

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

MCDR INSPECTION REPORT

Chennai regional office

Mine file No : TN/SLM/LST-117/MDS

Mine code : 38TMN11039

- (i) Name of the Inspecting : **N001**) **N.SUBRAHAMAANYAM**
Officer and ID No.
- (ii) Designation : Assistant Mining Engineer
- (iii) Accompanying mine : Dhanasekar rep of Owner.
Official with
Designation
- (iv) Date of Inspection : 01/02/2017
- (v) Prev.inspection date : 12/03/2016

PART-I : GENERAL INFORMATION

1. (a) **Mine Name** : **PRITHIVI MINERALS**
- (b) **Registration NO.** :
- (c) Category : B Manual
- (d) Type of Working : Opencast
- (e) Postal address
State : TAMIL NADU
District : SALEM
Village : ALATHUR
Taluka : SANKARI
Post office : ALATHUR
Pin Code : 637303
FAX No. :
E-mail :
Phone : 04283 - 54288
- (f) Police Station :
- (g) First opening date : 20/10/1997
- (h) Weekly day of rest : SUN
2. Address for : M/S PRITHVI MINERALS
correspondance : VARANALLAMPALAYAM , ALATHUR (PO)
SANKARI TALUK , SALEM DT-637303
3. (a) Lease Number : TMN0563
- (b) Lease area : 1.1
- (c) Period of lease : 20
- (d) Date of Expiry :
4. Mineral worked : LIMESTONE Main

5. Name and Address of the

Lessee : M/S. PRITHIVI MINERALS
VARANDALAMPALAYAM ALATHUR-
PO SANKARI -TALUK SALEM
TAMIL NADU
Phone:
FAX :

Owner : SHRI.T.P.THANGAVELU
VARANALLAMPALAYAM ALATHUR -
POST SANKARI WEST SALEM
TAMIL NADU
Phone:
FAX :

6. Date of approval of Mining	:	Mining Scheme rule 12 MCDR1988	27/08/2003
Plan/Scheme of Mining	:	Mining Scheme rule 12 MCDR1988	05/08/2013

PART - II : OBSERVATION/COMMENTS OF INSPECTING OFFICERS

Exploration :

Sl.No.	Item	Proposals	Actual work	Remarks
1a	Backlog of previous year	One bore hole up to 30 depths from surface.	Nil.	Existing pit: 185x16x18m depth.
1b	Exploration over lease area for geological axis 1 or 2	Nil	Nil	Existing pit: 185x16x18m depth.
1c	Exploration Agencies and Expenditure in lakh rupees during the year	Nil.	Nil.	No comments
1d	Balance area to be explored to bring Geological axis in 1 or 2	ML area is very small, 80% of lease area was covered nby existing pit.o be explored.	Nil.	No comments
1e	Balance reserve as on 01/04/20	16557 tones (111) & 976600 tones (222)	Reserves and resources have been estimated up to 18m depth from surface.	No comments.
1f	General remarks of inspecting officers on geology, exploration etc	Nil.	Nil.	No comments

Development :

Sl.No.	Item	Proposals	Actual work	Remarks
2a	Location of development w.r.t.lease area	Southern part of lease area, Pit 33x12x2.5m depth.	Mine is not working due to labour and MOFE problems.	Mine will be reopened / worked as soon as they get clearance from MOEF.
2b	Separate benches in topsoil, overburden and minerals (Rule 15)	Separate benches for topsoil cum OB and ore are proposed.	Same as proposed.	Nil.
2c	Stripping ratio or ore to OB ratio	1:0.04	Same as proposed.	Nil.

2d	Quantity of topsoil generation in m3	Top soil cum overburden generation in m3 is about 500.	Same as proposed.	Nil.
2e	Quantity of overburden generation in m3	Top soil cum overburden generation in m3 is about 500.	Same as proposed.	Nil
2f	General remarks of inspecting officers on development of pit w.r.t. type of deposit etc	Nil.	Nil.	Mine is not working due to labour problems, Mining by Cat " B" opencast method. Jackhammer drilling, sorting, loading of limestone has been carried out with help of hydraulic excavators and tippers of 10Ts capacity.

Exploitation:

Sl.No.	Item	Propasals	Actual work	Remarks
3a	Number of pit proposed for production	One pit at Southern part of lease area, Pit 33x12x2.5m	Mine is not working due to labour / MOFE problems..	Nil.
3b	Quantity of ROM mineral production proposed	Proposed 1200 tones	Mine is not working due to labour problems.	Nil.
3c	Recovery of sailable/usable mineral from ROM production	Salable is 60% from ROM	Achieved as proposed.	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	Nil.	Nil.

3f	Quantity of sub grade mineral generation.	No sub-grade mineral.	Below 40% of CaCO ₃ 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	Cat" B" opencast manual method.	Same as proposed.	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 is proposed by contract basis.	Same as proposed.	Nil.
3k	Provision of mining machineries in mineral benches	Excavators for development of benches and loading.	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	Height of bench in overburden is 1m and mineral bench is 2.5m.	Same as proposed.	Nil.
3m	Total area covered under excavation/pits	0.26 ha	Same as proposed.	Nil.
3n	Ore to OB ratio for the pit/mine during the year.	1:1.67	Same as proposed.	Nil.
3o	Total area put in use under different heads at the end of year	1.08 ha	Same as proposed.	Nil.

3p	Production of ROM mineral during the last five year period as applicable	1.2011-12:700 2.2012-13:700 3.2013-14:900 4.2014-15:900 5.2015-16:900	2011-12:310 2012-13:280 2013-14:200 2014-15:270 2015-16:450	The deviation in production is due to market demand.
3q	General remarks of inspecting officers on method of mining etc.	Nil	Nil	The deviation in production is due to market demand.

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.	Proposed as per proposal.	Nil.
4b	Location of topsoil, OB and mineral reject dumps	Dumps are proposed at north & Eastern side of ML area.	Proposed as per proposal.	Nil.
4c	Number of dumps within lease area and outside of lease area	Within lease area three dumps without.	As proposed is maintained.	Nil.
4d	Location of dumps w.r.t. ultimate pit limit (Rule 16)	Dumps are far away from UPL	Proposed as per proposal.	Nil.
4e	Number of active and alive dumps.	Three dumps are active & alive.	Proposed 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 proposed.	Not applicable.	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.	Nil.
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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 backfilled.	Limestone is yet to be exhaust.	Nil.
5b	Area under backfilling of mined out area	Not applicable	Nil.	Nil.
5c	Concurrent use of topsoil for restoration or rehabilitation of mineral out area (Rule 32)	For plantation use only.	As proposed is maintained	Nil.
5d	Total area fully reclaimed and rehabilitated	Not applicable at present	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).	Not submitted	Nil.	Nil.
6b	Area available for rehabilitation (ha) .	Nil	Nil	Nil
6c	afforestation done (ha).	0.12	0.13	Nil

6d	No. of saplings planted during the year	20	20	Poor growth due to water problems..
6e	Cumulative no .of plants	120	95	Poor growth due to water problems..
6f	Any other method of rehabilitation	Nil.	Nil.	No comments.
6g	Cost incurred on watch and care during the year	Nil.	Nil.	No comments.
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	Nil	Nil	No comments.

6n	Compliance of rehabilitation of waste land within lease (ii)Area rehabilitation (ha)	Nil	Nil	No comments.
6o	Compliance of rehabilitation of waste land within lease (iii)Method of rehabilitation	Nil	Nil	No comments.
6p	Compliance of environmental monitoring (core zone and buffer zone)	Nil.	Nil.	No comments.
6q	General remarks of inspecting officers on PMCP compliance and progressive closure operations etc.	Nil.	Nil.	Mine is working by as per proposal by Cat" B" opencast manual method. Jackhammer drilling, sorting, loading of limestone has been carried out with help of hydraulic excavators and tippers of 10Ts / 20Ts capacity

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.	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	Nil.	Nil.	Mine is not working, Mining is by Cat" B" opencast manual method. Jackhammer drilling, sorting, loading of limestone has been carried out with help of hydraulic excavators and tippers of 10Ts capacity
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Environment:

Sl.No.	Item	Proposals	Actual work	Remarks
8a	Separate removal and utilization of topsoil (Rule 32)	Topsoil cum OB is being removed separately for future utilization.	Same as proposed.	Nil.
8b	Concurrent use or storage of topsoil	Topsoil/OB is stored separately for plantation purpose only.	Same as proposed.	Nil.
8c	Separate dumps for overburden, waste rock, rejects and fines (Rule 33)	Separate dumps to be made for topsoil cum overburden, rejects. Same as proposed.	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 cum overburden is for plantations.	Same as proposed.	Nil.
8e	Phased restoration, reclamation and rehabilitation of lands affected by mining operations (Pits, dumps etc)	No such proposal	Since the lease area is small, does not arise	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%	Nil.
8h	Water sprinkling on roads to control airborne dust	No proposal	Since the lease area is small, does not arise.	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 and annual returns have not been submitted, referred to Statistical.	Nil.	No comments.
9b	Scrutiny of Annual return for information on Mining Engineer, Geologist and Manager	All monthly returns and Annual returns have been submitted.	All monthly returns and Annual returns submitted are examined found to be in order.	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	Same as proposed;.	Nil.

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
Rule 12(2)	07/04/2017				
Rule 23(2)	07/04/2017				

Date :

(N.SUBRAHAMAANYAM)

Indian Bureau of Mines