

MCDR INSPECTION REPORT 2020-21

1.0 GENERAL:

SN	Particulars	Details
1	File no	CHG/DRG/LST-49 CHG 05013/RPR/220
2	Name of inspecting office & designation	Shri. D.Dash , Senior Mining Geologist Indian Bureau of Mines, Raipur
3	Accompany with Mine Officials	Mr. Santosh Kumar Singh (Manager) Mr. Prakash Chandra Sahu, Mine Owner
4	Date of inspection	04.02.2022
5	Name of the Mine	Sahegaon Patharia Limestone Mines
6	Total Lease Area (Ha) with breakup of Non-forest and forest land	Forest Land- Nil Non Forest Land- 5.93 Ha Total Lease area- 5.93 Ha
7	Mine Code	38CHG05013
8	IBM Registration Number under rule 45 of MCDR, 1988	IBM/5671/2011
9	Name of the lessee, Address, phone, email and fax number	Shri Prakash Chandra Sahu, Quarter no. 108, Street No. 37, Sector- 4, At & PO. Bhilai, District- Durg, Chhattisgarh, pin-490023, ph no. 9425553126, email- prakashchandrasahu75@gmail.com
10	Village	Sahgaon & Pathariya
11	Taluka / Mandal / District	Dhamdha
12	State	Chhattisgarh
13	Post office & PIN	Nadini, 490036
14	Nearest police station	Nandini
15	Nearest Railway station	Bhilai
16	Date of Grant of Mining Lease	08.12.2005 (to 07.12.2035, granted for 30 Years)
17	Date of Execution	Executed: 08.12.2005
18	Date of opening of Mine	17.02.2006
19	Weekly day of rest	Sunday
20	Date of first Renewal, if applicable and its period & expiry	NA
21	Date of second Renewal, if applicable and its period & expiry	NA
22	Date of submission of renewal application if Mining Operations are continuing under deemed extension	NA
23	Name of the Nominated Owner with Address, phone, email, fax number and date of appointment	Shri Prakash Chandra Sahu, Quarter no. 108, Street No. 37, Sector- 4, At & PO. Bhilai, District- Durg, Chhattisgarh, pin-490023, ph no. 9425553126, email- prakashchandrasahu75@gmail.com
24	Name of the Mine Agent with Address, phone, email, fax number and date of appointment	None appointed
25	Name of the Mines Manager	None as on date inspection. Violation not pointed out since the

	with Address, phone, email, fax number and date of appointment in mines	mine is under suspension.
26	Name of the Mining Engineer, Qualification and total experience with Address, phone, email, fax number and date of appointment in mine	Shri Santosh Kumar Singh, Designation: Mining Engineer, Qualification: Diploma in Mining Address: Sahegaon Limetstone Mine, Village- Sahegaon, Nadini, pin 490036, Durg, Chhattisharh, Mob: 7999703067 santoshsingh.2009@gmail.com , notice of appointment not submitted. Violation of rule 46(a) of MCDR, 2017 is pointed out.
27	Whether Geologist and Mining Engineer appointed in mines satisfy the rule 55 & carrying out their duties as per rule 56 & 57.	None, violation is not pointed out since the mine is suspended under Rule 11(2) & 35(4) of MCDR, 2017
28	Date of Approval of Mining Plan/Modified Mining Plan with five-year period and specific condition in approval letter, if any.	Mining Plan approved vide letter no. DRG/Lst/MPLN-889/NGP dated 19.08.2005. Modified Review of Mine plan approval letter no: DRG/LST/MPLN-889 dated 27.11.2012 Modification of approved Mining Plan approved vide letter no. DRG/LST/Khayo-1086/2017-Raipur dated 16.05.2017 for the period :2017-18 to 2020-21
29	Date of Approval of Scheme of Mining/Modified Scheme of Mining with five-year period and specific condition in approval letter, if any.	NA
30	Mineral(s) granted in lease and proved for mining	Limestone
31	Method of Mining(Opencast, Underground)	Opencast
32	Category (Fully Mechanised, Others or Manual)	Category B, Manual
33	Captive/Non Captive	Non Captive
34	Existing EC Limit and validity	60,000 tonnes , 02.10.2022
35	Status of Financial Assurance as per rule 27 of MCDR, 2017	BG No.: 00662IG170000016 dated 06.05.2017 Amount: Rs. 5,20,000/- Valid up to 05.05.2022

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

1.0 Exploration:

SN	ITEM	PROPOSALS (2020-21)	ACTUAL WORK (2020-21)	REMARKS
1a	Back log of previous year	2017-18- 02 boreholes During the year 2020-21- Nil	02 boreholes drilled during the year	The lessee was advised carry out additional boreholes to cover the area under a grid interval.
1b	Exploration over lease area for Geological axis 1 or 2.	Not specific	Nil	The boreholes proposed and drilled are along a line without following any grid pattern.

1c	Exploration Agency & Expenditure in lakh Rupees during the year	Not specific	Rock Resolve	Carried out by the lessee through M/s Rock Resolve.
1d	Balance area to be explored to bring Geological axis in 1 or 2	Nil	Nil	NA
1e	Balance reserves as on 01.04.2021 (in Million Tonnes)	122: -1646200 222-821400	111: 1763578 211: 821400	Less production & depletion of ore due to lack of market. Reserves figures is cited incorrectly in Annual Returns. Violation of 45(c) of MCDR, 2017 is pointed out.
1f	General remarks of inspecting officer on geology, exploration etc.	The limestone deposit is of tabular stratified deposit of regular type. The exploration in form of two boreholes have been drilled during the year 2020-21 along a single line without following any grid pattern. The lessee was advised through to drill additional two boreholes to cover the area under a grid pattern,		

2.0 Development:

SN	ITEM	PROPOSALS (2020-21)	ACTUAL WORK (2020-21)	REMARKS
2a	Location of development w.r.t. lease area (Range in UTM/Local Coordinate/Plot No./Location)	Between N100 to S100 and 100E to 200E	Between N100 to S100 and 100E to 200E	Quarry development as proposed. However, 7.5m safety barrier zone was found breached between boundary pillar 28 to 31. Violation is not pointed out since, the mine is under suspension and backfilling is proposed in draft document submitted to this office .
2b	Separate benches in topsoil, overburden and mineral (Rule 13)	OB Bench: 1m Lst Bench: 3m	OB Bench: 1m Lst Bench: 3m	As proposed
2c	Stripping ratio or ore to OB ratio	1:0.05	1:0	Nil waste generation
2d	Quantity of topsoil generation in m3	Nil	Nil	Nil generation during the year
2e	Quantity of overburden generation in m3	Nil	Nil	Nil OB generation during the year
2f	General remarks of inspecting officer on development of pit w.r.t. type of deposit etc.	Development of quarry is less compared to proposal due to lower scale of mining operations due to less demand from captive cement plant and lack of EC clearance. The mine is also under suspension vide this office letter dated 10.08.2021 under Rule 11(2) and 35(4)		

		of MCDR, 2017.
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3.0 Exploitation:

SN	Item	Proposals	Actual work	Remarks
3a	Number of pits proposed for production	1	1	
3b	Quantity of ROM mineral production proposed	34,200MT	4734MT	Less production due low demand and lack of EC. Mine is under suspension.
3c	Recovery of salable/usable mineral from ROM production	100%	100%	As proposed.
3d	Quantity of mineral reject generation	720 cum	Nil	Nil generation
3e	Grade of mineral reject generation and threshold value declared	NIL	NIL	Not specified in approved M.P.
3f	Quantity of sub-grade mineral generation	NIL	NIL	Not envisaged in approved M.P.
3g	Grade of sub-grade mineral generation	NIL	NIL	
3h	Manual / Mechanised method adopted for segregating from ROM	Not proposed	Not done	Not envisaged in approved M.P.
3i	Any analysis or beneficiation study proposed & carried out for sub-grade mineral and reject	Beneficiation not proposed.	Not done.	Beneficiation is not required.
3j	Provision of drilling & blasting in mineral benches	Yes Drill machine Atlas Copco Dia:33mm	Yes Drill machine Atlas Copco Dia:33mm	Done as per proposal.
3k	Provision of mining machineries in mineral benches	Nil	Nil	Done as per proposal.
3l	Whether height of benches in overburden and mineral suitable for method of mining proposed in MP/SOM	Yes OB/Top soil-1m Mineral-3m	Yes OB/Top soil-1m Mineral-3m	As proposed
3m	Total area covered under excavation/pits	1.4	2.48	Lateral development is more than proposed. Violation is not pointed out since the mine is suspended under Rule 11(2) and 35(2) of MCDR, 2017.
3n	Ore to OB ratio for the pit/mine during the year	1:0.05	1:0	Nil waste generation

3o	Total area put in use under different heads at the end of year	Pit-1.4 Ha OB/Dump-0.4 Ha Infra/road-0.80 ha	Pit-2.48 Ha OB/Dump-0.4Ha Infra/road-0.8 ha	Higher land use in respect of pit, however, no violation pointed out as the mine is under suspension.
3p	Production of ROM mineral during last five-year period, as applicable (in Metric Tonnes)	2017-18: 34200 2018-19: 34200 2019-20: 36000 2020-21-36000	2017-18:7810 2018-19:5323 2019-20:5155 2020-21-4734	Less production during the year 2020-21 affected due to Covid-19 and lack of market.
3q	General remarks of inspecting officer on method of mining etc.	Production is on lower side due less demand during the year, pandemic situation and suspension of mining operations.		

4.0 Solid Waste Management-Dumping:

SN	Item	Proposals	Actual work	Remarks
4a	Separate dumping of topsoil, OB & mineral reject (Rule 36, 37)	Only mineral rejects envisaged.	Only Top soil stack area found. No separate mineral rejects stack observed although envisaged in approved plan.	No separate stacking done. Since no mineral reject generation reported last few years. No violation is pointed out as the mine is under suspension. The matter will be addressed in review of Mining Plan submitted to this office. The discrepancy observed was pointed out through scrutiny comments.
4b	Location of topsoil, OB & mineral reject dumps (Range in UTM/Local Coordinate/Plot No./Location)	Along the lease boundary between pillar no05 to 06. Between 400E to 100E.	Along the lease boundary between pillar no05 to 06. Between 400E to 100E.	Done as proposed.
4c	Number of dumps within lease area and outside lease area	01	01	Done as proposed.
4d	Location of dumps w.r.t. ultimate pit limit (Rule 14)	Outside UPL	Outside UPL	Done as proposed.
4e	Number of active & alive dumps	01	01	As above.
4f	Number of dead dumps	Nil	Nil	No area is matured.
4g	Number of dumps stabilised	Nil	Nil	All dumps are active.
4h	Whether Retaining wall or	Not proposed	Not done as proposed.	As proposed.

	garland drain all along dumps are there			
4i	Length of Retaining wall or garland drain all along dump	No specific proposal	Not done.	As proposed.
4j	Number of settling ponds	Not proposed.	Not done.	
4k	Specific comments of inspecting officer	Only top soil stacking proposed which have done as proposed.		

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	Nil	Nil	No proposal during the proposed year.
5b	Area under backfilling of mined out area	Nil	Nil	No area is matured for backfilling
5c	Concurrent use of topsoil for restoration or rehabilitation of mined out area (Rule 36)	Top soil to be used for plantation over the bund along the periphery of mine lease boundary for green belt development.	Being done	Top soil is used for development of plantation.
5d	Total area fully reclaimed & rehabilitated	Nil	Nil	No area is matured.
5e	General remarks of inspecting officer on backfilling, reclamation etc	No area is matured for backfilling. Backfilling is proposed in conceptual stage.		

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.	Yes	Not submitted	Violation of Rule 26 (2) of MCDR, 2017 is not pointed out for since the mine is under suspension.
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	Nil proposal	Nil	No area is mined out.

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 v) Any other specific means	Not proposed. No area is matured.	Not done.	No area is matured.
6d	Compliance of Rehabilitation of waste land within lease i) Afforestation ii) Area rehabilitated (ha) iii) Method of rehabilitation	No specific proposal	Plantation 200 saplings done.	
6e	Compliance of Environmental monitoring (core zone & buffer zone)	Nil	Nil.	
6f	General remarks of inspecting officer on PMCP compliance & progressive	PMCP annual report is not submitted. But, Violation Rule 26 (2) of MCDR, 2017 is pointed out .		

7.0 Mineral Conservation:

SN	Item	Proposals	Actual work	Remarks
7a	ROM Mineral dispatch or grade-wise sorting within lease area	ROM mineral dispatch	Direct ROM mineral dispatch from mines pit without sorting.	No sorting and sizing is done within the lease area.
7b	Method of grade-wise mineral sorting i.e. manual or mechanical	No mineral sorting done; ROM dispatch directly after blasting.	No mineral sorting done; ROM dispatch directly after blasting	Same as above.
7c	Different grade of mineral sorted out at mines	NA	NA	Not required for limestone.
7d	Any beneficiation process at mines	No	No	As above.
7e	General remarks of inspecting officer on Mineral conservation & beneficiation issues	The run of mine ore after blasting is sent outside lease area for consumption in captive cement plant. Sizing is done outside lease area prior to its use in plant.		

8.0 Environment :

SN	Item	Proposals	Actual work	Remarks
8a	Separate removal and utilization of topsoil (Rule 36)	Top soil to be used for plantation.	Being carried out as proposed.	Top soil is use for plantation
8b	Concurrent use or storage of topsoil	To be used for plantation along the boundary within non mining zone.	Being carried out as proposed.	Done as proposed.
8c	Separate dumps for overburden, waste rock, rejects and fines (Rule 37)	Not proposed.	Only top soil stacked as proposed	Done as proposed.
8d	Use of overburden, waste rock, rejects and fines dumps for restoring the land to its original use	Not envisaged at this stage.	Not done.	No area is matured for such action.
8e	Phased restoration, reclamation and rehabilitation of lands affected by mining operations (Pits, dumps etc)	Not envisaged at this stage.	Not done.	No area is matured for such action.
8f	Baseline information on existence of plantation & additional plantation done (Rule 44)	No proposal	Cumulative plantation done upto 31 st March 2021:-750 nos.	Plantation observed during the visit.
8g	Survival rate	Nil	~86%	Appears to be correct.
8h	Water sprinkling on roads to control airborne dust	Yes	Dust suppression by water tanker	
8i	General remarks of inspecting officer on aesthetic beauty in and around mines are	There is no specific proposal for environment management. However, cumulative plantation of 750 saplings have been done during the planned period.		

9.0 Compliance of Rule 45:

S.N.	Item	COMMENTS	Remarks
	Status of submission of Monthly and Annual returns	M.R. Submitted upto – January, 2021 A.R. submitted upto -- 2020-21	

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	Mines manager Shri. Shailendra Sinha, Mining Engineer: Shri. Santosh Kumar Singh Geologist: none	As on date of inspection no Manager is appointed. Part time Geologist is not appointed.	Violation is not pointed out since the mines is under suspension vide this office letter dated 10.08.2021 under rule 11(2) and 35(4) of

				MCDR, 2017
9c	Scrutiny of Annual return on land use pattern for area under pits, reclaimed area, dumps etc.	Already exploited – 1.8, Pit-0.4 Ha OB/Dump-0 Infra/road-0.9Ha Other- 0.18 Ha	No area is exploited and abandoned. Pit area is furnished incorrectly.	Information furnished incorrectly. Violation of Rule 45(c) of MCDR, 2017 is pointed out.
9d	Scrutiny of Annual return on Afforestation	WML- 200 Nos. For 2020-21	Appears to be correct.	Plantation observed during the visit.
9e	Scrutiny of Annual return on mineral reject generation (Grade & quantity)	Opening stock-11610 tonnes, closing stock- 16344 tonnes	Appears to be correct.	
9f	Scrutiny of Annual return on ROM stock and/or graded ore	Nil	Nil	
9g	Scrutiny of Annual return on sale value, Ex. Mine price & production cost	Ex mine price- Rs 369, sale value- not furnished Cost of production is Rs.250/mt	Ex-mine price appears to be correct since no cost deducted towards cost transportation etc.	Appears to be correct
9i	Scrutiny of Annual return on fixed assets	Fixed asset under Capital structure (Part II A):- 3919246	Appears to be incorrect, since assets under the heads of industrial building, plant machinery have been accounted for.	Appears to be incorrect. Mostly land, residential , machinery have been accounted for, since no crusher or plant machinery is in use other than jack hammer drill machine. Violation of Rule 45© of MCDR, 2017 is pointed out. .
9k	Scrutiny of Annual return on mining machineries	Blast hole drill(35mm)- 2, air compressor-01, pumps(electrical)-04, tipper-03	Appears to be correct.	

10- Details of violations observed during current inspection and compliance position of earlier violation pointed out:-

During the current inspection, following violations are pointed out:

Based on previous Inspection by Shri. R.N.Mishra, SMG, on 13.08.2019, violations of 11(2), 26(2), 45(5) (c) and 55 of MCDR, 2017 were pointed out. The lessee has carried out drilling of two boreholes in compliance to violation of 11(1) of MCDR. Annual Returns have been submitted in compliance to Rule 45(5) (c) of MCDR, 2017. Yearly report has not been submitted, so violation of rule 26(2) is outstanding. Mining Engineer is appointed in compliance to violation of Rule 55. However, notice of appointment is not submitted in prescribed format.

This office vide letter dated 10.08.2021 issued order of suspension of mining operations under Rule 11(2) and 35(4) of MCDR, 2017 for non-compliance of violation pointed out vide letter dated 04.06.2021 based on office record.

Based on current inspection and office record, following violations are pointed out.

नियम	उल्लंघन के प्रकार का ब्यौरा
26 (2)	A yearly report as per the format specified by Indian Bureau of Mines, before 1st day of July every year setting forth the extent of protective and rehabilitate works carried out has not been submitted for the year 2020-21.
45(5) (c)	(i) Information on land area utilization is furnished incorrectly. (ii) Quantity of mineral reserves is furnished incorrectly in submitted Annual Return for the year 2020-2021 (iii) Information of fixed assets on capital structure is furnished incorrectly.
46(a)	Notice of appointment of Mining Engineer is not submitted

Date: 23.02.2022

(Debadurllav Dash)

Senior Mining Geologist