INDIAN BUREAU OF MINES MINERALS DEVELOPMENT AND REGULATION DIVISION

MCDR INSPECTION REPORT

Chennai regional office

	Mine file No : TN/PBR/LST-47.MDS Mine code : 38TMN24046					
	(i)	Name of the Inspecting Officer and ID No.	:	T003) S.THIRUNAVUKKARASU		
	(ii)	Designation	:	Senior Mining Geologist		
	(iii)	Accompaning mine Official with Designation	:	Shri.M.L Balashanugam Shr. M.M.Ramesh		
	(iv)	Date of Inspection	:	18/08/2019		
	(v)	Prev.inspection date	:	28/02/2019		
		PAI	RT-	I : GENERAL INFORMATION		
1.	(a)	Mine Name	:	UNJINI_20.965HA		
	(b)	Registration NO.	:	IBM/4681/2011		
	(c) (d) (e)	Category Type of Working Postal address State District Village Taluka Post office Pin Code FAX No. E-mail Phone	:::::::::::::::::::::::::::::::::::::::	A Mechanised Opencast TAMIL NADU PERAMBALUR NIL arymines@chettinadcement.c< 04329250011		
	(f)	Police Station	:	Sendurai		
	(g)	First opening date	:	20/09/2005		
	(h)	Weekly day of rest	:	SUN		
2.		ess for espondance	:	Shri. G. Raghunath Singh, Vice President Ariyalur Road, Trichy, Kilapaluvur. 621707, Tamil nadu		
3.	(a) (b) (c) (d)	Lease Number Lease area Period of lease Date of Expiry	:	TMN0985 20.96 20 26/02/2026		
4.	Miner	ral worked	:	LIMESTONE Main		

5.	Name and Address of	the	
	Lessee	:	CHETTINAD CEMENT CORPORATION LIMITED
			4TH FLOOR, RANI SEETHAI
			HALL BLDG 603, ANNA SALAI
			CHENNAI CITY TAMIL NADU Phone:044-28292727, 42149955
			FAX :044 - 28291558
	Owner	:	Mr. T. Venkatesan, Nominated Owner
			Dalmia Cement (Bharat)
			Limited Fagun Mansion, 4th floor, 26 C in C Road,
			Chennai CHENNAI CITY TAMIL
			NADU
			Phone: 044 - 28279933
			FAX : 044 - 28276508
	Agent	:	R. A. KRISHNAKUMAR
	2		Executive Director Dalmia
			cements(B) Ltd.,
			Dalmiapuram TIRUCHIRAPALLI TAMIL NADU
			Phone: 04329-294632
			FAX : 04329-235111
	Mining Enginee	r	
	Name	:	GANESHA BOOPATHY.P,Full Time
	Qualification	:	DME, MINING,
		:	02/07/2012
	Termination da	te	
	Geologist		
	Name	:	N BALAKANAN,Full Time
	Qualification	:	M.SE GEOLOGY
			16/10/2013
	Termination da	te	
6.	Date of approval of	Mini	ng : Fresh under rule 22 MCR1960 12/01/2004
	Plan/Scheme of Minin	g	Modif.of approved Mining Plan 05/06/2009
			Mining Scheme rule 12 MCDR1988 05/07/2011 Mining Scheme rule 12 MCDR1988 24/02/2016

PART - II : OBSERVATION/COMMENTS OF INSPECTING OFFICERS

Exploration :

Sl.No.	Item	Proposals	Actual work	Remarks
1a	Backlog of previous year	NIL	NA	Mine fully Explored in G1 Level.
1b	Exploration over lease area for geological axis 1 or 2	NIL	NA	Mine fully Explored in Gl Level.
1c	Exploration Agencies and Expenditure in lakh rupees during the year	NIL	Not applicable	Not applicable,Mine fully Explored .
1d	Balance area to be explored to bring Geological axis in 1 or 2	NIL	NA	All area explored
le	Balance reserve as on 01/04/20	0.146Million Tons	0.146Million Tons	nil
lf	General remarks of inspecting officers on geology, exploration etc			Geology, exploration is found satisfactory

Development :

Sl.No.	Item	Propasals	Actual work	Remarks
2a	Location of development w.r.t.lease area	NE of ML area	As per the proposal	NIL
2b	Separate benches in topsoil, overburden and minerals (Rule 15)	NIL	No proposal during the year	Separate benches in topsoil, overburden are being followed
2c	Stripping ratio or ore to OB ratio	1:0.17	1:0.14	Slight change in the quantity of development.
2d	Quantity of topsoil generation in m3	NIL	Not available	No proposal for 2018-19
2e	Quantity of overburden generation in m3	25299m3	24090m3	NIL

development of pit found satisfactory

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	
3b	Quantity of ROM mineral production proposed	243984 T	243976 Ts	within the limit
3с	Recovery of sailable/usable mineral from ROM production	100%	100%	NIL
3d	Quantity of mineral reject generation	NIL	Not applicable	No mineral reject generation
3e	Grade of mineral rejects generation and threshold value declared.	NIL	Not applicable	No mineral reject generation
3f	Quantity of sub grade mineral generation.	NIL	Not applicable	No sub-grade mineral generation
3g	Grade of sub grade mineral generation	NIL	NA	No quantity of sub-grade mineral generation
3h	Manual / Mechanised method adopted for segregating from ROM	NIL	Total Mineral transported to factory	NIL
3i	Any analysis or beneficiation study proposed and carried out for sub grade mineral and rejects.	NIL	Not applicable	No beneficiation study proposed & carried out for sub-grade mineral and reject
3ј	Provision of drilling and blasting in mineral benches	NIL	Not applicable	Non-Conventional Mining by Rock

3k	Provision of mining machineries in mineral benches	Proposed	Provided	Non-Conventional Mining by Rock
31	Whether height of benches in overburden and mineral suitable for method of mining proposed in MP/SOM	Height-6M Width-6M	Height-6M Width-6M	It is maintained
3m	Total area covered under excavation/pits	10.74 Ha	10.74 Ha	NIL
3n	Ore to OB ratio for the pit/mine during the year.	1:0.17	1:0.14	nil
30	Total area put in use under different heads at the end of year	18.15На	18.15На	nil
3р	Production of ROM mineral during the last five year period as applicable			method of mining is found satisfactory
3q	General remarks of inspecting officers on method of mining etc.			method of mining is found satisfactory

Solid Waste Management - Dumping:

Sl.No.	Item	Propasals	Actual work	Remarks
4a	Separate dumping of topsoil, OB and mineral rejects (Rule 32,33)	NIL	Not applicable	No topsoil generation during the year
4b	Location of topsoil, OB and mineral reject dumps	NIL	Not applicable	Backfilling only
4c	Number of dumps within lease area and outside of lease area	Outside ML:	Within ML : 2 Outside ML: Nil	NIL
4d	Location of dumps w.r.t. ultimate pit limit (Rule 16)	NIL	nA	Backfilling only

4e		-	Backfilling progressive in wester side of ML	AS PER THE PROPOSAL
4f	Number of dead dumps.	1	1	During the year dumps
4g	Number of dumps established.	1	1	Stabilized
4h	Whether Retaining wall or garland drain all along dumps are there.	NIL	Garland drain made along the periphery dump	
4i	Length of Retaining wall or garland drain all along dumps	NIL	Garland drainage length 170 m	
4j	Number of settling ponds	NIL;	NA	Not proposed for the settling pond
4k	Specific comments of inspecting officer on waste dump management			waste dump management is found satisfactory

Solid Waste Management - Backfilling:

Sl.No.	Item	Propasals	Actual work	Remarks
5a	Status of part or full extraction of mineral from mined out area before starting backfilling.	0.5 На	0.5 На	As per the proposal
5b	Area under backfilling of mined out area	0.5 На	0.5 Ha	
5c	Concurrent use of topsoil for restoration or rehabilitation of mineral out area (Rule 32)	NIL	Not applicable	NIL
5d	Total area fully reclaimed and rehabilitated			backfilling, reclamation is under progressive
5e	General remarks of inspecting officers on 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).	Submitted	For the 18-19 Annual returns on PMCP submitted	Submitted in time
6b	Area available for rehabilitation (ha) .	NIL	NA	NA
бс	afforestation done (ha).	0.5На	0.5На	NIL
6d	No. of saplings planted during the year	1000	1000	Verified
бе	Cumulative no .of plants	4000	6550	NIL
6f	Any other method of rehabilitation	NIL	NA	nother specific method of rehabilitation
бд	Cost incurred on watch and care during the year	37500Lakhs	37500Lakhs	NIL
6h	Compliance on reclamation and rehabilitation by backfilling (i) Voids available for backfilling (Lx B x D	proposed	Backfilling prograssive	NIL
6i	Compliance on reclamation and rehabilitation by backfilling (ii) Voids filled by waste / tailings	NIL	Not applicable	NIL
6j	Compliance on reclamation and rehabilitation by backfilling (iii)Afforestati on on backfilled area	NIL	NA	NIL

6k	Compliance on reclamation and rehabilitation by backfilling (iv) Rehabilitation by making water reservoir	NIL	NA	NIL
61	Compliance on reclamation and rehabilitation by backfilling (v)any other specific means.	NIL	NA	NIL
бm	Compliance of rehabilitation of waste land within lease (i)afforestation	NIL	NA	No waste land within the lease area.
6n	Compliance of rehabilitation of waste land within lease (ii)Area rehabilitation (ha)	NA	NIL	No waste land within the lease area.
60	Compliance of rehabilitation of waste land within lease (iii)Method of rehabilitation	NA	NIL	No waste land within the lease area.
бр	Compliance of environmental monitoring (core zone and buffer zone)	Periodically Monitored	Periodically Monitored	
бq	General remarks of inspecting officers on PMCP compliance and progressive closure operations etc.			PMCP compliance & progressive closure operations is found satisfactory

Mineral Conservation:

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Sl.No.	Item	Propasals	Actual work	Remarks
7a	ROM Mineral dispatch or grade-wise sorting within lease area	NIL	NA	The excavated ore has been sent directly to factory.

7b	Method of grade- wise mineral sorting i.e. manual or mechanical.	No sorting	No sorting	No sorting
7c	Different grade of mineral sorted out at mines.	NIL	NA	No grade of mineral sorted out at mines
7d	Any beneficiation process at mines	NIL	NIL	No beneficiation process at mines
7e	General remarks of inspecting officer on Mineral conservation and beneficiation issues			Mineral conservation & beneficiation is found satisfactory

Environment:

Sl.No.	Item	Propasals	Actual work	Remarks
8a	Separate removal and utilization of topsoil (Rule 32)	No proposal	Not applicable	During initial stage already removed and concurrently used for backfilling
8b	Concurrent use or storage of topsoil	NIL	NA	No generation of top soil
8c	Separate dumps for overburden, waste rock, rejects and fines (Rule 33)	NIL	NA	No generation of top soil
8d	Use of overburden, waste rock, rejects and fines dumps for restoring the land to its original use	For backfilling	For backfilling as per the propsal	nil

8e	Phased restoration, reclamation and rehabilitation of lands affected by mining operations (Pits, dumps etc)	For Backfilling	In progress	as per the propsal
8f	Baseline information on existence of plantation and additional plantation done (Rule 41)	1000 sapling	1000 sapling	
8g	Survival rate	80%	80%	NIL
8h	Water sprinkling on roads to control airborne dust	Water sprinkling	Water sprinkling on haul roads to control airborne dust	NIL
8i	General remarks of inspecting officer on aesthetic beauty in and around mines area			aesthetic beauty in and around mines area is found satisfactory

Compliance of Rule 45:

Sl.No.	Item	Propasals	Actual work	Remarks
9a	Status of submission of Monthly and Annual returns	submitted	submitted	A.R. submitted for 2018-19 examined
9b	Scrutiny of Annual return for information on Mining Engineer, Geologist and Manager	employment &	Mining Enginer- Shri.P.Ganesa Boopathi Geologist- Shri. N.Balakannan,	Found as per the record submit to IBM
9c	Scrutiny of Annual return on land use pattern for area under pits, reclaimed area, dumps etc.		As per the proposal	nil
9d	Scrutiny of Annual return on afforestation	Given in Part-V para- 4.4 1000 Sapling	1000 Sapling	Nil

9e	Scrutiny of Annual return on mineral reject generation (Grade and quantity)	in Part-V para 4.2	NIL	NIL
9f	Annual return on ROM stock and/or	in Part-VI	achieved 51000 tones of Limestone	NIL
9g	Scrutiny of Annual return on sale value, Ex. Mine price and production cost	in Part-VI Para -4. rs-	Rs.229	nil
9h	Scrutiny of Annual return on fixed assets		fixed assets Rs- 4560000/-	nil
9k	Scrutiny of Annual return on mining machineries		As per the proposal	NIL

Details of violations observed during current inspection and compliance position of violation pointed out					
Violation observed			Show couse position		
Rule NO.	Issued on	Compliance o	n Rule NC). Issued c	on Compliance on

Date :

(S.THIRUNAVUKKARASU)

Indian Bureau of Mines