

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

**MCDR INSPECTION REPORT**

**Chennai regional office**

**Mine file No :** TN/KDC/LST-5.MDS

**Mine code :** 38TMN28011

- (i) Name of the Inspecting : **N001** ) **N.SUBRAHAMAANYAM**  
Officer and ID No.
- (ii) Designation : Assistant Mining Engineer
- (iii) Accompanying mine : Mr. Ramesh rep of Owner.  
Official with  
Designation
- (iv) Date of Inspection : 15/09/2017
- (v) Prev.inspection date : 05/02/2010

**PART-I : GENERAL INFORMATION**

1. (a) **Mine Name** : **VARAVANI (SALEM CHEMICAL)**
- (b) **Registration NO.** :
- (c) Category : B Manual
- (d) Type of Working : Opencast
- (e) Postal address  
State : TAMIL NADU  
District : KARUR  
Village : VARAVANI  
Taluka : KULITHALAI  
Post office : VARAVANI  
Pin Code :  
FAX No. :  
E-mail :  
Phone : 0427-2444297
- (f) Police Station :
- (g) First opening date : 02/04/1999
- (h) Weekly day of rest : SUN
2. Address for : VARAVANAI VILL&PO  
correspondance KULITHALAI TK  
KARUR DT.
3. (a) Lease Number : TMN1100
- (b) Lease area : 2.34
- (c) Period of lease : 20
- (d) Date of Expiry : 04/02/2018
4. Mineral worked : LIMESTONE Main

5. Name and Address of the

Lessee : M.K.ILLANGO, M/S SALEM CHEMICALS  
60/1,PUTJUR LTTERI ROAD,  
SALEM SALEM TAMIL NADU  
Phone:  
FAX :

Owner : M.K.ELANGO, SALEM CHEMICALS  
14/22,AGRAHARAM, SEVAPET  
SALEM-2 SALEM TAMIL NADU  
Phone: 0427-2444297  
FAX :

6. Date of approval of Mining : Mining Scheme rule 12 MCDR1988 20/08/2013  
Plan/Scheme of Mining

## 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.	Nil.	Two pits: 276x26x9m and 27x15x3m depth reached from surface.
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	Nil.	Two pits: 276x26x9m and 27x15x3m depth reached from surface.	No comments.
1e	Balance reserve as on 01/04/20	a.ROM-77700 tones, 70% recovery (111) b.ROM-12800 tones(222)	a.ROM-77700 tones, 70% recovery (111) b.ROM-12800 tones(222)	Nil
1f	General remarks of inspecting officers on geology, exploration etc	Nil	Mine is not working due to market problems / environment clearance.	No comments.

## Development :

Sl.No.	Item	Proposals	Actual work	Remarks
2a	Location of development w.r.t.lease area	Centre part on existing pit measures (48mx21mx2.5mh )	Same as proposed.	Nil.
2b	Separate benches in topsoil, overburden and minerals (Rule 15)	Separate benches on topsoil/ overburden.	Workings on existing pit a small quantity of topsoil cum overburden.	Nil.
2c	Stripping ratio or ore to OB ratio	1:0	Same as proposed.	Nil.
2d	Quantity of topsoil generation in m3	Topsoil generation is about 3400 m3	Workings on existing pit a small quantity of topsoil cum overburden.	Nil.

2e	Quantity of overburden generation in m3	Topsoil cum Overburden is about 3400 m3	Workings on existing pit a small quantity of topsoil cum overburden.	No comments.
2f	General remarks of inspecting officers on development of pit w.r.t. type of deposit etc	Nil.	Mine is not working due to market problems / environment clearance.	No comments.

### Exploitation:

Sl.No.	Item	Propasals	Actual work	Remarks
3a	Number of pit proposed for production	Centre part on existing pit measures (48mx21mx2.5mh )	Same as proposed.	Nil.
3b	Quantity of ROM mineral production proposed	3300 tones	Same as proposed.	Nil.
3c	Recovery of sailable/usable mineral from ROM production	70%	As reported 70%	Nil.
3d	Quantity of mineral reject generation	No rejects	Mineral rejects is 30% of ROM which includes rock fragments, impurities etc.	Nil.
3e	Grade of mineral rejects generation and threshold value declared.	No rejects	Mineral rejects is 30% of ROM which includes rock fragments, impurities etc.	Nil.
3f	Quantity of sub grade mineral generation.	No sub-grade mineral	Mineral rejects is 30% of ROM which includes rock fragments, impurities etc.	Nil.
3g	Grade of sub grade mineral generation	Nil	Nil	Nil
3h	Manual / Mechanised method adopted for segregating from ROM	Manual	Manual	Nil.

3i	Any analysis or beneficiation study proposed and carried out for sub grade mineral and rejects.	Nil	Nil	Nil
3j	Provision of drilling and blasting in mineral benches	Drilling & blasting in mineral are proposed.	Drilling & blasting in mineral are done by contract basis.	No comments.
3k	Provision of mining machineries in mineral benches	Nil.	Excavators will be deployed for development of benches and loading. Manual labours will be engaged with the help of spades and axes for removing the ROM and hand sorting.	Nil.
3l	Whether height of benches in overburden and mineral suitable for method of mining proposed in MP/SOM	The height of bench in overburden and mineral are proposed.	The proposals of different benches have been suitably proposed.	Nil.
3m	Total area covered under excavation/pits	1.71 ha	Same as proposed.	Nil.
3n	Ore to OB ratio for the pit/mine during the year.	1:0.91	Same as proposed.	Nil.
3o	Total area put in use under different heads at the end of year	1.97 ha	Same as proposed.	Nil.
3p	Production of ROM mineral during the last five year period as applicable	2012-13:Nil 2013-14:7016 2014-15;14038 2015-16; 10596 2016-17: 7232	2012-13:745 ts 2013-14:1728 2014-15;8980 2015-16; Nil 2016-17: Nil.	Deviation in production is due to market flexibility / Environment clearance
3q	General remarks of inspecting officers on method of mining etc.	Nil.	Proposal was adequate.	No comments.

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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)	Top soil dump & waste dumps are proposed.	As per proposal	Nil.
4b	Location of topsoil, OB and mineral reject dumps	Dumps are proposed at North & SE side of area.	As per proposal	Nil.
4c	Number of dumps within lease area and outside of lease area	Three dumps with in lease area. As proposed is maintained	As per proposal	Nil.
4d	Location of dumps w.r.t. ultimate pit limit (Rule 16)	Along eastern side of 7.5m safety zone.	As per proposal	Nil.
4e	Number of active and alive dumps.	Three dumps	As per proposal	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.	No retaining wall or garland drain all along dumps is proposed	Nil.	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	Top soil dumping is partly utilized for plantation.	Topsoil dump does not have any problem of wash offs.	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.	After complete extraction of Limestone, pits shall be used as water reservoirs	Limestone is yet to be exhaust	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 plantations along the safety barrier have been marked.	As per proposal.	Nil

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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).	The annual report on PMCP to be submitted on time and correctly - Rule 23E (2). Details should be given in the format as given in	No annual report on PMCP is submitted.	Nil.
6b	Area available for rehabilitation (ha) .	Nil	Nil	Nil
6c	afforestation done (ha).	0.01ha	0.01ha	Nil
6d	No. of saplings planted during the year	20	20	Nil
6e	Cumulative no .of plants	300	75	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 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.

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Mineral Conservation:

Sl.No.	Item	Propasals	Actual work	Remarks
7a	ROM Mineral dispatch or grade-wise sorting within lease area	ROM mineral would be sorting grade wise with in lease area.	Same as proposed.	Nil.
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	Nil
7e	General remarks of inspecting officer on Mineral conservation and beneficiation issues	Nil	Nil	No comments.

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Environment:

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

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8b	Concurrent use or storage of topsoil	1m OB cum Topsoil is removed separately and dumped for future use of plantation. For future use.	For future use.	Nil.
8c	Separate dumps for overburden, waste rock, rejects and fines (Rule 33)	Yes, there are two separate dumps for overburden and waste.	For future use.	Nil.
8f	Baseline information on existence of plantation and additional plantation done (Rule 41)	Generation of topsoil/overburden is a small quantity to be used for plantation purpose.	Same as proposed.	Nil.
8g	Survival rate	Space between samplings 3mx3m with 70% survival rate.	Same as proposed.	Nil.
8h	Water sprinkling on roads to control airborne dust	Nil.	Not applicable	Nil.
8i	General remarks of inspecting officer on aesthetic beauty in and around mines area	Not applicable		Not applicable No comments.

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Compliance of Rule 45:

Sl.No.	Item	Propasals	Actual work	Remarks
9a	Status of submission of Monthly and Annual returns	No monthly returns and annual returns were submitted.	Nil.	Nil.
9b	Scrutiny of Annual return for information on Mining Engineer, Geologist and Manager	Nil	Nil	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	Nil	Nil	Nil

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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
MCDR17	Rule 11(4)	26/09/2017			
MCDR17	Rule 27(2)	26/09/2017			
MCDR17	Rule 28(1)	26/09/2017			
MCDR17	Rule 55(1)(3)	26/09/2017			

**Date :**

**(N.SUBRAHAMAANYAM)**

Indian Bureau of Mines