

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

MCDR INSPECTION REPORT

Chennai regional office

Mine file No : TN/TCR/LST-38/MDS

Mine code : 38TMN24029

- (i) Name of the Inspecting : **N001**) **N.SUBRAHAMAANYAM**
Officer and ID No.
- (ii) Designation : Assistant Mining Engineer
- (iii) Accompanying mine : Mr J Shahabudeen rep of Owner.
Official with
Designation
- (iv) Date of Inspection : 27/02/2018
- (v) Prev.inspection date : 28/12/2008

PART-I : GENERAL INFORMATION

1. (a) **Mine Name** : **PARAVAI - 1 (1.21 H)**
- (b) **Registration NO.** :
- (c) Category : B Manual
- (d) Type of Working : Opencast
- (e) Postal address
State : TAMIL NADU
District : PERAMBALUR
Village : PARAVAI
Taluka : KUNNAM
Post office : PARAVAI
Pin Code : 621717
FAX No. :
E-mail :
Phone :
- (f) Police Station :
- (g) First opening date : 19/03/1973
- (h) Weekly day of rest : SUN
2. Address for : ARUN CHEMICALS
correspondance TANK ROAD, NENDUNGUR POST, IRUNGALUR VIA
TIRCHY DISTRICT.
3. (a) Lease Number : TMN0616
- (b) Lease area : 1.89
- (c) Period of lease : 20
- (d) Date of Expiry :
4. Mineral worked : LIMESTONE Main

5. Name and Address of the

Lessee : M/S.ARUN CHEMICALS,
NEDUNGUR - POST IRUNGUR -
VIA, TIRUCHIRAPALLI TAMIL
NADU
Phone:
FAX :

Owner : T.S.THIYAGARAJAN
M/S.ARUN CHEMICAL, TRUNK
ROAD, NEUNGUR - POST
TIRUCHIRAPALLI TAMIL NADU
Phone:
FAX :

Mining Engineer

Name : P.CHANDRASEKARAN,Part Time
Qualification : B.SC., (HONS)
Appointment/ :
Termination date

6. Date of approval of Mining :
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	2 Bore holes are proposed to cover entire lease area.	But not done due to financial crisis.	The existing pit is 135x76x16m (d) 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	Entire area is covered by existing pits.	No comments.
1e	Balance reserve as on 01/04/20	a.ROM-140500 tons (111) b.ROM-15900 tones (221)	a.ROM-140500 tons (111) b.ROM-15900 tones (221)	No comments.
1f	General remarks of inspecting officers on geology, exploration etc	Nil.	Mining operations was temporary discontinued due environmental clearance / to poor market / labour problems.	No comments

Development :

Sl.No.	Item	Proposals	Actual work	Remarks
2a	Location of development w.r.t.lease area	Western side towards east direction of lease area (136x44x3m)	Mining operations was temporary discontinued due to environmental clearance.	No comments
2b	Separate benches in topsoil, overburden and minerals (Rule 15)	Separate benches are formed for ore & overburden	Topsoil/overburden. Two benches of 1m and 3m height formed separately.	Nil.
2c	Stripping ratio or ore to OB ratio	1:0.7	As reported, same as proposed.	Nil.
2d	Quantity of topsoil generation in m3	Top soil 2000 m3	Same as proposed.	Nil.

2e	Quantity of overburden generation in m3	Top soil cum OB is about 2000 m3	Same as proposed.	No comments.
2f	General remarks of inspecting officers on development of pit w.r.t. type of deposit etc	Nil.	After reopening, production will be carried out only on existing pit.	Nil

Exploitation:

Sl.No.	Item	Propasals	Actual work	Remarks
3a	Number of pit proposed for production	Western side towards east direction of lease area (136x44x3m)	Mining operations was temporary discontinued due to environmental clearance.	Nil
3b	Quantity of ROM mineral production proposed	About 32000 tons of ROM.	Mining operations was temporary discontinued due to environmental clearance..	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	ineral 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	Grade is uniform, no other grades.	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	Nil.	After reopening the mine, 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	0.98 ha	0.98 ha	Nil
3n	Ore to OB ratio for the pit/mine during the year.	1:0.75	As reported 1:0.75	Nil.
3o	Total area put in use under different heads at the end of year	1.02 ha	1.02 ha	Nil
3p	Production of ROM mineral during the last five year period as applicable	a. 2012-13:Nil. b. 2013-14:Nil. c. 2014-15:Nil. d. 2015-16:Nil. e. 2016-17:Nil	a. 2012-13:Nil. b. 2013-14:Nil. c. 2014-15:Nil. d. 2015-16:Nil. e. 2016-17:Nil	Nil.
3q	General remarks of inspecting officers on method of mining etc.	Proposal was adequate.	After reopening. Mining carried out as per proposal.	Mine is not working due to labour problems / Poor market / Environment clearance.

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 dump & waste dumps are proposed.	As per proposal.	Mine is not working due to labour problems / Poor market / Environment clearance.
4b	Location of topsoil, OB and mineral reject dumps	Eastern part of lease area.	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)	Two dumps with in lease area. As proposed is maintained. Along 7.5m safety zone.	As proposed is maintained.	Nil.
4e	Number of active and alive dumps.	Two dumps	Two dumps	No comments.
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	No proposal for retaining wall or garland drain all along dumps are there	Nil
4i	Length of Retaining wall or garland drain all along dumps	No proposal	Not applicable.	Not applicable.
4j	Number of settling ponds	Not applicable.	Not applicable.	Not applicable.
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.	Mine is not working due to labour problems / Poor market / Environment clearance.

Solid Waste Management - Backfilling:

Sl.No.	Item	Propasals	Actual work	Remarks
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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

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 to be submitted.	Annual report on PMCP is not submitted.	Nil.
6b	Area available for rehabilitation (ha) .	0.01hs	0.01ha	Nil.
6c	afforestation done (ha).	0.01ha	0.01ha	Nil.
6d	No. of saplings planted during the year	20 nos	20nos	Nil.
6e	Cumulative no .of plants	350 nos	120 nos	No1.
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	Mine is not working due to labour problems / Poor market / Environment clearance.

Mineral Conservation:

Sl.No.	Item	Propasals	Actual work	Remarks
7a	ROM Mineral dispatch or grade-wise sorting within lease area	The ROM mineral cement grade sorts within lease area than dispatched.	Manual sorting is done where ore association are found with waste.	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	The grades of ore are almost uniform.	Nil
7d	Any beneficiation process at mines	Nil	Nil	Nil
7e	General remarks of inspecting officer on Mineral conservation and beneficiation issues	The mineral is almost uniform.	Mine is not working due to labour problems / Poor market / Environment clearance.	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 dumped 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.	For future use.	Nil.
8c	Separate dumps for overburden, waste rock, rejects and fines (Rule 33)	Separate dump for TS only.	The proposal is being followed.	Nil
8d	Use of overburden, waste rock, rejects and fines dumps for restoring the land to its original use	Nil	Nil	Mine is not working due to labour problems / Poor market / Environment clearance.
8e	Phased restoration, reclamation and rehabilitation of lands affected by mining operations (Pits, dumps etc)	No such proposal	Nil.	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
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9a	Status of submission of Monthly and Annual returns	All Monthly returns and Annual returns are to be submitted regularly	Monthly returns and Annual returns are not submitted.	Mine is not working due to labour problems / Poor market / Environment clearance.
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	Mine is not working due to labour problems / Poor market / Environment clearance.
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	Portable compressor, Excavator and Comet Tipper.	Portable compressor, Excavator and Comet Tipper.	Used for hire basis.

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 :

(N.SUBRAHAMAANYAM)

Indian Bureau of Mines