INDIAN BUREAU OF MINES MINERALS DEVELOPMENT AND REGULATION DIVISION

MCDR INSPECTION REPORT

Bhubaneshwar regional office

Mine file No : ORI/IRON/SNG/MCDR-16/BBS Mine code : 300RI13041

Name of the Inspecting: SQ10) SHRI G.C. SETHI

Officer and ID No.

(ii) Designation : Deputy Controller Mines

(iii) Accompaning mine : Shri Abhijit Sen, AVP(Geo), Shri A.S. Mohapatra, AVP(Mi

Official with Designation

(iv) Date of Inspection : 13/07/2017 (v) Prev.inspection date : 28/07/2016

PART-I : GENERAL INFORMATION

1. (a) Mine Name : TEHERAI

(b) Registration NO. : IBM/4570/2011

(C) Category : A Fully Mechanised

(d) Type of Working : Opencast

Postal address (e)

FAX No.

: ORISSA State : SUNDARGARH District : TEHERAI Village : BONAI Taluka Post office : KOIRA

Pin Code : 770048 : 06767276161

E-mail : teherai@yahoo.in

Phone : 06767275221

(f) Police Station : Koira

: 31/12/1982 (g) First opening date

Weekly day of rest (h) : SAT

Address for : VILLAGE: TEHERAI, P.O.KOIRA 2

correspondance DIST: SUNDERGARH ORISSA-770048

(a) Lease Number 3. : ORI0131 (b) Lease area : 137.46 (c) Period of lease : 20

> (d) Date of Expiry : 31/12/2001

Mineral worked 4. : MANGANESE ORE Associated

> IRON ORE Main

5. Name and Address of the

Lessee : BONAI INDUSTRIAL COMPANY LTD

P.O.BARBIL KEONJHAR

ORISSA

Phone: 06767-30221

FAX :

Owner : M D RUSTAGI

RUNGTA OFFICE, MAIN ROAD BARBIL KEONJHAR, ORISSA

KEONJHAR ORISSA Phone: 06767275221 FAX : 06767276161

Agent : A S MOHAPATRA

RUNGTA OFFICE, MAIN ROAD BARBIL, KEONJHAR ODISHA

KEONJHAR ORISSA Phone: 06767276161 FAX : 06767276161

Mining Engineer

Name : DIPAK KUMAR, Full Time

Qualification : BE MINING Appointment/ : 22/06/2011

Termination date

Geologist

Name : S K DE, Full Time

Qualification : MSC GEOLOGY Appointment/ : 30/01/2013

Termination date

Manager

Name : B K SRIVASTAVA

Qualification : BE MINING
Appointment/ : 08/10/2012

Termination date

6.	Date of approval of Mining	:	Fresh under rule 22 MCR1960	24/01/2002
	Plan/Scheme of Mining		Mining Scheme rule 12 MCDR1988	16/11/2007
			Mining Scheme rule 12 MCDR1988	22/03/2010
			Mining Scheme rule 12 MCDR1988	28/03/2012
			FMCP under 23C(1)	16/01/2015
			Modif.approved Mining Scheme	21/07/2015
			Mining Scheme rule 12 MCDR1988	26/10/2016

MP modif under 17(3) MCR 2016 26/10/2016

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PART - II : OBSERVATION/COMMENTS OF INSPECTING OFFICERS

Exploration :

Sl.No.	Item	Proposals	Actual work	Remarks
1a	Backlog of previous year	No such proposal in the modification of approved scheme of mining. However, during the year 2016-17, it was proposed to dril 13 nos. of core bore holes.	34 nos. of core bore holes were drilled during the year 2016-1	The achievements in exploration is 7. in higher side of the proposed number of bore holes during the year 2016-17.
1b	Exploration over lease area for geological axis 1 or 2	No such specific proposal in the modification approved scheme of mining.	During the year 2016-1 34 nos. of coring bore holes were drilled.	
1c	Exploration Agencies and Expenditure in lakh rupees during the year	M/s V.K.S. Mining Services was the exploration agency for this mine and there is no specific proposal for expenditure on account of exploration.	During the year 2016-1 34 nos. of bore holes were drilled in the mi & Rs. 65.25lakhs was spend for drilling abo stated bore holes.	ne

1d Balance area to be explored to bring Geological been explored axis in 1 or 2

An extent of 41.572ha has upto G3 level & 20.888ha has not been explored so far. Therefore, the total extent of 62.46ha to be explored for G1/G2 level as per the modification of approved scheme of mining.

62.46ha to be explored for G1/G2 scale.

Nil

1e Balance reserve as on 01/04/20

In the modification of approved scheme of mining, the reserves/reso urces have been estimated as as given below: - Iron ore- Proved reserves (111): 9.378million tonnes & Feasibility mineral resources(211) : 0.168million tonnes. Manganese ore- Proved (111):42729tonnes & no remaining

resources have been estimated.

The reserves/resources as on 01.04.2017 is as given below: Iron Ore-Proved reserves(111): 11.231 million tonnes & remaing resources (211): bore holes even 1.999 million tonnes. Manganese- Proved reserves(111): 54574.420 years 2015-16 & on 01.04.2015 tonnes & no remaining & the same is resources have been estimated.

The reserves/resources have been enhanced by drilling 34 nos. of coring after depletion of production for the 2016-17.

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

In the modification of approved scheme of mining, 13 nos. of coring bore holes were proposed to be drilled during the year 2016-17.

Teherai iron & manganese 34 nos. of bore ore deposit forms a part holes were drilled of pre-cambrian sedimentary formation known as the iron ore series developed in Singhbhum-Keonjhar-Bonai is in higher side area. The general strike of the proposed of the formation in Northern Singhbhum is NNE-SSW but gradually changing over to NW-SE in eastern part and in adjoining area of Mayurbhanj. During the year 2016-17, 34 nos. of coring bore holes were drilled against the 13 nos. of coring bore holes proposed in the modification of approved scheme of mining.

during the year 2016-17 against the proposal of 13 bore holes, which exploration and it is a good sign for development of the mine.

Development :

Sl.No.	Item	Propasals	Actual work	Remarks
2a	development	E/W 1100 & N/S 720 to N/S 1210 (ii) E/W	(i) E/W 800 to E/W 950 & N/S 800 to N/S 1100 (ii) E/W 580 to E/W 700 & N/S 480 to N/S 600 (ii) N/S 480 to N/S 600.	Less extent of area has been degraded during the year 2016-17 as there was lack of market demand for low grade iron ore as reported during the inspection.

2b	Separate benches in topsoil, overburden and minerals (Rule 15)		Separate benches are made in overburden and in ore zone.	Nil
2c	Stripping ratio or ore to OB ratio	Iron Ore 1:0.35(tonne:c um), Mn. 1: 8.9 (tonne: cum) for the year 2016-17.	<pre>Iron Ore 1: 0.59 (tonne:cum), Mn. 1: 14 (tonne:cum) for the year 2016-17.</pre>	The achieved Ore;OB ratio both for iron & Mn are in lower side of the proposed ratio even if the actual production achieved for the year 2016-17 are lower side.
2d	Quantity of topsoil generation in m3	Nil	Nil	Nil
2e	Quantity of overburden generation in m3	OB from iron ore: 272334 cum & OB from Mn.: 92400cum in the year 2016-17.	During the year 2016-17,651451.115 cum of overburden was generated from iron ore quarry & 123714.795cum of waste from manganese was generated.	Even if the waste generation was in higher side, the production reported both from iron ore and managnese quarries are in lower side, thereby the higher side deviation in waste handing arises under rule 11(1) of MCDR, 2017 is ignored.

2f	General remarks	No comment is	The production of iron	Nil
	of inspecting	offered.	ore and manganese are	
	officers on		lagging behind against	
	development of		the proposal envisaged	
	pit w.r.t. type		in the modification of	
	of deposit etc		approved scheme of	
			mining due to lack of	
			market demand of low	
			grade ores.	

Exploitation:

Sl.No.	Item	Propasals	Actual work	Remarks
3a	Number of pit proposed for production	Two nos. of pits viz. Chattan pit (iron) & Main pit (Manganese) were proposed for production during the year 2016-17.	Both the pits were under operation during the year 2016-17.	Nil
3b	Quantity of ROM mineral production proposed	year 2016-17, 2.496 million	During the year 2016-17, 1.089 million tonnes of iron ore and 8626.540 tonnes of manganese was produced from the mine.	The production was lower side due to lack of market demand for low grade iron ore & manganese as reported during the inspection.

3c	Recovery of sailable/usable mineral from ROM production	The recovery of iron was proposed for 90% and the same for manganese was 8% as envisaged in the modification of approved scheme of mining.	The reported recovery of iron ore was about 89% and the same for manganese was about 8%.	Nil
3d	Quantity of mineral reject generation		No mineral reject was generated from the mine during the year 2016-17. The low grade iron ore & manganese generated from the mine was upgdaded by dry screening and made salable.	The low grade iron ore & manganese generated from the mine was upgraded by dry screening and made salable.
3e	Grade of mineral rejects generation and threshold value declared.	mineral reject/low grade for iron	The grades of mineral rejects of manganese contains 17.58% MnO2 and the same for iron ore is varies from 45-55%Fe.	Nil
3f	Quantity of sub grade mineral generation.	Nil	Nil	Nil
3g	Grade of sub grade mineral generation	No such proposal.	Not applicable.	Nil

3h	Manual / Mechanised method adopted for segregating from ROM	Mechanised method adopted for segregation of ROM iron ore and manual method is adopted for manganese ore as envisaged in the modification of approved scheme of mining.	The same practice is being followed as per the proposal.	Nil
3i	Any analysis or beneficiation study proposed and carried out for sub grade mineral and rejects.	No such proposal.	Not applicable.	Nil
3j	Provision of drilling and blasting in mineral benches	Provisions for drilling b wagon drills of 110mm dia and blasting by putting explosives in the drilled holes in overburden as well as in ore zones.	The same practice is being followed in the mine as found during the field visit.	Nil

3k Provision of mining machineries in mineral benches

The details of The details of mining mining machineries deployed in machineries the mine is as given proposed to be below: - Excavator 2.5cum deployed in (1 nos.), Excavator the mine is as 1.2cum (2 nos.), given below: - Excavator 1.6cum (2 Excavator nos), Excavator 1.9cum (3 2.5cum(8 nos.) Tippers 20 tonner nos.), (23 nos.), Rock breakers Excavator (3 nos.), Loader 2.0cum 0.9cum (10 (4 nos.), Dozer (1no.), nos.), Wagon Mobile crusher plant drills 110mm 150t/hr (1set), Mobile dia (2 nos.), screening plant 250t/hr (2nos.), 150t/hr (1 Tippers 20 tonner (27 no.), water tanker 12000 nos.), Tippers ltr (2 nos.) etc. 9 tonner(2 nos.), Rock breakers (different make 3 nos.), Loader 2.0cum (4 nos.), Pay loader 0.6cum (1no.), Dozer BEML (1no.), Mobile crusher plant 250t/hr(3 nos.), 150t/hr (3 nos.), 100t/hr(2 nos.), Mobile screening plant 250t/hr (2nos.), 150t/hr (5 nos.), 100t/hr(2 nos.) etc.

A good number of mining machinereis were deployed in the mine even if the production of iron ore and manganese during the year 2016-17 are in lower side.

side against the proposed ratio.

31 The height of The height & width of Whether height Nil of benches in the benches in the benches in iron ore overburden and over burden & zone were 6-7m & width mineral suitable in ore zone of 12-14m and the same for for method of iron ore were manganese were 4-6m & mining proposed proposed for 10-12 respectively. in MP/SOM 6-8m & width of 12-14m and the same for manganese 4-6m & 10-12m respectively as envisaged in the modification of approved scheme of mining. 3m Total area An extent of An extent of 57.266ha of Nil covered under 60.051ha.of area was degraded by excavation/pits area was current opencast working proposed to be as indicated in the annual rerurn submitted excavated by by the party for the end of the year 2016-17 year 2016-17. as envisaged in the modification of approved scheme of mining. Ore to OB ratio Iron Ore- 1: Even if the 3n Iron ore-1:0.59 for the pit/mine 0.14 (tonnes/cum) & Mn-1:14 production of iron during the year. 9tonnes/cum), (tonne/cum) during the and manganese was Mnyear 2016-17. in lower side 1:5.1(tonnes/cduring the year um) for the 2016-17, the year 2016-17. achieved Ore; OB ratio is in higher

Nil

30 Total area put
in use under
different heads
at the end of
year

The item wise As per the annual return land use under submitted by the party different for the year 2016-17, heads at the the land digradation end of the status in different year 2016-17 counts is as given is as given below: - (i) Current below:-(i) opencast working-Excavation for 57.266ha (ii) Waste disposal-9.64ha (iii) mining-60.051ha (ii) Occupied by plant, OB dump buildings etc.-4.758ha & 12.49ha (iii) (iv) Green belt & mineral storage-11.56ha. Mineral storage-9.0ha (iv) Infrastructure -1.22ha (v) Roads-1.95ha (vi) Green belt-5.61ha & (vii) Mineral Separation plant-3.885ha

Production of 3р ROM mineral during the last five year period iron ore as applicable

The proposed production of manganese & during the period from 2012-13 to follows: Manganese:-2012-13: Nil,2013-16: 18000 17:18000 tonnes. production for respectively. iron ore

The achivements in production of manganese & iron ore during the period from 2012-13 to 2016-17 is as given below: Manganese: - 2012-13: Nil, 2013-14: Nil, 2016-17 is as 2014-15: Nil, 2015-16: 2299 tonnes & 2016-17: 8627 tonnes. Similarly, the iron ore production duting the aforesaid 14:Nil, 2014- period is as given 15: Nil, 2015- below: Iron ore:- 2012-13: 424460 tonnes, 2013tonnes & 2016-14: 1001841 tonnes, 2014-15: 110470 tonnes, 2015-16: 661677 tonnes Similarly, the 2016-17: 1089416 tonnes

During all the above five years, the achievements in production are lagging behind the proposals, due to lack of market demand of the low grade ores.

during the above priod is as given below: - 2012-13:1432500.60 tonnes & 216500 cum of dump, 2013-14: 1402210 tonnes & 126500 cum of dump, 2014-15: 1402201 tonnes & 135000 cum from dump , 2015-16: 2.496 million tonnes & 2016-17:2.496 million tonnes.

of inspecting officers on etc.

fully mechanised open cast modification mining. of the

approved scheme of mining.

3q General remarks The method of The mining operations mining was were carried out by proposed for other than fully $\hbox{\tt method of mining other than} \qquad \hbox{\tt mechanised open} \\ \hbox{\tt cast}$ methods as per the proposal envisaged in the modification of the methods in the approved scheme of

Nil

Solid Waste Management - Dumping:

Sl.No.	Item	Propasals	Actual work	Remarks
4a		proposal for top soil generation from the mine. However, the OB & mineral rejects (low grade ore)	No topsoil was generated from the mine during the year 2016-17 & no separate dumps for the same was made. The OB/waste generated were dumped in dump B & C. The mineral rejects(low grade) generated from the mine was salable.	Nil

4b	Location of topsoil, OB and mineral reject dumps	dumped in	The OB generated from the mine were dumped in dumps B & C during the year 2016-17. The mineral rejects so generated was stacked separately in the lease area due to lack of market demand for the same at the present scenario as reported during the inspection.	Nil
4c	Number of dumps within lease area and outside of lease area	Dump B & dump C are the existing dumps within the lease area as envisaged in the modification of the mining plan.	There are two active dumps are found in the mine viz. dump B & dump C.	Nil
4d	Location of dumps w.r.t. ultimate pit limit (Rule 16)	The dump B & dump C are proposed beyond the ultimate pit limits as per the modification of the approved scheme of mining.	The dump B & dump C are found located beyond the ultimate pit limit.	Nil
4e	Number of active and alive dumps.	There are two active dumps viz. dump B & dump C.	The dumps B & C are active dumps as found during th field visit.	Nil
4f	Number of dead dumps.	No such proposal.	Not seen in the lease area.	Nil
4g	Number of dumps established.	No such proposal.	Nil	Nil

4h	Whether Retaining wall or garland drain all along dumps are there.	Retaining walls for the dumps are proposed as envisaged in the modification of the approved scheme of mining.	Concrete retaining wall all along the toes of both the dumps are made with 1.5m height & 1.5m width.	Nil
4i	Length of Retaining wall or garland drain all along dumps	No specific proposal.	Concrete retaining walls & garland drains all around the toes of the dumps are made as found during the field visit.	Nil
4j	Number of settling ponds	Series of settling tanks are proposed.	Sereis of settling tanks are made for the garland drains constructed for the dumps.	Nil
4k	Specific comments of inspecting officer on waste dump management		Dumping is being done in dump B & C as observed during the inspection.	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.	Chattan pit	Back filling proposed for south western part of the Chattan pit was completed as per the proposal.	Nil
5b	Area under backfilling of mined out area	An extent of 1.92ha mined out area has been proposed to be backfilled in the year 2016-17.	An extent of 1.92ha of mined out area has been backfilled.	Nil

5c	Concurrent use of topsoil for restoration or rehabilitation of mineral out area (Rule 32)			Nil
5d	Total area fully reclaimed and rehabilitated	Only reclamation of 1.92ha of area was proposed during the year 2016-17.	An extent of 1.92ha has been reclaimed.	Nil
5e	General remarks of inspecting officers on backfilling and reclamation etc.	an extent of 1.92ha was	An extent of 1.92ha has been reclaimed.	Nil

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).	No such proposal in the modification of approved scheme of mining.	The annual report on PMCP for the year 2016-17 has been submitted by the party under Rule 26(2) of MCDR, 2017.	Nil
6b	Area available for rehabilitation (ha) .	No such specific proposal for the year 2016-17.	Not applicable.	Nil

6c	afforestation done (ha).	In the year 2016-17, there are 6000 nos. of saplings were proposed to be planted but over an extent 1.92ha of bakfilled area.		More plantations were under taken in the lease area against the proposal envisaged in the modification of approved scheme of mining during the year 2016-17.
6d	No. of saplings planted during the year	Only 6000 nos. of saplings were proposed to be planted in the year 2016-17.	During the year 2016-17, 26000 nos. of saplings were planted.	The plantation done during the year 2016-17 is in higher side agianst the proposal envisaged in the modification of approved scheme of mining.
6e	Cumulative no .of plants	No such proposal.	The commulatrive plantation figures were not avialble. However, during the year 2016-17, 26000 salpings were planted.	Nil
6f	Any other method of rehabilitation	No such specific proposal in the modification approved scheme of mining.	Nil	Nil
6g	Cost incurred on watch and care during the year		Not availble.	Nil
6h	Compliance on reclamation and rehabilitation by backfilling (i) Voids available for backfilling (Lx B x D	An extent of 1.92ha was proposed to be backfilled/rec laimed in the year 2016-17 as envisaged in the modification of the approved scheme of mining.		Nil

6i	Compliance on reclamation and rehabilitation by backfilling (ii) Voids filled by waste / tailings	An extent of 1.92ha was proposed for reclamation/backfilling in the year 2016-17.	An extent of 1.92ha was reclaimed/backfilled during the year 2016-17.	Nil
6j	Compliance on reclamation and rehabilitation by backfilling (iii)Afforestati on on backfilled area	Proposed reclamation: 1.92ha in the year 2016-17.	Reclamation done, over an extent of 1.92ha in the year 2016-17.	Nil
6k	Compliance on reclamation and rehabilitation by backfilling (iv) Rehabilitation by making water reservoir	No such proposal for the year 2016-17.	Nil	Nil
61	Compliance on reclamation and rehabilitation by backfilling (v)any other specific means.	No such proposal.	Not applicable.	Nil
бm	Compliance of rehabilitation of waste land within lease (i)afforestation	No such proposal.	Nil	Nil
6n	Compliance of rehabilitation of waste land within lease (ii)Area rehabilitation (ha)	No such specific proposal in the modification of approved scheme of mining.	Only 26000 nos. of saplings were planted during the year 2016-17.	Nil
60	Compliance of rehabilitation of waste land within lease (iii) Method of rehabilitation	No such proposal.	Nil	Nil

6p	Compliance of environmental monitoring (core zone and buffer zone)	No such specific proposal for core zone & buffer zone has been furnished in the approved document.	The ambient air quality, water quality, noise level, vibration level etc. were being monitored in every quarter and found within the permissible limits.	Nil
6q	General remarks of inspecting officers on PMCP compliance and progressive closure operations etc.	The proposals for reclamation/ba ckfilling followed by plantation was proposed during the year 2016-17.	Certain portion of the mined out areas have been backfilled as per the proposal during the year 2016-17.	Nil

Mineral Conservation:

Sl.No.	Item	Propasals	Actual work	Remarks

Nil

7a ROM Mineral dispatch or grade-wise sorting within lease area

The ROM iron ore produced insitu processed to get the sized ore of different the buyers specifications . In case of manganese, the ore has been proposed to be sorted out mannually for low, medium & high grade & stacked separately before

The ROM iron ore produced both from the both from the insitu excavation & rehandling of the dump are excavation & processed through mobile re-handling of screening & curshing the dump are units to get the sized ore of different grades through mobile as per the buyers screening & specifications. In case curshing units of manganese , the ore has been sorted out mannually for low, medium & high grade & stacked grades as per separately before despatch.

7b Method of grade- Mannual wise mineral sorting i.e. manual or mechanical.

sorting & sizing for manganese & mechanical screening & crushing for ROM iron ore.

despatch.

Mannual sorting & sizing Nil for manganese & mechanical screening & crushing for ROM iron ore.

7c	Different grade of mineral sorted out at mines.	As per the modification of the approved scheme of mining, the following grades of iron ore and manganese was proposed to be produced from the mine. Iron ore: +55% Fe & -55%Fe. Manganese: +25%Mn & -25%Mn.		Nil
7d	Any beneficiation process at mines .	No such proposal.	Nil	Nil
7e	General remarks of inspecting officer on Mineral conservation and beneficiation issues	the proposal given in the modification	There is no mineral conservation problems in the mine.	Nil

Environment:

Sl.No.	Item	Propasals	Actual work	Remarks
8a	Separate removal and utilization of topsoil (Rule 32)	generation	No top soil was generated from the mine during the year 2016-17.	Nil
8b	Concurrent use or storage of topsoil	No such proposal.	No top soil gerenated from the mine during the year 2016-17.	Nil

3	3c	Separate dumps for overburden, waste rock, rejects and fines (Rule 33)	The overburden & waste materials generated was proposed for dumping in Dump-B & Dump-C as envisaged in the modification of approved scheme of mining.	During the year 2016-17, dumping was done in Dump-B & Dump-C as per the proposal.	Nil
3	3d	Use of overburden, waste rock, rejects and fines dumps for restoring the land to its original use	The part of the overburden & waste was proposed to be back filled in mined out poretions of Chattan pit as envisaged in the modification of approved scheme of mining in the year 2016-17.	During the year 2016-17, the backfilling for part of Chattan pit was undertaken.	Nil
8	3e	Phased restoration, reclamation and rehabilitation of lands affected by mining operations (Pits, dumps etc)	Phased restoration was not proposed. However, phsed reclamation for Chattan pit was proposed during the year 2016-17.	The portion of mined out areas of the Chattan pit was back filled.	Nil

8f	Baseline information on existence of plantation and additional plantation done (Rule 41)	Status of existing plantation has not been given in the approved document. However, 6000 nos. of planmtation was proposed in the bacfilled area of Chattan pit in the year 2016-17.	During the year 26000 nos. of saplings were planted within the lease area.	Nil
8g	Survival rate	The plantation of 6000 saplings were peoposed on the backfilled area & survival rate of plantation has not been furnished in the approved document.	The survival rate of plantation is about 85% during the year 2016-17.	Nil
8h	Water sprinkling on roads to control airborne dust	sprinkling was proposed on	Water sprinkling was a regular practice in the mine as found during the field visit of the area.	Nil
8i 	General remarks of inspecting officer on aesthetic beauty in and around mines area	No such specific proposal.	The austhetic beauty of the mine was enhanced by reclamation of the mined out areas and huge planation within & out side the lease area.	Nil
Comp	liance of Rule	45:		

Actual work

Remarks

Sl.No.

Item

Propasals

9a Status of The party has The party has submitted Nil to submit the all the monthly & annual submission of Monthly and monthly returns in the Annual returns returns in F- prescribed forms during 1, F-2 & the year 2016-17. annual returns in H-1 & H-2 as the mine for production of iron ore & manganese. 9h Scrutiny of The As the mine fall under Nil Annual return employment category -A(FM), full for information status opf time mining engineer, on Mining mining geologist & mine Engineer, managers were employed engineer, Geologist and geologist & in the mine. Manager mine manager have been furnished in the annual return submitted for the year 2016-17. 9c Scrutiny of As per the The land use status The land use Annual return on annual return furnished in the annual status furnished land use pattern 2016-17, an return 2016-17 is found in the annual for area under extent of to be in order. return 2016-17 is pits, reclaimed 57.266ha of found to be in area, dumps etc. area has been order. covered by current opencast working, an extent of 9.640ha has been utilised for waste disposal, an extent of 4.758ha occupied by plant, buidling s etc., and an extent of 11.560ha has been utilised

for green belt
& mineral
storage.

9d	Scrutiny of Annual return on afforestation	_	The status of plantation furnished in the annual return is in order.	Nil
9e	Scrutiny of Annual return on mineral reject generation (Grade and quantity)		The mineral rejects/low grade generated has been processed through dry screening to make them salable.	Nil
9f		year 2016-17, 1089416.100	The production figures furnished in the annual returns are verified & found to be correct.	Nil

9g Scrutiny of The grade wise The ex-mine price & cost Nil Annual return on ex-mine price of production furnished sale value, Ex. for iron ore in the annual return is indicated in found to be in order. Mine price and production cost the annual return is as given below: (i) Grade (Lumps): 55-58% Fe (Rs. 1000/-), 58-60%Fe (Rs.1000/-),60-62%Fe (Rs.1039.75), 62-65% Fe (Rs.1014.39) (ii) Grade (Fines): 55-58%Fe (Rs.1600.22), 60-62%Fe (Rs. 948.00) & 62-65% Fe (Rs.951.91). The cost of production for iron ore is mentioned to be Rs. 663.89. Grade wise ex-mine price for manganese is as given below:- 25-35%Mn.(Rs. 8536.92), 35-46%Mn(Rs. 12807.80), 46% & above (Rs. 12812.51). 9h The same was available Scrutiny of The total Nil Annual return on value of the for verification during fixed assets fixed assets the inspection. at the end of the year 2016-17 is mentioned to be for Rs.

229211410.

9k Scrutiny of The mining The deployment status of NilAnnual return on machineries the mining machineries & mining like hydraulic other machineries, machineries excavators equipments furnished in 1.2cum/1.6cum/ the annual return are 1.9cum/2.5cum appears to be correct. (8nos.), loader 2.0cum (4 nos.), Tipper 20 tonner (23 nos.), Dozer160HP (1no.), rock breakers (3 nos.) water tanker 12000ltrs(2 nos.),Mobile crusher 150tph (1set), Screen plant 250tph/150tph (3 nos.) etc. are given in the annual return submitted for the year 2016-17.

Details of violations observed during current inspection and compliance position of violation pointed out

Violation	n observed			Show	couse position
Rule NO.	Issued on Compliance	e on	Rule	NO.	Issued on Compliance on
MCDR17 Rule 11(1)	21/07/2017		MCDR17	Rule	11(121/07/2017

Date: (SHRI G.C. SETHI)

Indian Bureau of Mines