

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

MCDR inspection REPORT

Chennai regional office

Mine file No : TN/ALR/LST-10/MDS.

Mine code : 38TMN38024

- (i) Name of the Inspecting : **T028**) **T.PHALTHURAJHEN**
Officer and ID No.
- (ii) Designation : Assistant Mining Geologis
- (iii) Accompanying mine : SRI.MUTHU KARUPPAN.
Official with
Designation
- (iv) Date of Inspection : 06/10/2018
- (v) Prev.inspection date : 15/10/2017

PART-I : GENERAL INFORMATION

1. (a) **Mine Name** : **CHINNAPATTAKADU(4.94HA)**
- (b) **Registration NO.** : **IBM/953/2011.**
- (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 : DCPMARUTHI@SITY.CO
Phone :
- (f) Police Station : KEEZHAPALUR
- (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 : TMN1568
- (b) Lease area : 4.94
- (c) Period of lease : 30
- (d) Date of Expiry : 15/09/2041
4. Mineral worked : LIMESTONE Main

5. Name and Address of the

Lessee : M/S.DHANDAPANI CEMENT(P) LTD
KARIAMANICKAM ROAD S.PUDUR,
SAMAYAPURAM, TRICHY-621
112. ARIYALUR TAMIL NADU
Phone:
FAX :

Owner : M/S.DHANDAPANI CEMENT PVT LTD
KARIAMANICKAM ROAD S, PUDUR
,SAMAYAPURAM TRICHY-621112
ARIYALUR TAMIL NADU
Phone:
FAX :

Mining Engineer

Name : RAHUL,Full Time
Qualification : BE(MINING)
Appointment/ :
Termination date

Geologist

Name : S.SUBRAMANIAM,Full Time
Qualification : MSC(GEOLOGY)
Appointment/ :
Termination date

6. Date of approval of Mining : Mining Scheme rule 12 MCDR1988 04/03/2016
Plan/Scheme of Mining

PART - II : OBSERVATION/COMMENTS OF INSPECTING OFFICERS

Exploration :

Sl.No.	Item	Proposals	Actual work	Remarks
1a	Backlog of previous year	nine bore hole upto 9 m depth from surface	drilled 9BH up 10m depth from surface	nil
1b	Exploration over lease area for geological axis 1 or 2	G-1	ML area was proved by drilling 4 BH upto 9m depth from surface	G1 AXIS.
1c	Exploration Agencies and Expenditure in lakh rupees during the year	RQP & geological team & lessees	Rs16,000/-	nil
1d	Balance area to be explored to bring Geological axis in 1 or 2	covered entire Ml area upto a depth of 9 m from surface	covered entire Ml area upto a depth of 9 m from surface	nil
1e	Balance reserve as on 01/04/20	500785 tones (111), 311378 tones (221)	500785 tones (111), 311378 tones (221)	nil
1f	General remarks of inspecting officers on geology, exploration etc	nil	nil	Mine is working.

Development :

Sl.No.	Item	Proposals	Actual work	Remarks
2a	Location of development w.r.t. lease area	northern - western side of lease area	northern - western side of lease area	Mine is working.
2b	Separate benches in topsoil, overburden and minerals (Rule 15)	separate benches have made for topsoil & OB	yes, separate benches have made for topsoil & OB	Separate benches maintained.
2c	Stripping ratio or ore to OB ratio	1:0.7	1:0.45	nil
2d	Quantity of topsoil generation in m3	52676 tones of Top soil cum OB	41940 Ts.	Top soil will be dumped separately within the safety zone on Northern side.

2e	Quantity of overburden generation in m3	52676 tonnes of Top siol cum OB	52676 tonnes of siol cum OB	Top	nil
2f	General remarks of inspecting officers on development of pit w.r.t. type of deposit etc	nil	nil		Satisfactory.

Exploitation:

Sl.No.	Item	Propasals	Actual work	Remarks
3a	Number of pit proposed for production	one	one	mine is working.
3b	Quantity of ROM mineral production proposed	158533 Ts	66538 Ts	nil
3c	Recovery of sailable/usable mineral from ROM production	85% of ROM production	85% of ROM production	nil
3d	Quantity of mineral reject generation	no mineral rejects are generated	No mineral rejects are generated.	No comments.
3e	Grade of mineral rejects generation and threshold value declared.	not applicable	same as proposed	nil
3f	Quantity of sub grade mineral generation.	not applicable	nil	No subgrade mineral generated.
3g	Grade of sub grade mineral generation	not applicable	nil	No subgrade mineral generated.
3h	Manual / Mechanised method adopted for segregating from ROM	manual	manual	No comments.
3i	Any analysis or beneficiation study proposed and carried out for sub grade mineral and rejects.	no	nil	No subgrade mineral.

3j	Provision of drilling and blasting in mineral benches	drilling balsting is done by contract basis	Drilling & blasting is done.	Drilling & blasting in mineral benches.
3k	Provision of mining machineries in mineral benches	10ton tipper for transportation of Rom to nearby industries	10ton tipper for transportation of Rom to nearby industries	Mining machineries utilised in mineral benches.
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	OB bench 5m height and width is more than the height	No comments.
3m	Total area covered under excavation/pits	2.12.8 ha	2.12.8 ha	No comments.
3n	Ore to OB ratio for the pit/mine during the year.	1:0.5	1:0.45	No comments.
3o	Total area put in use under different heads at the end of year	Mining=0.54 ha , waste dump=0.45.44 ha, Infrastr.=0.01.20 ha mine roads=0.01.00 ha , plantation=0.10.11 ha	2.96.5 ha ,Mining=0.54 ha , waste dump=0.45.44 ha, Infrastr.=0.01.20 ha , mine roads=0.01.00 ha , plantation=0.10.11 ha	no comments.
3p	Production of ROM mineral during the last five year period as applicable	2014-15=50600,2015-16=29941,2016-17=78590,2017-18=78280, 2018-19=75520 t	2014-15=43010, 2015-16=25450, 2016-17=66802,2017-18=66538, 2018-19=64192 t	No comments.
3q	General remarks of inspecting officers on method of mining etc.	nil	nil	satisfactory.

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	separate dumps made for Topsoil cum overburden	separate dumping for topsoil , OB etc.

4b	Location of topsoil, OB and mineral reject dumps	western side of ml area	western side of ml area	No comments.
4c	Number of dumps within lease area and outside of lease area	one dump within ml area and no dumps outside ml area	one dump within ml area and no dumps outside ml area	No comments.
4d	Location of dumps w.r.t. ultimate pit limit (Rule 16)	westernside mining lease area.	westernside mining lease area.	nil
4e	Number of active and alive dumps.	one dump is alive	one dump is alive	within ml area.
4f	Number of dead dumps.	not applicable	nil	nil
4g	Number of dumps established.	Not applicable	nil	No comments.
4h	Whether Retaining wall or garland drain all along dumps are there.	Not applicable	nil	No comments.
4i	Length of Retaining wall or garland drain all along dumps	not applicable	nil	No comments.
4j	Number of settling ponds	not applicable	nil	No comments.
4k	Specific comments of inspecting officer on waste dump management	nil	nil	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.	At present not applicable ,since the mine is active	At present not applicable ,since the mine is active	No comments.
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)	Top soil is being used for afforestation purpose	Top soil is being used for afforestation purpose	Topsoil used for afforestation.
5d	Total area fully reclaimed and rehabilitated	nil	nil	nil
5e	General remarks of inspecting officers on backfilling and reclamation etc.	nil	nil	satisfactory.

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 to ibm	submitted.
6b	Area available for rehabilitation (ha) .	nil	nil	No comments.
6c	afforestation done (ha).	0.02 ha	0.02 ha	No comments.
6d	No. of saplings planted during the year	25nos	25 nos	No comments.
6e	Cumulative no .of plants	200 nos	200nos	afforestation on periphery of ml area.
6f	Any other method of rehabilitation	nil	nil	No comments.
6g	Cost incurred on watch and care during the year	Rs 72000/	Rs 72000/	Nil
6h	Compliance on reclamation and rehabilitation by backfilling (i) Voids available for backfilling (Lx B x D	nil	nil	No comments.

6i	Compliance on reclamation and rehabilitation by backfilling (ii) Voids filled by waste / tailings	nil	nil	No comments.
6j	Compliance on reclamation and rehabilitation by backfilling (iii) Afforestation on backfilled area	nil	nil	No comments.
6k	Compliance on reclamation and rehabilitation by backfilling (iv) Rehabilitation by making water reservoir	nil	nil	No comments.
6l	Compliance on reclamation and rehabilitation by backfilling (v) any other specific means.	nil	nil	No comments.
6m	Compliance of rehabilitation of waste land within lease (i) afforestation	NA	NA	No comments
6n	Compliance of rehabilitation of waste land within lease (ii) Area rehabilitation (ha)	NA	NA	No comments.
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)	Yes	complied as per proposal	nil

6q	General remarks of inspecting officers on PMCP compliance and progressive closure operations etc.	nil	nil	Satisfactory.
----	---	-----	-----	---------------

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 the lease area	Rom mineral is grade wise sorting within the lease area	Entire ROM is being consumed.
7b	Method of grade-wise mineral sorting i.e. manual or mechanical.	manual	manual	nil
7c	Different grade of mineral sorted out at mines.	nil	nil	nil
7d	Any beneficiation process at mines	nil	nil	No comments.
7e	General remarks of inspecting officer on Mineral conservation and beneficiation issues	nil	nil	Entire ROM is being consumed.

Environment:

Sl.No.	Item	Propasals	Actual work	Remarks
8a	Separate removal and utilization of topsoil (Rule 32)	Top soil is removed & used for plantation purpose.	Top soil is removed & used for plantation purpos	Top soil used for plantation.
8b	Concurrent use or storage of topsoil	Topsoil is used for plantation purpose.	Topsoil is used for plantation purpose.	nil

8c	Separate dumps for overburden, waste rock, rejects and fines (Rule 33)	separate dumps proposed	separate dumps proposed	No comments.
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	Top soil stacked separately.
8f	Baseline information on existence of plantation and additional plantation done (Rule 41)	proposal to plant trees.	100nos. of trees plant	afforestation on periphery of ml area.
8g	Survival rate	80%	50%	Due to water problem
8h	Water sprinkling on roads to control airborne dust	nil	nil	due to water problem
8i	General remarks of inspecting officer on aesthetic beauty in and around mines area	nil	nil	Plantation observed on the boundary of ml area.

Compliance of Rule 45:

Sl.No.	Item	Propasals	Actual work	Remarks
9a	Status of submission of Monthly and Annual returns	Monthly annual return submitted regularly	annual returns submitted for the year 2016-17, 2017-18, .	being submitted regularly.

9b	Scrutiny of Annual return for information on Mining Engineer, Geologist and Manager	Sri.D, ANANDARAJ. BE, part time mining Engineer appointed.	Sri.D, ANANDARAJ. BE, part time mining Engineer appointed.	no comments.
9c	Scrutiny of Annual return on land use pattern for area under pits, reclaimed area, dumps etc.	mining=0.54 ha , waste dump=0.45.44 ha, Reclaimed=0 ha, mine road=0.01.00 ha , plantation=0.10.11 ha.	mining=0.54 ha , waste dump=0.45.44 ha, Reclaimed=0 ha, mine road=0.01.00 ha , plantation=0.10.11 ha.	no comments.
9d	Scrutiny of Annual return on afforestation	As per proposal	20 Nos of trees planted	within the mining lease area.
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	cement grades	ROM stock at mine head- 3612.930 Ts, cement grades.	No comments.
9g	Scrutiny of Annual return on sale value, Ex. Mine price and production cost	nil	Ex mine price Rs 294.69/ sale value Rs.365/, production cost Rs.230/	No comments.
9h	Scrutiny of Annual return on fixed assets	nil	Rs 5,50,000/	No comments.
9k	Scrutiny of Annual return on mining machineries	As per proposal	tractor mounted and portable compressor and Excavator,	No comments.

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

Date :

(T.PHALTHURAJHEN)

Indian Bureau of Mines