

INDIAN BUREAU OF MINES MINES CONTROL AND CONSERVATION OF MINERAL DIVISION MCDR INSPECTION REPORT Guwahati Regional Office

Mine file No : IBM/GHY/MEG/JNH/LST-14

Date of Inspection: 16.12.2020

Mine Code: 38MEG03015

eral:	Name of the Mine	Umsoo Mootang Limestone Mines Block-V
1		128.52 Ha. /
	and forest land	38MEG03015
3	Mine code	IBM/929/2011
	IBM Registration Number under rule 45 of	IBIM/929/2011
	MCDR , 1988	D. L. Comment (Phonet) Limited
	Name of the lessee,Address,phone, email and	M/s Dalmia Cement (Bharat) Limited
5	fax number	
6	Village	Thangskai
	Taluka/Mandal	Narpuh
	District	East Jaintia Hills
		793210
	Pincode	Meghalaya
	State	
11	Post office	Lumshnong
12	Nearest police station	Lumshnong
13	Nearest Railway station	Badarpur
14	Date of Grant of Mining Lease	14.12.2016
	Date of Execution	21.12.2016
15		12.07.2017
16	Date of opening of Mine	N.A.
17	Date of first Renewal , if applicable and its	IN.M.
1 /	period & expiry	
	Date of second Renewal , if applicable and its	N.A.
18	period & expiry	
		NI A
	Date of submission of Renewal application if	N.A.
19	Mining operations are continuing under deemed	
	extension	
	Name of the Nominated owner with Address,	Sh. Venkatesan Thyagarajan,
	phone, email,fax number and date of	M/s Dalmia Cement (Bharat) Limited,
		Umsoo Mootang, Village: Thangskai,
20	appointment	P.O. Lumshnong, District : East Jaintia Hills, Meghalaya. 793210.
20		Email: t.venkatesan@dalmiacement.com
		Email: Liverkatesan@daimacement.som
		Date of appointment : 18.05.2018
	Mine and with Address phone	Sh. Sanjay Kumar,
	Name of the Mine agent with Address, phone,	M/s Dalmia Cement (Bharat) Limited
	email,fax number and date of appointment	Wis Dalima Cerrient (Brianaty Erimon
		Umsoo Mootang, Village: Thangskai,
21		P.O. Lumshnong, District : East Jaintia Hills, Meghalaya. 793 210.
		Email- kumar.sanjay@dalmiacement.com Mob: 9612159689,
		Date of Appointment: 12.07.2013
	Name of the Mines Manager with Address,	Sh.Shishupal Singh,
	phone, email,fax number and date of	M/s. Dalmia Cement (Bharat) Limited,
	appointment	I Imsoo Mootang Village Thangskal.
22	appointment	P.O. Lumshnong, District : East Jaintia Hills, Meghalaya, 793210.
22		Email-singh.shishupal@dalmiacement.com Mob:7085099840,
		Date of Appointment: 16.05.17
	Ouglification and	Sh.Shishupal Singh,B.E. (Mining), Experience: 21 Years
	Name of the Mining Engineer , Qualification and	x M/s Dalmia Cement (Bharat) Limited,
	total experience with Address , phone, email, fa	W/s Dallilla Cellielli (Dilarat) Ellinos,
	number and date of appointment in mine	
23		P.O. Lumshnong, District : East Jaintia Hills, Meghalaya. 793210.
		Email-singh.shishupal@dalmiacement.com Mob:7085099840,
		Date of Appointment: 16.05.17
		Tax
	Whether Geologist and Mining Engineer	Yes
	Whether Geologist and Mining Engineer appointed in mines satisfy the rule 42 & carrying	
	appointed in mines satisfy the rule 42 & carrying	Geologist: Sh.Chandrashekhar Sharma,
	Whether Geologist and Mining Engineer appointed in mines satisfy the rule 42 & carrying out their duties as per rule 43 & 44	Geologist: Sh.Chandrashekhar Sharma, Experience-16 Years,
24	appointed in mines satisfy the rule 42 & carrying	Geologist: Sh.Chandrashekhar Sharma, Experience-16 Years, Date of Appointment: 19.11.2018
24	appointed in mines satisfy the rule 42 & carrying	Geologist: Sh.Chandrashekhar Sharma, Experience-16 Years, Date of Appointment: 19.11.2018 Mining Engineer: Sh.Shishupal Singh, B.E. (Mining),
24	appointed in mines satisfy the rule 42 & carrying	Geologist: Sh.Chandrashekhar Sharma, Experience-16 Years, Date of Appointment: 19.11.2018 Mining Engineer: Sh.Shishupal Singh,B.E. (Mining), Experience: 21 yrs.
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,	<u>on</u>	Proposals	Actual work	Remarks
1	Items Backlog of previous year	20 (1200m)	11 (990.54m)	*
	Exploration over lease area for Geological axis 1 or 2	15 (900m)	6 (422.80m) for Geological axis 1	A violation letter has been issued to the lesee in this regard.
	Exploraion Agency & Expenditure in lakh Rupees during the year	15 Borehole of 900 mts depth	Actual work: 422.80 mtr M/s Synergy Geotech Pvt. Ltd. Nagpur. Expenidture: Rs.21.77 Lakh	
	Balance area to be explored to bring Geological axis	Nil	29.83	
	in 1 or 2 Balance reserves as on 01.04.2020 in Million Ton	60.55	60.93 MT	
	General remarks of inspecting officer on geology, exploration etc.	Volation letter given : 1.IBM/GHY/MEG/JNH/LST-14 da	ated. 23.12.2019 -Rule 11(1) & 33	

Developn	nent	Proposals	Actual work	Remarks
S.N.	Items	N-1050- N 1230 & E-1230 to E-1480	N-434280 E-2785989	
2a	Location of development w.r.t lease area	14-1030-14-1230-02-1	& N-434910 , E-2785323	
		Topsoil-Nil	Topsoil-Nil	
2b	Separate benches in topsoil, overburden and	OB-704mRL to 700 mRL	OB Benches-704mRL to 696	
	mineral(Rule 15)	Limestone-704 mRL to 673 mRL	mRL	
			Limestone-696mRL 667 mRL	
		1:0.35	1:0.86	
2c	Stripping ratio or ore to OB ratio (T/m3)	1.0.33		
2.1	Quantity of topsoil generation in m3	NIL	7	
2d		216049.6	528824.8	
2e '	Quantity of overburden generation in m3			1 -1d towards
	1 - Singaporting officer on developmen	nt It was observed during inspection that	a quarry(Approx. 240*300*20 m) has	been developed towards
2f	General remarks of inspecting officer on development of pit w.r.t type of deposit etc.	It was observed during inspection that a quarry(Approx. 240°300°20 in) has been developed N-NW of the Mining lease(Close to CF Boundary Pillar), however there was no such proposed and 2020-21. Therefore a violation letter under Rule11(1) has been issued to the lesee.		no such proposition

Exploitation		Proposals	Actual work	Remarks
S.N.	ITTEMS		One	
3a		One	1529595	
Bb	Quantity of ROM mineral production proposed in MT	1532657		
3c	Recovery of salable/usable mineral from ROM	100%	100%	
`	production	Nil	374702 T	
3d	Quantity of mineral reject generation		CaO >34%	
3e	Grade of mineral reject generation and thershold value	Nil	MgO <5%	
3f	declared Quantity of sub-grade mineral generation	Nil	Nil	
3g	Grade of sub-grade mineral generation	Nil	Nil	
	Manual/Mechanised method adopted for segregating	Nil	Nil	
3h	from ROM		Nil	
3i	Any analysis or beneficiation study proposed & carried out for sub-grade mineral and reject	No Proposal		
3j	Provision of drilling &blasting in mineral benches	Drilling dia:112mm Hole depth:10m Spacing: 6m Burden :4m Hole Charge: 6-8 kg/ton Blasting method :Slurry / Emulsion/ANFO/Ratio of primer/booster charge and ANFO/column charge will be 10-20:90-80, MS delay detonators /Nnonel/Relays with cordex detonating fuse/electric detonator	Drilling dia:112mm Hole depth: 9.0 m Spacing: 4.5 Burden: 3.5 Hole Charge: 6.5 kg /ton Blasting method: Primer Charge Cap sensitive explosive (Nitrate mixture)- Slurry /Emulsion Column Charge- Non Cap sensitive explosive (Nitrate mixture)- Slurry / Emulsion/ANFO	>-

	Movision of mining machineres in the	Drilling Machine-2 Excavator Back Hoe-4 Excavtor Front end loading-2 Hyva Tipper-04 Volvo Dumper-10 Water Tanker-01 Explosive Van-01 Maintenance van -01 Rock Breaker-01 Ambulance-01	Drilling Machine-2 Excavtor Bach Hoe-2 Excavtor Front end loading-1 Hyva Tipper-04 Volvo Dumper-6 Water Tanker-01 Explosive Van-01 Maintenance Van -01 Rock Breaker-01 Ambulance-01 Dozer-01 Compactor-01 HSD Tanker-01	
31	Whether height of benches in overburden and mineral suitable for method of mining proposed in MP/SOM	OB-6m, Ore-9m	OB-6m, Ore-9m	
	Total area covered under excavation / pits in Hec.	22.74	17.97	
3m	Ore to OB ratio for the pit/mine during the year	1:0.35	1:0.86	
3n	Total area put in use under different heads at the end	43.94	28.0	
30				
3p	of year in Hec. Production of ROM mineral during last five year, as applicable in MT	2015-16: NIL 2016-17: NIL 2017-18: 876581.00 MT 2018-19: 1290272.00 MT 2019-20: 1532657.00 MT	2015-16: NIL 2016-17: NIL 2017-18: 543391.0 MT 2018-19: 1244150.00 MT 2019-20: 1529595.00 MT	
3q	General remarks of inspecting officer on method of mining etc			

Solid Waste Management- Dumping Remarks Actual work Proposals Yes, Separate dumping for Items S.N. N.A. Separate dumping of topsoil, OB & mineral OB/Mineral Reject/Topsoil 4a reject(Rule 32, 33) Location of topsoil, OB & mineral reject dumps N25°11'2.0"-E92°21'24.5" & N25°10'51.9"-E92°21'19.8" and N25°11'6.2"- E92°21'53.2" 4b N25°10'52.0"- E92°21'44.5" High MgO Limestone Stack-N25°11'2.0"-E92°21'44.4" and Topsoil - No proposal N25°11'10.0"- E92°21'36.1" Topsoil-N25°11'17.4"-E 92°21'11.8" N25°11'17.8"-E 92°21'11.34" No dump outside lease area Number of dumps within lease area and outside lease 4c With in UPL N25°11'2.1"-E92°21'24.5" and N25°10'51.9"-E 92°21'19.8" Location of dumps w.r.t ultimate pit limit N25°10'52.0"- E92°21'44.5" 4d & (Rule 16) N25°11'6.2"- E92°21'53.2" Topsoil-N25°11'17.4"-E 92°21'11.8" Topsoil - No proposal Only one waste dump Number of active & alive dumps 4e 4f Nil Nil Number of dead dumps Nil Nil Number of dumps stabilished Retaining wall: 169 4g 4h Retaining wall: 0.02 Ha Whether Retaining wall or garland drain all along Garland drain :369m Garland Drain:0.004Ha Retaining wall: 169 Garland drain :369m 119m Retaining wall: 0.02 Ha dump Length of Retaining wall or garland drain all along 4i Garland Drain:0.004Ha dump It was observed that dumps have crossed Mining Lease Boundary. Therefore a violation letter issued for violations of MCDR-2017 against Rulel 1(1) dated 24.09.2020 Nil Number of settling ponds 4j 4k

Specific comments of inspecting officer on waste

dump management

d Waste Management- Backfilling

S.N.	Items	Proposals	Actual work	Remarks
5a	Status on part or full extraction of mineral from mined out area before starting backfilling	Nil	Nil	The mine is not mature till the date of backfilling. So, no proposal of backing in the reporting year.
5b	Area under backfilling of mined out area in Sq. mtr.	Nil	Nil	The mine is not mature till the date of backfilling. So, no proposal of backing in the reporting year.
5c	Concurrent use of topsoil for restoration or rehabilitation of mined out area	Nil	Nil	The mine is not mature till the date of backfilling. So, no proposal of backing in the reporting year.
5d	Total area fully reclaimed & rehabilitated	Nil	Nil	The mine is not mature till the date of backfilling. So, no proposal of backing in the reporting year.
5e	General remarks of inspecting officer on backfilling, reclamation etc	The mine was opened on 10.07.20	17 and the mine is not mature till date.	proporting year.

Progressive Mine Closure Plan

S.N.	Items	Proposals	Actual work	Remarks
5a	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	As per Rule26(2) PMCP report to be submitted before 1st day of July every year.	Submitted for the reporting year.	Iveniaris
6b	Management of worked /mined out benches i)Area available for rehabilitation (ha) ii)Afforestation done(ha) ii) 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) NA ii) NA iii) NA iii) NA iv) NA v) Nil vi) NA	i) NA ii) NA iii) NA iv) NA v) Nil vi) NA	
oc.	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) NA ii) NA iii) NA iii) NA iv) NA v) Nil vi) NA	ii) NA iii) NA iiii) NA iv) NA v) Nil vi) NA	
d	Compliance of Rehabilitation of waste land within lease i) Afforestation ii) Area rehabilitated(ha) iii) Method of rehabilitation	i)500saplings within the lease area ii) 0.80 Ha iii)Green Belt Developement	i)1559 Saplings planted within lease area ii) 0.64 Ha. iii) Green Belt Development	
e	Compliance of Environmental monitoring (core zone & buffer zone)	Proposal of Quarterly Monitoring given for Air, Noise and Water Qaulity	Monitoring is done as per the proposal.	
f	General remarks of inspecting officer on PMCP compliance & progressive closure operations	The lessee has carried out the afforestation as	nd enviornmental monitering as per	the proposal.

Mineral Conservation

S.N.	Items	Proposals	Actual work	Remarks
7a	ROM Mineral dispatch or grade-wise sorting within	Produced ROM will be directly sent to the	Produced ROM has directly sent	
	lease area	Crusher from the mine	to the Crusher from the mine	
7b	Method of grade -wise mineral sorting i.e manual or mechanical	Mehanical	Mechanical	
7c	Different grade of mineral sorted out at mines	Nil	Nil	
7d	Any beneficiation process at mines	Nil	Nil	
7e	General remarks of inspecting officer on Mineral conservation & beneficiation issues	No proposal of Mineral beneficiation was gi	iven for the reporting year.	

Environment

S.N.	Items	Proposals	Actual work	Remarks
8a	Separate removal and utilization of topsoil (Rule 32)	No Proposal	4140 m3	Generated topsoil was used for plantation, Therefore, no permanent storage
8b	Concurrent use or storage of topsoil	No Proposal	No permanent storage,used concurrently	permanent storage
8c	Separate dumps for overburden , waste rock , rejects and fines(Rule 33)	Yes	OB Dump-2 Benches From 684 mRL to 696mRL High MgO limestone Stack-2 Benches from 686 mRL to	

1	Use of overburden , waste rock, rejects and fines dumps for restoring the land to its original use	Nil	Nil	
8e	Phased restoration, reclamation and rehabilitation of lands affected by mining operations(pits, dumps etc)	Nil	Nil	
8f	Baseline information on existence of plantation & additional plantation done(Rule 41)	500	559 saplings planted along safety zone	
8g	Survival rate	80%	70%	
8h	Water sprinkling on roads to control airborne dust	Water Sprinkling on roads to control the dusts were proposed.	Yes,Water sprinkler provided along haul road in addition to 12 KL water tanker	
8i	General remarks of inspecting officer on aesthetic beauty in and around mines area	Lessee has planted 559 nos. of saplings alor mine to control the dust. This sustains the a	ng the lease boundary. And has carried out water sprinkling sthetic bueaty of the mine	ginside

Compliance of Rule 45

S.N.	Item	Comments		Remarks
9a	Status of submission of Monthly and Annual returns	Monthly Return submitted upto	Nov-20	
		Annual Return submitted upto	FY- 2019-20	1
9b	Scrutiny of Annual return for information on Mining Engineer, Geologist and Manager	Mining Manager-Sh.Shishupal Singh Mining Engineer-Sh.Shishupal Singh, Geologist-Sh. Chandrashekar Sharma	1.Mines Manager-Sh.Shishupal Singh 2. Mining Engineer-Sh.Shishupal Singh, 3.Geologist- Sh. Chandrashekar	
9c	Scrutiny of Annual return on land use pattern for area under pits, reclaimed area, dumps etc.	Pit::22.74 Dump:17.20 Infrastructure:2.80 Green Belt: 1.20 Total: 43.94	Pit::17.97 Ha. Dump:8.97 Others:0.510 Total:	
9d	Scrutiny of Annual return on afforestation	Saplings: Within Lease:500	Saplings :559 with survival rate of 70%	
9e	Scrutiny of Annual return on mineral reject generation(Grade & Quantity)	Nil	374702 (CaO<34 & MgO>3.84	
9f	Scrutiny of Annual return on ROM stock and/ or graded ore	Opening Stock-0.00 Production-1529595.00 Dsipatch-1529595.00 Closing Stock-0.00 There is no separate stock for graded ore.	Opening Stock-0.00 Production-1529595.00 Dsipatch-1529595.00 Closing Stock-0.00 There is no separate stock for graded ore.	
9g	Scrutiny of Annual return on sale value, Ex. Mine price & production cost	Ex-Mine Price- 297.65 rupees	Crossed checked it from returns and found it correct.	
9i	Scrutiny of Annual return on fixed assets	Rs.3269417126.00	Verified from the asset register and found correct.	
9k	Scrutiny of Annual return on mining machineries	1.Shovel-1 2. Backhoe-2 3. Dumper-6 4. Tipper-6 5.Rock Drill-2 6.Air Compressor-2 7. Crusher-1	Verified from the submitted annual machinery statement.	

Details of Violation observed during current inspection and compliance position of earlier violation pointed out:
It was observed during inspection that a quarry(Approx. 240*300*20 m) has been developed towards N-NW of the Mining lease(Close to CF Boundary Pillar), however there was no such proposal in the year 2019-20 and 2020-21. Therefore a violation letter under Rulel 1(1) has been issued to the lesee. The last violation was issued dated 19.10.2020 against Rule11(4) whose compliance is under process.

Name of inspecting officer with designation and date