

MCDR INSPECTION REPORT-2019-2020**1.0 GENERAL**

SN	Particulars	Details
1	Name of inspecting office & designation	Shri Rajesh Das Asst. Mining Geologist, Indian Bureau of Mines, Raipur.
2	Accompanying Mine Official with Designation	Shri Rajesh Kumar – Mine’s Manager & Mining Engineer Shri Saorav Shrivastava – Mine Geologist Shri Mukesh Kumar Singh – Mine’s Surveyor Shri Sukhdeo Salam-QP & EMD
3	Date of inspection	10.09.2020
4	Name of the Mine	Godadih Mahal No.2 Limestone Mine
5	Total Lease Area (Ha) with breakup of Non-forest and forest land	Total area – 120.313 Ha Non-forest area – 95.899 Ha Forest area – 24.414 Ha.
6	Mine Code	38CHG02003
7	IBM Registration Number under rule 45 of MCDR, 1988	IMB/4355/2011
8	Name of the lessee, Address, phone, email and fax number	M/s Jindal Steel & Power Limited, O.P. Jindal Marg ,Delhi Road, Hissar, PIN-125005.
9	Village	GodadihMahal No.2
10	Taluka/Mandal /District	Taluka-Masturi, Dist-Bilaspur
11	State	Chhattisgarh
12	Post office & PIN	Godadih, PIN- 495551
13	Nearest police station	Pachpedi
14	Nearest Railway station	Jairam Nagar, Bilaspur
15	Date of Grant of Mining Lease	05.01.2017
16	Date of Execution	07.01.2017
17	Date of opening of Mine	25.09.2018
18	Date of first Renewal, if applicable and its period & expiry	NA
19	Date of second Renewal, if applicable and its period & expiry	NA
20	Date of submission of renewal application if Mining Operations are continuing under deemed extension	NA
21	Name of the Nominated Owner with Address, phone, email, fax number and date of appointment	Shri D.K. Saraogi Jindal Steel & Power Limited Post Box no.16, Kharsia Road, Raigarh, District Raigarh, Chhattisgarh- 496001 07762 227001, Fax- 07762-227002 e-mail-dks@jspl.com. Date of appointment-09.11.2012.
22	Name of the Mine Agent with Address, phone, email, fax number and date of appointment	Shri U P Singh , Jindal Steel & Power Limited 13 km stone, Mandir Hasaud , Raipur. 8827478411 up.singh@rpr.jspl.com Date of appointment-23.03.2020.
23	Name of the Mines Manager with Address, phone, email, fax number	Shri Rajesh Kumar, Jindal Steel & Power Limited

	and date of appointment in mines	GodadihMahal No.2, TalukaMasturi, District Bilaspur, Chhattisgarh- 495551. 9109137681, rajesh_kumar@jspl.com . Date of appointment-28.08.2018.
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24	Name of the Mining Engineer, Qualification and total experience with Address, phone, email, fax number and date of appointment in mine	Shri Rajesh Kumar B.E. Mining (1 st class) Mines Manager certificate holder, Exp. 24 Years, GodadihMahal No.2, Limestone Mine Jindal Steel & Power Limited, Village Godadih, Tehsil Masturi, District Bilaspur, Chhattisgarh- 495551. 9109137681, rajesh_kumar@jspl.com . Date of appointment-28.08.2018
25	Whether Geologist and Mining Engineer appointed in mines satisfy the rule 55& carrying out their duties as per rule 56&57.	Yes. 1. Geologist Shri SaoravShrivastava, M.tech (Applied Geology) Exp.>15 Years, GodadihMahal No.2, Limestone Mine Jindal Steel & Power Limited, Village Godadih, Tehsil Masturi, District Bilaspur, Chhattisgarh- 495551. 8085064799, saorav.shrivastava@jspl.com Date of appointment-14.01.2020 2. Mining Engineer Shri Rajesh Kumar B.E. Mining (1 st class) Mines Manager certificate holder, Exp. 24 Years, GodadihMahal No.2, Limestone Mine Jindal Steel & Power Limited, Village Godadih, Tehsil Masturi, District Bilaspur, Chhattisgarh- 495551. 9109137681, rajesh_kumar@jspl.com . Date of appointment-28.08.2018
26	Date of Approval of Mining Plan/Modified Mining Plan with five-year period and specific condition in approval letter, if any.	Modified Mining Plan- 15.02.2019. Plan period From 2016-17 to 2020-21. Proposal period from 2018-19 to 2020-21.
27	Date of Approval of Scheme of Mining/Modified Scheme of Mining with five-year period and specific condition in approval letter, if any.	Modified scheme of Mining. Bilaspur/chup/khayu-1189/2018-Raipur/1413 dated 15.02.2019 –R/o IBM Raipur. From-2018-2019 to 2020-2021(for 3 years)
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
32	Existing EC Limit and validity	1.54 M.T and validity is up to 01.09.2022. The validity of EC will be amended as per the availability of reserves. Lease period is from 11.01.2017 to 10.01.2067.
33	Status of Financial Assurance as per rule 27 of MCDR, 2017	Rs. 16,16,500/- in form of BG, Validity from 06.01.2017 to 06.01.2022.

Scientific Mining: Compliance of proposals of approved mining plan/scheme of mining. –

1.0 Exploration

SN	Item	Proposals	Actual work	Remarks
1a	Backlog of previous year	09	Nil	
1b	Exploration over lease area for Geological axis 1 or 2.	09	Nil	Exploration carried out in 2017-18 Under G1 Category:49.22 Ha.
1c	Exploration Agency & Expenditure in lakh Rupees during the year.	Expenditure-N A	Nil Ha	Bore hole started in may'20
1d	Balance area to be explored to bring Geological axis in 1 or 2	Under G1 Category:35.545 Ha in 2019-2020 Under G2 category: Remaining 35.545 Ha to G1 in 2020-2021. Under G3 category: N.A Under G4 Category: N.A Non- Mineralised: N.A	Nil achievement	08 bore holes completed in FY 20-21 out of 18 bore holes in 2019-20 & 2020-21
1e	Balance reserves as on 01.04.2020 (in Million Tonnes)	Under (111): 21.67 Million Tonnes Under (121): N.A Million Tonnes Under (122): 19.24 Million Tonnes Under (211): 10.81	Under (111): 21.6695 Million Tonnes Under (121): N.A Million Tonnes Under (122): Nil Million Tonnes Under (211): Nil	Open cast method of mechanized mining commenced on 04.03.2020 by way of removal of overburden. Total production in FY 2019-2020 was 500 tons.
1f	General remarks of inspecting officer on geology, exploration etc.	The lease area is broadly explored in G1 and G2 scale but still in filling bore holes 09 nos proposed in 2019-20 & 2020-21 but no drilling done in 2019-20 and 08 bore holes reported in 2020-21.The deposit is flat and stratified deposit.		

2.0 Development

SN	Item	Proposals	Actual work	Remarks
2a	Location of development w.r.t.	Latitude-21	. Soil: N-	Mining

	lease area (Range in UTM/Local Coordinate/Plot No./Location)	47°32.63" to 21 48' 20.52" Longitudes-82 17°54.35" to 82 19' 14.66" Toposheet No-64 K/5	21°48'19.99" to 21°48'22.17" E- 82°18' 0.20".to 82°18' 3.61" in Safety Zone	commenced on 04.03.2020 by way of removal of overburden
2b	Separate benches in topsoil, overburden and mineral (Rule 13)	Mineral-02 (0.5 to 4.5 m. height)	01	
2c	Stripping ratio or ore to OB ratio	1:0.17	1:0.17	
2d	Quantity of topsoil generation in m3	8530	Nil	
2e	Quantity of overburden generation in m3	28436	2955m ³	
2f	General remarks of inspecting officer on development of pit w.r.t. type of deposit etc.	Mining commenced on 04.03.2020 by way of removal of overburden and production reported 500 tons with nil dispatch.		

3.0 Exploitation

SN	Item	Proposals	Actual work	Remarks
3a	Number of pits proposed for production	01	01	
3b	Quantity of ROM mineral production proposed	15,40,000 tonnes	500 tons	
3c	Recovery of saleable/usable mineral from ROM production	100%	500 tons	
3d	Quantity of mineral reject generation	0	0	
3e	Grade of mineral reject generation and threshold value declared	NA	NA	
3f	Quantity of sub-grade mineral generation	NA	NA	
3g	Grade of sub-grade mineral generation	NA	NA	
3h	Manual / Mechanised method adopted for segregating from ROM	Mechanized	Mechanized	
3i	Any analysis or beneficiation study proposed & carried out for sub-grade mineral and reject	Core sample analysis of 09 bore holes	. Nil	Results received of 04 boreholes (170m out of 460 m drilled in 09 boreholes).
3j	Provision of drilling & blasting in mineral benches	Yes	To be followed as per approved modified mining plan.	
3k	Provision of mining machineries in mineral benches	Yes	To be followed as per approved modified mining plan.	

3l	Whether height of benches in overburden and mineral suitable for method of mining proposed in MP/SOM	Yes In O/B 0.5 to 4.5 m and Mineral-6m	To be followed as per approved modified mining plan.	
3m	Total area covered under excavation/pits	3.208 Ha	0.385Ha	
3n	Ore to OB ratio for the pit/mine during the year	1:0.17	1:0.17	
3o	Total area put in use under different heads at the end of year	20.705 Ha	2.999 Ha	
3p	Production of ROM mineral during last five-year period, as applicable (in Metric Tonnes)	Yr- 2014-15 to 2019-20 is 1540000 Metric Tonnes/year	Yr- 2014-15: NIL Yr- 2015-16: NIL Yr- 2016-17: NIL Yr- 2017-18: NIL Yr- 2018-19: NIL Yr. 2019-20: 500 tons	
3q	General remarks of inspecting officer on method of mining etc.	Mining commenced on 04.03.2020 by way of removal of overburden and production reported 500 tons with nil dispatch.		

4.0 Solid Waste Management-Dumping

SN	Item	Proposals	Actual work	Remarks
4a	Separate dumping of topsoil, OB & mineral reject (Rule 36, 37)	Yes Top soil - .0558 million cum & O/B -0.0522 million cum	Nil	
4b	Location of topsoil, OB & mineral reject dumps (Range in UTM/Local Coordinate/Plot No./Location)	Soil: 21°47'46.00" 82°18'55.35" OB: 21°47'36.62" 82°18'47.61"	Current status Soil: N- 21°48'19.99" to 21°48'22.17" E- 82°18' 0.20".to 82°18' 3.61" in Safety Zone OB-Negligible and dumped near working faces	
4c	Number of dumps within lease area and outside lease area	02 within lease area.	NA	
4d	Location of dumps w.r.t. ultimate pit limit (Rule 14)	Soil: 21°47'46.00" 82°18'55.35" OB: 21°47'36.62" 82°18'47.61" Sub-grade: 21°47'48.92" 82°18'58.69"	Dumping and stacking is mostly done near working faces.	
4e	Number of active & alive dumps	02	Nil	
4f	Number of dead dumps	NA	NA	
4g	Number of dumps stabilised	NA	NA	
4h	Whether Retaining wall or garland	NIL	NIL	Mining

	drain all along dumps are there			commenced on 04.03.2020
4i	Length of Retaining wall or garland drain all along dump	Garland drain-400 m	NiL	
4j	Number of settling ponds	0.6 ha	NIL	
4k	Specific comments of inspecting officer on waste dump management	No major dump observed.		

5.0 Solid Waste Management-Backfilling

SN	Item	Proposals	Actual work	Remarks
5a	Status on part or full extraction of mineral from mined out area before starting backfilling	NA	NA	
5b	Area under backfilling of mined out area	NA	NA	
5c	Concurrent use of topsoil for restoration or rehabilitation of mined out area (Rule 36)	NA	NA	
5d	Total area fully reclaimed & rehabilitated	NA	NA	
5e	General remarks of inspecting officer on backfilling, reclamation etc	Area not matured for backfilling.		

6.0 Progressive Mine Closure Plan

SN	Item	Proposals	Actual work	Remarks
6a	Whether Annual report on PMCP submitted on time and correctly - Rule 23. Details should be given in the format as given in Annexure-20.	2525no afforestation	2529 nos	
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.	NA 2.40Ha 2525 saplings 5050 N A	 1.317 Ha 2529 saplings 2529 saplings Approx Rs.13.57Lakh	
6c	Compliance on reclamation and rehabilitation by backfilling i) Voids available for backfilling (L X B X D) ii) Void filled by	NA NA	N.A	

	waste/tailings iii) Afforestation on the backfilled area iv) Rehabilitation by making water reservoir v) Any other specific means	NA NA NA		
6d	Compliance of Rehabilitation of waste land within lease i) Afforestation ii) Area rehabilitated (ha) iii) Method of rehabilitation	NA	NA	
6e	Compliance of Environmental monitoring (core zone & buffer zone)	Monitoring of environmental attributes for a season period as soon as mine is put into operation.	Annual report submitted on 16.03.2020	
6f	General remarks of inspecting officer on PMCP compliance & progressive	Broadly as per proposal.		

7.0 Mineral Conservation

SN	Item	Proposals	Actual work	Remarks
7a	ROM Mineral dispatch or grade-wise sorting within lease area	1.54 million tonnes	BF grade-500 tons sorting in the lease area.	
7b	Method of grade-wise mineral sorting i.e. manual or mechanical	Mechanized	Mechanized	
7c	Different grade of mineral sorted out at mines	Flux grade Cement grade Blandable grade Low grade	BF grade	
7d	Any beneficiation process at mines	NA- Directly usable in cement plant.	NA	
7e	General remarks of inspecting officer on Mineral conservation & beneficiation issues	No comments as the mine opened on march'2020.		

8.0 Environment

SN	Item	Proposals	Actual work	Remarks
8a	Separate removal and utilization of topsoil (Rule 36)	Yes	Nil	To be utilized for plantation purpose in near future.
8b	Concurrent use or storage of topsoil	Yes	Nil	To be utilized for plantation purpose in near future.
8c	Separate dumps for overburden, waste rock, rejects and fines (Rule 37)	Yes	NA	

8d	Use of overburden, waste rock, rejects and fines dumps for restoring the land to its original use	NA	NA	
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 44)	2525 nos. (2.40 ha)	2529 nos. (1.317Ha)	
8g	Survival rate	Not mentioned specifically	90%	
8h	Water sprinkling on roads to control airborne dust	Yes	Yes	
8i	General remarks of inspecting officer on aesthetic beauty in and around mines are	No negative impact observed due to mining during mine visit.		

9.0 Compliance of Rule 45

S. N.	Item	COMMENTS	Remarks
	Status of submission of Monthly and Annual returns	M.R. Submitted upto Aug. 2020 A.R. submitted upto FY 2019-2020	

S. N.	Item	Details GIVEN in A.R.	Observation of I/Officer	Remarks
9b	Scrutiny of Annual return for information on Mining Engineer, Geologist and Manager	Yes given	Shri Rajesh Kumar, Mining Engineer & Manager Mine & Shri Saorav Shrivastava, Geologist	
9c	Scrutiny of Annual return on land use pattern for area under pits, reclaimed area, dumps etc.		O/c working-0.385 ha., infrastructure-0.528 ha., other purpose-5.270 ha.	
9d	Scrutiny of Annual return on Afforestation	With in lease 1834 nos saplings		
9e	Scrutiny of Annual return on mineral reject generation (Grade & quantity)	Nil		
9f	Scrutiny of Annual return on ROM stock and/or graded ore	500 ton		
9g	Scrutiny of Annual return on sale value, Ex. Mine price & production cost	Cost of production given Rs 91/ton & Ex-mine price Rs 2833.67/ton and sale price nil as it is for captive use.		

9i	Scrutiny of Annual return on fixed assets	Mentioned nil	Actual infrastructure and land are owned by lessee	
9k	Scrutiny of Annual return on mining machineries	Mine machineries information not furnished properly and only backhoe and Dozer mentioned		

10- Details of violations observed during current inspection and compliance position of earlier violation pointed out:- The last inspection was carried out by Shri S.Kartikeya,JMG was taken complied. During present inspection for processing of Review of Mining Plan Following violations pointed out:

Rule	Nature of Violation observed
11(1)	<p>Mining operations should have been undertaken in accordance with the approved Mining Plan/Review of Mining Plan.</p> <p>The Modified Mining Plan was approved vide letter no. बिलासपुर/ चूना /खयो-1189/2018-रायपुर dated 15.02.2019 and following deviation was observed during inspection</p> <ol style="list-style-type: none"> 1. The production proposal given in 2019-20 was 1540000 tons but against that only 500 tons produce with nil dispatch. 2. There was a proposal of 09 boreholes in 2019-20 and 09 bore holes in 2020-21 upto 50 meter depth and total meterage is 900 but it was observed that in 2019-20 no drilling was done and in 2020-21 till date only 08 bore hole reported. 3. During the field visit it was observed that limestone stack and waste dump near working pit and crushing and screening unit installed near pit whereas proposal was not given in approved document given there and crusher and waste dump proposal is nearly approx. 1.5 km from proposed pit. 4. During the field visit it was observed that there is not approach road from pit to proposed crusher, magazine and dump area. 5. The proposal given for settling pond of 2 nos of 36000 cum capacity, drainage of 1150m not completed.
35(2)	<p>Every holder of a mining lease shall monitor his mining and allied activities as per the notified template of star rating in the format prescribed in this behalf by the Indian Bureau of Mines from time to time, and shall submit online its self assessment report before the 1st day of July every year for the previous financial year, But till date not submitted.</p>
45(5)(c) (i)	<p>While scrutiny of Annual returns 2019-20 it was observed that</p> <p>The Ex-mine price is given as Rs 2833.87/ton for lump whereas cost of production is mentioned as Rs 91/ton and cost of production is only mining cost in which Royalty, taxes and cess are not included and for captive mine cost of production should be same as ex-mine price.</p> <p>The mineral is shown in only G1 category and everything is shown as reserve and resource is nil. Is not matching with approved document.</p> <p>Fixed asset mentioned as nil and information regarding machineries is not proper.</p>

(Rajesh Kumar Das, Senior Assistant Controller of Mines)