INDIAN BUREAU OF MINES MINERALS DEVELOPMENT AND REGULATION DIVISION

MCDR INSPECTION REPORT

Bhubaneshwar regional office

Mine file No : ORI/IRON-MN/SNG/MCDR-13/BBS Mine code : 300RI13036

(i) Name of the Inspecting: M007) SHRI HARKESH MEENA

Officer and ID No.

(ii) Designation : Regional Controller Mines

(iii) Accompaning mine : Shri D Patel, Mines Manger and Shri S C Mohanty, Geol

Official with Designation

(iv) Date of Inspection : 09/07/2017
(v) Prev.inspection date : 24/04/2015

PART-I : GENERAL INFORMATION

1. (a) Mine Name : NARAYANPOSHI

(b) Registration NO. : IBM/5865/2011

(c) Category : A Other than Fully Mech.

(d) Type of Working : Opencast

(e) Postal address

State : ORISSA

District : SUNDARGARH
Village : NARAYANPOSHI

Taluka : BARBIL
Post office : KOIRA

Pin Code

FAX No. : 03322364602

E-mail : contact@aryannmining.in

Phone : 03322364601

(f) Police Station : KOIRA

(g) First opening date : 03/02/1945

(h) Weekly day of rest : SAT

2. Address for : NARAYANPOSI IRON MINE OF A.M.TC.

correspondance AT/PO-KOIRA

DIST-SUNDERGARH

3. (a) Lease Number : ORIO124
(b) Lease area : 349.25
(c) Period of lease : 20

(d) Date of Expiry : 01/02/2005

4. Mineral worked : MANGANESE ORE Associated

IRON ORE Main

5. Name and Address of the

Lessee : M/S A.M.T.C.(P) Ltd.

61,Strand Road KOLKATA

WEST BENGAL

Phone: FAX:

Owner : PRADEEP KUMAR SARAF

M/S AMTC LTD KOLKATA, WEST BENGAL SUNDARGARH ORISSA

Phone: 033 - 2395661

FAX :

Mining Engineer

Name : D.PATEL,Full Time Qualification : DEGREE IN MINING

Appointment/ : 16/08/2013

Termination date

Geologist

Name : S. C. MOHANTY, Full Time

Qualification : MSC GEOLOGY Appointment/ : 16/03/2009

Termination date

Manager

Name : D.PATEL

Qualification : DEGREE IN MINING

Appointment/ : 10/10/2007

Termination date

6. Date of approval of Mining Plan/Scheme of Mining

: Modif.approved Mining Scheme 06/01/2004 Renewal under rule 22 MCR1960 20/05/2004 Modif.of approved Mining Plan 23/09/2008 Modif.of approved Mining Plan 10/07/2009 Mining Scheme rule 12 MCDR1988 29/04/2010 Modif.approved Mining Scheme 25/10/2011 Mining Scheme rule 12 MCDR1988 27/03/2015 Modif.approved Mining Scheme 02/06/2016

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PART - II : OBSERVATION/COMMENTS OF INSPECTING OFFICERS

Exploration :

Sl.No.	Item	Proposals	Actual work	Remarks
la	Backlog of previous year	Nos. of bore holes proposed for drilling in 2016-17 was 14 nos.	All the 14 nos. of boreholes have been drilled by lesse during 2016-17.	
1b	Exploration over lease area for geological axis 1 or 2		Exploration under G1 limit of UNFC is over 275.167 Ha Exploration under G2 limit of UNFC is over 74.087 Ha Total area explored under G1 & G2 limit of Exploration is 349.254 Ha	Entire Mining lease area over 349.254 ha has been explored under G1 & G2 limit of UNFC
1c	Exploration Agencies and Expenditure in lakh rupees during the year	Not Proposed	In 2016-17, Exploration Agency-Orewin Engineers Pvt. Ltd., Rs 72.79 Lakhs expenditure incurred.	
1d	Balance area to be explored to bring Geological axis in 1 or 2		Nil	Entire lease area of 349.254 Ha has been explored under G1 & G2 limit of UNFC.
1e	Balance reserve as on 01/04/20		Reserve & Resource as or 01.04.2017 is (A). Iron Ore-Proved Mineral Reserve (111): 21210927 MT Probable Mineral Reserve (122): 160797984 MT (B). Mn Ore-Probable Mineral Reserve (122): 530962 MT	Resources is 12840144 MT Reamining Managanese

1f General remarks of inspecting officers on geology, exploration etc

There is no backlog of exploration as per proposal in scheme of mining. The entire lease area over 349.254 Ha has been explored under G1 & G2 limit of UNFC.

Development :

Sl.No. Item Propasals Actual work Remarks

2a	Location of development w.r.t.lease area	proposed for Iron ore in Quarry Q-3,Q-	Actual development work for Iron ore carried out in Q-3 & Q-4 quarry and for Manganese in Q-5 Quarry
			Details as on-1.4.2017
			Q-3: B-1- 595-590
		Q-3: B-1- 589-	
		585 mRL	B-3-581-572
		B-2-	B-4-572-565
		585-576 mRL	B-5-565-556
		B-3-	B-6-556-550
		576-567 mRL	Q-4: B-1- 599-592
		B-4-	B-2-592-588
		567-558 mRL	B-3-588-579
		B-5-	B-4-579-570
		558-549 mRL	B-5-570-561
		Q-4: B-1- 599-	B-6-561-552
			Q-RF: No
			Development
			Q-5Mn:
			B-1: 559-553
		585-576 mRL	
			B-3:549-546
		576-567 mRL	B-4:546-542
		B-5-	
		567-558 mRL B-6-	
		558-549 mRL	
		0-RF: B-1-	
		630-621 mRL	
		B-	
		2-621-612 mRL	
		B-	
		3-612-603 mRL	
		Q-5Mn:	
		B-1: 558-552	

B-2:552-546 B-3: 546-540

During inspection it has been observed that the benches in Quarry 3 have not been developed as per development plan for the year 2017-18. Bench1: 590mRL to 583mRL, Bench2: 583mRL to 565mRL, Bench3: 565mRL to 549mRL Bench Geometry of 9m height and 12mwidth has not been maintained in Quarry 3. The shortcomings have been pointed out to lessee by violation letter dated 26.07.2017.

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Separate benches Iron Quarry- 6 Iron Quarry-
2b
                       benches in
                                      6 no benches in ore
     in topsoil,
     overburden and
                                      Q-3: B-1- Ore & OB
                       ore-
     minerals (Rule
                       Details area
                                               B-2- Ore
     15)
                       as folows.
                                                B-3- Ore
                       Q-3: B-1- Ore
                                               B-4- Ore
                       & OB
                                                B-5- Ore
                                B-2-
                                                B-6-Ore
                       Ore
                                      Q-4: B-1- Ore & OB
                                B-3-
                                                B-2- Ore
                                                B-3- Ore
                       Ore
                                                B-4- Ore
                                B-4-
                                                B-5- Ore
                       Ore
                                B-5-
                                                B-6- Ore
                       Ore
                       Q-4: B-1- Ore
                       & OB
                                      Mn Quarry- 1bench in OB
                       Ore
                                      & 3 benches in Ore
                                B-3-
                                      Q-5Mn: B-1- OB
                       Ore
                                B-4-
                                                      B-2-Ore
                       Ore
                                                      B-3-Ore
                                B-5-
                                                      B-4-Ore
                       Ore
                                B-6-
                       Ore
                       Q-RF: B-1- OB
                                  B-
                       2-Ore
                                  B-
                       3-0re
                       Mn Quarry-
                       1bench in OB &
                       3 benches in
                       Ore-
                       Q-5Mn: B-1- OB
                       B-2-Ore
                       B-3-Ore
     Stripping ratio
                      1:0.196 for
                                      1 : 0.268 for Iron ore
2c
     or ore to OB
                                      1: 22.53 for Mn ore
                       Iron Ore
     ratio
                       1:12.813 for
                       Mn ore
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2d Quantity of Removal-2250m³ Removed-294m3 Cumulative Qty: topsoil Utilized -294 m³ Generated- 2159.60 generation in m3 m³ Utilized-801 m³ Balance- 1358.60 m³ 2e Quantity of 588886 m³ at 402277.26 m³ at Iron ore Iron ore Zone zone & overburden generation in m3 & 209595 m³ at 39493.19 m³ at Mn Ore Mn ore zone Zone 2f General remarks Iron ore of inspecting excavation has officers on been carried out development of from three pits. pit w.r.t. type Q-RF for iron ore of deposit etc was not developed as per the proposal for 2016-17. During inspection it has been observed that the benches in Quarry 3 have not been developed as per development plan for the year 2017-18.Bench1: 590mRL to 583mRL, Bench2: 583mRL to 565mRL;Bench3: 565mRL to 549mRL.

Exploitation:

Sl.No.	Item	Propasals	Actual work	Remarks
3a	Number of pit proposed for production	Total Pit proposed for production was 04. For Iron Ore 03 pits (namely Q-3, Q-4 & RF Block) and Managanese ore Q5 quarry	Actual No of Pit put for production was 04. For Iron Ore 02 pits (namely Q-3, Q-4) and Managanese ore Q5 quarry	Excavation for Iron ore has been carried out from three pits. RF-Block has not been developed as per the proposal for the year 2016-17

3b	Quantity of ROM mineral production proposed	Proposal for 2016-17:- 6000564 MT- Iron ore 35986.72MT - Mn ore	Actual Production in 2016-17 is: 2995326.70MT- Iron ore 3856.346 MT - Mn ore	Production restricted within 3 Million Ton in accordance with EC limit (3.0 MTPA for Iron ore and 0.036MTPA for Manganese ore).
3с	Recovery of sailable/usable mineral from ROM production	Iron ore: 76% & 90% for Manganese Ore	Iron ore: 94% & 100% for Manganese Ore	
3d	Quantity of mineral reject generation		Actual generation of mineral reject in 2016- 17 is :Iron- 188956.52 MT & Mn-Nil	The ore stack area of fines has extended beyond the approved limit in Quarry-3 as per development plan for 2017-18. The shortcomings have been pointed out to lessee by violation letter dated 26.07.2017.
3e	Grade of mineral rejects generation and threshold value declared.	>45% Fe & < 58%Fe >10% Mn & < 20%Mn	Iron-55% Fe to 57.99 % Fe	
3f	Quantity of sub grade mineral generation.		Quantity of sub grade mineral generated in 2016-17 in iron ore fines between 55% Fe to below58% Fe is 188956.52 MT.	The ore stack area of fines has extended beyond the approved limit in Quarry-3 as per development plan for 2017-18. The shortcomings have been pointed out to lessee by violation letter dated 26.07.2017.

Grade of sub Mn Ore: Mn% :+ Mn Ore: Nil Sub-grade mineral 3q grade mineral 10 -20 Iron Ore: + 55 -57.99 % blended and generation Iron Ore: Fe% Fe despatched. The **:**+ 45 -57.99 subgrade or mineral reject stack register along with grade is not maintained properly and not made available during inspection. 3h Manual / For Iron Ore- For Iron Ore-Mechanised Crushing, Crushing, Screening & method adopted Screening & Manual breaking, sorting for segregating Manual & sizing from ROM Breaking, For Mn Ore-Manual sorting & Breaking, sorting & sizing sizing For Mn Ore-Manual Breaking, sorting & sizing 3i Any analysis or It has been Beneficiation plant is Beneficiation beneficiation proposed to yet to be installed. plant is yet to study proposed establish a be installed. and carried out beneficiation for sub grade plant of 2.0 mineral and MTPA capacity rejects. during the financial year 2017-18 to upgrade the iron ore and teh beneficiation plant shall be operation in 2017-18. 115mm dia DTH 115mm dia DTH drill will 3 ј Provision of drill will be be utilized for drilling drilling and blasting in utilized for with burden 3m & spacing mineral benches drilling with 3.5m burden 3m &

spacing 3.5m

3k	Provision of mining machineries in mineral benches	be practised	and dumper combination at benches.	
31	Whether height of benches in overburden and mineral suitable for method of mining proposed in MP/SOM	For Iron-Bench Height- 9m Q-3: B-1- 589- 585- 585-576 B-3- 576-567 B-4- 567-558 B-5- 558-549 Q-4: B-1- 599- 594	B-2-590-581 B-3-581-572 B-4-572-565 B-5-565-556 B-6-556-550 Q-4: B-1- 599-592 B-2-592-588 B-3-588-579 B-4-579-570 B-5-570-561 B-6-561-552 Q-RF: No Development For Mn-	As noticed on the date of inspection, the proposal given in the SOM has not been implemented properly in the mine. Details as on (01.04.2017) Q-3: B-1- 590-583
3m	Total area covered under excavation/pits	65.012Ha (up to end of scheme period)	44.035 Ha (upto 31.03.2017)	
3n	Ore to OB ratio for the pit/mine during the year.		1: 0.268 for Iron ore 1: 22.53 for Mn ore	

191.907 Ha. up 143.345Ha up to 30 Total area put in use under to end of 31.03.2017 different heads scheme period Mining 44.035 ha at the end of Mining 65.012 Mineral storage 21.753 year На ha Mineral Mineral Beneficiation storage 31.66 plant 7.50 ha Roads 15.72 ha Mineral Infrastructure Beneficiation (Workshop, plant 11.88 ha administrative building Roads 16.12 ha etc.) 5.00 ha Infrastructure OB/waste dump 4.725 ha Top soil preservation (Workshop, administrative 0.16 ha building etc.) Others 44.452 ha Total area used 143.345 7.50 ha OB/waste dump ha 7.405 ha Top soil preservation 0.73 ha Others 51.60 Total area put to use 191.907 ha

Production of 3р Iron ore-Iron ore-ROM mineral FY-2015-16-FY-2015-16- 2997270.46MT during the last 5035696MT FY-2014-15-833472.667MT five year period FY-2014-15-FY 2013-14: 3969330MT as applicable 2792970.963MT FY 2013-14: FY 2012-13: 1146433.305MT 3969330MT FY 2012-13: FY 2011-12: 2419543MT Mn ore-5670133MT FY 2011-12: FY 2015-16-Nil 5188904MT FY-2014-15- Nil Mn ore-FY 2013-14: 1831.92MT FY 2015-16-FY 2012-13: 1140.092MT 10373MT FY 2011-12: 2881.561MT FY-2014-15-39621MT FY 2013-14: 13663MT FY 2012-13: 33119MT FY 2011-12: 26426MT

3q General remarks
 of inspecting
 officers on
 method of mining
 etc.

Total nos. of pits put production is 3 Nos except RF Block. Production of Iron and Manganese ore is within the EC limit. Area for excavation is within the approved limt as per proposal. However, during inspection it has been observed that the benches in Quarry 3 have not been developed as per development plan for the year 2017-18. Bench1: 590mRL to 583mRL Bench2: 583mRL to 565mRL, Bench3: 565mRL to 549mRL. Bench Geometry of 9m height and 12mwidth has not been maintained in Quarry 3.

Solid Waste Management - Dumping:

Sl.No.	Item	Propasals	Actual work	Remarks
4a		OB and mineral	The topsoil, OB and mineral rejects have been dumped separately.	

4b	Location of topsoil, OB and mineral reject dumps	extended towards NW at 15m average height. E/W- 1101-1296, N/S-5362-5535.	Topsoil- has been stacked in the earmarked area as per approved SOM. Dump-1(Iron Section) has been extended laterally towards NW at a height of 15m. E/W-1100-1295, N/S-5368-5513 Dump-2(Mn section) One more terracing has been done over Dump-2 at a height of 10m. E/W-18-239, N/S-3750-3928 Dump-3- No Development	(a). Dump-3 has not been created as proposed. (b).The ore stack area of fines has extended beyond the approved limit in Quarry-3 as per development plan for 2017-18
4c	Number of dumps within lease area and outside of lease area	03- within lease area	02 dumps (Dump-1 & Dump-2) are located within the lease area.	Dump-3 has not been created as proposed.
4d	Location of dumps w.r.t. ultimate pit limit (Rule 16)	Dumps are proposed to be outside the UPL.	Dumps developed are outside the UPL in accordance with the approved SOM.	
4e	Number of active and alive dumps.		02 nos Dump-1: E-1100-1295, N- 5368-5513 Dump-2: E-18-239, N- 3750-3928	Dump-3 has not been created as proposed.
4f	Number of dead dumps.	Not proposed	NIL	

Number of dumps Not Proposed 4g established.

Part of OB dump-1 covering an area over 0.513 Ha is stabilized by grass pitching & plantation. Part of OB dump-2 covering an area over 0.652 Ha is stabilized by way of coir matting and grass patching.

4h Whether Retaining wall are there.

and garland around the dumps

Retaining wall Retaining wall and garland drains have been or garland drain drains are to constructed around the all along dumps be constructed dumps. Wash offs are channelized through settling ponds and check dams.

4 i Length of Retaining wall or garland drain the dump-1, all along dumps

wall around wall around

240m Retaining 280m Retaining wall and 266m garland drains around the dump-land 230m Retaining 110m retaining wall around top soil stack the dump-3 and has been constructed.

250m garland drains are to be constructed around the dump-1 & 300m garland drains around the dump-1.

4ј Number of settling ponds

04 nos of settling ponds 01 no of settling ponds have been constructed.

around new dump-3

4k Specific comments of inspecting officer on waste dump management

There are separate OB and MR dumps. All dumps are outside the UPL. Protective measures such as retaining wall and garland drain are there all along the dumps. Part of OB dump-1 covering an area over 0.513 Ha is stabilized by grass pitching & plantation. Part of OB dump-2 covering an area over 0.652 Ha is stabilized by way of coir matting and grass patching. Waste dump management has been done as per proposal.

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.	be done in the exhausted part	Backfilling has been done in the exhausted part of Quarry-3.	
5b	Area under backfilling of mined out area	3.82На	3.64На	Backfilling has been carried out at exhausted part of Q-3. The ongoing backfilling in Quarry-3 has extended beyond the approved limit as per the development plan for 2017-18

5c	Concurrent use of topsoil for restoration or rehabilitation of mineral out area (Rule 32)	Not Proposed	Not Applicable	
5d	Total area fully reclaimed and rehabilitated	Not Proposed	Not Applicable	
5e	General remarks of inspecting officers on backfilling and reclamation etc.			Backfilling has been carried out at exhausted part of Q-3.

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 under Rule 23(2) has been submitted.	
бb	Area available for rehabilitation (ha) .	3.82Ha of Q-3 will be back filling in FY-2016-17	3.64Ha of Q-3 has been back filled in the FY- 2016-17	
6с	afforestation done (ha).	1.20 Ha area	About 4.00 Ha.	
6d	No. of saplings planted during the year		22242nos saplings planted inside lease area and 200 nos sapling planted outside lease area	A cumulative of 147301 nos of sapling have been planted inside the lease and 63729 nos of sapling planted outside the lease area.
6e	Cumulative no .of plants		Cummulative nos. of saplings planted within mining lease area is 147301 nos.	
6f	Any other method of rehabilitation	Not proposed	Not Applicable	

6g	Cost incurred on watch and care during the year	Not proposed	1.44 Lakhs
6h	Compliance on reclamation and rehabilitation by backfilling (i) Voids available for backfilling (Lx B x D	will be back filling in FY-	3.64Ha of Q-3 has been back filled in the FY-2016-17
6i	Compliance on reclamation and rehabilitation by backfilling (ii) Voids filled by waste / tailings	Not Proposed	Not Applicable
6j	Compliance on reclamation and rehabilitation by backfilling (iii)Afforestati on on backfilled area	Not Proposed	Not Applicable
6k	Compliance on reclamation and rehabilitation by backfilling (iv) Rehabilitation by making water reservoir	Not proposed	Not Applicable
61	Compliance on reclamation and rehabilitation by backfilling (v)any other specific means.	Not proposed	Not Applicable
6m	Compliance of rehabilitation of waste land within lease (i)afforestation	Not proposed	22242 saplings planted as gap filling and fresh area used is about 4.00 Ha.

Remarks

6n	Compliance of rehabilitation of waste land within lease (ii)Area rehabilitation (ha)	Not proposed	4 На	
60	Compliance of rehabilitation of waste land within lease (iii)Method of rehabilitation	Not Proposed	Not Applicable	
6p	Compliance of environmental monitoring (core zone and buffer zone)	_	Ambient Air monitoring is conducted twice in a week, Monitoring and analysis of surface water and noise are carried out on monthly basis. Monitoring of Ground water quality and fluctuation is being carried out quarterly	
6q	General remarks of inspecting officers on PMCP compliance and progressive closure operations etc.			PMCP compliace is as per proposal.
Min	eral Conservati	on:		

Propasals Actual work

Sl.No.

Item

7a	ROM Mineral dispatch or grade-wise sorting within lease area		ROM Iron ore raised from the mines have been processed through mechanical crushing, screening and manual breaking, sizing and stockpiled based on size and grade and marketed to the consumers based on the demand. The mineral reject after suitable blending are also marketed. ROM Mn ore are processed manually through sorting, sizing, blending and stockpiled based on size and grade and are marketed.	
7b	Method of grade- wise mineral sorting i.e. manual or mechanical.	Manual & Mechanical	Manual & Mechanical	
7c	Different grade of mineral sorted out at mines.		For Iron Ore- 55% to below 58% 60% to below 62% 62% to below 65% For Mn Ore- 25% to below 35% 35% to below 46%	
7d	Any beneficiation process at mines .	Not Proposed for 2016-17.	Not Applicable	
7e	General remarks of inspecting officer on Mineral conservation and beneficiation issues			Subgrade fines produced has been blended and dispatched.

Environment:

Sl.No.	Item	Propasals	Actual work	Remarks

8a	Separate removal and utilization of topsoil (Rule 32)	be scrapped	utilised for plantation.
8b	Concurrent use or storage of topsoil	Top soil will be scrapped off, collected and stored.	Top soil has been scrapped off and utilized during this year.
8c	Separate dumps for overburden, waste rock, rejects and fines (Rule 33)		The overburden has been stockpiled over OB dump-1 & 2 as per the approved proposal with locations-Dump-1: E-1100-1295, N-5368-5513 Dump-2: E-18-239, N-3750-3928 The mineral rejects/fines have been stockpiled at separate stacks with locations-Central Stockyard: E-1114-1380, N-4382-4596 Q-3 Bottom: E-1661-1793, N-5227-5306 Near Fixed Crusher: E-1013-1190, N-5194-5380 Stock No-1A: E-713-750, N-5234-5298 Stock No-1B: E-645-706, N-5166-5224
8d	Use of overburden, waste rock, rejects and fines dumps for restoring the land to its original use	& will be used for construction &	OB generated during mining has been used for backfilling of exhausted part of Q-3, construction & repair of haul road and the rest is dumped over Dump-1 & 2.
8e	Phased restoration, reclamation and rehabilitation of lands affected by mining operations (Pits, dumps etc)	Not Proposed	Not Applicable

8f	Baseline information on existence of plantation and additional plantation done (Rule 41)		22242 saplings planted as gap filling and fresh area used is about 4.00 Ha.	
8g	Survival rate	Not Proposed	65%	
8h	Water sprinkling on roads to control airborne dust	sprinkling proposed to be	Water sprinkling is being carried out by mobile water tanker & fixed sprinklers.	
8i	General remarks of inspecting officer on aesthetic beauty in and around mines area			Top soil is removed and used for plantation purpose. Separate OB, MR dumps are maintained. Aesthetic beauty in and around mines is maintained.

Compliance of Rule 45:

Sl.No.	Item	Propasals	Actual work	Remarks
9a	Status of submission of Monthly and Annual returns	has been submitted up to March 2017 Annual Return	Monthly Return has been submitted up to March 2017 Annual Return for the FY 2016-17 has been submitted.	
9b	Scrutiny of Annual return for information on Mining Engineer, Geologist and Manager	Mining	Graduate Mining Engineer: 5 Diploma Mining Engineer: 6 Geologist: 3 Surveyor: 2	

9с Scrutiny of Covered under Covered under Annual return on current(O/C) current(O/C) working: land use pattern working: 114.890 ha for area under 114.890 ha Used for waste disposal pits, reclaimed Used for waste: 4.725 ha area, dumps etc. disposal: Occupied by plant, 4.725 ha building, residential, Occupied by welfare buildings & plant, roads: 11.30 ha Other purpose (used for building, residential, green belt, public road welfare etc): 35.957 ha buildings & roads: 11.30 ha Other purpose (used for green belt, public road etc) : 35.957ha 9д Scrutiny of No of trees No of trees planted Annual return on planted during during the year within lease area is 22242 nos. afforestation the year within lease No of trees planted area is 22242 during the year outside lease area is 5750 nos. nos. No of trees planted during the year outside lease area is 5750 nos. 9e Scrutiny of 188957MT, 188957MT, Grade: +55 to Annual return on Grade: +55 to below 58 % Fe mineral reject below 58 % Fe

generation (Grade and quantity)

9f	Campting of	Creaded (Trees	Craded (Tree Ore)
ЭL	Annual return on		Graded (Iron Ore)
	ROM stock and/or		
	graded ore		
	graded ore		55% to below 58% Fe
		1341388.133	
			58% to below 60% Fe
		58% Fe	
			60% to below 62% Fe
		58% to below	62% to below 65% Fe
		1990.370	
		62% Fe	Grade (Mn Ore) Closing
			Below 25% Mn 16.275
			25% to below 35% Mn
		65% Fe	
			35% to below 46% Mn
		Grade (Mn Ore)	
		-	46% Mn and above 24.116
		Balance	
		Below 25% Mn	
		16.275	
		25% to below	
		35% Mn 890.750	
		35% to below	
		46% Mn	
		1069.886	

46% Mn and above 24.116

9g	Scrutiny of Annual return on		Grade Ex- mine Price (Rs/tone)
	sale value, Ex. Mine price and		Below 55% Fe (Fines)
	production cost		398.00 55% to below 58% Fe (Fines) 437.00 60% to below 62%
		58% Fe (Fines) 437.00 60% to below 62% Fe(Fines) 825.00 60% to below 65% Fe(Fines) 1030.00 60% to below	62% to below 65% Fe (lumps) 2019.00 Below 25% Mn:
		3000.00 25% to below 35% Mn 4166.00 35% to below 46% Mn 5782.00 46% Mn and above	
		14500.00	
9h	Scrutiny of Annual return on fixed assets	assets (in Rs.) 78099929.00,	Value of Fixed assets (in Rs.) 78099929.00, (in respect of the mine, beneficiation plant, work-shop, power and water installation

9k Scrutiny of Backhoe: 24 Backhoe: 24 nos; Dumper:

Annual return on nos; Dumper: 48 Nos; Front End

ining 48 Nos; Front loaders: 12

machineries End loaders: Nos; Blasthole drill: 2

Nos etc.

Nos;Blasthole drill: 2 Nos

etc.

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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
MCDR17 Rule 11(1)	26/07/2017	27/10/2017		
MCDR17 Rule 54(c)	26/07/2017	27/10/2017		

Date: (SHRI HARKESH MEENA)

Indian Bureau of Mines