

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

**MCDR inspection REPORT
Hyderabad regional office**

Mine file No : AP/SRK/GARNET-1/HYD

Mine code : 26APR18001

- (i) Name of the Inspecting : **25**) **SHRI IBRAHIM SARIF**
Officer and ID No.
- (ii) Designation : Sr. Asst. Contrl. Mines
- (iii) Accompanying mine :
Official with
Designation
- (iv) Date of Inspection : 18/07/2017
- (v) Prev.inspection date : 01/10/2016

PART-I : GENERAL INFORMATION

1. (a) **Mine Name** : **TGI GARNET MINE**
- (b) **Registration NO.** :
- (c) **Category** : B Manual
- (d) **Type of Working** : Opencast
- (e) **Postal address**
- State : ANDHRA PRADESH
- District : SRIKAKULAM
- Village : MOFAZBANDRU, IPPILI
- Taluka : SRIKAKULAM
- Post office : SRIKAKULAM COLLECTORATE
- Pin Code : 532001
- FAX No. : 91-8942-228404
- E-mail :
- Phone : 91-8942-225771/72
- (f) **Police Station** :
- (g) **First opening date** : 23/05/2003
- (h) **Weekly day of rest** : SUN
2. **Address for correspondance** :
3. (a) **Lease Number** : APR2000
- (b) **Lease area** : 95.08
- (c) **Period of lease** : 30
- (d) **Date of Expiry** : 23/06/2032
4. **Mineral worked** : GARNET Main

5. Name and Address of the

Lessee : TRANSWORLD GARNET INDIA (P) LTD.
 RAMANIYAM ARCADE III
 FLOOR, E-28, II AVENUE,
 BESANT NAGAR CHENNAI
 CHENNAI CITY TAMIL NADU
 Phone:
 FAX :

Owner : M/S.TRANSWORLD GARNET INDIA PVT LTD
 SRIKAKULAM ANDHRA
 PRADESH
 Phone:
 FAX :

6. Date of approval of Mining	:	Modif.of approved Mining Plan	14/09/2005
Plan/Scheme of Mining		Mining Scheme rule 12 MCDR1988	11/12/2014
		MP review under 17(1) MCR 2016	31/03/2017

PART - II : OBSERVATION/COMMENTS OF INSPECTING OFFICERS

Exploration :

Sl.No.	Item	Proposals	Actual work	Remarks
1a	Backlog of previous year	10	NIL	
1b	Exploration over lease area for geological axis 1 or 2	11 BORE HOLES	21 Bore holes	
1c	Exploration Agencies and Expenditure in lakh rupees during the year	Lessee, No proposal of expenditure is furnished	Lessee, Total expenditure so far around Rs. 10 Lakhs	
1d	Balance area to be explored to bring Geological axis in 1 or 2	5.24 Ha (2017-18 to 2019-20)	Not yet started	
1e	Balance reserve as on 01/04/20	(111) 522962 MT, (122) 608003 MT	(111)-519962 MT, (122)-608003 MT	

Development :

Sl.No.	Item	Proposals	Actual work	Remarks
2a	Location of development w.r.t.lease area	South western part of lease area	South Western part of lease area	
2b	Separate benches in topsoil, overburden and minerals (Rule 15)	Not applicable	No top soil bench, however bushes will be removed seperately before starting of actual mining operation. No seperate waste & mineral bench, as the entire sand is ROM	
2c	Stripping ratio or ore to OB ratio	1:7.33	1 :0.9	
2d	Quantity of topsoil generation in m3	Nil	Nil	
2f	General remarks of inspecting officers on development of pit w.r.t. type of deposit etc		Develpment is on lowerside due less mining activity	

Exploitation:

Sl.No.	Item	Propasals	Actual work	Remarks
3a	Number of pit proposed for production	One	One	
3b	Quantity of ROM mineral production proposed	737800 MT	238791 MT	
3c	Recovery of sailable/usable mineral from ROM production	GARNET- 58133	GARNET-19623	
3d	Quantity of mineral reject generation	Heaver minerals other than the Garnet are produced after wet processing, 73133 MT	32841	
3e	Grade of mineral rejects generation and threshold value declared.	Not specified	Not applicable	
3f	Quantity of sub grade mineral generation.	No generation of sub grade proposed	Nil	
3g	Grade of sub grade mineral generation	No specification proposed	Nil	
3i	Any analysis or beneficiation study proposed and carried out for sub grade mineral and rejects.	No proposal	Not applicable	
3j	Provision of drilling and blasting in mineral benches	Not applicable	Not applicable	
3k	Provision of mining machineries in mineral benches	Back Hoe, 1.1 CUM, Front End Loader- 3.0 Cum, Tipper- 6.0 Cum	Back Hoe, 1.1 CUM, Front End Loader- 3.0 Cum, Tipper- 6.0 Cum	
3l	Whether height of benches in overburden and mineral suitable for method of mining proposed in MP/SOM	1.5 mtrs	1.5 mtrs	

3m	Total area covered under excavation/pits	7.46	7.46
3n	Ore to OB ratio for the pit/mine during the year.	1 : 0.67	1 : 0.15
3o	Total area put in use under different heads at the end of year	Area under Mining: 7.46, Infrastructure : 0.1, Roads: 0.5.	Area under Mining: 7.46, Infrastructure: 0.1, Roads: 0.5.
3p	Production of ROM mineral during the last five year period as applicable	2014-15: 187488, 2015-16 : 1093680, 2016-17: 737800	2014-15: 147689, 2015-16 : 341865, 2016-17: 123733

Solid Waste Management - Dumping:

Sl.No.	Item	Propasals	Actual work	Remarks
4a	Separate dumping of topsoil, OB and mineral rejects (Rule 32,33)	Seperate dumping of Mineral reject like heavier minerals other than Garnet to be stored in the earmarked area.	Seperate stack was maintained.	
4b	Location of topsoil, OB and mineral reject dumps	Near Wet processing plant out side lease area	Near Wet processing plant out side lease area	
4c	Number of dumps within lease area and outside of lease area	Nil	Nil	
4d	Location of dumps w.r.t. ultimate pit limit (Rule 16)	No external dump proposed	No, all the waste material is being backfilled in excavated pit after exploitation of ore	
4e	Number of active and alive dumps.	NA	NA	
4f	Number of dead dumps.	Nil	Nil	
4h	Whether Retaining wall or garland drain all along dumps are there.	Not required	Not required	
4j	Number of settling ponds	Nil	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 excavation of ore, backfilling will commence	After complete excavation of ore, backfilling will commence	
5b	Area under backfilling of mined out area	13.01	0.71	Due to less production
5c	Concurrent use of topsoil for restoration or rehabilitation of mineral out area (Rule 32)	Nil	Nil	
5d	Total area fully reclaimed and rehabilitated	No proposal	No area so far is fully reclaimed and rehabilitated	

Progressive Mine Clousre Plan:

Sl.No.	Item	Propasals	Actual work	Remarks
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Mineral Conservation:

Sl.No.	Item	Propasals	Actual work	Remarks
7a	ROM Mineral dispatch or grade-wise sorting within lease area	No proposal of dispatch, however it is understood that the ROM generated is considered as dispatched i.e.727800 MT	123733 MT	
7b	Method of grade-wise mineral sorting i.e. manual or mechanical.	No sorting at mine head	NA	
7c	Different grade of mineral sorted out at mines.	No such proposal	NA	

7d	Any beneficiation process at mines .	no beneficiation process within lease	no beneficiation process within lease
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Environment:

Sl.No.	Item	Propasals	Actual work	Remarks
8a	Separate removal and utilization of topsoil (Rule 32)	No such top soil is occur as this is sand mines	NA	
8b	Concurrent use or storage of topsoil	NA	NA	
8c	Separate dumps for overburden, waste rock, rejects and fines (Rule 33)	No such proposals	NA	
8d	Use of overburden, waste rock, rejects and fines dumps for restoring the land to its original use	Yes, after processing the silica sand generated in wet processing has to be used for backfilling of mined out area	The same is in practice	
8e	Phased restoration, reclamation and rehabilitation of lands affected by mining operations (Pits, dumps etc)	Phased reclamation by backfilling of silica sand in mined out areas and restoration by plantation of sapplings.	The above is in practice for restoration and reclamation	
8f	Baseline information on existence of plantation and additional plantation done (Rule 41)	No such plantation as per the base line data, further plantation of 9200 sappling was proposed	10500 sappling were planted	
8g	Survival rate	80%	60%	

8h	Water sprinkling on roads to control airborne dust	Water sprinkling for dust suppression on haul road is to be done	The above proposal is in practice.
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Compliance of Rule 45:

Sl.No.	Item	Propasals	Actual work	Remarks
9a	Status of submission of Monthly and Annual returns	Monthly & Annual returns is to be submitted regularly	Monthly returns is being submitted regularly, but non submission of annual returns within time frame violation was pointed out	
9b	Scrutiny of Annual return for information on Mining Engineer, Geologist and Manager	Mining Engineer : Mr Shaikh M Basha, Gologist : Mr Suresh	Mining Engineer : Mr Shaikh M Basha, Gologist : Mr Suresh	
9c	Scrutiny of Annual return on land use pattern for area under pits, reclaimed area, dumps etc.	Area abandoned by open cast : 5.02 Ha, Area under Open cast minng: 1.80 Ha, Reclaimed: 0.72 Ha, work done under progressive mine closure plan: 1.82 Ha	Area abandoned by open cast : 5.02 Ha, Area under Open cast minng: 1.80 Ha, Reclaimed: 0.72 Ha, work done under progressive mine closure plan: 1.82 Ha	
9d	Scrutiny of Annual return on afforestation	10500	10500	
9e	Scrutiny of Annual return on mineral reject generation (Grade and quantity)	32841	32841	
9f	Scrutiny of Annual return on ROM stock and/or graded ore	121974 MT, No grade	121974 MT, No grade	
9g	Scrutiny of Annual return on sale value, Ex. Mine price and production cost	Ex mine price (Rs.) 9853, Cost of Production (Rs) : 6772	Ex mine price (Rs.) 9853, Cost of Production (Rs) : 6772 (as reported)	

9h	Scrutiny of Annual return on fixed assets	Rs. 451663356	Rs. 451663356
9k	Scrutiny of Annual return on mining machineries	Back Hoe- 1.1 cum, Front end loader: 3.0 Cum, tipper-14 no.	Back Hoe- 1.1 cum, Front end loader: 3.0 Cum, tipper-14 no.

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 45(5)(b)	12/09/2017	28/10/2017			
MCDR17 Rule 14(2)	13/11/2017				
Rule 45(7)	13/11/2017				

Date :
(SHRI IBRAHIM SARIF)

Indian Bureau of Mines