-23	
	3p	Production of ROM mineral during last five-year period, as applicable	2018-19: 15,40,000 2019-20: 15,40,000 2020-21: 15,40,000 2021-22: 15,40,000 2022-23: 15,40,000	2018-19: Nil 2019-20: 500 2020-21: 2,40,168.00 2021-22: 6,27,358.00 2022-23: 6,70,962.11	All units in MT (Metric Tonnes) As per the AR submitted
	3q	General remarks of inspecting officer on method of mining etc.	Open cast working being carried out by deployment of HEMM with the help of drilling & blasting.		

Sl. No	Item	Proposals (2022-23)	Actual Work (2022-23)	Remarks
D. SOLID WASTE MANAGEMENT - DUMPING: -				
4a	Separate Dumping of Topsoil, OB and Mineral Rejects (Rule 32,33)	Separate dumping of Waste /OB proposed	Separate dumping for Waste /OB carried out	
4b	Location of Topsoil, OB and Mineral Rejects Dumps	Waste dump location Dump-1 21°47'39.61" N 82°18'47.34" E	Waste dump is made at the earmarked area	
4c	Number of Dumps within Lease & Outside Lease area	01	01	
4d	Location of Dumps, within Ultimate Pit Limit (Rule-16)	Proposed beyond ultimate pit limit	Outside UPL	
4e	Number of Active & Alive Dumps	01	01	
4f	No of Dead Dumps	0	0	
4g	No of Dumps Established	0	0	
4h	Whether Retaining Wall or Garland drain along Dumps are there	Yes	Yes	
4i	Length of Retaining Wall or Garland drain along Dumps	Garland drain-1000 m Retaining Wall- 700m	Constructed as proposed	
4j	No. of Settling tanks	1	1	
4k	Specific comments of inspecting officer on waste dump management	Environmental protection measures have been constructed/maintained around the waste dump.		

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Sl. No	Item	Proposals (2022-23)	Actual Work (2022-23)	Remarks
E. SOLID WASTE MANAGEMENT - BACKFILLING: -				
5a	Status of part or full extraction of mineral from mined out area before starting backfilling	No proposal	Nil	No area is mined out fully for backfilling purposes
5b	Area under backfilling of mined out area	No proposal	Nil	-do-
5c	Concurrent use of topsoil for restoration or rehabilitation of mined out area (Rule 32)	No proposal	Nil	-do-
5d	Total area fully reclaimed and rehabilitated	No proposal	Nil	-do-
5e	General remarks of inspecting officer on backfilling, reclamation etc.	The area is not fully exhausted for backfilling, reclamation etc. purposes.		

Sl. No	Item	Proposals (2022-23)	Actual Work (2022-23)	Remarks
F. PROGRESSIVE MINE CLOSURE PLAN: -				
6a	Whether Annual report on PMCP submitted on time and correctly - Rule 26(2).	To be submitted before 01st July every year	PMCP report received in time	Annual return submitted on 28.06.2023
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 year	No proposal	Nil	No area is mined out at present
6c	Compliance on reclamation and rehabilitation by backfilling	No proposal	Nil	No backfilling proposal

1/35091/2024	<p>i) Voids available for backfilling (L X B X D)</p> <p>ii) Void filled by waste/tailings</p> <p>iii) Afforestation on the backfilled area</p> <p>iv) Rehabilitation by making water reservoir</p> <p>v) Any other specific means</p>			
6d	<p>Compliance of Rehabilitation of waste land within lease</p> <p>i) Afforestation</p> <p>ii) Area rehabilitated (ha)</p> <p>iii) Method of rehabilitation</p>	<p>i)-3000 Plants</p> <p>ii) 1.5 Ha</p> <p>iii) By Plantation</p>	<p>WML-698 saplings</p> <p>OML- 2509 saplings</p> <p>Total: - 3207 saplings</p>	<p>In FY 2021-22, against the proposal of 3000 samplings 6189 plants were planted</p>
6e	<p>Compliance of Environmental monitoring (core zone & buffer zone)</p>	<p>Environmental monitoring of air, water & noise proposed</p>	<p>Environmental monitoring of air, water & noise was carried out</p>	<p>All values of environment monitoring were within permissible limits</p>
6f	<p>General remarks of inspecting officer on PMCP compliance & progressive closure operations</p>	<p>Annual PMCP report has been submitted. No any part of ML area got fully exhausted for backfilling purposes.</p>		

Sl. No	Item	Proposals (2022-23)	Actual Work (2022-23)	Remarks
G. MINERAL CONSERVATION: -				
7a	ROM mineral dispatch or grade wise sorting within lease area	Processed mineral dispatch after crushing and screening	Processed mineral dispatch after crushing and screening	
7b	Method of Grade-wise mineral sorting i.e. manual or mechanical	Mechanized method proposed	Mechanized method adopted	
7c	Different grade of mineral sorted out at mines	No proposal	Nil	
7d	Any beneficiation process at mines	No proposal	No beneficiation is done in mines except crushing	Only crushing and screening at the mine site
7e	General remarks of inspecting officer on Mineral conservation & beneficiation issues	Processed mineral dispatch after crushing and screening.		

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Sl. No	Item	Proposals (2022-23)	Actual Work (2022-23)	Remarks
H. ENVIRONMENT: -				
8a	Separate removal and utilization of topsoil	No proposal	Nil	
8b	Concurrent use or storage of topsoil	No proposal	Nil	No topsoil generated
8c	Separate dumps for overburden, waste rock, rejects and fines	Separate dumps for overburden/waste proposed	Separate dumps maintained	
8d	Use of overburden, waste rock, rejects and fines dumps for restoring the land to its original use	No proposal	Nil	
8e	Phased restoration, reclamation and rehabilitation of lands affected by mining operations (Pits, dumps etc)	No proposal	Nil	
8f	Baseline information on existence of plantation & additional plantation done	3000 saplings	WML-698 saplings OML- 2509 saplings Total: - 3207 saplings	In FY 2021-22, against the proposal of 3000 samplings 6189 plants were planted
8g	Survival rate	70%	WML-70 % OML- 65 %	
8h	Water sprinkling on roads to control airborne dust	Water sprinkling on haul roads proposed to suppress the dust	Continuous water sprinkling done on haul roads by water tankers	
8i	General remarks of inspecting officer on aesthetic beauty in and around mines area	Aesthetic beauty in & around the mine area was good.		

Sl. No	Item	Comments		Remarks
I. COMPLIANCE OF RULE-45: -				
9a	Status of Submission of Monthly & Annual Returns	MR being submitted regularly AR Submitted up to = FY 2022-23		
Sl. No	Item	Details Given in A.R	Observation of I/Officer	Remarks
9b	Scrutiny of Annual return for information on Mining Engineer, Geologist and Manager	Manager- Subhash Singh Geologist- Saorav Shrivastava Mining Engineer- Pramod Kumar	Employed	
9c	Scrutiny of Annual return on land use pattern for area under	14.70 Ha.	14.70 Ha.	

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9d	Scrutiny of Annual return on afforestation	Within Mining Lease- 698 Nos. @ 70% Survival Outside Mining Lease- 2509 Nos. @ 65% Survival	Within Mining Lease- 698 Nos. @ 70% Survival Outside Mining Lease- 2509 Nos. @ 65% Survival	
9e	Scrutiny of Annual return on mineral reject generation (Grade & quantity)	Nil	No generation of mineral rejects reported	
9f	Scrutiny of Annual return on ROM stock and/or graded ore	ROM: in Tonne Opening-0.00 Production-670962.11 Closing-0.00	ROM: in Tonne Opening-0.00 Production-670962.11 Closing-0.00	
9g	Scrutiny of Annual return on sale value, Ex. Mine price & production cost	Ex. Mine price and cost of production-Rs. 459.30/Tonne Sale value- Nil	Captive consumption	
9i	Scrutiny of Annual return on fixed assets	Rs. 1075882399 including land, building, Plant and Machinery, etc.	Rs. 1075882399 including land, building, Plant and Machinery, etc.	
9k	Scrutiny of Annual return on mining machineries	Back Hoe -4 Nos. Tipper-11 No. Drill Machine-2 Nos. Water tanker-1 No. Dozer-1 No. Crusher- 1 No.	Back Hoe -4 Nos. Tipper-11 No. Drill Machine-2 Nos. Water tanker-1 No. Dozer-1 No. Crusher- 1 No.	

10- Details of violations observed during current inspection: -No serious violation was observed after current inspection.

प्रेम प्रकाश / Prem Prakash
क्षेत्रीय खान नियंत्रक / Regional Controller of Mines
भारतीय खान ब्यूरो, रायपुर / Indian Bureau of Mines, Raipur