

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

**MCDR INSPECTION REPORT**

**Bangalore regional office**

**Mine file No :** KNT/CTD/LST/17/BNG

**Mine code :** 38KAR07018

- (i) Name of the Inspecting : **P005** ) **C.PARAMESHWARAN**  
Officer and ID No.
- (ii) Designation : Deputy Controller Mines
- (iii) Accompanying mine : S/SHRI. PRAVEEN & SARAIVANAN, Geologist & manager  
Official with  
Designation
- (iv) Date of Inspection : 07/05/2016
- (v) Prev.inspection date : 13/06/2014

**PART-I : GENERAL INFORMATION**

1. (a) **Mine Name** : **KANCHIPURA (ML 1839)**
- (b) **Registration NO.** :
- (c) **Category** : A Fully Mechanised
- (d) **Type of Working** : Opencast
- (e) **Postal address**
- State : KARNATAKA
- District : CHITRADURGA
- Village : KANCHIPURA
- Taluka : HOSADURGA
- Post office : KANCHIPURA
- Pin Code :
- FAX No. : 08199-82044
- E-mail : mclmtd@sancharnet.in
- Phone : 08199- 240314
- (f) **Police Station** : SRIRAMPUR
- (g) **First opening date** : 27/01/2003
- (h) **Weekly day of rest** : SUN
2. **Address for correspondance** : MADRAS CEMENTS LTD  
AURA'S CORPORATE CENTRE, DR RADHA KRISHNAN ROAD,  
MYLAPUR, CHENNAI-600004
3. (a) **Lease Number** : KAR1092
- (b) **Lease area** : 48.36
- (c) **Period of lease** : 20
- (d) **Date of Expiry** : 17/01/2003
4. **Mineral worked** : DOLOMITE Associated  
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 : MADRAS CEMENTS LTD  
 MATHOD WORKS MATHOD,  
 HOSADURGA CHITRADURGA-  
 CHITRADURGA KARNATAKA  
 Phone: 08199-82033,820  
 FAX : 08199-82044

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

## Geologist

Name : PRAVEEN KULKARNI,Full Time  
 Qualification : M.SC GEO  
 Appointment/ :  
 Termination date

## Manager

Name : J.MANJUNATH  
 Qualification : BE MIN  
 Appointment/ :  
 Termination date

6. Date of approval of Mining	:	Renewal under rule 22 MCR1960	02/12/2002
Plan/Scheme of Mining		Mining Scheme rule 12 MCDR1988	28/05/2007
		Modif.of approved Mining Plan	01/05/2012
		Mining Scheme rule 12 MCDR1988	11/09/2012

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

## Exploration :

Sl.No.	Item	Proposals	Actual work	Remarks
1a	Backlog of previous year	the lessee company proposed for 8 bore holes for both the years. 4 nos. each for 2012-13 & 2013-14.	it is mentioned in the data base report that the lessee company drilled 25 nos. of bore holes in 100m grid intervals.	though violation was issued and party replied with details of the exploration.
1b	Exploration over lease area for geological axis 1 or 2	for G1 axis.	27.00 ha area covered under G1 axis.	The area is covered to proving the area for mineralization.
1c	Exploration Agencies and Expenditure in lakh rupees during the year	Not proposed for the current year.	not applicable, since the lessee already undertaken in the previous year.	no cost factor indicated.
1d	Balance area to be explored to bring Geological axis in 1 or 2	Not proposed.	nil	nil
1e	Balance reserve as on 01/04/20	NA	17.23 Million tonnes.	As per the last approved document as on 1/4/2015
1f	General remarks of inspecting officers on geology, exploration etc	The deposit is of vein type and dipping downwards	The vein type deposit is explored and operating intermittently.	For the presently, no exploration proposals drawn.

## Development :

Sl.No.	Item	Proposals	Actual work	Remarks
2a	Location of development w.r.t.lease area	N-530-1075 and E-775 to 965	nil due to forest road problem for transporting.	Lessee company utilised public road for some time to transport 3157.430tonnes.
2b	Separate benches in topsoil, overburden and minerals (Rule 15)	Yes, proposed separate benches in top soil, OB & minerals	In OB-west side-3benches, east-side-2 benches & not in top soil.	It was observed that the mine workings are undertaken below the surface level with 3-4 benches, hence no top soil.
2c	Stripping ratio or ore to OB ratio	1:2.5	Nil reported, since no production during that period.	not produced from the mine.

2d	Quantity of topsoil generation in m3	nil	nil	nil
2e	Quantity of overburden generation in m3	178484.8 m3.	nil	nil, since, no development & production undertaken.
2f	General remarks of inspecting officers on development of pit w.r.t. type of deposit etc	yes proposed in the approved documents.	not undertaken as such due to forest land problem for transporting.	as above.

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### Exploitation:

Sl.No.	Item	Propasals	Actual work	Remarks
3a	Number of pit proposed for production	one pit only	as above	yes one only.
3b	Quantity of ROM mineral production proposed	178124t	nil	nil
3c	Recovery of sailable/usable mineral from ROM production	70% as per the proposal	nil due to non production.	nil
3d	Quantity of mineral reject generation	30%	nil	nil
3e	Grade of mineral rejects generation and threshold value declared.	-43%Cao,	-43%Cao, +43%CAO considered as threshold value as cement grade.	Though threshold value not declared, but it is reported as cement grade.
3f	Quantity of sub grade mineral generation.	no proposal	nil	nil
3g	Grade of sub grade mineral generation	no proposal	nil	nil
3h	Manual / Mechanised method adopted for segregating from ROM	mechanised method	mechanised only and not manual, on the day of inspection, mine was not operated.	nil

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 for drilling & blasting, Atlascopco, 115mm diameter, XAH-210, 10kgf.	same is being used during the mining operation.	nil, now no mining operation.
3k	Provision of mining machineries in mineral benches	yes proposed for machine mining.	using Excavator & tippers for excavation and loading.	during the production time, these machineries are in use.
3l	Whether height of benches in overburden and mineral suitable for method of mining proposed in MP/SOM	6m height, 20m width	yes same is maintained in working benches.	proposed bench height & width are suitable.
3m	Total area covered under excavation/pits	15.83 ha	14.25Ha.	as above.
3n	Ore to OB ratio for the pit/mine during the year.	1:2.5	as above	nil
3o	Total area put in use under different heads at the end of year	32.40 ha	29.83 ha	as above.
3p	Production of ROM mineral during the last five year period as applicable	2011-12=182,040t, 2012-13=120,684t , 2013-14=180,778t , 2014-15=180,691t , & 2015-16=178,124t	2011-12=119,000t , 2012-13=77022t , 2013-14=103,080t , 2014-15=26750t , & 2015-16=0.0t	nil
3q	General remarks of inspecting officers on method of mining etc.	yes proposed for systematic mining.	yes the method of mining operation is systematic as per the approved documents.	hence no violation observed on method of mining.

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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 of topsoil, OB and mineral rejects (Rule 32,33)	Proposals given only for OB & not for top soil or mineral rejects.	Yes only for OB & not for MR. During the year there is no generation of MR/OB or TS.	as above.
4b	Location of topsoil, OB and mineral reject dumps	N-943-1424 to E-991 to 1112	No mining operation during the year & hence no generation of any materials.	nil
4c	Number of dumps within lease area and outside of lease area	one within the ML area & Nil outside the ML area.	as above.	same as above.
4d	Location of dumps w.r.t. ultimate pit limit (Rule 16)	outside the UPL	yes it is done outside the UPL as per the Plan.	as above.
4e	Number of active and alive dumps.	One active dump outside the ML area.	yes one active and alive waste dump in the ML area.	as above
4f	Number of dead dumps.	one number only	one only.	as above.
4g	Number of dumps established.	one dump is stabilized.	one only is stabilized.	nil.
4h	Whether Retaining wall or garland drain all along dumps are there.	yes proposed	it is being carried out with retaining wall & also with bund.	nil
4i	Length of Retaining wall or garland drain all along dumps	150m x 1.5m x 2m	150m x 1.5m x 2m	as above.
4j	Number of settling ponds	one settling pond	one only	yes as above
4k	Specific comments of inspecting officer on waste dump management	yes proposed in the approved documents.	yes it is being carried out in the ML area in two location.	yes as above.

#### 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 made	not matured for back filling.	The mine is in the initial stage, not yet matured for proposals.

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 area is not matured for any back filling as such	so no work as such has been undertaken in the ML area.	nil

#### 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, but not on time.	yes the lessee company not submitted on time, mostly appropriately.	nil
6b	Area available for rehabilitation (ha) .	no proposals	nil	nil
6c	afforestation done (ha).	il	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	nil	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 backfilled area	nil	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	1360 saplings	300 saplings	on the peripheral area in eastern side is already covered by plantation.
6n	Compliance of rehabilitation of waste land within lease (ii) Area rehabilitation (ha)	0.85 ha area	0.25 ha area	as above
6o	Compliance of rehabilitation of waste land within lease (iii) Method of rehabilitation	afforestation	afforestation	yes only through afforestation
6p	Compliance of environmental monitoring (core zone and buffer zone)	yes proposed, for water quality, noise level, ground vibration	Yes undertaken water quality, noise level, ground vibration and also the blast	found to be in normal within the range.



6q	General remarks of inspecting officers on PMCP compliance and progressive closure operations etc.	yes proposed in the approved documents.	work is under progress as per the proposals.	in whole the mining operation is in satisfcatory level.
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#### Mineral Conservation:

Sl.No.	Item	Propasals	Actual work	Remarks
7a	ROM Mineral dispatch or grade-wise sorting within lease area	178124t	nil production, dispatch=3157.43t.	as above.
7b	Method of grade-wise mineral sorting i.e. manual or mechanical.	mechanical	mechanical only.	no operation on the day of visit.
7c	Different grade of mineral sorted out at mines.	no proposals.	nil	all the materials of cement grade.
7d	Any beneficiation process at mines	nil	nil	nil
7e	General remarks of inspecting officer on Mineral conservation and beneficiation issues	yes proposals made in the approved documents.	but during the visit of the mine, the mining reveals non operational. Otherwise,	Otherwise, the mineral conservation point is satisfactory. No beneficiation as on date.

#### Environment:

Sl.No.	Item	Propasals	Actual work	Remarks
8a	Separate removal and utilization of topsoil (Rule 32)	no proposals for top soil.	nil	nil
8b	Concurrent use or storage of topsoil	not applicable.	NA	Nil

8c	Separate dumps for overburden, waste rock, rejects and fines (Rule 33)	Dumping is proposed for waste dump and not for top soil & MR.	as above, only for OB waste.	yes as above
8d	Use of overburden, waste rock, rejects and fines dumps for restoring the land to its original use	no proposal as such in the approved documents.	yes no such activities.	nil.
8e	Phased restoration, reclamation and rehabilitation of lands affected by mining operations (Pits, dumps etc)	no proposals.	not yet matured.	nil
8f	Baseline information on existence of plantation and additional plantation done (Rule 41)	yes proposals made	since 2001-02 to 2015-16, 12930 nos., of saplings were planted in 6.20 ha. along the roads, waste dump & periphery.	The lessee company undertaken as above.
8g	Survival rate	not proposed	75%	as above
8h	Water sprinkling on roads to control airborne dust	yes proposed for water sprinkling	yes followed during the mining operations.	yes it is followed in the mine.
8i	General remarks of inspecting officer on aesthetic beauty in and around mines area	yes proposed.	The aesthetic beauty in and around the mine is being taken care.	yes lessee compny followed.

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#### Compliance of Rule 45:

Sl.No.	Item	Propasals	Actual work	Remarks
9a	Status of submission of Monthly and Annual returns	yes the lessee submitted MR & AR upto 2014-15 and the 2015-16 is also received in online.	yes the information furnished in the returns and the information furnished incorreectly were pointed through violation.	violation issued and the party replied.

9b	Scrutiny of Annual return for information on Mining Engineer, Geologist and Manager	K. saravanan- manager & Mining engineer. Praveen Kulkarni- Geologist.	yes they were present in the mine and working for the company.	yes there are continued.
9c	Scrutiny of Annual return on land use pattern for area under pits, reclaimed area, dumps etc.	area utilised for reclamation is given as 0.9 ha	the above information was found to be incorrect and hence violation issued.	violation issued.
9d	Scrutiny of Annual return on afforestation	1000 nos of plantation done during the year with 70% survival.	as above observed in the mine.	yes observed in the mine.
9e	Scrutiny of Annual return on mineral reject generation (Grade and quantity)	not reported as such	no production during the year 2015-16 & hence no MR and no grade & quantity.	yes nil production
9f	Scrutiny of Annual return on ROM stock and/or graded ore	48095.312 t as Opening stock & the production is 26750t & closing stock is 32711t for the year 2014-15.	as per the return 2014-15, 48095.312 t as Opening stock & the production is 26750t & closing stock is 32711t.	for the year 2015-16, it is given 0.0t production and the dispatch shown as 3157.43t.
9g	Scrutiny of Annual return on sale value, Ex. Mine price and production cost	for year 2014-15, captive consumption, quantity is given as 42133.771t, sale price not reflected. cost of production is given as 562/t of ore. The ex-mine price is given as Rs. 215/t.	Though the quantity is given without sale value, since the lessee company comes under captive mines.	nil
9h	Scrutiny of Annual return on fixed assets	value of fixed assets is given as Rs. 1121,731,000. No depreciation on fixed assets is not reported.	The above cost are pertains to the land, industrial & residential building, plant machineries.	given satisfactorily.

9k	Scrutiny of Annual return on mining machineries	Blast hole drill-1, air compressor-1, shovel( hydraulic)-1, tipper-4 & wheel loader- 1.	all the machines were in the mine premises for usesage, whenever required.	it was observed 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)	13/06/2016				
Rule 45(1)	13/06/2016				
Rule 24	13/06/2016				

**Date :****(C.PARAMESHWARAN)**

Indian Bureau of Mines