INDIAN BUREAU OF MINES
MINERALS DEVELOPMEMT AND REGULATION DIVISION

MCDR INSPECTION REPORT

Chennai regional office

Mine file No : TN/TNL/LST-63.MDS. **Mine code : 38TMN15044**

(i) Name of the Inspecting Officer and ID No. : **N001) N.SUBRAHAMAANYAM**

(ii) Designation : Assistant Mining Engineer

(iii) Accompaning mine Official with Designation : Mr. Peter Surveyor.

(iv) Date of Inspection : 31/07/2017

(v) Prev.inspection date : 29/06/2000

PART-I : GENERAL INFORMATION

1. (a) **Mine Name** : **SCL**

(b) Registration NO. :

(c) Category : B Manual

(d) Type of Working : Opencast

(e) Postal address

State : TAMIL NADU
District : TIRUNELVELI
Village : PALLIKOTTAI
Taluka : TIRUNELVELI
Post office : PALLIKOTTAI
Pin Code : 627357
FAX No. :
E-mail :
Phone : 0462-85117

(f) Police Station :

(g) First opening date : 04/01/1995

(h) Weekly day of rest : SUN

2. Address for correspondance : M/S SANKAR CHEMICAL LIME ,
ABCOY GARDENS,
SANKARNAGAR,627 357

3. (a) Lease Number : TMN1228
(b) Lease area : 7.12
(c) Period of lease : 20
(d) Date of Expiry : 25/12/2014

4. Mineral worked : LIMESTONE Main

5. Name and Address of the

Lessee : M/S SANKAR CHEMICAL LIME
ABCOY GARDENS SANKAR NAGAR
TIRUNELVELI TAMIL NADU
Phone:300275
FAX :

Owner : K.S.RAMAN, MANAGING PARTNER
M/S SANKAR CHEMICAL LIME,
ABCOY GARDENS, SANKAR
NAGAR. TIRUNELVELI TAMIL
NADU
Phone: 0462-300352/300
FAX : 0462-300113

Agent : V.R.RANGARAJAN
ABCOY GARDENS SANKAR NAGAR
TIRUNELVELI TAMIL NADU
Phone: 300275
FAX :

6. Date of approval of Mining Plan/Scheme of Mining : Mining Scheme rule 12 MCDR1988 23/07/2007
Mining Scheme rule 12 MCDR1988 26/04/2013
MP modif under MCR 1960 11/11/2015

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	There are 3 existing pits, 17m depth reached from surface.	No comments.
1c	Exploration Agencies and Expenditure in lakh rupees during the year	Nil.	17m depth reached from surface.	No comments.
1d	Balance area to be explored to bring Geological axis in 1 or 2	Nil.	Entire ML area reached 17 m depth from surface.	Nil.
1e	Balance reserve as on 01/04/20	ROM-32003 tones, 60% recovery, (111) ROM-217543 tones(221)	ROM-32003 tones, 60% recovery, (111) ROM-217543 tones(221)	No comments.
1f	General remarks of inspecting officers on geology, exploration etc	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.	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.	No comments.

Development :

Sl.No.	Item	Propasals	Actual work	Remarks
2a	Location of development w.r.t.lease area	Western side towards north-east of lease area(24x12x4m)	Same as proposed.	Nil.
2b	Separate benches in topsoil, overburden and minerals (Rule 15)	Development on topsoil/overburden. Two benches of 4m height.	Separate benches are formed for ore & overburden.	Nil.

2c	Stripping ratio or ore to OB ratio	1:0.5	As reported, same as proposed.	Nil
2d	Quantity of topsoil generation in m3	72M3	Same as proposed.	Nil
2e	Quantity of overburden generation in m3	72 m3	Same as proposed.	Nil
2f	General remarks of inspecting officers on development of pit w.r.t. type of deposit etc	Production will be carried out only on existing pit.	Not much development carried out.	Nil.

Exploitation:

Sl.No.	Item	Propasals	Actual work	Remarks
3a	Number of pit proposed for production	One pit at western side towards north-east of lease area(24x12x4m)	Same as proposed.	Nil.
3b	Quantity of ROM mineral production proposed	2870 tons of ROM.	Same as proposed.	Nil.
3c	Recovery of sailable/usable mineral from ROM production	60%	As reported 60%	Nil.
3d	Quantity of mineral reject generation	No rejects	Mineral rejects is 40% of ROM which includes rock fragments, impurities etc.	Nil
3e	Grade of mineral rejects generation and threshold value declared.	No rejects	Mineral rejects is 40% of ROM which includes rock fragments, impurities etc.	Nil
3f	Quantity of sub grade mineral generation.	No sub-grade mineral.	Below 40% of CaCO3 with contaminations of calc gneiss waste are considered as mineral rejects in these particular formations.	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 being done by contract basis.	Nil.
3k	Provision of mining machineries in mineral benches	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.	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 proposal of different benches has been suitably proposed.	Nil.
3m	Total area covered under excavation/pits	1.09 ha	Same as proposed	Nil.
3n	Ore to OB ratio for the pit/mine during the year.	1:0.34	Same as proposed	Nil.
3o	Total area put in use under different heads at the end of year	1.58.6 ha	Same as proposed	Nil.
3p	Production of ROM mineral during the last five year period as applicable	2009-10;Nil 2010-11:Nil 2011-12:Nil 2012-13:7043. 2013-14:8112.	2009-10;1800 2010-11:3500 2011-12:2833 2012-13: Nil. 2013-14: 800	Deviation in production is due to market flexibility.

3q	General remarks of inspecting officers on method of mining etc.	Proposal was adequate.	Mining operations are being carried out as per proposal.	Nil.

Solid Waste Management - Dumping:

Sl.No.	Item	Propasals	Actual work	Remarks
4a	Separate dumping of topsoil, OB and mineral rejects (Rule 32,33)	Top soil cum overburden dump & waste dumps are proposed.	As per proposal.	Nil
4b	Location of topsoil, OB and mineral reject dumps	Dumps are proposed at eastern side of ML area.Nil.	As per proposal.	Nil.
4c	Number of dumps within lease area and outside of lease area	Two dumps with in lease area.	As proposed is maintained.	Nil.
4d	Location of dumps w.r.t. ultimate pit limit (Rule 16)	Along eastern side of 7.5m safety zone.	As proposed.	Nil
4e	Number of active and alive dumps.	Two dumps	Two 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.	Nil	Nil	Nil
4i	Length of Retaining wall or garland drain all along dumps	Nil	Nil	Nil
4j	Number of settling ponds	Nil	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.	Nil.

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	Plantations	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

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) .	0.13 ha	0.13ha	Nil
6c	afforestation done (ha).	0.021 ha	0.021 ha	Nil.
6d	No. of saplings planted during the year	20 nos	20 nos	20 nos
6e	Cumulative no .of plants	500 nos	350 nos	Due to water problems.
6f	Any other method of rehabilitation	Nil	Niol	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	Not applicable.	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 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.

Environment:

Sl.No.	Item	Propasals	Actual work	Remarks
8a	Separate removal and utilization of topsoil (Rule 32)	Top soil is removed separately	Top soil is removed separately	For future use.

8b	Concurrent use or storage of topsoil	1m OB cum Topsoil is removed separately and dumped for future use of plantation.	Same as proposed.	Nil.
8c	Separate dumps for overburden, waste rock, rejects and fines (Rule 33)	Separate dump for topsoil cum OB and waste.	Same as proposed.	Nil.
8d	Use of overburden, waste rock, rejects and fines dumps for restoring the land to its original use	Generation of topsoil/overburden is a small quantity to be used for plantation purpose	Same as proposed.	Nil.
8e	Phased restoration, reclamation and rehabilitation of lands affected by mining operations (Pits, dumps etc)	No such proposal	At present it is not applicable, since the mine is active.	Nil.
8f	Baseline information on existence of plantation and additional plantation done (Rule 41)	The area is dry and barren.	Some plantations have been made along the lease boundary within safety zone.	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	Area is dry and barren.	Some greenery has been developed by mine management.	Nil

Compliance of Rule 45:

Sl.No.	Item	Propasals	Actual work	Remarks

9a	Status of submission of Monthly and Annual returns	Monthly returns and annual returns were submitted.	Monthly returns and annual returns were submitted. Both are scrutinized & found to be in order.	No.comments.
9b	Scrutiny of Annual return for information on Mining Engineer, Geologist and Manager	S.Ravichandran MSc (Geology) appointed as Part-time Geologist.	Lessee has appionted Sri. S.Ravichandran MSc (Geology) as Part-time Geologist.	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	JCB for loading & 10 ton tipper fir transporting are being used.	No comments. Monthly returns and annual returns were submitted. Both are scrutinized & found to be in order. During the inspection rules 33, 54(d) and 55(1) (c) of MCDR 2017 is pointed out and violation letter is issued, follow up action is being taken up. The scheme of mining and PMCP have been approved for period 2014-15 to 2018- 2019.

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 33	28/08/2017				
MCDR17 Rule 54(d)	28/08/2017				
MCDR17 Rule 55(1)(3)	28/08/2017				

Date :

(**N.SUBRAHAMAANYAM**)

Indian Bureau of Mines