

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

MCDR INSPECTION REPORT

Bhubaneshwar regional office

Mine file No : ORI/MN/KJR/MCDR-20/BBS-31/5/21

Mine code : 40ORI08031

- (i) Name of the Inspecting : **S010**) **SHRI G.C. SETHI**
Officer and ID No.
- (ii) Designation : Deputy Controller Mines
- (iii) Accompanying mine : Shri A.K.Roul, General Manager (Mines)
Official with
Designation
- (iv) Date of Inspection : 15/07/2019
- (v) Prev.inspection date : 14/04/2018

PART-I : GENERAL INFORMATION

1. (a) **Mine Name** : **SILJORA KALIMATI**
- (b) **Registration NO.** : **IBM/5431/2011**
- (c) Category : A Other than Fully Mech.
- (d) Type of Working : Opencast
- (e) Postal address
- State : ORISSA
- District : KEONJHAR
- Village : SILJORA KALIMATI
- Taluka : BARBIL
- Post office : SILJORA
- Pin Code :
- FAX No. : 91 - 6582 - 52442
- E-mail : rungtas@satyam.net.in
- Phone : (06582) 52861,52761,52661,!
- (f) Police Station :
- (g) First opening date : 01/01/1946
- (h) Weekly day of rest : MON
2. Address for : SILJORA KALIMATI MANGANESE MINE
correspondance : DISTRICT KEONJHAR
ORISSA
3. (a) Lease Number : ORI0172
- (b) Lease area : 715.64
- (c) Period of lease : 20
- (d) Date of Expiry : 31/12/2035
4. Mineral worked : MANGANESE ORE Main
MAGNESITE Associated

5. Name and Address of the

Lessee : M/S M.L.Rungta
 Rungta House P.O.Chaibasa
 SINGHBHUM (WEST) JHARKHAND
 Phone:(06582) 52861,52761,52661,52561,52461
 FAX :91 - 6582 - 52442

Owner : M D RUSTAGI
 RUNGTA OFFICE, MAIN ROAD
 BARBIL KEONJHAR, ORISSA
 KEONJHAR ORISSA
 Phone: 06767275221
 FAX : 06767276161

Agent : SHRI D N PARIDA
 RUNGTA OFFICE MAIN ROAD
 BARBIL KEONJHAR KEONJHAR
 ORISSA
 Phone: 06767275221
 FAX : 06767276161

Geologist

Name : RITESH RANJAN,Full Time
 Qualification : MSC GEOLOGY
 Appointment/ : 16/04/2008
 Termination date

Manager

Name : A K ROUL
 Qualification : AMIE (MINING)
 Appointment/ : 01/03/1995
 Termination date

6. Date of approval of Mining	:	Mining Scheme rule 12 MCDR1988	16/10/2001
Plan/Scheme of Mining		Renewal under rule 22 MCR1960	13/08/2003
		Mining Scheme rule 12 MCDR1988	07/07/2005
		Modif.approved Mining Scheme	27/01/2010
		Mining Scheme rule 12 MCDR1988	10/05/2010
		Modif.approved Mining Scheme	07/01/2011
		Modif.approved Mining Scheme	20/04/2012
		Mining Scheme rule 12 MCDR1988	25/03/2015
		MP modif under MCR 1960	31/12/2015
		MP modif under 17(3) MCR 2016	25/07/2018
		FMCP under 23C(1)	28/09/2018

PART - II : OBSERVATION/COMMENTS OF INSPECTING OFFICERS

Exploration :

Sl.No.	Item	Proposals	Actual work	Remarks
1a	Backlog of previous year	258 number of bore holes in 2018-19	During 2018-19, total 258 number of bore holes have been drilled.	No backlog.
1b	Exploration over lease area for geological axis 1 or 2	G1-389.44ha, G2-80.93ha & G-3: 41.58ha.	G1-391.160ha & G2-324.497ha.	Nil
1c	Exploration Agencies and Expenditure in lakh rupees during the year	Not specified.	By end of 2018-19, total total cost incurred in drilling was Rs 14460635/- Exploration agency involved in drilling was M/s Geotech Exploration & and M/s V.K.S Mining Services.	Nil
1d	Balance area to be explored to bring Geological axis in 1 or 2	G1-389.44ha, G2-80.93ha & G-3: 41.58ha.	G1-391.160ha & G2-324.497ha.	Nil
1e	Balance reserve as on 01/04/20	Balance reserves as per Modification of review of mining plan approved on 25.07.2018 was: Iron ore- 0.536 million tonnes under proved (111 & 122) category. Mn ore: 3.836 million tonnes under proved (111 & 122) category and total remaining resources 0.091 million tonnes.	Balance reserve as on 01/04/2019 under Iron ore- 0.536 million tonnes under proved (111 & 122) category. Mn ore: 3.295 million tonnes under proved (111 & 122) category and total remaining resources 0.091 million tonnes.	Nil

1f	General remarks of inspecting officers on geology, exploration etc	In 2018-19, total 258 number of bore holes are proposed to be drilled.	Total 258 number of bore holes were drilled by lessee during 2018-19. An extent of 715.639 ha area has been explored under G1/G2 level.	Nil
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Development :

Sl.No.	Item	Propasals	Actual work	Remarks
2a	Location of development w.r.t.lease area	Block-1, Block-2, Block-3, Block-4, Block-5 & Block-6 for Manganese and Block-6 (Iron ore)	Development is concentrated in five blocks such as Block-1, Block-2, Block-3, Block-4 & Block-5 for Manganese and no mining operations are done in iron ore block.	Development is concentrated in six block i.e . Block-1, Block-2, Block-3, Block-4 & Block-5.
2b	Separate benches in topsoil, overburden and minerals (Rule 15)	Separate benches in OB and ore with bench heights of 6m each.	Separate benches in OB and ore zone are formed as envisaged in the approved proposal.	Nil
2c	Stripping ratio or ore to OB ratio	Iron-1:3.09, Manganese-1:15.59	Iron-Nil, Manganese-1:9.52	Average stripping ratio varries due to irregular nature of ore deposit and for non-operational status of the iron ore block.
2d	Quantity of topsoil generation in m3	There is no top soil generation as no topsoil exists in the location proposed under excavation.	No top soil generated during 2018-19.	Nil
2e	Quantity of overburden generation in m3	Mn: 5457441 cu.m Fe: 419800cum	Mn: 611704 cu.m Fe: Nil	No overburden generated from iron ore block due to non-operational status of iron ore portion during 2018-19

2f	General remarks of inspecting officers on development of pit w.r.t. type of deposit etc	Development is concentrated in five block i.e . Block-1, Block-2, Block-3, Block-4 & Block-6 in the manganese portion only and no mining operations done in iron ore portion during 2018-19.	Non operational status of iron ore portion is due to lack of MoEf clearance.
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Exploitation:

Sl.No.	Item	Propasals	Actual work	Remarks
3a	Number of pit proposed for production	07 Blocks out of which 6 blocks for manganese and only one block for iron ore.	The mining operations were confined to six blocks for manganese and the iron ore block is non-operational due to want of forest clearance.	Nil
3b	Quantity of ROM mineral production proposed	Iron ore-136000 tonnes, Mn ore-3500005 tonnes	Iron ore-Nil, Mn ore-64256 tonnes	The manganese production is less due to low market demand for manganese and no iron ore production due to want of forest clearance.
3c	Recovery of sailable/usable mineral from ROM production	10%	23.39%	Nil
3d	Quantity of mineral reject generation	Iron ore-13600 tonnesw, Mn ore-35000 tonnes	From Iron ore-Nil, Mn ore-25381 tonnes	Mineral reject/sub grade of Mn ore generated during 2018-19 is 25381 tonnes.
3e	Grade of mineral rejects generation and threshold value declared.	-55% to +45% Fe and 10-25% Mn ore.	Nil-Fe and 10-25% Mn ore.	Nil

3f	Quantity of sub grade mineral generation.	Iron ore-13600 tonnes, Mn ore-35000 tonnes	Iron ore-Nil, Mn ore-25381 tonnes	Mineral reject/sub grade generated during 2018-19 is 25381of greade 10-25% for Mn. No mineral reject for iron ore was generated during the year 2018-19.
3g	Grade of sub grade mineral generation	-55% to +45% Fe and 10-25% Mn ore.	Mineral reject/sub grade generated during 2018-19 is 25381of greade 10-25% for Mn. No mineral reject for iron ore was generated during the year 2018-19.	Nil
3h	Manual / Mechanised method adopted for segregating from ROM	Mechanised for iron ore and manual for Mn ore.	Mechanised for iron ore and manual for Mn ore.	Nil
3i	Any analysis or beneficiation study proposed and carried out for sub grade mineral and rejects.	None	Not applicable.	Nil
3j	Provision of drilling and blasting in mineral benches	DTH drilling of 110mm dia. Blast hole with emulsion/slurry exlposive as coloumn charge and booster alongwith delay detonator.	Drilling and blasting is carried out with DTH drilling of 110mm dia. Blast hole with emulsion/slurry exlposive as coloumn charge and booster alongwith delay detonator.	Nil
3k	Provision of mining machineris in mineral benches	Yes.	Yes, deployed.	Nil
3l	Whether height of benches in overburden and mineral suitable for method of mining proposed in MP/SOM	Bench height-6m	6m avarage bench height.	Bench height is suitably matched with the loading excavator.

3m	Total area covered under excavation/pits	An extent of 329.139 ha during approved plan period upto 2019-20.	About 322.948 ha. has been covered under excavation pits.	Nil
3n	Ore to OB ratio for the pit/mine during the year.	1:15.56	1:9.52	Average stripping ratio varies due to irregular nature of ore deposit .
3o	Total area put in use under different heads at the end of year	Total area proposed under different heads are Pit-322.948 ha, waste dump-62.00 ha, Plant, residential & building, roads-38.474 ha & Mineral storage, plantation & others -92.369 ha.	Area covered under different heads are Pit-322.948 ha, waste dump-62.0 ha, Plant, residential & building, roads-38.474ha & others -92.369 ha.	Nil
3p	Production of ROM mineral during the last five year period as applicable	2014-15: Iron-100914 tonnes & Mn - 292821.18tonnes 2015-16: Iron-100914 tonnes & Mn - 292821.18 tonnes 2016-17: Iron-136005.94 tonnes & Mn - 342482.31 tonnes 2017-18: Iron-135859.69 tonnes & Mn - 318721.85 tonnes 2018-19:Iron-136000 tonnes & Mn -350000 tonnes	2014-15: Iron-770.21 tonnes & Mn -91856.421 tonnes 2015-16: Iron-773.768 tonnes & Mn -93896.498 tonnes 2016-17: Iron-778.28 tonnes & Mn -107521.701 tonnes 2017-18: Iron-273.017 tonnes & Mn -118367 tonnes 2018-19:Iron-Nil & Mn - 64256 tonnes	Production of manganese is less due to low market demand. No production of iron ore was reported due to non-operational status of iron ore area in the lease.

3q	General remarks of inspecting officers on method of mining etc.	The production of managanese is confined to all the six blocks but no production of iron ore was reported from the iron ore block due to lack of forest clerance issues. DTH drilling of 110mm dia. bast hole with emulsion/ slurry exlposive alongwith delay detonators are practiced for drilling and blasting.	Nil
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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)	Separate dumping for overburden and mineral rejects are envisaged.	Overburden dump: Dump A & Dump H. Mineral reject dumps: SG-C,SG-B & SG-I. However, the waste generated due to the mining operations are back filled in block B2, B3,B4,B5, & B6 areas of dump-A & H.	Nil
4b	Location of topsoil, OB and mineral reject dumps	No topsoil exists. The waste dumps are Dump-A & Dump-H.	Overbureden generated due to the mining operations are back filled in in block B2, B3,B4,B5, and partially on dump-A & H respectively.	Nil
4c	Number of dumps within lease area and outside of lease area	Two i.e. Dump-A & Dump-H.	There are two active dumps i.e dump-A, dump-H exists within the lease area.	Nil
4d	Location of dumps w.r.t. ultimate pit limit (Rule 16)	Dump-A & Dump-H	There are two active dumps i.e Dump-A & Dump-H.	Nil
4e	Number of active and alive dumps.	Two active dumps i.e Dump-A & Dump-H	There are two active dumps i.e Dump-A & Dump-H	Nil

4f	Number of dead dumps.	There is two dead dump-D and Dump-E which is rehabilitated by plantation.	There is two dead dump-D and Dump-E which is rehabilitated by plantation.	Nil
4g	Number of dumps established.	There is two dead dump-D and Dump-E which is rehabilitated by plantation.	There is two dead dump-D and Dump-E which is rehabilitated by plantation.	Nil
4h	Whether Retaining wall or garland drain all along dumps are there.	Proposed.	Maintained.	Nil
4i	Length of Retaining wall or garland drain all along dumps	Retaining wall: 250m and garland drain: Nil.	Retaining wall: 500m and garland drain: 250m.	Nil
4j	Number of settling ponds	None	Nil.	Nil.
4k	Specific comments of inspecting officer on waste dump management	Two active dumps i.e Dump-A &, Dump-H alongwith retaining wall are envisaged.	Slope of the dead dump has been stabilised by plantation. The dead dump has been fully rehabilitated by plantation. The retaining wall and garland drain has been constructed around the dump.	Nil

Solid Waste Management - Backfilling:

Sl.No.	Item	Propasals	Actual work	Remarks
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5a	Status of part or full extraction of mineral from mined out area before starting backfilling.	11.47 ha area of partly backfilling of Block-B2, Block-B3 and Block-B4 .	About 4.09 ha area has been partly backfilled of Block-B2, Block-B3,B4,B5 and Block-B6. As the manganese production is lagging behind the proposal and no production of iron ore due to lack of forest clearance, the backfilling as proposed could not completed fully.	Nil
5b	Area under backfilling of mined out area	11.47 ha of mined out area such as partly backfilling of Block-B2, Block-B3,B4,B5 and B6 areas of the dumps A & H are envisaged.	An extent of 4.09ha area has been partly backfilled of Block-B2, Block-B3,B4,B5 and Block-B6. As the manganese production is lagging behind the proposal and no production of iron ore due to lack of forest clearance, the backfilling as proposed could not completed fully.	Nil
5c	Concurrent use of topsoil for restoration or rehabilitation of mineral out area (Rule 32)	Not applicable as no topsoil exists in the location proposed under excavation planning.	No topsoil generated during 2018-19.	Nil
5d	Total area fully reclaimed and rehabilitated	11.47 ha of mined out area such as partly backfilling of mining Block-B2,B3,B4,B5 & B6 is envisaged.	An extent of 4.09ha area has been partly backfilled of Block-B2, Block-B3,B4,B5 and Block-B6. As the manganese production is lagging behind the proposal and no production of iron ore due to lack of forest clearance, the backfilling as proposed could not completed fully.	Nil

5e	General remarks of inspecting officers on backfilling and reclamation etc.	An extent of 4.09ha area has been partly backfilled of Block-B2, Block-B3,B4,B5 and Block-B6. As the manganese production is lagging behind the proposal and no production of iron ore due to lack of forest clearance, the backfilling as proposed could not completed fully.	Nil
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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).	Annual report on PMCP has to be submitted to IBM under Rule 26(2) of MCDR,2017.	Annual report on PMCP for the year 2018-19 has been submitted.	Nil
6b	Area available for rehabilitation (ha) .	11.47 ha area of partly backfilling of Block-B2, Block-B3 and Block-B4 .	An extent of 4.09ha area has been partly backfilled of Block-B2, Block-B3,B4,B5 and Block-B6. As the manganese production is lagging behind the proposal and no production of iron ore due to lack of forest clearance, the backfilling as proposed could not completed fully.	Nil
6c	afforestation done (ha).	2.0 ha.	In 2018-19, an extent of 2.0 ha of area is covered under afforestation.	Nil
6d	No. of saplings planted during the year	15000 saplings.	26075 nos. of saplings were planted during 2018-19.	Nil

6e	Cumulative no .of plants	Not specified.	358450 nos of saplings were palnted cumulatively as on 2018-19.	Nil
6f	Any other method of rehabilitation	None	An extent of 4.09ha area has been partly backfilled of Block-B2, Block-B3,B4,B5 and Block-B6. As the manganese production is lagging behind the proposal and no production of iron ore due to lack of forest clearance, the backfilling as proposed could not completed fully.	Nil
6g	Cost incurred on watch and care during the year	Not specified.	Rs 24.13 lakh cost incurred on watch and care during 2018-19 as reported during the inspection.	Nil
6h	Compliance on reclamation and rehabilitation by backfilling (i) Voids available for backfilling (Lx B x D	11.47 ha of mined out area for the mining blocks Block-B2, Block-B3 and Block-B4 are proposed for part backfilling.	An extent of 4.09ha area has been partly backfilled of Block-B2, Block-B3,B4,B5 and Block-B6. As the manganese production is lagging behind the proposal and no production of iron ore due to lack of forest clearance, the backfilling as proposed could not completed fully.	Nil

6i	Compliance on reclamation and rehabilitation by backfilling (ii) Voids filled by waste / tailings	11.47 ha of mined out area for the mining blocks Block-B2, Block-B3,B4,B5 and Block-B6.	An extent of 4.09ha area has been partly backfilled of Block-B2, Block-B3,B4,B5 and Block-B6. As the manganese production is lagging behind the proposal and no production of iron ore due to lack of forest clearance, the backfilling as proposed could not completed fully.	Nil
6j	Compliance on reclamation and rehabilitation by backfilling (iii)Afforestation on backfilled area	11.47 ha of mined out area for the mining blocks B2, Block-B3,B4,B5 and Block-B6.	An extent of 4.09ha area has been partly backfilled of Block-B2, Block-B3,B4,B5 and Block-B6. As the manganese production is lagging behind the proposal and no production of iron ore due to lack of forest clearance, the backfilling as proposed could not completed fully.	Nil
6k	Compliance on reclamation and rehabilitation by backfilling (iv) Rehabilitation by making water reservoir	11.47 ha of mined out area for the mining blocks B2, Block-B3,B4,B5 and Block-B6.	An extent of 4.09ha area has been partly backfilled of Block-B2, Block-B3,B4,B5 and Block-B6. As the manganese production is lagging behind the proposal and no production of iron ore due to lack of forest clearance, the backfilling as proposed could not completed fully.	Nil
6l	Compliance on reclamation and rehabilitation by backfilling (v)any other specific means.	Not applicable.	Not applicable.	Nil

6m	Compliance of rehabilitation of waste land within lease (i)afforestation	Not applicable.	Not applicable.	Nil
6n	Compliance of rehabilitation of waste land within lease (ii)Area rehabilitation (ha)	Not applicable.	Not applicable.	Nil
6o	Compliance of rehabilitation of waste land within lease (iii)Method of rehabilitation	Not applicable.	Not applicable.	Nil
6p	Compliance of environmental monitoring (core zone and buffer zone)	Quarterly monitoring of air, water and noise level etc. are envisaged.	Quarterly monitoring of air, water and noise level are being carried out.	Nil
6q	General remarks of inspecting officers on PMCP compliance and progressive closure operations etc.		An extent of 4.09ha area has been partly backfilled of Block-B2, Block-B3,B4,B5 and Block-B6. As the manganese production is lagging behind the proposal and no production of iron ore due to lack of forest clearance, the backfilling as proposed could not completed fully.	

Mineral Conservation:

Sl.No.	Item	Propasals	Actual work	Remarks
7a	ROM Mineral dispatch or grade-wise sorting within lease area	Gradewise sorting & sizing for manganese ie envisaged..	Gradewise sorting & sizing is being practiced.	Nil

7b	Method of grade-wise mineral sorting i.e. manual or mechanical.	Manual for Mn ore mechanised for Iron ore.	Manual for Mn ore mechanised for Iron ore.	Nil
7c	Different grade of mineral sorted out at mines.	25% to 46% Mn and +46% dioxide grade of manganese and 45% to 55% Fe and +55% Fe.	25% to 46% Mn and +46% dioxide grade of manganese and 45% to 55% Fe and +55% Fe.	Nil
7d	Any beneficiation process at mines .	None	Not applicable.	Nil
7e	General remarks of inspecting officer on Mineral conservation and beneficiation issues		Cut off grade of Manganese ore for the mine is +25%. Different grades of Mn. sorted out at mines are +10% to 46% & above . Cut off grade of iron ore is +55%. Different grades of iron ore sorted out at mines are -65% Fe, 62 to 58% fe and 58 to 55% Fe.	Nil

Environment:

Sl.No.	Item	Propasals	Actual work	Remarks
8a	Separate removal and utilization of topsoil (Rule 32)	No top top soil generation envisaged in the approved document.	No topsoil generated during 2018-19.	Nil
8b	Concurrent use or storage of topsoil	Not applicable.	Not applicable.	Nil
8c	Separate dumps for overburden, waste rock, rejects and fines (Rule 33)	Separate dumping for overburden and mineral reject envisaged.	Overbureden generated during mining operations were back filled in block B2, B3,B4,5 & B6 and partially dupmed on dump-A & H.	Nil

8d	Use of overburden, waste rock, rejects and fines dumps for restoring the land to its original use	Partly backfilling of Block-B2, Block-B3,B4,B5 and Block-B6 envisaged.	An extent of 4.09 ha area has been partly backfilled in Partly backfilling of Block-B2, Block-B3,B4,B5 & respectively.	Nil
8e	Phased restoration, reclamation and rehabilitation of lands affected by mining operations (Pits, dumps etc)	Partly backfilling of Block-B2, Block-B3, Block-B4,Block-B5and Block-B6 envisaged.	An extent of 4.09 ha area has been partly backfilled in Block-B2, Block-B3, Block-B4,Block-B5and Block-B6.	Nil
8f	Baseline information on existence of plantation and additional plantation done (Rule 41)	15000 nos. of saplings.	26075 nos. saplings were planted in 2018-19.	Nil
8g	Survival rate	Not specified.	The reported survival rate is 80%.	Nil
8h	Water sprinkling on roads to control airborne dust	Water sprinkling is proposed.	Water sprinkler are used to control air borne dust in the mine.	Nil
8i	General remarks of inspecting officer on aesthetic beauty in and around mines area		Aesthetic beauty in and around mined area is well maintained. During the year 2018-19, there are 26075 nos of saplings were planted. As reported cumulative plantation is about 358450 nos saplings done.	Nil

Compliance of Rule 45:

Sl.No.	Item	Propasals	Actual work	Remarks
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9a	Status of submission of Monthly and Annual returns	Monthly & Annual returns are being regularly submitted to this office.	Monthly & Annual returns are being regularly submitted to this office.	Nil
9b	Scrutiny of Annual return for information on Mining Engineer, Geologist and Manager	Graduate Mining Engineer-1, Diploma mining Engineer-3, Geologist-3, Other-12	Graduate Mining Engineer-1, Diploma mining Engineer-3, Geologist-3, Other-12	Nil
9c	Scrutiny of Annual return on land use pattern for area under pits, reclaimed area, dumps etc.	Area covered under different heads are Pit-322.948 ha, waste dump-62.0 ha, Plant, residential & building, roads-38.474ha & others - 92.369 ha.	The land use furnished in the annual return 2018-19 is found to be in order.	Nil
9d	Scrutiny of Annual return on afforestation	Total 26075 nos. saplings have been planted in 2018-19.	Found to be in order.	Nil
9e	Scrutiny of Annual return on mineral reject generation (Grade and quantity)	Mineral reject 25381 tonnes, +10-25% Mn.	Found to be in order.	Nil
9f	Scrutiny of Annual return on ROM stock and/or graded ore	Closing stock maintained below 25% Mn, 25-46% Mn and above 46% and also for dioxide grade. total 93023.283 tonnes	Found to be in order.	Nil

9g	Scrutiny of Annual return on sale value, Ex. Mine price and production cost	Ex mine price between grade 35% - 46% Mn is Rs 22491.00 & Dioxite Rs. 29889.33.	Found to be in order.	Nil
9h	Scrutiny of Annual return on fixed assets	Fixed asset as Rs 722278.80 crores. AR is Rs 722278.80 crores.		Nil
9k	Scrutiny of Annual return on mining machineries	A fleet of mining machineries are deployed in the mine.	The deployment status of mining machineries are found to be in order.	Nil

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 35(2)	25/07/2019	13/08/2019				

Date :

(SHRI G.C. SETHI)

Indian Bureau of Mines