

**INDIAN BUREAU OF MINES  
MINERALS DEVELOPEMMENT AND REGULATION DIVISION**

**MCDR INSPECTION REPORT**

**Bangalore regional office**

**Mine file No :** KNT/CTD/LST/19/BNG

**Mine code :** 38KAR07025

- (i) Name of the Inspecting : **P005** ) **C.PARAMESHWARAN**  
Officer and ID No.
- (ii) Designation : Deputy Controller Mines
- (iii) Accompanying mine : Shri. Nama Nagamalleswar Rao, Mine Manager. & Praveen  
Official with  
Designation
- (iv) Date of Inspection : 07/05/2016
- (v) Prev.inspection date : 24/01/2013

**PART-I : GENERAL INFORMATION**

1. (a) **Mine Name** : **D.B. KERE(M.L.1848/2367)**
- (b) **Registration NO.** : **IBM/638/2011**
- (c) Category : A Other than Fully Mech.
- (d) Type of Working : Opencast
- (e) Postal address
- State : KARNATAKA
- District : CHITRADURGA
- Village : DODDABYALADAKERE
- Taluka : HOSADURGA
- Post office : MATHODU
- Pin Code :
- FAX No. : 08199 - 240314
- E-mail : mclmtd@madrascements.co.in
- Phone : 08199 - 240314
- (f) Police Station : SRIRAMPUR
- (g) First opening date : 09/08/1981
- (h) Weekly day of rest : SUN
2. Address for : MADRAS CEMENTS LTD  
correspondance 98 A, AURAS CORPORATE CENTRE, DR.RADHAKRISHNAN R  
MYLAPORE, CHENNAI - 600004.
3. (a) Lease Number : KAR1235
- (b) Lease area : 48.56
- (c) Period of lease : 20
- (d) Date of Expiry : 22/10/2002
4. Mineral worked : LIMESTONE Main

## 5. Name and Address of the

Lessee : MADRAS CEMENTS LTD  
 NO.98-A, DR. RADHAKRISHNA  
 SALAI, MYLAPUR, CHENNAI  
 CITY TAMIL NADU  
 Phone:08199-82033,82039,044-8555815  
 FAX :08199-82044

Owner : VENKATA RAMA RAJA. P.R.  
 RAMAMANDIRAM, RAJAPALAYAM-  
 626117 VIRUDHUNAGAR TAMIL  
 NADU  
 Phone: 08199-240039,10  
 FAX : 08199-82044

Agent : K.GOWRAPPAN  
 MADRAS CEMENTS LTD, AURAS  
 CORPORATE CENTRE, DR  
 RADHAKRISHNAN RD MYLAPORE  
 CHENAI TUMKUR KARNATAKA  
 Phone:  
 FAX :

## Geologist

Name : V.V.KULKARNI,Full Time  
 Qualification : M.SC GEOLOGY  
 Appointment/ :  
 Termination date

## Manager

Name : SRI NAMA NAGAMALLESWAR RAO  
 Qualification : Diploma in Mining Engg,First Class Mines  
 Appointment/ : 01/07/2015  
 Termination date

6. Date of approval of Mining	:	Existing rule 11 MCDR1988	07/03/2002
Plan/Scheme of Mining	:	Mining Scheme rule 12 MCDR1988	25/05/2007
	:	Mining Scheme rule 12 MCDR1988	25/06/2013

## PART - II : OBSERVATION/COMMENTS OF INSPECTING OFFICERS

## Exploration :

Sl.No.	Item	Proposals	Actual work	Remarks
1a	Backlog of previous year	nil	nil	nil
1b	Exploration over lease area for geological axis 1 or 2	nil	5.78 ha for axis-1.	nil
1c	Exploration Agencies and Expenditure in lakh rupees during the year	nil	nil	nil
1d	Balance area to be explored to bring Geological axis in 1 or 2	no proposals.	nil	nil
1e	Balance reserve as on 01/04/20	nil	7.16 Million tonnes.	as per the previous approved document datas.
1f	General remarks of inspecting officers on geology, exploration etc	The ML area reveals undulating and filled with forest growth, under which the deposit is present.	The deposit is of hard dark grey in colored limestone. Metamorphic varieties and the exploration is undertaken in part.	The mine is found to be not operating regularly in big scale. Other wise deposit is of normal cement grade type.

## Development :

Sl.No.	Item	Proposals	Actual work	Remarks
2a	Location of development w.r.t.lease area	N148-N350 and E855 to E1204	N-1511988--1512037	The mine is operated in intermittenly, whenever the plant is in non operational, the mine is also stopped tempevary vary.
2b	Separate benches in topsoil, overburden and minerals (Rule 15)	Yes proposed in OB & minerals benches	7 benches in OB & 3 mineral benches.	presently one bench is opened and working the same.
2c	Stripping ratio or ore to OB ratio	1:1.20	1:1.45	as above.

2d	Quantity of topsoil generation in m3	nil	nil	nil
2e	Quantity of overburden generation in m3	115838t	43920t	small pit is opened and the same is operated.
2f	General remarks of inspecting officers on development of pit w.r.t. type of deposit etc	Single pit development in the mine.	one single pit could be seen in the mine on the day of inspection.	small mine in operation intermittently.

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### Exploitation:

Sl.No.	Item	Propasals	Actual work	Remarks
3a	Number of pit proposed for production	One pit	one pit No.1	same as above
3b	Quantity of ROM mineral production proposed	100702t	17900t	captive old plant, requires frequent stoppage.
3c	Recovery of sailable/usable mineral from ROM production	70%	70%	nil
3d	Quantity of mineral reject generation	30%	30%	as above
3e	Grade of mineral rejects generation and threshold value declared.	<35% Cao, Mgo- >10%	as above	nil
3f	Quantity of sub grade mineral generation.	no proposal	nil	nil
3g	Grade of sub grade mineral generation	no proposal	na	na
3h	Manual / Mechanised method adopted for segregating from ROM	mechanised	mechanised	as above

3i	Any analysis or beneficiation study proposed and carried out for sub grade mineral and rejects.	not proposed	nil	nil
3j	Provision of drilling and blasting in mineral benches	yes proposed drilling & blasting.	yes drilling & blasting practiced in the mine.	as above.
3k	Provision of mining machineries in mineral benches	Tippers and shovel combination were proposed	same as above is used in the mine for operations.	yes utilised as and when required.
3l	Whether height of benches in overburden and mineral suitable for method of mining proposed in MP/SOM	6m height & width more than height	5m-6m height & width more than height	as above
3m	Total area covered under excavation/pits	6.45 ha	1ha	as above
3n	Ore to OB ratio for the pit/mine during the year.	1:1.2	1:2.45	nil
3o	Total area put in use under different heads at the end of year	6.45 ha, dump=2.2ha, green belt=2.89ha, infrastructure=0.30ha, roads=1.2ha.	pit=1ha, dump=0.43ha, green belt=2.5ha, infrastructure=0.02 & roads=0.74ha	existing situation is brought out.
3p	Production of ROM mineral during the last five year period as applicable	2011-12=11akht, 2012-13=nil, 2013-14=92949t, 2014-15=99658t & 2015-16=11akhs.t.	2011-12=00t, 2012-13=nil, 2013-14=00t, 2014-15=26250t & 2015-16=17900.t.	very meagre production, violation issued.
3q	General remarks of inspecting officers on method of mining etc.	yes proposed	work is satisfactory, but not maintained productions	satisfactory.

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#### Solid Waste Management - Dumping:

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Sl.No.	Item	Propasals	Actual work	Remarks
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4a	Separate dumping proposed of topsoil, OB and mineral rejects (Rule 32,33)		yes OB, only dumping is being carried out.	yes the mine is in small scale operation and the OB is only stacked as on date.
4b	Location of topsoil, OB and mineral reject dumps	E-604-812 N-116-276	E-664866-664931 N-1511853--1511975 national grid.)	same as above
4c	Number of dumps within lease area and outside of lease area	3 within the lease area & nil outside.	same as above, nil outside.	as above.
4d	Location of dumps w.r.t. ultimate pit limit (Rule 16)	carried out outside UPL.	yes waste dump is outside the UPL.	as above
4e	Number of active and alive dumps.	3 active	2 active dumps.	nil
4f	Number of dead dumps.	nil	nil	nil
4g	Number of dumps established.	nil	nil	nil
4h	Whether Retaining wall or garland drain all along dumps are there.	not proposed	temporary bund has been constructed.	yes bund provided all along the dump.
4i	Length of Retaining wall or garland drain all along dumps	no proposals as such proposed	yes provided all along the waste dump in temporary manner.	as above.
4j	Number of settling ponds	nil	nil	nil
4k	Specific comments of inspecting officer on waste dump management	small scale operation, proposal is not drawn.	mining in small scale and there is no much work, the work is satisfactory.	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.	no proposals as such in the mine	nil	nil

5b	Area under backfilling of mined out area	nil	nil	nil
5c	Concurrent use of topsoil for restoration or rehabilitation of mineral out area (Rule 32)	nil	nil	nil
5d	Total area fully reclaimed and rehabilitated	nil	nil	nil
5e	General remarks of inspecting officers on backfilling and reclamation etc.	the mine is in small scale operation, no proposal as such, area is not matured.	no work/ area is not matured.	no area is matured to undertake any work of back filling.

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Progressive Mine Clousre Plan:

Sl.No.	Item	Propasals	Actual work	Remarks
6a	Whether Annual report on PMCP submitted on time and correctly. Rule 23 E(2).	yes submitted on 27/11/2015 for the year 2014-15.	yes submitted with minimum infromation.	nil
6b	Area available for rehabilitation (ha) .	no proposals.	nil	nil
6c	afforestation done (ha).	nil	nil	nil
6d	No. of saplings planted during the year	nil	nil	nil
6e	Cumulative no .of plants	nil	nil	nil
6f	Any other method of rehabilitation	nil	nil	nil
6g	Cost incurred on watch and care during the year	No information furnished.	nil	nil

6h	Compliance on reclamation and rehabilitation by backfilling (i) Voids available for backfilling ( Lx B x D	nil	nil	nil
6i	Compliance on reclamation and rehabilitation by backfilling (ii) Voids filled by waste / tailings	nil	nil	nil
6j	Compliance on reclamation and rehabilitation by backfilling (iii)Afforestation on on backfilled area	no proposal	nil	nil
6k	Compliance on reclamation and rehabilitation by backfilling (iv) Rehabilitation by making water reservoir	nil	nil	nil
6l	Compliance on reclamation and rehabilitation by backfilling (v)any other specific means.	nil	nil	nil
6m	Compliance of rehabilitation of waste land within lease (i)afforestation	2125 nos	300 saplings	carried at southern side.
6n	Compliance of rehabilitation of waste land within lease (ii)Area rehabilitation (ha)	0.85 ha	0.25 ha	as above
6o	Compliance of rehabilitation of waste land within lease (iii)Method of rehabilitation	afforestation by afforestation only.		same as above



6p	Compliance of environmental monitoring (core zone and buffer zone)	yes proposed to carry out the environmental parameters.	yes undertaken accordingly as per the report.	undertaken water quality, noise level, ground vibration etc.
6q	General remarks of inspecting officers on PMCP compliance and progressive closure operations etc.	No proposal as such, since the mine is in the initial stage of the operations.	no any significant change	no significant work. except, natural afforestation.

### Mineral Conservation:

Sl.No.	Item	Propasals	Actual work	Remarks
7a	ROM Mineral dispatch or grade-wise sorting within lease area	100000.00 t/a	production-17900t/a, dispatch- 24692t	nil
7b	Method of grade-wise mineral sorting i.e. manual or mechanical.	not proposed	though machine mining is proposed.	machining mining, no chance for manual sorting.
7c	Different grade of mineral sorted out at mines.	not proposed	almost all cement grade	yes only cement garde materials were sorted
7d	Any beneficiation process at mines .	no proposals made	except cement processing.	the materials mainly consumed for cement manufacturing.
7e	General remarks of inspecting officer on Mineral conservation and beneficiation issues	The proposals made in the approved document.	as per the proposals, things are moving in the mines.	captive mines limestone are consumed in the captive captive plant at mines site.

### Environment:

Sl.No.	Item	Propasals	Actual work	Remarks
8a	Separate removal and utilization of topsoil (Rule 32)	no proposals	Whatever encountered during the mining operations, are collected and stored in the southern side of the ML area.	as above in the ML area.

8b	Concurrent use or storage of topsoil	not proposed	nil, at times.	as above
8c	Separate dumps for overburden, waste rock, rejects and fines (Rule 33)	proposed for On waste and not for top soil, mineral rejects.	Some quantity have been stacked in southern side,	waste dumping for OB only.
8d	Use of overburden, waste rock, rejects and fines dumps for restoring the land to its original use	no proposals	nil	nil
8e	Phased restoration, reclamation and rehabilitation of lands affected by mining operations (Pits, dumps etc)	no proposals	nil	nil
8f	Baseline information on existence of plantation and additional plantation done (Rule 41)	yes proposed	5800 nos. saplings, in 3.9 ha area. along periphery, barren land, road sides.	as above.
8g	Survival rate	no proposals.	75%	as above.
8h	Water sprinkling on roads to control airborne dust	yes proposed for water sprinkling	yes provided water sprinkling on roads for controlling air borne dust.	yes done along the roads.
8i	General remarks of inspecting officer on aesthetic beauty in and around mines area	as proposals made in the approved document.	in specific, nothing an aesthetic beauty in and around the mines area.	mining in small scale operation, there is not much degradation, however, naturally afforestation taken place are taken care.

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Compliance of Rule 45:

Sl.No.	Item	Propasals	Actual work	Remarks
9a	Status of submission of Monthly and Annual returns	monthly and annual returns are reced.	Information were furnished satisfactory, except in annual returns para.	yes submitted satisfactory.

9b	Scrutiny of Annual return for information on Mining Engineer, Geologist and Manager	Mining engineer, geologist & manager	manager full time, ME & geologist were appointed in part time.	as above.
9c	Scrutiny of Annual return on land use pattern for area under pits, reclaimed area, dumps etc.	Under pits & infrastructure details furnished.	Under pits-0.8ha, infrastructure-1.02ha,	only two information furnished.
9d	Scrutiny of Annual return on afforestation	1000 nos of trees with 80% survival	observed in the mine, some of the trees under growth	same as above.
9e	Scrutiny of Annual return on mineral reject generation (Grade and quantity)	no rejects reported.	nil	nil
9f	Scrutiny of Annual return on ROM stock and/or graded ore	26250t of production for the year 2014-15. stock was 10297.642	so much production not seen in the mine, since the inspection in the year 2016-17.	as above.
9g	Scrutiny of Annual return on sale value, Ex. Mine price and production cost	sale value not reported, ex-mine price not given and the cost of production is Rs. 519/t of ore.	mining operation is in small scale and what is reported is found to be appropriate.	as above.
9h	Scrutiny of Annual return on fixed assets	Value of Fixed Assets given is (in .) 1121731000	Depreciation on fixed assets (in .) 33252000	as above

9k	Scrutiny of Annual return on mining machineries	Type of machinery Capacity of each unit No.of units Electrical/ Non-Electrical (specify) Used in opencast/ underground (specify) SHOVEL (HYDRAULIC) 1.000 CUM 2 Non Electrical Opencast TIPPER 10.000 CUM 5 Non Electrical Opencast WATER TANKER 6000.000 LITRE 1 Non Electrical Opencast	what is used in the mine are furnished.	as above machineries are in use in the mine.
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**Details of violations observed during current inspection and compliance position of violation pointed out**

Violation observed			Show cause position		
Rule NO.	Issued on	Compliance on	Rule NO.	Issued on	Compliance on
Rule 13(1)	24/05/2016				
Rule 45(1)	24/05/2016				

**Date :**

(C.PARAMESHWARAN)

Indian Bureau of Mines