INDIAN BUREAU OF MINES MINERALS DEVELOPMENT AND REGULATION DIVISION

MCDR INSPECTION REPORT

Chennai regional office

	Mine :	file No : TN/PT/LST-13	6-M	DS		Mine code :	38TMN38021
	(i)	Name of the Inspecting Officer and ID No.	:	TQ03) S	.THIRUNAVUKKARA	SU	
	(ii)	Designation	:	Senior Min	ing Geologist		
	(iii)	Accompaning mine Official with Designation	:	Shri S.Mak	esh,GM(Mines),	R Kamaraj,Mine	Manager,S.Sel
	(iv)	Date of Inspection	:	26/02/2019			
	(v)	Prev.inspection date	:	02/08/2017			
		PAI	RT-	I : GENER	AL INFORMATION		
1.	(a)	Mine Name	:	PERIATHIRU	KONAM(64.515 HA		
	(b)	Registration NO.	:	IBM/291/20	11		
	(c) (d) (e) (f) (g) (h)	Category Type of Working Postal address State District Village Taluka Post office Pin Code FAX No. E-mail Phone Police Station First opening date Weekly day of rest		A Fully Me Opencast TAMIL NADU ARIYALUR 04329-2353 s.makesh@c 04329-2354 KEELAPALUE 26/03/2001 SUN	chanised 111 dalmiacement.com 459, 9865165326 R	n	
2.	Addre corre	ess for espondance	:	DALMIA CEM DALMIAPURA TRICHY.	ENT (B)LTD M-621651		
3.	(a) (b) (c) (d)	Lease Number Lease area Period of lease Date of Expiry	::	TMN1542 44.7 25 23/01/2036			
4.	Miner	ral worked	:	LIMESTONE	Mai	n	

5.	Name and Address of	the	
	Lessee	:	DALMIA CEMENT (BHARAT) LIMITED
			TIRUCHIRAPALLI TAMIL
			NADU Phone:
			FAX :
	Owner	:	T. VENKATESAN
			Dy. Managing Director
			Dalmia Cement (B) Ltd Chennat City Tamii, Nadii
			Phone: 044-28279933, 9
			FAX : 044-28276508
	Agent	:	R A KRISHNAKIIMAR
	Agene	•	Everytive Director Dalmia
			cements(B) Ltd.,
			Dalmiapuram TIRUCHIRAPALLI
			TAMIL NADU
			PHOHe = 04329 - 294032
			FAA • 04329-233111
	Mining Enginee	r	
	Name	:	S.RADAKRISHNAKANTH,Full Time
	Qualification	:	BE(MINING)
	Appointment/	:	03/12/2012
		LE	
	Geologist		
	Name	:	S. Selvakumar,Full Time
	Qualification	:	M.Sc. (Applied Geo)
	Appointment/	:	03/12/2012
	Termination da	te	
	Manager		
	Name	:	R.KAMARAJ
	Qualification	:	M.Sc GEOLOGY
	Appointment/ Termination da	: te	04/01/2016

6. Date of approval of Mining : Fresh under rule 22 MCR1960 Plan/Scheme of Mining Mining Scheme rule 12 MCDR198
 Fresh under rule 22 MCR1960
 20/07/2004

 Mining Scheme rule 12 MCDR1988
 25/02/2015

PART - II : OBSERVATION/COMMENTS OF INSPECTING OFFICERS

Exploration :

Sl.No.	Item	Proposals	Actual work	Remarks
1a	Backlog of previous year	NIL	NIL	No Backlog of previous year
1b	Exploration over lease area for geological axis 1 or 2	NIL	NIL	The entire lease hold area explored under 111 level
lc	Exploration Agencies and Expenditure in lakh rupees during the year	Not applicable	Not applicable	The entire lease hold area explored under 111 level
ld	Balance area to be explored to bring Geological axis in 1 or 2	NIL	NIL	The entire lease hold area explored under 111 level
le	Balance reserve as on 01/04/20		(111) - 1517875 Tons (211) - 4718129 Tons (221) - 1344854 Tons	reserves as on 01.04.2018
lf	General remarks of inspecting officers on geology, exploration etc			geology, exploration id founs satisfactory

Development :

Sl.No.	Item	Propasals	Actual work	Remarks
2a	Location of development w.r.t.lease area	4th,,5th , 6th& 7th bench	4th,,5th , 6th& 7th bench	Asper the proposal
2b	Separate benches in topsoil, overburden and minerals (Rule 15)	Yes proposed	As per the proposal	No deviation obsedved
2c	Stripping ratio or ore to OB ratio	1:1.12	1:1.10	nil
2d	Quantity of topsoil generation in m3	NIL	NIL	During the year no topssoil development
2e	Quantity of overburden generation in m3	645548	77319	Due to less production

2f General remarks --of inspecting officers on development of pit w.r.t. type of deposit etc

Exploitation:

Sl.No.	Item	Propasals	Actual work	Remarks
3a	Number of pit proposed for production	one	one	as per the proposal
3b	Quantity of ROM mineral production proposed	575182 MT	419600MT	with in the limite
3с	Recovery of sailable/usable mineral from ROM production	100%	100%	NIL
3d	Quantity of mineral reject generation	NA	NA	No mineral reject generation
3e	Grade of mineral rejects generation and threshold value declared.	High Ferruginous Limestone	High Ferruginous Limestone	Blanded with High grade
3f	Quantity of sub grade mineral generation.	19831MT	1647 MT	High Ferruginous Limestone
3g	Grade of sub grade mineral generation	Sio2 7.10 - 14.20 Al2O3 1.62 - 4.84 Fe2O3 6.00 - 12.35 CaO 35 - 45.4	Sio2 13.17 Al2O3 3.42 Fe2O3 6.97 CaO 40.32	High Ferruginous Limestone
3h	Manual / Mechanised method adopted for segregating from ROM	Mechanized	Mechanized	
3i	Any analysis or beneficiation study proposed and carried out for sub grade mineral and rejects.	Nil	Nil	No beneficiation study proposed & carried out for sub-grade

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development of pit is found stisfactory

3j	Provision of drilling and blasting in mineral benches	For Drilling ICM260 drill compressor is used. For Blasting, Magazine for Explosives Storage, ANFO Mixing shed & Road Van for Explosives Transporting from Magazine to Blasting Site are available in Mines	For Drilling ICM260 drill compressor is used. For Blasting, Magazine for Explosives Storage, ANFO Mixing shed & Road Van for Explosives Transporting from Magazine to Blasting Site are available in Mines	
3k	Provision of mining machineries in mineral benches	For Loading 30T Class Excavator is used. For Transportation 31 ton Taurs tippers are used	For Loading 30T Class Excavator is used. For Transportation 31 ton Taurs tippers are used	As per proposed in SOM
31	Whether height of benches in overburden and mineral suitable for method of mining proposed in MP/SOM	Bench Height - 6M Bench Width - 10m	Bench Height - 6M Bench Width - 10m	As per proposed in SOM
3m	Total area covered under excavation/pits	13.85 H.a	13.85 H.a	As per proposed in SOM
3n	Ore to OB ratio for the pit/mine during the year.	1:1.12	1:1.10	nil
30	Total area put in use under different heads at the end of year	44.705 ha	44.705 ha	As per the proposal
3p	Production of ROM mineral during the last five year period as applicable	2013-14 487650 2014-15 945552 2015-16 568987 2016-17 590940 2017-18 575182 2018-19- 397512	2013-14 502151 2014-15 636700 2015-16 298600 2016-17 489100 2017-18 419600 2018-19- 372300	
3q	General remarks of inspecting officers on method of mining etc.			method of mining is found to be satisfactory.

Solid Waste Management - Dumping:

Sl.No.	Item	Propasals	Actual work	Remarks
4a	Separate dumping of topsoil, OB and mineral rejects (Rule 32,33)	Backfilling	Backfilling	Overburden is backfilled in limestone excavated area inside the mine
4b	Location of topsoil, OB and mineral reject dumps	two old dumpsN6800- N7000-E7600- E7400 ana N 6700-6900 E7000 E7200	two old dumpsN6800- N7000-E7600-E7400 ana N 6700-6900 E7000 E7200	Observe in the same place
4c	Number of dumps within lease area and outside of lease area	Two existing sump with the lease	Two existing sump with the lease	cureent year backfiliing carrie out as per the SOM
4d	Location of dumps w.r.t. ultimate pit limit (Rule 16)	Backfilling N7800 - N8000 & E7600- E 7650	Backfilling N7800 - N8000 & E7600- E 7650	as per the proposal of SOM
4e	Number of active and alive dumps.	NIL	NIL	Backfilling is under prograssive,hence the existing dumps are inactive
4f	Number of dead dumps.	NIL	NIL	NIL
4g	Number of dumps established.	one	one	NIL
4h	Whether Retaining wall or garland drain all along dumps are there.	Proposed	Provided	As per the proposal
4i	Length of Retaining wall or garland drain all along dumps	300 x 2 x 1 mts	300 x 2 x 1 mts	NIL
4j	Number of settling ponds	NIL	NIL	Not applicable
4k	Specific comments of inspecting officer on waste dump management			waste dump management is found stisfactory

Solid Waste Management - Backfilling:

Sl.No.	Item	Propasals	Actual work	Remarks

5a Status of part Proposed after As per the perposal Nil or full excavation of backfilling is carried extraction of the Limestone out mineral from upto the full mined out area depth, the before starting overburden is backfilling. dumped in the bottom over which the top soil is spread over the back filled area 1.186 ha 5b Area under 1.186 ha durnig the plan backfilling of period 0.99 hect mined out area 5c Concurrent use After top soil is spread over as per the of topsoil for backfilling the top of the proposal restoration or the overburden backfilled area. at the bottom rehabilitation of mineral out of the Mined area (Rule 32) out area, top soil is spread over the top of the backfilled area 5d 4.171 ha 4.171 ha Total area as per the fully reclaimed proposal and rehabilitated 5e General remarks back filling, _ _ _ _ of inspecting reclamation are as officers on pewr the proposal backfilling and reclamation etc.

Progressive Mine Clousre Plan:

Sl.No.	Item	Propasals	Actual work	Remarks
ба	Whether Annual report on PMCP submitted on time and correctly. Rule 23 E(2).	yes	yes submitted in time	Submitted the PMCP every year. For the year submitted on 25.02.19
6b	Area available for rehabilitation (ha) .	Reclaimed / Rehabiliated20 18-19= - 0.98823.75 ha	Reclaimed / Rehabiliated2018-19= - 0.98823.75 ha	NIL
бс	afforestation done (ha).	9.075 ha	9.075 ha	
6d	No. of saplings planted during the year	17-18 =1200.Tree	Achived 1200.Tree	Out side allalong boundary 600 trees

бе	Cumulative no .of plants	3600 saplings	4200 saplings	nil
6f	Any other method of rehabilitation	NA	NA	No othe method of rehabilitation
бg	Cost incurred on watch and care during the year	NIL	NIL	NIL
6h	Compliance on reclamation and rehabilitation by backfilling (i) Voids available for backfilling (Lx B x D	Area Reclaimed 0.988 ha	Area Reclaimed 0.988 ha	NIL
6i	Compliance on reclamation and rehabilitation by backfilling (ii) Voids filled by waste / tailings	NA	NA	Afforestation of Backfilled area - 1300 saplings
6j	Compliance on reclamation and rehabilitation by backfilling (iii)Afforestati on on backfilled area		Area Reclaimed 4.171ha	nil
6k	Compliance on reclamation and rehabilitation by backfilling (iv) Rehabilitation by making water reservoir	NIL	NIL	Reclamation by back filling
61	Compliance on reclamation and rehabilitation by backfilling (v)any other specific means.	NIL	NIL	Reclamation by back filling
бm	Compliance of rehabilitation of waste land within lease (i)afforestation	4.171 ha	4.171 ha	nil
6n	Compliance of rehabilitation of waste land within lease (ii)Area rehabilitation (ha)	NIL	NIL	No waste land with in the lease area.

60	Compliance of rehabilitation of waste land within lease (iii)Method of rehabilitation	Backfillin	Backfillin	NIL
бр	Compliance of environmental monitoring (core zone and buffer zone)	Proposed to carried out every Quarter	M/s. Ensyscon Environmental Lab, Chennai is engaged for monitoring Environmental data on a Quarterly basis	Verified found in as per the proposals
бq	General remarks of inspecting officers on PMCP compliance and progressive closure operations etc.			PMCP compliance & progressive closure operations is founs satisfactory.

Mineral Conservation:

Sl.No.	Item	Propasals	Actual work	Remarks
7a	ROM Mineral dispatch or grade-wise sorting within lease area	575182 MT	419600 MT	nil
7b	Method of grade- wise mineral sorting i.e. manual or mechanical.	Mechanized	Mechanized	
7c	Different grade of mineral sorted out at mines.	NIL	NIL	no sorted out at mines
7d	Any beneficiation process at mines	NA	NA	Nobeneficiation process at mines
7e	General remarks of inspecting officer on Mineral conservation and beneficiation issues			Mineral conservation & beneficiation is taken care and utilizes all mierals

Environment:

8a	Separate removal and utilization of topsoil (Rule 32)	Nil	NIL	No top soil during the proposae year
8b	Concurrent use or storage of topsoil	NA	na	NO top siol generation
8c	Separate dumps for overburden, waste rock, rejects and fines (Rule 33)	NIL	NIL	dumps for overburden, waste rock are use for bckfilling
8d	Use of overburden, waste rock, rejects and fines dumps for restoring the land to its original use	yes	Overburden material is used for Backfilling of the Mined out Area after complete excavation of Limestone	as per the proposal
8e	Phased restoration, reclamation and rehabilitation of lands affected by mining operations (Pits, dumps etc)	Reclamation by Backfilling & Afforestation	Reclamation by Backfilling & Afforestation	NIL
8f	Baseline information on existence of plantation and additional plantation done (Rule 41)		Planted varieties of Trees like Neem, Pungan, Accacia, Subabul, etc and other trees in the backfilled area.	The Area is devoid of any large trees. It contains thorny bushes, natural vegetation like grasses, wild shrubs grown during the monsoon.
8g	Survival rate	90%	90%	NIL
8h	Water sprinkling on roads to control airborne dust	Yes proposaed	Haul Road Water sprinkling carried out with Mobile water tanker having 12KL capacity	NIL
8i	General remarks of inspecting officer on aesthetic beauty in and around mines area			aesthetic beauty in and around mines area is good

Compliance of Rule 45:

Sl.No. Item Propasals Actual work Remarks	
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9a	Status of submission of Monthly and Annual returns	yes	submited	NIL
9b	Scrutiny of Annual return for information on Mining Engineer, Geologist and Manager	Given	Mines Manager - R.Kamaraj Mining Engineer - R.Kamaraj Geologist - S.Selvakumar	As per the notice recived
9c	Scrutiny of Annual return on land use pattern for area under pits, reclaimed area, dumps etc.	given	Lease Area Utilization at the end of FY17-18 Already Exploited & (i)Abandoned by Opencast Workings - 0 ha (ii) Covered under current Workings -13.85 ha (iii) Reclaimed / Rehabiliated - 3.46 ha (iv) Used for Waste Disposal - 0.48 ha (v) Occupied by plant, buildings, residential, welfare buildings & Roads - 0.12 ha	NIL
9d	Scrutiny of Annual return on afforestation	given	No.of Trees planted within the Lease Area during FY17-18 1200. Outside Lease Area FY 17-18- 200 Survival Rate - 90%	NIL
9e	Scrutiny of Annual return on mineral reject generation (Grade and quantity)	Given	Mineral Reject Generated - 1647 tons Grade - High Ferruginous(Medium Grade)	As per the proposal
9f	Scrutiny of Annual return on ROM stock and/or graded ore	Given	(a) Opencast Working - Production -419600MT	as per the proposal
9g	Scrutiny of Annual return on sale value, Ex. Mine price and production cost	Given	Ex.Mine Price - Rs.201.57 Cost of production - Rs.201.57	NIL
9h	Scrutiny of Annual return on fixed assets	Given	Rs.9,17,20,074/-	NIL

9k Scrutiny of Guven Annual return on mining machineries Back Hoe- 2.1 Cu.m - 2 as per the no proposal Dozer - 165HP - 1No Air compressor - 300 CFM - 1no Tipper - 18Cu.m - 16 no Diesel Generator -100KWH - 1no Pump -Electrical -1no

Details of violations observed during current inspection and compliance position of violation pointed out								
Violat	ion observed	Show co	ouse position					
Rule NO.	Issued on Compliance on	Rule NO.	Issued on Compliance on					

Date :

(S.THIRUNAVUKKARASU)

Indian Bureau of Mines