MCDR INSPECTION REPORT

Name of Inspecting officer and Designation- Vikas Kumar, ACOM; Date of Inspection-05.09.2023

	Particulars	Details
1 2	Name of the Mine Total Lease Area (Ha) with breakup of Non-	UmsooMootang Limestone Mine (DCBL) Block-V Total Lease Area 128.52 Ha Forest Land.
2	forest	Total Lease Area 120.52 Ha Forest Lanu.
	and forest land	
3	Mine code	38 MEG 03015
<u> </u>	IBM Registration Number under rule 45 of	IBM/929/2011
4	MCDR,	IDIVI/929/2011
	1988	
5	Name of the lessee, Address, phone, email and	Name of the lessee:- M/s Dalmia Cement (Bharat)
5	fax number	Limited
	lax humber	Address of Registered office:
		M/S Dalmia Cement (Bharat) Limited, Dalmiapuram,
		Tamilnadu
6	Village	Dalmiapuram,
7	Taluk/Mandal	Nil
8	District	Tiruchirapalli
9	Pincode	621 651
-	State	Tamilnadu
10		
11	Post office	Dalmiapuram
12	Nearest police station	Kallakudi
13	Nearest Railway station	KallakkudiPalanganatham
14	Date of Grant of Mining Lease	14/12/2016
15	Date of Execution	21/12/2016
16	Date of opening of Mine	12/07/2017
17	Date of first Renewal, if applicable and its	NA
	period &	
	expiry	
18	Date of second Renewal, if applicable and its	NA
	period	
	& expiry	
19	Date of submission of renewal application if	NA
	Mining	
	Operations are continuing under deemed	
	extension	
20	Name of the Nominated Owner with Address,	Sh. Venkatesan Thyagarajan
	phone, email, fax number and date of	M/s Dalmia Cement (Bharat) Limited
	appointment	Village : Thangskai, P.O. Lumshnong,
		District: East Jaintia Hills, Meghalaya.793 210.
		Date of appointment: 18.05.2018
21	Name of the Mine Agent with Address,	Raju Ranjan Prasad
	phone, email, fax number and date of	M/s Dalmia Cement (Bharat) Limited,
	appointment	Village : Thangskai,P.O. Lumshnong,
	-FF Smaller	District : East Jaintia Hills, Meghalaya. 793 210.
		Email- prasad.raju@dalmiacement.com
		Mob: 9862088558 Date of Appointment:-28.09.2022
22	Name of the Mines Manager with Address,	Sh.Shishupal Singh
	phone, email, fax number	M/s Dalmia Cement (Bharat) Limited,
	and date of appointment in mines	Village : Thangskai, P.O. Lumshnong,
	and all of appointment in milleo	District : East Jaintia Hills, Meghalaya. 793210.
		Email-singh.shishupal@dalmiacement.com
		• •
		Mob:7085099840,
<u></u>	Nome of the Mining Desired	Date of Appointment: 16.05.2017
23	Name of the Mining Engineer,	Sh.Shishupal Singh,B.E. (Mining), 21 Years experience
	Qualification and total experience with	M/s Dalmia Cement (Bharat) Limited,
	Address, phone, email, fax number and	Village : Thangskai,P.O. Lumshnong,
	date of appointment in mine	District : East Jaintia Hills, Meghalaya. 793210.
		Email-singh.shishupal@dalmiacement.com
		Mob:7085099840,
		Date of Appointment: 16.05.2017
24	Whether Geologist and Mining Engineer	Yes.
	appointed	Mining Engineer:- Sh. Shishupal Singh, B.E. (Mining),
	in mines satisfy the rule 42 & carrying out	Experience: 21 Years,
	their duties as per rule 43 & 44.	Date of appointment:-16.05.2017
	aich duites us per fuie 45 cc 44.	Geologist : Prasenjit Chatterjee; Experience: 9 years

		1	
1/22072/202	25	Date of Approval of Mining Plan/Modified	1. MP-314(3)/2009 MCCM(CZ)/MP-33 date 29.04.2010
		Mining Plan with five-year period and	2. MOM-IBM/GHY/MEG/JNH/LST/MP-84 date 29.08.17
		specific condition in approval letter, if any.	3.ROMP- IBM/GHY/MEG/JNH/LST/MP-
			84,Date:09.09.2021
	26	Date of Approval of Scheme of	N.A.
		Mining/Modified	
		Scheme of Mining with five-year period and	
		specific condition in approval letter, if any.	
	27	Mineral(s) granted in lease and proved for mining	Limestone
	28	Method of Mining(Opencast, Underground)	Opencast Working
	29	Category (Fully Mechanised, Others or Manual)	Fully mechanized
	30	Captive/ Non captive	Captive

Scientific Mining: Compliance of proposals of approved mining plan/scheme of mining. (Duplication of information in existing TMIS data sheets and draft write up has been avoided.) **Exploration**

S.N.	Item	Proposals	Actual work	Remarks
1a	Backlog of previous year	2022-23-No exploration proposal But in the year 2021- 22-6 Borehole (3 NOS. NQ CORE (200MX200M)- 180M & 3 Nos. DTH (100MX100M)- 150M) Total 330 m drilling	In the financial year 2021-22, 6 BH has been done. (DBH-1, 7, 19, 25, 33A, 38). Now till depth mineralization Core Bore Hole is going on. 3 Boreholes (DBH- 41,42, 43) has been done in the year 2023- 24 and remaining 3 core boreholes are in process for the year 2023-24.	Full Exploration not completed yet. Violation u/r 11(1) of MCDR- 2017 already issued and is under process of compliance.
1b	Exploration over lease area for Geological axis 1 or 2.	Nil during 2022-23. 10.52 Ha of G2 level area to be explored in G1 level.	Exploration to completed for converting G2 level area to G1 level.	Exploration drilling under progress.
1c	Exploration Agency & Expenditure in lakh Rupees during the year	No such details available in approved RMP.		
1d		pe10.52 Ha	Exploration to completed for converting G2 level area to G1level.	
1e	Balance reserves as on closing of 16.03.2023	91,256,393 MT (91.256 Million Tonnes)	91,865,322 MT (91.769 Million tonnes)	93,021,330 MT (93.021 Million Tonnes) balance reserves as on 01.04.2022.
1f	General remarks of inspecting officer of geology, exploration etc.	6317.54	illing for converting G	drilled for a total meterage of 2 level explored area to G1 level of

Development

S.N.	Item	Proposals	Actual work	Remarks
2a	Location of development w.r.t. lease area	N 2785515-2785850, E 434400- 434935 (Development 2022- 23). N 2785375-2785816, E 434306-434935 (ROM Mining 2022- 23).	Both Development and production has not been carried out in the proposed ML area as approved in the Review of Mining Plan for 2022- 23.	Violation issued on 28.04.2023 u/r 11(1) of MCDR_2017 for deviation during previous inspection.
2b	Separate benches in	To maintain separate	Separate Benches	

1,00070,0000			
I/22072/2023	topsoil, overburden and	benches of overburden	of
	mineral (Rule	and mineral as per rule	Overburden and
	15)		mineral are being
	15)		
			maintained.
20	Stripping ratio or ore to	1:0.288	1:0.72
	OB ratio		
20	Quantity of topsoil	NIL	NIL
	generation in m3		
	generation in his		
26	Quantity of overburden	246725.5m ³	407928.5
	generation in m3		m3
	generation in mo		
2f	General remarks of	Lessee has developed fre	sh area for mining due to which OB generation is more.
	inspecting officer on	Violation already issued	on 28.042023 u/r 11(1) of MCDR_2017 for deviation
	1 0		
	development of pit		/11,
	w.r.t. type of deposit		
	etc.		

Exploitation

S.N.	Item	Proposals	Actual work	Remarks
3a	Number of pits proposed for production	one	One	As per proposal
3b		1747410 MT(2022-23 FY)	1218895 MT	
3c	Recovery of salable/usable mineral from ROM production	91.71%	100%	Mining done in different area in comparison to proposed area due to which no Mineral reject was generated and blended.
3d	Quantity of mineral reject generation (Ton)	407851.20 T	0	Due to deviation in mining area as approved in RMP, MR has not generated. Violation issued on 28.042023 u/r 11(1) of MCDR_2017 for deviation in mineral reject generation.
3e	Grade of mineral reject generation and threshold value declared	Cao- 37.74%, MgO-6.77%	-	Not generated
3f	Quantity of sub-grade mineral generation	NIL	NIL	
Зg	Grade of sub-grade mineral generation	NIL	NIL	
3h	Manual / Mechanized method adopted for segregating from ROM	Mechanized	No segregation carried out.	
3i	Any analysis or beneficiation study proposed & carried out for sub-grade mineral and reject	Not applicable.	N.A.	
Зј	Provision of drilling & blasting in mineral benches	mm/18- 01 Drill hole Dia: 110 mm Hole depth :9 m Spacing : 4.5 m Burden: 3.5 m	During 2022-23 Drill Machine-110mm-02 Drill Machine-110 mm/18- 01 Drill hole Dia: 110 mm Hole depth :9 m Spacing : 4.5 m Burden: 3.5 m	
		Blasting Method: Slurry/ Emulsion/ANFO/Ratio of Primer/ booster charge and ANFO/column charge will be 10-20:90-80, MS delay detonators/ nonel/ Relays with cordex	Blasting Method: Slurry/ Emulsion/ANFO/Ratio of Primer/ booster charge and ANFO/column charge will be 10-20:90-80, MS delay detonators/ nonel/Relays with cordex detonating	

1/22072/2023		detonating fuse/electric detonator	fuse/electric detonator	4	
3k	Provision of mining machineries in mineral benches	Hydraulic Excavator 3.1 cum-02 Hydraulic Excavator 1.6 cum-01 Dumper 35 MT -03 Dumper 28 MT-08 Drill Machine-110mm- 02 Drill Machine-110 mm/18- 01 Rock Breaker-01 Dozer-01 Compactor-01 Water Tanker-01 Explosive van-01 HSD Tanker-01	Hydraulic Excavator 3 cum-02 Hydraulic Excavator 1 cum-01 Dumper 35 MT -03 Dumper 28 MT-06 Drill Machine-110mm Drill Machine-110 mm 01 Rock Breaker-01 Doz Compactor-01 Water Tanker-01 Explosive van-01 HSD Tanker-01	1.6 n-01 n/18-	
31	Whether height of benches in overburden and mineral suitable for method of mining proposed in MP/SOM	OB-6m, Ore-9m suitable	OB-6m, Ore-9m		
3m	Total area covered under excavation/pits	24.66 На.	25.30 Ha.		FY 2022-23 . Due to winning ore from a fresh area. Violation already given in previous inspection.
3n	Ore to OB ratio for the pit/ mine during the year	1:0.288	1:0.72		
30	Total area put in use under different heads at the end of year	51.98 Ha.	42.63 Ha.		
Зр	Production of ROM mineral during last five- year period, as applicable	2017-18:- 876581.00 MT 2018-19:-1290272.00 MT 2019-20:-1532657.00 MT 2020-21:-1512465.00 MT 2021-22:- 1661123.00 MT 2022-23:- 1747410.00 MT	2017-18:- 543391.00 1 2018-19:-1244150.00 2019-20:-1529595.00 2020-21:-1214939.00 2021-22:- 1393596.00 2022-23:- 1156008.00	MT MT MT) MT	
3q	officer on method of mining etc.	Ore has been exploited from the year 2022-23.Mechaniz moving machineries and w	ed Mining is being car	ried out	by deploying heavy earth
	aste Management-Dumping Item	Proposals	Actual work B	Remarks	
4a	Separate dumping of topsoil, OB & mineral reject (Rule 32, 33)	Separate dumping of topsoil, OB & mineral reject proposed. OB-X-435657-435450, Y-2785404-2785200 Waste -X-434807- 434474, Y-2786225- 2786247,Mineral Reject- X-435587- 435446, Y-2785705- 2785635	Separate dumping of OB(Sandy soil) & waste done during 2022-23. a OB- X-435490- 435736, Y- 2785218-2785391 v Waste-X-434680- 434760, Y- 2786224-2786357 a	. It has b lump mac pproved riolation l	een observed that the le beyond the places as per mining plan .In this regard as been served on 3 under Rule 11(1) of
4b	Location of topsoil, OB & mineral reject dumps	OB-X-435657-435450, Y-2785404-2785200 Waste -X-434807- 434474, Y-2786225- 2786247,Mineral Reject- X-435587- 435446, Y-2785705- 2785635	Location of OB & mineral reject dump is in the area as approved in the RMP. OB- X-435490- 435736, Y- 2785218-2785391 Waste-X-434680- 434760, Y- 2786224-2786357		

1/22072/2023	40	Number of dumps within	Within lease area 3	Within lease area 3	Dump exist outside lease area . In
	40	lease area and outside lease area	dumps present 1) Red soil dump, 2) Sandstone dump, 3) Mineral reject dump	dumps present 1) Red soil dump, 2) Sandstone dump, 3) Mineral reject dump	this regard violation has been served on 22.09.2023 under Rule 11(1) of MCDR.
2	4d	Location of dumps w.r.t. ultimate pit limit (Rule 16)	Within the UPL	Within the UPL	Dump exist outside lease area . In this regard violation has been served on 22.09.2023 under Rule 11(1) of MCDR.
	4e	Number of active & alive dumps	Within lease area 3 active dumps present 1) Red soil dump, 2) Sandstone dump, 3) Mineral reject dump	Within lease area 3 active dumps present 1) Red soil dump, 2) Sandstone dump, 3) Mineral reject dump	All dumps are active.
4	4f	Number of dead dumps	NIL	NIL	
4	4g	Number of dumps stabilized	NIL	NIL	
	4h	Whether Retaining wall or garland drain all along dumps are there	During 2022-23 Retaining wall (200m length)and Garland drain (200m length) proposed in Part of the dump in 0.02 Ha area and 0.02 Ha area	Retaining wall- 540 mt, Garland drain- 711mt exist	
	4i	Length of Retaining wall or garland drain all along dump	During 2022-23 Retaining wall of 200M(L) x 1 m(B) x 1.50 m(H) Garland drain-200M(L) x 1 m(B) x 1 m(H)	Retaining Wall- 121mt(L)X 1mt(B) x 1.50 mt (H) Prepared Along Toe of the Dump, Garland Drain- 166mt	
4	4j	Number of settling ponds	1	2	
4	łk	Specific comments of inspecting officer on waste dump management.	garland drain is being con	structed in phase wise	has been done. Retaining wall and e manner along the waste dump. ns served under Rule 11(1) on

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 such proposal approved.	Mineral is yet to be mined out.	As of now no part of the lease area is matured to start back filling.	
5b	Area under backfilling of mined out area	No such proposal approved.	Nil	-do-	
5c	Concurrent use of topsoil for restoration or rehabilitation of mined out area (Rule 32)	proposal	Whenever topsoil generation is there it is being utilised for green belt development in 7.5m safety zone area.During 2022- 23 there is no top soil generation.		
5d	Total area fully reclaimed & rehabilitated	No such proposal Approved.	Nil		
5e	General remarks of inspecting officer on backfilling, reclamation etc	Mineral is yet to be mined out, hence no part of the lease area is matured to start back filling, reclamation.			

Progressive Mine Closure Plan

S. No	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.	As per rule 26 (2) PMCP report to be submitted before 1 st day of July every year	Annual report on PMCP submitted along for 2022-23 on 29.06.23	

l/22072/2023 _{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	No such proposal approved. ii) NA iii) NA iii) NA iv) NA v) NA v) NA vi) NA	i) NA ii) NA iii) NA iv) NA v) NA vi) NA	Mineral yet to exhaust and the mining activity is in dynamic stage. Hence, no rehabilitation of mined out benches.
6c	during the year 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 iv) Any other specific means	No such proposal approved. i) NA ii) NA iii) NA iv) NA v) NA v) NA vi) NA	i) NA ii) NA iii) NA iv) NA v) NA v) NA vi) NA	-do-
6d	Compliance of Rehabilitation of waste land within lease i) Afforestation ii) Area rehabilitated (ha) iii) Method of rehabilitation	No such proposal approved.	No waste land within the ML hence no Rehabilitation of waste land.	
6e	Compliance of Environmental monitoring (core zone & buffer zone)	Quarterly Monitoring for ambient Air, Noise and water quality.	Monitoring is being carried out for ambient air, Water, Noise level and results are within the limits.	
6f	General remarks of inspecting officer on PMCP compliance & progressive closure operations	no reclamation and re	and the mining activity is habilitation by back fill ave been done. Lessee	in dynamic stage. Hence, ing and rehabilitation of is doing environmental

Mineral Conservation

S.N.	Item	Proposals	Actual work	Remarks	
7a	ROM Mineral dispatch or	No such proposal	ROM sent to crusher		
	grade- wise sorting within	approved.	from mine. The entire		
	lease area		ROM was dispatched		
			to the captive plant.		
			No mineral reject has		
			been		
			generated.		
7b	Method of grade-wise	No such proposal	Entire ROM is		
	mineral sorting i.e. manual	approved.	dispatched to crusher.		
	or mechanical		No mineral sorting		
			done		
			during 2022-23.		
7c	Different grade of mineral	No such proposal	Nil		
	sorted	Approved.			
71	out at mines		NT'I		
7d	Any beneficiation process	No such proposal	Nil		
	at mines	approved as entire			
		Limestone is directly			
		usable.			
7e	General remarks of	Violation has been issued u/r 11(1) for not producing the Mineral reject and			
	inspecting officer on Mineral				
	conservation	previous inspection.			
	& beneficiation issues				

Environment

S.N.	Item	Proposals	Actual work	Remarks
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l/22072/2023 _{8a}	Separate removal and utilization of topsoil (Rule 32)	To be removed separately.	Nil	
8b	Concurrent use or storage of topsoil	Topsoil to be used for plantation and additional quantity to be stored.	Nil	
8c	Separate dumps for overburden, waste rock, rejects and fines (Rule 33)	Separate dump proposed for waste, reject, OB.	Within lease area 3 dumps are present 1) Red soil dump 2) Sandstone dump 3) Mineral reject dump	
8d	Use of overburden, waste rock, rejects and fines dumps for restoring the land to its original use	No such proposal approved.	Nil as no part of the lease area is matured to start backfilling.	
8e	Phased restoration, reclamation and rehabilitation of lands affected by mining operations (Pits, dumps etc)	No such proposal approved.	Nil	
8f	Baseline information on existence of plantation & additional plantation done (Rule 41)	During 2017-18 to 2022-23 it was proposed to plant 2850 nos plant in 7.5m safety barrier zone over an area of 1.8 Ha area.	i) No of trees planted during the year:- 865 (WML), 715 (OML) ii) Total no of trees at the end of the year:- 2845 (WML), 3591 (OML)	
8g	Survival rate	NA	WML- 75 %	
8h	Water sprinkling on roads to control airborne dust	Yes	Yes, Static Water sprinkler and water tanker 12KL capacity is used for to control the airborne dust	
81	General remarks of inspecting officer on aesthetic beauty in and around mines area			

Compliance of Rule 45

S.N.	Item	COMMENTS		Remarks
9a	Status of submission of Monthly and Annual returns	M.R. Submitted up to August-23. Annual return for FY2022-23 submitted.		
S.N.	Item	Details GIVEN in A.R2022-23	Observation of I/Officer (2022-23)	Remarks
9b	Scrutiny of Annual return for information on Mining Engineer, Geologist and Manager	Shri Shishupal Singh, Mining Engineer & Mines Manager. Shri C.S. Sharma, Geologist	Mining Engineer: Shishupal Singh Geologist: Prasenjit Chatterjee	
9c	Scrutiny of Annual return on land use pattern for area under pits, reclaimed area, dumps etc.	Pit : 21.69 Ha. Temporary dump: 17.56 Ha.	Pits - 25.30 Ha. Reclaimed area - NIL Dumps- 17.341	Violation u/r 11(1) of MCDR- 2017 issued for not mining as per the approved proposal in 2022-23 during previous inspection
9d	Scrutiny of Annual return on afforestation	Saplings : 425 nos. 0.3Ha.) within Lease	Saplings: 865 within Lease	
9e	Scrutiny of Annual return on mineral reject generation (Grade & quantity)	Nil	Nil	During 2022-23 Nil tonnes of mineral reject has been generated.
9f	Scrutiny of Annual return on ROM stock and/or graded ore	Opening stock-0.00 Production- 1218895.00 T Despatch:- 1218895T	Opening stock-0.00 Production- 1218895.00 T Despatch:- 1218895T	

1/22072/2023

2 3		Closing Stock- 0.00	Closing Stock- 0.00	
		There is no separate	There is no separate	
		stock for graded	stock for graded	
		ore.	ore.	
9g	Scrutiny of Annual return on	Production Cost-	As reported by Lessee	
	sale value, Ex. Mine price &	Rs. 374.50	the cost/tonne	
	production cost	Rupees/ton	is	
		-	Rs. 374.50.	
9h	Scrutiny of Annual return on	₹ 809885002	As reported by Lessee	
	fixed assets		the value of fixed	
			assets is Rs.	
			₹ 809885002	
9i	Scrutiny of Annual return on	1. Shovel-1	1. Shovel-1	
	mining machineries	2. Backhoe-2	2. Backhoe-2	
		3. Dumper-6	3. Dumper-6	
		4. Tipper-3	4. Tipper-3	
		5. Rock drill-2	5. Rock drill-2	
		6. Air compressor-	6. Air compressor-2	
		2	7. Crusher-1	
		7. Crusher-1	8. Dozer-1	
		8. Dozer-1		

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

The previous violation issued u/r 11(1) is still pending and compliance under progress.

During the current inspection violation letter has been issued for violating the provisions of rule 11(1) of MCDR-2017.

(Vikas Kumar)

(Name of inspecting officer with designation and date)