

INSPECTION DATA SHEET**General**

S.N.	Particulars	Details
1	Name of the Mine	Lumshnong Limestone Mine
	Date of Inspection:	13/12/2023
	Name of Inspecting Officer	S. K. Singh
2	Total Lease Area (Ha) with breakup of non-forest and forest land	4.2 Hectare
3	Mine code	38MEG03001
4	IBM Registration Number under rule 45 of MCDR,1988	IBM/7036/2011
5	Name of the Lease, Address, Phone, email and fax number	M/s Meghalaya Minerals & Mines Limited Lumshnong Village, Police Station- AD Camp, Lumshnong, Post Office- Lumshnong, Narpuh Taluk, East Jaintia Hills District, Meghalaya- 793210 Phone no- 9862566067 Email- mmml2001@gmail.com Fax no- 9862566067
6	Village	Lumshnong
7	Taluka/Mandal	Narpuh
8	District	East Jaintia Hills
9	Pin code	793210
10	State	Meghalaya
11	Post Office	Lumshnong
12	Nearest Police Station	AD Camp, Lumshnong
13	Nearest Railway Station	Badarpurghat
14	Date of Grant of Mining Lease	03/04/2002
15	Date of Execution	03/04/2002
16	Date of opening of Mine	09/05/2002
17	Date of First Renewal, if applicable and its period & expiry	As per Section 8A(3) of MMDR Amendment Act 2015 all mining leases granted before the commencement of the Act shall be deemed to have been granted for a period of fifty years. However for supplementary deed Application has been submitted on dated 14.09.2021.
18	Date of Second Renewal, if applicable and its period & expiry	Not Applicable
19	Date of submission of renewal application if Mining Operations are continuing under deemed extension	Vide letter no.- MMML/21-22/256 dated on 14/09/2021
20	Name of the Nominated Owner with Address, phone, email, fax number and date of appointment	Name- Lamshwa Kyndoh Address- Lumshnong Village, Police Station- AD Camp, Lumshnong, Post Office- Lumshnong, Narpuh Taluk, East Jaintia Hills District, Meghalaya- 793210 Phone No- 961216671 Email id- mmml2001@gmail.com Date of appointment- 10/03/2002
21	Name of the Mine Agent with Address, phone, email, fax number and date of appointment	Name- Mukesh Agarwal Address- Devendra Nagar, Jhoom Basti, Badarpurghat, Post Office- Badarpur District- Karimganj, Assam- 788803

		Phone no- 9435078960 Email id- magarwal.bvcl@gmail.com Date of appointment- 17/03/2002
22	Name of the Mine Manager with Address, phone, email, fax number and date of appointment in mines	Name- Awdhesh Kumar Pathak Address- Gola Road, Bangali Tola, Ramgarh Cantt, District- Ramgarh, Jharkhand- 829122 Phone no- 9862566067 Email id- awdhesh.pathak22@gmail.com Date of appointment- 01/11/2014
23	Name of the Mining Engineer, Qualification and total experience with address, phone, email, fax number and date of appointment in the mine	Name- Deepak kumar Qualification- B.E (Mining Engineering) Total experience- 2 years 5 months Address- Lalapur Village, Post office- Kudra Police station- Kudra, District- Bhabua (Kaimur), Bihar- 821108 Phone no- 7038860802 Email id- dkr494958@gmail.com Date of appointment- 30/08/2022
24	Whether Geologist and Mining Engineer appointment in mines satisfy the rule 42 & carrying out their duties as per rule 43 & 44.	1) Deepak Kumar (Mining Engineer) 2) Amar kumar Mishra (Geologist)
25	Date of Approval of Mine Plan/Modified Mine Plan with five- year period and specific condition in approval letter, if any.	Vide letter no: - IBM/GHY/MEG/JNH/LST/MS-73 on dated 18/04/2022
26	Date of Approval of Scheme of Mining/Modified Scheme of Mining with five- year period and specific condition in approval letter, if any.	Do
27	Mineral(s) granted in lease and approved for Mining	Limestone
28	Method of Mining (Opencast, Underground)	Opencast
29	Category (Fully Mechanized, Others or Manual)	Mechanized
30	Captive/Non-Captive	Non-Captive

Exploration

S.N.	Item	Proposals	Actual Work	Remarks
1a	Backlog of previous year(21-22)	02 holes	04 holes	131.4 meter.in last year no backlog is there.04 holes are drilled in 21-22.
1b	Exploration over lease area for Geological axis 1 or 2.	No proposal	Not Applicable	Area in Geological axis
	Exploration Agency & Expenditure in Lakh Rupees during the year	No proposal	Not Applicable	
1d	Balance area to be explored to bring Geological axis in 1 or 2.	No proposal	Not Applicable	

1e	Balance reserves as on 01.04.2023		G1 Exploration (111)- 460231 tonnes Remaining Resources (221)-2722442.31 tonnes	
1f	General remarks of Inspecting officer on geology, exploration etc.	<p>The entire mine area is in G1 level of exploration. it is very small area. Some holes are planned in future for depth. Description of the formations of Jaintia Group: The Langpar formation of the Jaintia Group overlies the Mahadeo or Sohbar formation. It consist of calcareous shale, sandy limestone and fine calcareous sandstone. The deposit of these sediments marks the beginning of a stable shelf condition which was firmly established later with the deposition of Sylhet formation. The Sylhet Formation , approximately 600 m thick, consist of alternating bands of limestone and sandstone beginning with Theria Sandstone at the bottom 15 followed by Lakadong Limestone , Lakadong sandstone, Umlatdoh Limestone, Narpuh sandstone and prang limestone at the top. It represents a cyclothem sedimentary sequence, always starting sandstone and ending with limestone. The Narpuh sandstone , 15-30 m thick is course to medium grained ferruginous sandstone, mostly friable. The Prang limestone , 60-150 m thick, is hard , massive, grey fossiliferous limestone with fine inter-bands of shale. The mineralization as per the holes are continuing upto the depth of 45.00mRL, as such it has been shown in the sections as inferred mineral resource. Due to exploration work the total mineral resource has increased. The mineralization as per the holes is continuing up to the depth of 05-45.00 m, as such it has been shown in the sections as Inferred mineral Resource.</p>		

Development

S.N.	Item	Proposals	Actual Work	Remarks
2a	Location of Development w.r.t. lease area	Working under section FF' in bottom bench having RL 476MRL- (gridlines E:437400-437510N:2783350-2783470)	Work done in FF' section in Bottom RL of 475 MRL -(gridlines E:437400-437510N:2783350-2783470)	4 meter Bench
2b	Separate benches in topsoil overburden and mineral (Rule 15)	No proposal	Not applicable	No Top Soil
2c	Stripping ratio or ore to OB ratio	No proposal	Not applicable	No OB
2d	Quantity of topsoil generation in m ³	No proposal	Not applicable	
2e	Quantity of overburden generation in m ³	No proposal	Not applicable	
2f	General remarks of Inspecting	Pit has been developed. Presently working is done in one		

	officer on development of pit w.r.t type of deposit etc.	bench in proposal area and three benches have reached ultimate width.
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Exploitation

S.N.	Item	Proposals	Actual Work	Remarks
3a	Number of pits proposed for production	01	01	
3b	Quantity of ROM mineral production proposed (2022-23)	75000 tonnes	74900 tonnes	
3c	Recovery of Salable/usable mineral from ROM production	100%	100%	Total ROM production sent to respective plant Barak Valley Cement Limited
3d	Quantity of mineral reject generation	No proposal	Not applicable	
3e	Grade of mineral reject generation and threshold value declared	No proposal	Not applicable	
3f	Quantity of sub-grade mineral generation	No proposal	Not applicable	
3g	Grade of sub-grade mineral generation	No proposal	Not applicable	
3h	Manual/Mechanized method adopted for segregation from ROM	No proposal	Not applicable	
3i	Any analysis or beneficiation study proposed & carried out for sub-grade mineral and reject	No proposal	Not applicable	
3j	Provision of drilling & blasting in mineral benches	Yes	Made	For drilling operation- AIRROC D-35 with EPIROC compressor 500
3k	Provision of mining machineries in mineral benches	Yes	Made	Excavator- Volvo EC210D Dumper- 2 TATA 2523/BS-iv and 1 TATA PRIMA Ix-2825.TK having 14 m ³ and 15.55 m ³ respectively.
3l	Whether height of benches in overburden and mineral suitable for method of mining proposed in MP/SOM	Yes (height of benches in mineral for method of mining proposed in mining plan has been 6	4.2 meters	

		meters)		
3m	Total area covered under excavation /pits	3.139 hectare		3.139 hectare
3n	Ore to OB ratio for the pit/mine during the year	No proposal		Not applicable
3o	Total area put in use under different heads at the end of year	3.54 hectare		3.522
3p	Production of ROM mineral during last five-years period, as Applicable	18-19	179915 tonnes	176088 tonnes
		19-20	179898 tonnes	150705 tonnes
		20-21	180258 tonnes	80875 tonnes
		21-22	179883 tonnes	79150 tonnes
		22-23	75000 Tonnes	74900 Tonnes
3q	General remarks of inspecting officer on method of mining etc	The new mining plan has been issued from 2022-23 to 2026-27. Mechanized mining is done using 1cubic meter bucket capacity excavator and 22 tons tippers and ROM limestone is directly dispatched to cement plant BVCL located at distance of 80km.		

Solid Waste Management-Dumping

S.N.	Item	Proposals	Actual Work	Remarks
4a	Separate dumping of topsoil, OB & mineral reject (Rule 32,33)	No proposal	Not applicable	
4b	Location of topsoil, OB & mineral reject dumps	No proposal	Not applicable	
4c	Number of Dumps within lease area and outside lease area	No proposal	Not applicable	
4d	Location of Dumps w.r.t. ultimate pit limit (Rule 16)	No proposal	Not applicable	
4e	Number of Active & Alive dumps	No proposal	Not applicable	
4f	Number of deed dumps	No proposal	Not applicable	
4g	Number of dumps established	No proposal	Not applicable	
4h	Whether Retaining wall or garland drain all along dumps are there	No proposal	Not applicable	
4i	Length of Retaining wall or garland drain all along dump	No proposal	Not applicable	
4j	Number of settling ponds	No proposal	Not applicable	
4k	Specific commends of inspecting officer on waste dump management	No dump exists in the mine lease area. No proposal in plan for the dump or waste as same is not encountered in planned working.		

Solid Waste Management-Backfilling

S.N.	Item	Proposals	Actual Work	Remarks
5a	Status on part or full extraction of mineral from mined out area before starting backfilling	No proposal	Not applicable	
5b	Area under backfilling of mined out area	No proposal	Not applicable	
5c	Concurrent use of topsoil for restoration or	No proposal	Not applicable	

	rehabilitation of mined out area (Rule 32)			
5d	Total area fully reclaimed & rehabilitated	No proposal	Not applicable	
5e	General remarks of inspecting officer on backfilling, reclamation etc	No waste is generated and no proposal for backfilling in the approved plan.		

Progressive Mine Closer Plan

S.N.	Item	Proposals	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	Yes	Submitted	
6b	Management of worked/mined out benches			
	i) Area available for rehabilitation (Ha)	No proposal	Not applicable	
	ii) Afforestation done (ha)	No proposal	Not applicable	
	iii) No. of saplings planted during the year	No proposal	Not applicable	
	iv) Cumulative no. of plants	No proposal	Not applicable	
	v) Any other specific method of rehabilitation	No proposal	Not applicable	
	vi) Cost incurred on watch & care during the year	No proposal	Not applicable	
6c	Compliance on reclamation and rehabilitation by backfilling 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	No Proposal No proposal No proposal No proposal No proposal	Not applicable Not applicable Not applicable Not applicable Not applicable	Pit area exists 3.139 hectare. No proposal for backfilling in current plan.
6d	Compliance of Rehabilitation of waste land within lease i) Afforestation ii) Area rehabilitation iii) Method of rehabilitation	0.018 Ha – 50 plants in barrier zone . No proposal No proposal	Nil	Barrier zone plantation is proposed in mining plan.however no planatation is observed.

				Violation issued for same.
6e	Compliance of Environment monitoring (core zone & buffer zone)	Yes	Done	
6f	General remarks of inspecting officer on PMCP compliance & progressive closer operations	In proposal only green belt development in barrier zone. Plantation was not observed. Violation issued for same.		

Mineral Conservation

S.N.	Item	Proposals	Actual Work	Remarks
7a	ROM mineral dispatch or grade wise sorting within lease area	ROM mineral dispatch	Being done	
7b	Method of grade-wise mineral sorting i.e. manual or mechanical	No proposal	Not applicable	
7c	Different grade of mineral sort out at mine	No proposal	Not applicable	
7d	Any beneficiation process at mines	No proposal	Not applicable	
7e	General remarks of inspecting officer on Mineral conservation & beneficiation issues	No proposal for grade wise sorting of mineral. ROM is directly sent to cement plant at BVCL.		

Environment

S.N.	Item	Proposals	Actual Work	Remarks
8a	Separate removal and utilization of topsoil (Rule32)	No proposal	Not applicable	
8b	Concurrent use or storage of topsoil	No proposal	Not applicable	
8c	Separate dumps for overburden waste rock, rejects and fines (Rule 33)	No proposal	Not applicable	
8d	Use of overburden, waste rock, rejects and fines dumps for restoring the land to its original use	No proposal	Not applicable	

8e	Phased restoration, reclamation and rehabilitation of lands affected by mining operations (Pits, dumps etc)	No proposal	Not applicable	
8f	Baseline information on existence of plantation & additional plantation done (Rule 41)	0.018 Ha/ 50 plants in barrier zone in review year,	Nil	Green belt plantation not done. Violation issued.
8g	Survival rate	50%	Nil	
8h	Water sprinkling on roads to control airborne dust	Proposed	Water sprinkler is available	
8i	General remarks of inspecting officer on aesthetic beauty in and around mine area	Very small area plantation planned on barrier. same is not done. Violation issued for same.drilling machine is seen without dust control system of wet drilling or dust extractor/suppression.violation pointed out under Rule 40 of MCDR 2017.		

Compliance of Rule 45

S.N.	Item	Comments	Remarks
9a	Status of submission of monthly and Annual returns	Annual return submitted upto 2022-23	
		Monthly return submitted upto November-2023	
9b	Scrutiny of Annual return for information on Mining Engineer, Geologist and Manager	1) Deepak Kumar (Mining Engineer) 2) Amar Kumar Mishra (Geologist)	Appointed Appointed
9c	Scrutiny of Annual return on land use pattern for area under pits, reclaimed area, dumps etc.	Area under mining- 3.139 Ha Roads- 0.095 Ha Green Belt- 0.288 Ha	Detailed given
9d	Scrutiny of Annual return on afforestation	No of plants planted- 60 nos. Area covered- 0.018 Ha	Not found Violation issued
9e	Scrutiny of Annual return on mineral reject generation (Grade & Quantity)	Nil, no rejects.	
9f	Scrutiny of Annual return on ROM stock and/or grade ore	Closing stock at mine-head: - 6396.410	Stock value on 31/03/2023

9g	Scrutiny of Annual return on sale value, Ex. Mine price & production costs	Ex. Mine price- 570.86 Rs/tonne Sale price - 570.86 Rs/tonne Cost of production-520.27Rs/tonne				Details given in return
9i	Scrutiny of Annual return on Fixed assets	Value of fixed Assets: -Rs 38628633				Details given in return.
9k	Scrutiny of Annual return on mining Machineries	BACK HOE	1.000	CUM	2	List of machinery used in mine has been given in return.
		DUMPER	20.000	TONNE	4	
		AIR COMPRESSOR	16.990	CUM/M N	1	
		DOZER	135.000	HP	1	

Details of Violations observed during current inspection and compliance position of earlier violation pointed out: - Current inspection: violation for rule 11(1), rule 40, rule -34A (2) is pointed out and the earlier violation was complied.

Date: 12.01.2024

Name: (Sandeep Kumar Singh)

Designation: Deputy Controller of mines & I/C.