

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

**MCDR INSPECTION REPORT
Hyderabad regional office**

Mine file No : AP/SRK/GAR-2/HYD

Mine code : 74APR18001

- (i) Name of the Inspecting : **D013**) **D.DASH**
Officer and ID No.
- (ii) Designation : Senior Mining Geologist
- (iii) Accompanying mine :
Official with
Designation
- (iv) Date of Inspection : 20/04/2016
- (v) Prev.inspection date :

PART-I : GENERAL INFORMATION

1. (a) **Mine Name** : **SRIKURMAM MINERALS**
- (b) **Registration NO.** :
- (c) **Category** : B Manual
- (d) **Type of Working** : Opencast
- (e) **Postal address**
State : ANDHRA PRADESH
District : SRIKAKULAM
Village :
Taluka :
Post office :
Pin Code :
FAX No. : 91-08942-229328
E-mail : trimexsklm@eth.net
Phone : 08942-229328
- (f) **Police Station** :
- (g) **First opening date** : 23/02/2004
- (h) **Weekly day of rest** : SUN
2. **Address for
correspondance** :
3. (a) **Lease Number** : APR0076
- (b) **Lease area** : 4.38
- (c) **Period of lease** : 10
- (d) **Date of Expiry** : 21/02/2001
4. **Mineral worked** : GARNET Main

5. Name and Address of the

Lessee : M/S TRIMEX SANDS PVT LTD.
PLOT NO 56, TELUGU MUSALAYYA
LAYOUT, ADTHIYA
NAGAR, ARSAVALLI ROAD,
SRIKAKULAM SRIKAKULAM
ANDHRA PRADESH
Phone:
FAX :

6. Date of approval of Mining	:	Mining Scheme rule 12 MCDR1988	16/06/2009
Plan/Scheme of Mining	:	Mining Scheme rule 12 MCDR1988	23/09/2014

PART - II : OBSERVATION/COMMENTS OF INSPECTING OFFICERS

Exploration :

Sl.No.	Item	Proposals	Actual work	Remarks
1a	Backlog of previous year	2013-14 (from Nov. 13 to till March 14) - 69 BHs 2014-15 - 47 BHs 2015-16 - 107 BHs Total 223 BHs	2013-14 (from Nov. 13 to till March 14) - 99 BHs 2014-15 - 53 BHs 2015-16 - Nil BHs Total 152 BHs	
1b	Exploration over lease area for geological axis 1 or 2	2013-14 30.0 ha 2014-15 - 309 ha 2015-16 - 83.0	2013-14 30.0 ha 2014-15 - 309 ha 2015-16 - Nil	
1c	Exploration Agencies and Expenditure in lakh rupees during the year	Nil	Nil	
1d	Balance area to be explored to bring Geological axis in 1 or 2	83.00 ha	43.00 ha	
1e	Balance reserve as on 01/04/20	As on 01-04-2014 - 27.26 million tons	As on 01-04-2016 - 31.43 million tons.	

Development :

Sl.No.	Item	Proposals	Actual work	Remarks
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2a	Location of development w.r.t.lease area	For 2014-15, mining proposed in Vatsavalasa block between V1 & V2 sections, V11 & V13 sections and between T22a & 24 sections in Tonnagi block. For 2015-16, mining proposed in Vatsavalasa block between V13 & V15 sections, and between T21a & 22a and between T23a & 24a sections in Tonnagi block.	Same as proposed in Vatsalvalsa and no working in Tonangi Block durint the year. In Vatsavalasa block between V13 & V16 sections. In Tonangi block between T21a & 22a and between 23a & 24a sections.
2b	Separate benches in topsoil, overburden and minerals (Rule 15)	NA	NA
2c	Stripping ratio or ore to OB ratio	NA	NA
2d	Quantity of topsoil generation in m3	NA	NA
2e	Quantity of overburden generation in m3	NA	NA
2f	General remarks of inspecting officers on development of pit w.r.t. type of deposit etc	-	-

Exploitation:

Sl.No.	Item	Propasals	Actual work	Remarks
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3a	Number of pit proposed for production	In 2014-15, Vatsavalsa - 2 blocks and in Tonangi - 1 block. In 2015-16, Vatsavalsa - 1 block and in Tonangi - 2 blocks.	In 2014-15, Vatsavalsa - 2 blocks and in Tonangi - Nil. In 2015-16, Vatsavalsa - 2 blocks and in Tonangi - 2 blocks.
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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)	NA	NA	
4b	Location of topsoil, OB and mineral reject dumps	NA	NA	
4c	Number of dumps within lease area and outside of lease area	NA	NA	
4d	Location of dumps w.r.t. ultimate pit limit (Rule 16)	NA	NA	
4f	Number of dead dumps.	NA	NA	
4g	Number of dumps established.	NA	NA	
4h	Whether Retaining wall or garland drain all along dumps are there.	NA	NA	
4i	Length of Retaining wall or garland drain all along dumps	NA	NA	
4k	Specific comments of inspecting officer on waste dump management	NA	NA	

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.	Full extraction up to the depth of mineralization .	Till new EC/CF0 issued in 2015 for enhanced production and working upto full depth of mineralisation, extraction depth was up to 4m only as per the then EC/CF0 conditions.	
5b	Area under backfilling of mined out area	2014-15-27.50 ha 2015-16 - 49.40 ha	2014-15-20.00 ha 2015-16 - 40.00 ha	Production of RoM was limited within the approved EC quantities. Therefore, proportionate area was backfilled.
5c	Concurrent use of topsoil for restoration or rehabilitation of mineral out area (Rule 32)	NA	NA	
5d	Total area fully reclaimed and rehabilitated	2014-15-23.9 ha 2015-16 - 45.2 ha	2014-15-20.00 ha 2015-16 - 30.00 ha	

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).	Except afforestation, other works are not proposed in the PMCP	Details submitted along with Annual Return	
6b	Area available for rehabilitation (ha) .	2015-16 i) Rehabilitation Area - 49.40 ha ii) Afforestation : 45.20 ha iii) No. of saplings : 45160 iv) Cumulative plants : 63470 v)--- vi) Cost for afforestation - Rs. 50.00 lakhs/year	2015-16 i) Rehabilitation Area - 49.00 ha ii) Afforestation : 30.00 ha iii) No. of saplings : 65914 iv) Cumulative plants : n 142534 v)--- vi) Cost for afforestation - Rs. 32.00 lakhs/year	Production of RoM was limited within the approved EC quantities. Therefore, proportionate area was back filled, reclaimed and rehabilitated.

6c	afforestation done (ha).	i) 53.70 ha ii) 49.40 ha iii) 45.20 ha iv) Nil v) Nil	i) 45.14 ha ii) 40 ha iii) 30.00 ha iv) - v) -	Production of RoM was limited within the approved EC quantities. Therefore, proportionate area was back filled, reclaimed and rehabilitated.
6d	No. of saplings planted during the year	NA	NA	
6e	Cumulative no .of plants	Air, water, noise, dust , soil monitoring shall be carried out regularly in the core and buffer zones through a MoEF / PCB approved laboratory.	Regular environment monitoring is done on the stipulated parameters through approved laboratory and reports are submitted regularly	
6f	Any other method of rehabilitation			
6g	Cost incurred on watch and care during the year			

Mineral Conservation:

Sl.No.	Item	Propasals	Actual work	Remarks
7a	ROM Mineral dispatch or grade-wise sorting within lease area	Mineral Production 2014-15-0.63 mt 2015-16 - 0.85 mt	Mineral Production 2014-15-0.33 mt 2015-16 - 0.34 mt	Production of RoM was limited within the approved Ec quantities due to delay in obtaining the statutory clearances.
7b	Method of grade-wise mineral sorting i.e. manual or mechanical.	Mechanical	Mechanical	
7c	Different grade of mineral sorted out at mines.	Garnet & Sillimanite + Others (Ilmenite, Rutile, Zircon)	Garnet & Sillimanite + Others (Ilmenite, Rutile, Zircon)	

7d	Any beneficiation process at mines .	Pre-Concentration Plants and Mineral Separation Plant.	Pre-Concentration Plants and Mineral Separation Plant.
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Environment:

Sl.No.	Item	Propasals	Actual work	Remarks
8a	Separate removal and utilization of topsoil (Rule 32)	NA	NA	
8b	Concurrent use or storage of topsoil	NA	NA	
8c	Separate dumps for overburden, waste rock, rejects and fines (Rule 33)	NA	NA	
8d	Use of overburden, waste rock, rejects and fines dumps for restoring the land to its original use	Tailings generated in the processing plants will be utilized for backfilling the mined out pits.	This is being implemented.	
8e	Phased restoration, reclamation and rehabilitation of lands affected by mining operations (Pits, dumps etc)	Mined out pits to be backfilled with tailings generated from the processing plants and afforested.	Mined out pits to be backfilled with tailings generated from the processing plants and afforested.	
8f	Baseline information on existence of plantation and additional plantation done (Rule 41)	Baseline information onn flora and fauna was collected as part of the detailed EIA studies conducted to obtain EC/CRZ clearances.	As committed in the approved scheme of mining and EC/CRZ clearances, plantation and all other protective works are carried out.	
8g	Survival rate	80%	80%	

8h	Water sprinkling on roads to control airborne dust	Regular sprinkling of water was proposed in the haul roads and in areas where dust was likely to be generated.	Regular sprinkling of water is being carried out and the dust liberation is minimized.
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Compliance of Rule 45:

Sl.No.	Item	Propasals	Actual work	Remarks
9a	Status of submission of Monthly and Annual returns	Submitted upto March 2016		
9b	Scrutiny of Annual return for information on Mining Engineer, Geologist and Manager	ME - Jose Mathew Geologist - E Chandrasekhar Manager - Jose Mathew		
9c	Scrutiny of Annual return on land use pattern for area under pits, reclaimed area, dumps etc.	Current O/c - 5.0 ha Cum reclaimed - 144.0 ha Under waste disposal - 13 ha		
9d	Scrutiny of Annual return on afforestation	Garnet con - 54580 MT of 68% & Silimanite con . - 60108 MT of 25%, Tailings - 1472829 MT & 15250 MT slime.		
9f	Scrutiny of Annual return on ROM stock and/or graded ore	1994656 MT RoM production, of which 1935923 is the feed to the PCP.		
9g	Scrutiny of Annual return on sale value, Ex. Mine price and production cost	Details provided in the A.R.		
9h	Scrutiny of Annual return on fixed assets	Details provided in the A.R.		

9k	Scrutiny of Annual return on mining machineries	Details provided in A.R.
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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
Rule 13(1)	25/04/2016				
Rule 23E(2)	25/04/2016				
Rule 45(7)(i)(a)	25/04/2016				

Date :
(D.DASH)

Indian Bureau of Mines