

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

MCDR INSPECTION REPORT

Chennai regional office

Mine file No : TN/ALR/LST-9/MDS.

Mine code : 38TMN38025

- (i) Name of the Inspecting : **N001**) **N.SUBRAHAMAANYAM**
Officer and ID No.
- (ii) Designation : Assistant Mining Engineer
- (iii) Accompanying mine : Mr. Karuppusamy, rep of Owner,
Official with
Designation
- (iv) Date of Inspection : 15/10/2017
- (v) Prev.inspection date :

PART-I : GENERAL INFORMATION

1. (a) **Mine Name** : **CHINNAPATTAKADU(4.93HA)**
- (b) **Registration NO.** :
- (c) Category : B Manual
- (d) Type of Working : Opencast
- (e) Postal address
State : TAMIL NADU
District : ARIYALUR
Village : CHINNAPATTAKADU
Taluka : ARIYALUR
Post office : CHINNAPATTAKADU
Pin Code :
FAX No. :
E-mail :
Phone :
- (f) Police Station :
- (g) First opening date : 01/10/2011
- (h) Weekly day of rest : SUN
2. Address for : KARIAMANICKAM ROAD, S.PUDUR
correspondance SAMAYAPURAM,
TRICHY-621 112.
3. (a) Lease Number : TMN1567
- (b) Lease area : 4.93
- (c) Period of lease : 30
- (d) Date of Expiry : 13/09/2041
4. Mineral worked : LIMESTONE Main

5. Name and Address of the

Lessee : DHANDAPANI CEMENTS (P) LTD
69, GANAPATHY NAGAR
TIRUVANAIKOIL TRICHY
TIRUCHIRAPALLI TAMIL NADU
Phone:0431-2670042 CELL 9842410040
FAX :0431-2670364,2670164,2670224 &2670045

Owner : M/S. DHANDAPANI CEMENT PVT. LTD
KARIAMANICKAM ROAD S.
PUDUR-SAMAYAPURAM- TRICHY
ARIYALUR TAMIL NADU
Phone:
FAX :

6. Date of approval of Mining : Mining Scheme rule 12 MCDR1988 03/03/2016
Plan/Scheme of Mining

PART - II : OBSERVATION/COMMENTS OF INSPECTING OFFICERS

Exploration :

Sl.No.	Item	Proposals	Actual work	Remarks
1a	Backlog of previous year	Two BH up to 10m depth from surface.	Drilled 4 BH up to 10m depth from surface.	No comments.
1b	Exploration over lease area for geological axis 1 or 2	Geological axis -1.	ML area was proved by drilling 4 BH up to 10m depth from surface.	No comments.
1c	Exploration Agencies and Expenditure in lakh rupees during the year	RQP & his Geological team & Lessees.	Rs. 16,000/-.	No comments.
1d	Balance area to be explored to bring Geological axis in 1 or 2	Covered entire ML area up to a depth of 10m from surface.	Covered entire ML area up to a depth of 10m from surface.	No comments.
1e	Balance reserve as on 01/04/20	496970 tones (111), 73500 tones (222) & 258075 tones(221)	496970 tones (111), 73500 tones (222) & 258075 tones(221)	No comments.
1f	General remarks of inspecting officers on geology, exploration etc	Nil.	Nil.	No comments.

Development :

Sl.No.	Item	Proposals	Actual work	Remarks
2a	Location of development w.r.t.lease area	Northern - western side of lease area.	Same as proposed.	No comments.
2b	Separate benches in topsoil, overburden and minerals (Rule 15)	Separate benches have made for topsoil & OB	Same as proposed.	No comments.
2c	Stripping ratio or ore to OB ratio	1:0.7	Same as proposed.	No comments
2d	Quantity of topsoil generation in m3	15000 m3 of Topsoil cum overburden.	Same as proposed.	Nil.

2e	Quantity of overburden generation in m3	15000 m3 of Topsoil cum overburden.	Same as proposed.	No comments
2f	General remarks of inspecting officers on development of pit w.r.t. type of deposit etc	Nil.	nil.	No comments

Exploitation:

Sl.No.	Item	Propasals	Actual work	Remarks
3a	Number of pit proposed for production	One	One	Nil.
3b	Quantity of ROM mineral production proposed	79600 tones	Same as proposed.	Nil.
3c	Recovery of sailable/usable mineral from ROM production	85% of ROM production.	Same as proposed.	Nil.
3d	Quantity of mineral reject generation	No mineral reject are generated.	Same as proposed.	Nil.
3e	Grade of mineral rejects generation and threshold value declared.	Not applicable.	Nil	Nil
3f	Quantity of sub grade mineral generation.	Not applicable.	Nil	Nil
3g	Grade of sub grade mineral generation	Not applicable.	Nil	Nil
3h	Manual / Mechanised method adopted for segregating from ROM	Mechanized	Mechanized	Nil
3i	Any analysis or beneficiation study proposed and carried out for sub grade mineral and rejects.	Not applicable.	Nil	Nil

3j	Provision of drilling and blasting in mineral benches	Drilling & blasting is done by contract basis.	Same as proposed	Nil.
3k	Provision of mining machineries in mineral benches	10 ton Tipper for transportation of ROM to needy Industries.	Same as proposed	Nil
3l	Whether height of benches in overburden and mineral suitable for method of mining proposed in MP/SOM	OB bench 5m height and Width is more than the height.	Same as proposed	Nil.
3m	Total area covered under excavation/pits		Same as proposed	Nil.
3n	Ore to OB ratio for the pit/mine during the year.	1:0.5	Same as proposed.	Nil.
3o	Total area put in use under different heads at the end of year	4.54.3 ha	Same as proposed.	Nil.
3p	Production of ROM mineral during the last five year period as applicable	2012-13:10125t, 2013-14:10125t, 2014-15:10125t, 2015-16:9338ts 2016-17:9338 t	2012-13:888 t, 2013-14:20; 2014-15:13906t, 2015-16:125729ts 2016-17:350121 t	Deviation in production is due to flexibility of market demands.
3q	General remarks of inspecting officers on method of mining etc.	Nil.	Nil.	No comments

Solid Waste Management - Dumping:

Sl.No.	Item	Propasals	Actual work	Remarks
4a	Separate dumping of topsoil, OB and mineral rejects (Rule 32,33)	Separate dumps made for Topsoil cum overburden.	Same as proposed.	Nil.

4b	Location of topsoil, OB and mineral reject dumps	North-Eastern side of ML area.	Same as proposed.	Nil.
4c	Number of dumps within lease area and outside of lease area	One dump with in ML area & no dump are outside of M.L.area.	Same as proposed.	Nil.
4d	Location of dumps w.r.t. ultimate pit limit (Rule 16)	North-Eastern side of ML area.	Same as proposed.	Nil.
4e	Number of active and alive dumps.	Nil	Nil	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 applicable.	No retaining wall or garland drain all along dump.	Nil.
4i	Length of Retaining wall or garland drain all along dumps	Not applicable	Nil	Nil
4j	Number of settling ponds	Not applicable	Nil	Nil
4k	Specific comments of inspecting officer on waste dump management	Nil	Nil	No comments.

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.	At present not applicable, since the mine is active.	Same as proposed.	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)	Topsoil is being used for afforestation purpose.	Same as proposed.	Nil.
5d	Total area fully reclaimed and rehabilitated	Nil	Nil	Nil
5e	General remarks of inspecting officers on backfilling and reclamation etc.	Nil	Nil	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).	Annual report on PMCP is not submitted.	Nil.	Nil.
6b	Area available for rehabilitation (ha) .	0.12ha	0.12ha	No comments.
6c	afforestation done (ha).	0.02 ha	0.02 ha	Nil.
6d	No. of saplings planted during the year	25 nos	25 nos	Nil.
6e	Cumulative no .of plants	200 nos	200 nos	
				Due to water problem.
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 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	Nil	Nil	Nil
6n	Compliance of rehabilitation of waste land within lease (ii)Area rehabilitation (ha)	Nil	Nil	Nil
6o	Compliance of rehabilitation of waste land within lease (iii)Method of rehabilitation	Nil	Nil	Nil

6p	Compliance of environmental monitoring (core zone and buffer zone)	Nil	Nil	Nil
6q	General remarks of inspecting officers on PMCP compliance and progressive closure operations etc.	Nil	Nil	No comments.

Mineral Conservation:

Sl.No.	Item	Propasals	Actual work	Remarks
7a	ROM Mineral dispatch or grade-wise sorting within lease area	ROM Mineral is grade-wise sorting within lease area	Same as proposed.	Nil.
7b	Method of grade-wise mineral sorting i.e. manual or mechanical.	Manual	Same as proposed	Nil.
7c	Different grade of mineral sorted out at mines.	Nil	Nil	Nil
7d	Any beneficiation process at mines	Nil	Nil	Nil
7e	General remarks of inspecting officer on Mineral conservation and beneficiation issues	Nil	Nil	Nil

Environment:

Sl.No.	Item	Propasals	Actual work	Remarks
8a	Separate removal and utilization of topsoil (Rule 32)	Topsoil is removed & using for plantation purpose.	Same as proposed	Nil.

8b	Concurrent use or storage of topsoil	Topsoil is removed & using for plantation purpose.	Same as proposed	Nil.
8c	Separate dumps for overburden, waste rock, rejects and fines (Rule 33)	Separate dumps proposed.	Same as proposed	Nil.
8d	Use of overburden, waste rock, rejects and fines dumps for restoring the land to its original use	Nil	Nil	Nil
8e	Phased restoration, reclamation and rehabilitation of lands affected by mining operations (Pits, dumps etc)	Nil	Nil	Nil
8f	Baseline information on existence of plantation and additional plantation done (Rule 41)	Few trees planted by Lessee	Same as proposed.	Nil.
8g	Survival rate	80%	50%	due to water problem
8h	Water sprinkling on roads to control airborne dust	Nil	Nil	Nil
8i	General remarks of inspecting officer on aesthetic beauty in and around mines area	Nil	Nil	No comments.

Compliance of Rule 45:

Sl.No.	Item	Propasals	Actual work	Remarks
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9a	Status of submission of Monthly and Annual returns	Monthly and annual returns have been submitted.	No Violations are pointed out.	Nil.
9b	Scrutiny of Annual return for information on Mining Engineer, Geologist and Manager	Nil	S.Subramanian MSc(Geology) Part-time mining engineer appointed.	Nil
9c	Scrutiny of Annual return on land use pattern for area under pits, reclaimed area, dumps etc.	Nil	Nil	Nil
9d	Scrutiny of Annual return on afforestation	Nil	Nil	Nil
9e	Scrutiny of Annual return on mineral reject generation (Grade and quantity)	Nil	Nil	Nil
9f	Scrutiny of Annual return on ROM stock and/or graded ore	Nil	Nil	Nil
9g	Scrutiny of Annual return on sale value, Ex. Mine price and production cost	Nil	Nil	Nil
9h	Scrutiny of Annual return on fixed assets	Nil	Nil	Nil
9k	Scrutiny of Annual return on mining machineries	Tractor mounted and Portable compressor, and Excavator.	Same as proposed.	During the inspection no outstanding violations are observed. Since the mine is not working more than five months, violation of Rule 28(1) of MCDR 2017 is pointed out and violation letter is issued, follow up action is being taken up. The scheme of mining and PMCP is valid up to 31/03/2021.

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

Violation observed			Show couse position		
Rule NO.	Issued on	Compliance on	Rule NO.	Issued on	Compliance on
MCDR17	Rule 28(1)	13/11/2017			

Date :

(N.SUBRAHAMAANYAM)

Indian Bureau of Mines