

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

MCDR INSPECTION REPORT

Chennai regional office

Mine file No : TN/TNL/LST-69.MDS

Mine code : 38TMN15062

- (i) Name of the Inspecting : **N001**) **N.SUBRAHAMAANYAM**
Officer and ID No.
- (ii) Designation : Assistant Mining Engineer
- (iii) Accompanying mine : Mr. Peter reof Owner.
Official with
Designation
- (iv) Date of Inspection : 05/01/2018
- (v) Prev.inspection date : 09/09/2010

PART-I : GENERAL INFORMATION

- 1. (a) **Mine Name** : **PALLIKOTTAI**
- (b) **Registration NO.** :
- (c) **Category** : B Manual
- (d) **Type of Working** : Opencast
- (e) **Postal address**
State : TAMIL NADU
District : TIRUNELVELI
Village :
Taluka :
Post office :
Pin Code :
FAX No. :
E-mail :
Phone :
- (f) **Police Station** :
- (g) **First opening date** : 12/01/1998
- (h) **Weekly day of rest** : SUN
- 2. **Address for** : ABCOY BUILDINGS
correspondance SANKARNAGAR-627357
- 3. (a) **Lease Number** : TMN0567
- (b) **Lease area** : 2.41
- (c) **Period of lease** : 20
- (d) **Date of Expiry** :
- 4. **Mineral worked** : LIMESTONE Main

5. Name and Address of the

Lessee : M/S VISHAL INVESTMENTS & HOLDINGS(P)LTD
ABCOY BUILDINGS SANKAR
NAGAR TIRUNELVELI TAMIL
NADU
Phone:300275
FAX :

Owner : M/S VISHAL INVESTMENTS(P)LTD.
ABCOY BUILDINGS SANKAR
NAGAR TIRUNELVELI TAMIL
NADU
Phone: 300275
FAX :

Agent : R.RAJAGOPAL
M/S VISHAL INVESTMENTS(P)
LTD. ABCOY BUILDINGS SANKAR
NAGAR TIRUNELVELI TAMIL
NADU
Phone: 300275
FAX :

Manager

Name : V.MURUGAN
Qualification : SSLC, MINE FOREMAN CERTIFICATE HOLDER
Appointment/ : 01/01/1998
Termination date

6. Date of approval of Mining : Mining Scheme rule 12 MCDR1988 02/04/2014
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	No comments.
1b	Exploration over lease area for geological axis 1 or 2	Wagon drill holes-2; 27m depth.	There are two existing pits, 7m depth reached from surface.	No comments.
1c	Exploration Agencies and Expenditure in lakh rupees during the year	RQP & Lessee	Rs.65,500/-	27m depth reached from surface.
1d	Balance area to be explored to bring Geological axis in 1 or 2	Nil	Entire ML area covered.	Nil
1e	Balance reserve as on 01/04/20	ROM-154565 tones, 70% recovery, (111) ROM-263320 tones(221)	ROM-154565 tones, 70% recovery, (111) ROM-263320 tones(221)	27m depth reached from surface.
1f	General remarks of inspecting officers on geology, exploration etc	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.	No comments.

Development :

Sl.No.	Item	Proposals	Actual work	Remarks
2a	Location of development w.r.t.lease area	Southern side of lease area 35x18x5m depth.	Mine is not working for more than three years due to environment clearance and poor recovery.	No comments.
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	600	Same as proposed.	Nil
2e	Quantity of overburden generation in m3	600	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.	Mine is not working for more than three years due to environment clearance and poor recovery.

Exploitation:

Sl.No.	Item	Propasals	Actual work	Remarks
3a	Number of pit proposed for production	Southern side of lease area 35x18x5m depth.	Same as proposed.	Nil.
3b	Quantity of ROM mineral production proposed	11500 tons	Mine is not working for more than three years due to environment clearance and poor recovery.	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.	Below 30% of CaCO3 with contaminations of calc gneiss waste are considered as mineral rejects in these particular formations. Nil	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	0.79.6 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	1.17.6 ha	Same as proposed	Nil
3p	Production of ROM mineral during the last five year period as applicable	2012-13:Nil 2013-14: Nil. 2014-15:Nil 2015-16:Nil 2016-17:Nil.	2012-13:Nil 2013-14: Nil. 2014-15:Nil 2015-16:Nil 2016-17:Nil.	Mine is not working for more than three years due to environment clearance and poor recovery.

3q	General remarks of inspecting officers on method of mining etc.	Proposal was adequate.	Proposal was adequate.	Mine is not working for more than three years due to environment clearance and poor recovery.
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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.	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 to be submitted on time and correctly - Rule 23E (2). Details should be given in the format as given in	Annual report on PMCP is not submitted.	Nil
6b	Area available for rehabilitation (ha) .	Nil	Nil	Nil
6c	afforestation done (ha).	0.02 ha	0.02 ha	Nil
6d	No. of saplings planted during the year	20 nos.	20 nos.	No comments.
6e	Cumulative no .of plants	250 nos	75 nos	Due to water problems.

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 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	After complete extraction of Limestone, pits shall be used as water reservoirs.

Environment:

Sl.No.	Item	Propasals	Actual work	Remarks
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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.	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

Sl.No.	Item	Propasals	Actual work	Remarks
9a	Status of submission of Monthly and Annual returns	Monthly returns and annual returns are to be submitted.	No monthly returns and annual returns were submitted.	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	JCB for loading & 10 ton tipper fir transporting are being used.	JCB for loading & 10 ton tipper fir transporting are being used.	I inspected this mine on 05/01/2018 for examination of ROMP & PMCP along with mine official. The document is not approved, since the mine is not working more than two years.

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