

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

**MCDR inspection REPORT**

**Hyderabad regional office**

**Mine file No :** AP/VZNR/MN-105/HYD

**Mine code :** 40APR20050

- (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 : 17/07/2017
- (v) Prev.inspection date : 25/01/2017

**PART-I : GENERAL INFORMATION**

1. (a) **Mine Name** : **GARBHAM**
- (b) **Registration NO.** :
- (c) Category : A Mechanised
- (d) Type of Working : Opencast
- (e) Postal address :  
State : **ANDHRA PRADESH**  
District : **VIZIANAGARAM**  
Village : **GARBHAM**  
Taluka : **MEREKAMUDIDAM**  
Post office : **GARBHAM**  
Pin Code :  
FAX No. :  
E-mail :  
Phone :
- (f) Police Station :
- (g) First opening date : 20/09/1995
- (h) Weekly day of rest : SUN
2. Address for :  
correspondance :
3. (a) Lease Number : **APR0247**
- (b) Lease area : **264.64**
- (c) Period of lease : **20**
- (d) Date of Expiry : **07/10/2022**
4. Mineral worked : **MANGANESE ORE** Main

## 5. Name and Address of the

Lessee : RASHTRIYA ISPAT NIGAM LTD.  
VISAKHAPATNAM STEEL PLANT  
VISAKHAPATNAM  
VISAKHAPATNAM ANDHRA  
PRADESH  
Phone:0891-  
FAX :0891-

6. Date of approval of Mining	:	Renewal under rule 22 MCR1960	21/10/2003
Plan/Scheme of Mining		Mining Scheme rule 12 MCDR1988	15/07/2008
		Mining Scheme rule 12 MCDR1988	02/12/2013
		Mining Scheme rule 12 MCDR1988	02/12/2013

## PART - II : OBSERVATION/COMMENTS OF INSPECTING OFFICERS

## Exploration :

Sl.No.	Item	Proposals	Actual work	Remarks
1a	Backlog of previous year	20 boreholes of 50 m each are proposed for G2 during the year 2015-16,16-17	None	
1e	Balance reserve as on 01/04/20		527078.89 T ( G1 Axis)	

## Development :

Sl.No.	Item	Proposals	Actual work	Remarks
2a	Location of development w.r.t.lease area	Central Garbham	Central Garbham	
2b	Separate benches in topsoil, overburden and minerals (Rule 15)	Not applicable	Not applicable	
2c	Stripping ratio or ore to OB ratio	Nil	Nil	
2d	Quantity of topsoil generation in m3	Not Applicable	Not Applicable	

## Exploitation:

Sl.No.	Item	Proposals	Actual work	Remarks
3a	Number of pit proposed for production	One	One	
3b	Quantity of ROM mineral production proposed	15000 MT	4004 MT	
3c	Recovery of sailable/usable mineral from ROM production	100%	100%	
3d	Quantity of mineral reject generation	Nil	Nil	

3e	Grade of mineral rejects generation and threshold value declared.	Not Applicable	Not Applicable	
3f	Quantity of sub grade mineral generation.	Nil	Nil	
3g	Grade of sub grade mineral generation	Not applicable	Not Applicable	
3h	Manual / Mechanised method adopted for segregating from ROM	NA	NA	
3i	Any analysis or beneficiation study proposed and carried out for sub grade mineral and rejects.	Nil	Nil	
3j	Provision of drilling and blasting in mineral benches	Not applicable	Not applicable	Wump working
3k	Provision of mining machineries in mineral benches	Yes, 1.1 cum capacity excavators, 35 Tonne dumpers	Yes, 1.1 cum capacity excavators, 35 Tonne dumpers	
3l	Whether height of benches in overburden and mineral suitable for method of mining proposed in MP/SOM	4 mtrs	4 mtrs	
3m	Total area covered under excavation/pits	11.84 HA	11.84 HA	
3n	Ore to OB ratio for the pit/mine during the year.	0.4 cum/Tonne	Nil	

3o	Total area put in use under different heads at the end of year	Area for excavation: 11.84 Ha, Storage of top soil : 5.0 Ha, Overburden dump: 10.00 Ha, Mineral storage: 5.0 Ha, Infrsaturcture : 1.0 Ha, Road: 2.0 Ha, Green belt: 6.33 Ha, Others: 5.0 Ha- Total: 46.22 Ha	Area for excavation: 11.84 Ha, Storage of top soil : 5.0 Ha, Overburden dump: 10.00 Ha, Mineral storage: 5.0 Ha, Infrsaturcture: 1.0 Ha, Road: 2.0 Ha, Green belt: 6.33 Ha, Others: 5.0 Ha- Total: 46.22 Ha.
3p	Production of ROM mineral during the last five year period as applicable	2012-13-- 15,000 t, 2013-14-- 15,000 t, 2014-15-- 15,000 t, 2015-16-- 15,000 t, 2016-17-- 15,000 t,	2012-13--12,521 t, 2013-14--13,550 t, 2014-15--16,223 t, 2015-16--12,245 t, 2016-17--4,004 t,

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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)	Yes	Nil	No waste generated
4b	Location of topsoil, OB and mineral reject dumps	YES, North East pert of lease area	Nil	No waste genrated
4c	Number of dumps within lease area and outside of lease area	One dump within the lease area	One dump within the lease area	
4d	Location of dumps w.r.t. ultimate pit limit (Rule 16)	Outside UPL	Outside UPL	

4e	Number of active and alive dumps.	One, waste dump rehandling activity is being practised for recovery of ore	One, waste dump rehandling activity is being practised for recovery of ore	
4f	Number of dead dumps.	Nil	Nil	
4g	Number of dumps established.	One	One	
4h	Whether Retaining wall or garland drain all along dumps are there.	Yes	Yes	
4i	Length of Retaining wall or garland drain all along dumps	100 mtrs	100 mtrs	Old retaining wall, well maintained
4j	Number of settling ponds	One	One	
4k	Specific comments of inspecting officer on waste dump management			NO Deviation observed

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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.	No area in the lease available for backfilling as no full extraction of ore was done so far.	Nil	
5b	Area under backfilling of mined out area	Not applicable	Not applicable	
5c	Concurrent use of topsoil for restoration or rehabilitation of mineral out area (Rule 32)	No top soil generation	Not applicable	
5d	Total area fully reclaimed and rehabilitated	No area is reclaimed and rehabilitated so far	No area is reclaimed and rehabilitated so far	

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## 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).	Yes	Yes	
6b	Area available for rehabilitation (ha) .	Nil	Nil	
6c	afforestation done (ha).	6.08 Ha	6.08 Ha so far	
6e	Cumulative no .of plants	4000	10000	
6f	Any other method of rehabilitation	No	No	
6g	Cost incurred on watch and care during the year	Nil	Rs. 15000	

## Mineral Conservation:

Sl.No.	Item	Propasals	Actual work	Remarks
7a	ROM Mineral dispatch or grade-wise sorting within lease area	Yes	Yes	
7b	Method of grade-wise mineral sorting i.e. manual or mechanical.	Manual	Manual	
7c	Different grade of mineral sorted out at mines.	Yes,	Yes,	
7d	Any beneficiation process at mines	Gravity seperation	Gravity seperation	

## Environment:

Sl.No.	Item	Propasals	Actual work	Remarks
8a	Separate removal and utilization of topsoil (Rule 32)	Yes	No, No top soil generated during the year	

8b	Concurrent use or storage of topsoil	Yes	Nil, No top soil generated
8d	Use of overburden, waste rock, rejects and fines dumps for restoring the land to its original use	No, no backfilling proposed	Nil
8e	Phased restoration, reclamation and rehabilitation of lands affected by mining operations (Pits, dumps etc)	Nil	nil
8f	Baseline information on existence of plantation and additional plantation done (Rule 41)	Yes	Yes
8g	Survival rate	95%	90%
8h	Water sprinkling on roads to control airborne dust	Yes	Yes, bu water tanker on mine roads

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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 and anually returns has to be submitted regularly	Party is submitted Monthle as well as annual returns regularly	
9b	Scrutiny of Annual return for information on Mining Engineer, Geologist and Manager	G V Subbarao, Mining Engineer P Rama Krishna, Geologist	G v Subba Rao, , Mining Engineer P Rama KRishna, GEologist	

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9c	Scrutiny of Annual return on land use pattern for area under pits, reclaimed area, dumps etc.	Area for excavation: 11.84 Ha, Storage of top soil : 5.0 Ha, Overburden dump: 10.00 Ha, Mineral storage: 5.0 Ha, Infrsaturcture : 1.0 Ha, Road: 2.0 Ha, Green belt: 6.33 Ha, Others: 5.0 Ha- Total: 46.22 Ha	Area for excavation: 11.84 Ha, Storage of top soil : 5.0 Ha, Overburden dump: 10.00 Ha, Mineral storage: 5.0 Ha, Infrsaturcture: 1.0 Ha, Road: 2.0 Ha, Green belt: 6.33 Ha, Others: 5.0 Ha- Total: 46.22 Ha
9d	Scrutiny of Annual return on afforestation	150 within lease area	150 within lease area
9e	Scrutiny of Annual return on mineral reject generation (Grade and quantity)	Nil	Nil
9f	Scrutiny of Annual return on ROM stock and/or graded ore	Nil	Nil
9g	Scrutiny of Annual return on sale value, Ex. Mine price and production cost	Rs. 6768/ Tonne	Rs. 6768/ Tonne
9h	Scrutiny of Annual return on fixed assets	(in Rs. ) 11257805	Not verified.
9k	Scrutiny of Annual return on mining machineries	Back Hoe- 1.0 cum, Dumper: 12 cum, Dozer, Water tanker	Back Hoe- 1.0 cum, Dumper: 12 cum, Dozer, Water tanker

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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
MCDR17	Rule 11(1)	22/09/2017			
MCDR17	Rule 55(1)(3)	22/09/2017			
MCDR17	Rule 11(1)	22/09/2017			
MCDR17	Rule 55(1)(3)	22/09/2017			

**Date :**

(SHRI IBRAHIM SARIF)

Indian Bureau of Mines