

MCDR INSPECTION REPORT

1.0 GENERAL

SN	Particulars	Details
1	Name of the Mine	Barwas Limestone Mine
2	Total Lease Area (Ha) with breakup of Non-forest and forest land	Total area: 8.91 ha. Forest area: Nil Non-Forest-8.91
2a	Date of Inspection	19-10-2023
3	Mine code	38HPR10044
4	IBM Registration Number under rule 45 of MCDR, 1988	IBM/487/2011
5	Name of the lessee, Address, phone, email and fax number	M/s Jakra Mines and Minerals Village & Post- Sataun, Tehsil- Paonta Sahib District – Sirmour (H.P)-173029 Phone: 9816796085 Email: jalamsing@redifmail.com
6	Village	Barwas
7	Taluka/Mandal	Paonta Sahib
8	District	Sirmour
9	Pincode	173029
10	State	Himachal Pradesh
11	Post office	Sataun
12	Nearest police station	Dehradun
13	Nearest Railway station	Dehradun
14	Date of Grant of Mining Lease	27-12-1986
15	Date of Execution	08-03-1987
16	Date of opening of Mine	08-03-1987
17	Date of first Renewal, if applicable and its period & expiry	No
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	M/s Jakra Mines and Minerals Village & Post- Sataun, Tehsil- Paonta Sahib District – Sirmour (H.P)-173029 Phone: 9816796085 Email: jalamsing@redifmail.com
21	Name of the Mine Agent with Address, phone, email, fax number and date of appointment	Mam Raj Thakur Village & Post- Sataun, Tehsil- Paonta Sahib District – Sirmour (H.P)-173029
22	Name of the Mines Manager with Address, phone, email, fax number and date of appointment in mines	Dharmendra Bhati Village & Post-Sataun, Tehsil- Paonta Sahib District – Sirmour (H.P)-173029 Phone: 9829233994 Email:
23	Name of the Mining Engineer, Qualification and total experience with Address, phone, email, fax number and date of appointment in mine	Dharmendra Bhati, (Part Time) Village & Post-Sataun, Tehsil- Paonta Sahib District – Sirmour (H.P)-173029 Phone: 9829233994 Email:
24	Whether Geologist and Mining Engineer appointed in mines satisfy the rule 42 & carrying out their duties as per rule 43 & 44.	Yes, Mrs. Ritu Aggrawal, M.Sc(Geologist) Yes, Mr. Dharmendra Bhati, B.E (Mining)
25	Date of Approval of Mining Plan/Modified Mining Plan with five-year period and specific condition in approval letter, if any.	Review & Updation of Mining Plan Approved on 13-09-2021. Letter No.614(2)/MS-B-193/11-DDN From FY 2021-22 to FY 2025-26
26	Date of Approval of Scheme of Mining/Modified Scheme of Mining with five-year period and specific condition in approval letter, if any.	Modified Mining Plan Approved on 15-03-2017. Letter No.614(2)/MP-B-193/11-DDN From FY 2016-17 to FY 2020-21
27	Mineral(s) granted in lease and proved for mining	Limestone
28	Method of Mining(Opencast, Underground)	Opencast
29	Category (Fully Mechanised, Others or Manual)	A (OTFM)

30	Captive/Non Captive	Non-Captive
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Scientific Mining: Compliance of proposals of approved mining plan/scheme of mining. –

Exploration

SN	Item	Proposals (2022-23)	Actual work	Remarks
1a	Backlog of previous year	6Core Bore Hole Proposal was proposed during 2021-22	No exploration was carried out during the year 2021-22	
1b	Exploration over lease area for Geological axis 1 or 2.	No Exploration was Proposed during 2022-23	6Core Bore Hole was carried out during 2022-23 against previous year proposals	Form I and Test report is submitted on 24.10.2022
1c	Exploration Agency & Expenditure in lakh Rupees during the year	Asia Environ Lab	Asia Environ Lab	
1d	Balance area to be explored to bring Geological axis in 1 or 2	As per approved mining plan G1-2.39 Ha G2-1.84 Ha G3-4.68 Ha	As per approved mining plan G1-2.39 Ha G2-1.84 Ha G3-4.68 Ha	
1e	Balance reserves as on 01.04.2021.	Balanced reserve as on 01.04.2023 Under 111 is 5.07980 million tonnes Under 111 and 122 is 0.96300 million tonnes		
1f	General remarks of inspecting officer on geology, exploration etc.	2.39 Ha mineralized area has been covered under G1.		

2.0 Development

SN	Item	Proposals (2022-23)	Actual work	Remarks
2a	Location of development w.r.t. lease area	Development was proposed towards South -West part of the lease area from 1524 mRL to 1506 mRL downwards	Development work has been carried out at proposed place but Mining benches not developed as per proposal	
2b	Separate benches in topsoil, overburden and mineral (Rule 15)	No such proposals are incorporated	Only Mineral benches developed	
2c	Stripping ratio or ore to OB ratio	1:0.05	1:0.05	
2d	Quantity of topsoil generation in m3	No proposals are incorporated	No significant Quantity generate during the Year, small quantity of top soil generated which used for plantation purposed.	
2e	Quantity of overburden generation in m3	No Overburden proposals is incorporated	458 Tonnes interburden generated during year 2022-23	
2f	General remarks of inspecting officer on development of pit w.r.t. type of deposit etc.	Development work was carried out at proposed place but height of the benches observed more than proposed height.		

3.0 Exploitation

SN	Item	Proposals (2022-23)	Actual work	Remarks
3a	Number of pits proposed for production	As per proposal 1(One) pit is proposed for production	Observed as per proposal.	
3b	Quantity of mineral production proposed (Limestone)	ROM proposed during 2022-23 is 85130 Tonnes	ROM generated during 2021-22 is 40663.10 tonnes.	
3c	Recovery of salable/ usable mineral from ROM production	95% recovery from ROM	ROM is saleable in the market.	
3d	Quantity of mineral reject generation	No proposals are incorporated	No mineral reject in this mine is being generated.	
3e	Grade of mineral reject generation and threshold value	Not applicable	Not applicable	

	declared			
3f	Quantity of sub-grade mineral generation	Not Applicable	Not Applicable	
3g	Grade of sub-grade mineral generation	Not Applicable	Not Applicable	
3h	Manual / Mechanised method adopted for segregating from ROM	No proposals are incorporated	No segregating was carried out in the mine	
3i	Any analysis or beneficiation study proposed & carried out for sub-grade mineral and reject	No beneficiation study proposed	No beneficiation study was carried out.	
3j	Provision of drilling & blasting in mineral benches	Drilling operation proposed by Jack hammer machine hole dia 100 m depth 6 metre. Blasting operation was proposed by safety fuse and ordinary detonator.	Reportedly undertaken as proposed.	
3k	Provision of mining machineries in mineral benches	Hydraulic excavation L&T with bucket capacity 0.9 cum using for limestone loading operation	Deployed as per proposal	
3l	Whether height of benches in overburden and mineral suitable for method of mining proposed in MP/SOM	Yes, Average Height of benches proposed are 3 m,	Bench height has been observed more than the proposed height	Violation was pointed out to lessee under rule 11(1) of MCDR 2017
3m	Total area covered under excavation/pits	1.67 ha	Tentatively within the proposals	
3n	Ore to OB ratio for the pit/mine during the year	1:0.05	More or less it is 1:0.05	
3o	Total area put in use under different heads at the end of year	3.196 ha (up to plan period)	Within the limit of proposal incorporated in the mining plan.	
3p	Production of Limestone & Shale during last five-year period, as applicable	2018-19- 10837 Tonnes 2019-20- 114713 Tonnes 2020-21- 124973 Tonnes 2021-22- 75212Tonnes 2022-23- 85130Tonnes	2018-19- 52146.90 Tonnes 2019-20- 36219 Tonnes 2020-21- 37349 Tonnes 2021-22- 32318.1 tonnes. 2022-23- 40663.10Tonnes	
3q	General remarks of inspecting officer on method of mining etc.	During the inspection it was observed that proposed development works has been carried out at the earmarked places but the bench parameters are not as per proposals, Violation under rule 11(1) is observed.		

4.0 Solid Waste Management-Dumping

SN	Item	Proposals (2022-23)	Actual work	Remarks
4a	Separate dumping of topsoil, OB & mineral reject (Rule 32, 33)	No proposals are incorporated	Insignificantly quantity of topsoil & Over burden is generated during year 2022-23	
4b	Location of topsoil, OB & mineral reject dumps	No proposals are incorporated	Insignificantly quantity of topsoil & Over burden is generated during year 2021-22	
4c	Number of dumps within lease area and outside lease area	No proposals are incorporated	No active dump observed within lease area	
4d	Location of dumps w.r.t. ultimate pit limit (Rule 16)	Towards SE slope of the lease area	Not seen during the inspection.	
4e	Number of active & alive dumps	None	Not applicable.	
4f	Number of dead dumps	None	Not applicable.	
4g	Number of dumps stabilised	None	Not Applicable	
4h	Whether Retaining wall or garland drain all along dumps are there	Proposal incorporated	Retaining wall constructed	
4i	Length of Retaining wall or garland drain all along dump	20 meter	20 meter	
4j	Number of settling ponds	Not Applicable	Not Applicable	
4k	Specific comments of inspecting	Proposal incorporated for separate dumping of waste material in approved		

officer	mining plan
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5.0 Solid Waste Management-Backfilling

SN	Item	Proposals (2022-23)	Actual work	Remarks
5a	Status on part or full extraction of mineral from mined out area before starting backfilling	No proposals for backfilling in year 2022-23	Area has yet not been matured for backfilling.	
5b	Area under backfilling of mined out area	No proposals are incorporated	Not Applicable	
5c	Concurrent use of topsoil for restoration or rehabilitation of mined out area (Rule 32)	Small quantity of top soil generated which used for plantation purposed	Small quantity of top soil generated which used for plantation purposed	
5d	Total area fully reclaimed & rehabilitated	No proposals are incorporated	No proposals are incorporated	
5e	General remarks of inspecting officer on backfilling, reclamation etc	No Proposal for backfilling in 2022-23. Area yet not matured for back filling		

6.0 Progressive Mine Closure Plan

SN	Item	Proposals (2022-23)	Actual work	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.	Submitted	Submitted	
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	i)) Not Proposal ii) Not Proposal iii) Not Proposal iv) Not Proposal v) Not Proposal vi) Not Proposal	i) Not applicable ii) Not applicable iii) Not applicable iv) Not Proposal v) Not applicable vi) Not applicable	
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	i)) Not Proposal ii)) Not Proposal iii) Not Proposal iv) Not Proposal	i) Not applicable ii) Not applicable iii) Not applicable iv) Not Proposal	
6d	Compliance of Rehabilitation of waste land within lease i) Afforestation ii) Area rehabilitated (ha) iii) Method of rehabilitation	1) 50 sapling proposed during 2022-23 2) 0.05 ha	As per Proposal	
6e	Compliance of Environmental monitoring (core zone & buffer zone)	Monitoring Proposed	Monitoring is done	
6f	General remarks of inspecting officer on PMCP compliance & progressive	PMCP report under 26(2) of MCDR-2017 has been submitted within the stipulated time.		

7.0 Mineral Conservation

SN	Item	Proposals (2022-23)	Actual work	Remarks
7a	ROM Mineral dispatch or grade-wise sorting within lease area	No proposals incorporated,	95% ROM sailable in the marked	
7b	Method of grade-wise mineral sorting i.e. manual or mechanical	Not Applicable	Not Applicable	
7c	Different grade of mineral sorted out at mines	Grade wise sorting is not proposed.	Reportedly no sorting is done in mine	
7d	Any beneficiation process at mines	Not Applicable	Not Applicable	

7e	General remarks of inspecting officer on Mineral conservation & beneficiation issues	There is no problem of mineral Conservation at this Mine.
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8.0 Environment

SN	Item	Proposals (2022-23)	Actual work	Remarks
8a	Separate removal and utilization of topsoil (Rule 32)	No proposal Incorporated	Small Quantity of top Soil generated which used for Plantation purpose	
8b	Concurrent use or storage of topsoil	No proposal Incorporated	For plantation purpose.	
8c	Separate dumps for overburden, waste rock, rejects and fines (Rule 33)	Proposal incorporated	As per proposal	
8d	Use of overburden, waste rock, rejects and fines dumps for restoring the land to its original use	Not applicable	Not applicable	
8e	Phased restoration, reclamation and rehabilitation of lands affected by mining operations (Pits, dumps etc)	No. proposal incorporated in approved mining plan	Not applicable	
8f	Baseline information on existence of plantation & additional plantation done (Rule 41)	Baseline study done	As per proposals	
8g	Survival rate	80%	It is around 70%	
8h	Water sprinkling on roads to control airborne dust	Water Sprinkling on haul road for dust suppression in mine	Water Sprinkling on haul road for dust suppression is done occasionally.	
8i	General remarks of inspecting officer on aesthetic beauty in and around mines area	Aesthetic beauty is maintained more or less except degradation of land due to mining.		

9.0 Compliance of Rule 45

S.N	Item	COMMENTS	Remarks	
9a	Status of submission of Monthly and Annual returns	All Monthly and Annual Return Submitted.		
S.N	Item	Details given in AR (2021-22)	Observation of I/Officer	Remarks
9b	Scrutiny of Annual return for information on Mining Engineer, Geologist and Manager	Mining Engineer and Geologist reported	Mining Engineer and Geologist is appointed	
9c	Scrutiny of Annual return on land use pattern for area under pits, reclaimed area, dumps etc.	Current working-1.700, Reclaimed 1.00, used for waste disposal 0.060 and Road-1.800	Seen as per information given.	
9d	Scrutiny of Annual return on a forestation	1)Within lease area-50 plants 2)Outside lease area-0	Seen as per information given.	
9e	Scrutiny of Annual return on mineral reject generation (Grade & quantity)	No Mineral generated during the year, Nil information given	No Mineral generated during the year, Nil information given	
9f	Scrutiny of Annual return on ROM stock and/or graded ore	Information given	Found as per Information given	
9g	Scrutiny of Annual return on sale value, Ex. Mine price & production cost	Ex. Mine price is 339 per tonne and Cost of production is 277.54 per tonnes	Return scrutinized for sale value, ex. Mine Price and production cost value found within range.	
9h	Scrutiny of Annual return on fixed assets	Information given	Found as per Information given	
9k	Scrutiny of Annual return on mining machineries	Air Compressor and Blast Host Drill and Back	As per proposal	

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10- Details of violations observed during current inspection and compliance position of earlier violation pointed out:- **MCDR COMPLINCE PAST AND PRESENT**

S.N	Previous date of inspection	13.03.2023	
9b	Violations pointed out in previous inspection	Rule 11(1) and 45(7)	
9c	Check Compliance status of complied violations	Compliance has been observed as per control chart.	
9d	Pending violations	Rule 11(1) and 45(7)	
9e	Status of compliance of MCDR,2017, including therewith the rectification of outstanding violation of rules	Nil	
9f	Violation Detected And Pointed Out During This Inspection	Rule 11(1) and 45(7)	

Date: 30.01.2024

Mukesh Kumar Sharma
Indian Bureau of Mines