INDIAN BUREAU OF MINES MINERALS DEVELOPMENT AND REGULATION DIVISION

MCDR INSPECTION REPORT

Bhubaneshwar regional office

Mine file No : ORI/IRON/KJR/MCDR-43/BBS Mine code : 300RI08040

(i) Name of the Inspecting: U11) DAYANAND UPADHYAY

Officer and ID No.

(ii) Designation : Sr. Asst. Contrl. Mines

(iii) Accompaning mine : Shri Ashok Kumar Bhuyan, Agent

Official with Designation

(iv) Date of Inspection : 03/11/2017
(v) Prev.inspection date : 27/07/2015

PART-I : GENERAL INFORMATION

1. (a) Mine Name : NUAGAON

(b) Registration NO. : IBM/4132/2011

(c) Category : A Mechanised

 $\text{(d)} \quad \text{Type of Working} \qquad \qquad \text{:} \quad \text{Opencast}$

(e) Postal address

State : ORISSA

District : KEONJHAR

Village : GUALI

Taluka : BARBIL

Post office : GUALI

Pin Code : 758035

FAX No. : 06767-270049

E-mail : kjsahluwalia@rediffmail.com
Phone : 06767-270048, 9437041818

(f) Police Station : Barbil

(g) First opening date : 01/01/1959

(h) Weekly day of rest : SUN

2. Address for : VILL% PO: GUALI

correspondance POLICE STATION :BARBIL

DIST: KEONJHAR, ORISSA, PIN: 758035

3. (a) Lease Number : ORI0070 (b) Lease area : 767.28

(c) Period of lease : 20

(d) Date of Expiry : 03/03/1999

4. Mineral worked : IRON ORE Main

5. Name and Address of the

Lessee : K.J.S.AHLUWALIA

AT/PO.BARBIL KEONJHAR

ORISSA Phone: FAX :

Owner : K.J.S AHLUWALIA

AT/PO. BARBIL P.B NO.3

KEONJHAR ORISSA

Phone: 06767 75348,756 FAX : 06767-30348, 30

Mining Engineer

Name : Manoj Kumar, Full Time

Qualification : BE Mi ning Appointment/ : 12/08/2012

Termination date

Geologist

Name : RANJAN KUMAR MOHARANA, Full Time

Qualification : Msc. Applied Geology

Appointment/ : 08/08/2016

Termination date

Manager

Name : Sahadat Mandal

Qualification : Diploma in Mining Engg, FCC

Appointment/ : 16/09/2011

Termination date

6. Date of approval of Mining Renewal under rule 22 MCR1960 10/05/2005 Plan/Scheme of Mining Modif.approved Mining Scheme 15/10/2007 Modif.approved Mining Scheme 23/10/2008 Mining Scheme rule 12 MCDR1988 23/06/2009 Modif.approved Mining Scheme 18/08/2010 Mining Scheme rule 12 MCDR1988 05/07/2013 Mining Scheme rule 12 MCDR1988 22/07/2014

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PART - II : OBSERVATION/COMMENTS OF INSPECTING OFFICERS

Exploration :

Sl.No.	Item	Proposals	Actual work	Remarks
1a	Backlog of previous year	Nos. of boreholes proposed to be drilled in 2016-17 was 32 Nos.	Actual Nos. of boreholes drilled in 2016-17 was 64 Nos of boreholes.	Form J has been submitted on 20.04.2016 for 108 Nos of boreholes covering backlog of previous years 2014-15 & 2015-16.
1b	Exploration over lease area for geological axis or 2	In the approved scheme of mining, a tentative exploration proposal has been worked out for the entire lease area in regular grid pattern for assessing the total mineral reserves/reso urces as per the CCOM's guidelines under UNFC.	Area Explored under UNFC limit of G1 is 210.30 Ha; Area Explored under UNFC limit of G2 is 88.360 Ha; Thus. total area explored under UNFC limit of G1 & G2 is 298.66 Ha	the quarterly status of reports
1c	Exploration Agencies and Expenditure in lakh rupees during the year	Not Proposed	Exploration Agency: M/s Thriveni Exploration Agency and M/s Geo Exploration Pvt Ltd Expenditure: Rs 247 lakhs	

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

In the approved scheme of mining, a total of 197 boreholes have been proposed over the entire area including the inferred nonmineralised area to prove presence or absence of mineralisatio n in the area.

Balance area to be explored to bring to Geological axis 1 or 2 is 415.472 Ha.

Total Lease area: 767.284 ha of which G1 is 210.30 Ha, G2 is 88.36 ha, G3 is 95.03 Ha, Explored and found Nonmineralised is 53.152 ha and unexplored lease area is 320.442 Ha. It has been observed during inspection that the drilling is under progress.

1e Balance reserve as on 01/04/20

Balance Reserve as on 01.04.2017as per the annual return form H1 submitted for the period for the period 01.04.2016 to 31.03.2017 01.04.2016 to under 111 category is 55 31.03.2017 is 52 million tonne and 121 category is 58 million tonne.

Remaining Resources as per the annual return million tonnes

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

It has been observed during inspection that the drilling is under progress. Also, the Form J has been submitted on 20.04.2016 for 108 boreholes covering the backlog of previous years i.e, 2014-15 & 2015-16.

Development :

Sl.No. Tt.em Propasals Actual work Remarks

Location of 2a development w.r.t.lease area six blocks.

Development proposed in 1.Barapada Block between coordinates 400N to 800S, 200E to 800E 2.Katasahi Block between coordinates 400S to 950S, 3.Topadihi coordinates 4.Dumka Block 120W between coordinates 120N to 500N, 330W to 800W 5.Kanhusahi Block between coordinates 1720S to 1400S, 400W to 100W 6.Guali Block between coordinates 1880N to 2100N, 150E to 350E

Development done in five blocks within following limits. 1.Barapada Block between coordinates 380N to 800S, 200E to 800E 2.Katasahi Block between coordinates 420S to 950S, 1900E to 2200E 3. Topadihi Block between coordinates 1730N to 420N, 80W to 1010E 1900E to 2300E 4.Dumka Block between coordinates 200N to Block between 500N, 350W to 800W 5.Kanhusahi Block 1730N to 400N, between coordinates 100W to 1060E 1660S to 1450S, 380W to 6. Guali Block was not operated.

(a). Guali Quarry was not operated as per the proposal for the year 2016-17. (b) In Chanaguda pit, benches have not been developed in Southwest and South East Direction as per development plan of 2016-17 (ref. Plate No.8A of approved Scheme of Mining). In B.Top Quarry, the development of the benches has not been done as per development plan of 2016-17 (ref. Plate No.8A of approved Scheme of Mining). The short comings has been informed to lessee by violation letter dated 26.07.2017.

2b Separate benches Separate in topsoil, overburden and minerals (Rule 15)

benches in OB & Ore.

soil. Barpada Block: OB-2 bench, Ore-10 bench; Katasahi Block: OB-2 bench, Ore- 6 bench; Topadihi block: OB-3 bench, Ore- 9 bench; Dumka block: OB-1 bench, Ore-10 bench; Kanhusahi block : OB-1

bench, Ore- 7 bench;

There is no bench in top

Separate benches in OB and Ore has been maintained.

2c	Stripping ratio or ore to OB ratio	Stripping ratio proposed for 2016-17 was 1:0.038	Stripping ratio achieved for 2016-17 was 1:0.018	Generation of OB was less @ 0.0523 MCum gainst the plan of 0.235 MCum in 2016-17.
2d	Quantity of topsoil generation in m3	Not Proposed.	Not Applicable.	
2e	Quantity of overburden generation in m3	Quantity of Overburden generation proposed during 2016-17 was 0.235 (M.cum)	Actual Overburden generated during 2016-17 was 0.0523 (M.cum)	The actual OB material generated during 2016-17 was 0.0523 (M.cum) which is less than proposed for the year. The short comings has been informed to lessee by violation letter dated 26.07.2017.
2f	General remarks of inspecting officers on development of pit w.r.t. type of deposit etc			The mining is done by open cast method in five blocks namely Barpada block, Katasahi block, Topadihi Block, Dumka Block and Kanhusahi Block. The workings in number of quarries are being done due to discontinous patchy occurance of ore bodies within the lease area. Guali Quarry was not operated as per the proposal for the year 2016-17.

Actual work

Remarks

Exploitation:

Item

Propasals

Sl.No.

3a	Number of pit proposed for production	Number of pits proposed for production in 2016-17 was 11 Nos.	Actual numbers of pits put for production in 2016-17 was 8 Nos.	Actual Nos. of pits put in production was 8 Nos except D-Top pit in Dumka Block, Kanhusahi pit in Kanhusahi Block and Guali pit in Guali Block which were not operated. The short comings has been informed to lessee by violation letter dated 26.07.2017.
3b	Quantity of ROM mineral production proposed	Production Proposed during the year 2016-17 is 6585320 MT	Actual Production achieved during the year 2016-17 is 5614000 MT	EC over 767.284 Ha ML area for a production capacity of 5.62 MTPA has been obtained on 02.02.2010.
3c	Recovery of sailable/usable mineral from ROM production	Recovery of Saleable Ore during the period 2016-17 will be 70%.	The recovery of saleable ore during the period 2016-17 achieved is 93.68%.	
3d	Quantity of mineral reject generation	1175950 MT in 2016-17.	There is no mineral reject generation reported from ROM as these have been blended with high grade ROM.	

Grade of mineral Grade of rejects generation and threshold value declared.

Mineral Rejects generation is 45-58% Fe. Threshold Value declared is below 45% Fe

No subgrade/mineral reject generation has been reported for the year 2016-17. Threshold Value is below 45% Fe

3f Quantity of sub grade mineral generation.

2016-17

1175950 MT in Production of Subgrade Fines 1.Below 55% Fe is 334170.00 MT 2 Between 55% Fe to below 58% Fe is 20740 MT Thus, total fines below 58% Fe content produced is 354910MT

The subgrade/mineral reject generated during the year has been blended with high grade. The subgrade or mineral reject stack register along with grade is not maintained properly and not made available during inspection. The short comings has been informed to lessee by violation letter dated 26.07.2017.

Subgrade mineral generation was less as the workings were confined to lower mine faces in the pit where inherently the grade are better. It has been observed during inspection that the subgrade dump no-16 has extended around 20-25 m in eastern direction along the section line 900 S in between grids 500E to 600E and 800 S to 1000S. It has been observed during inspection that protective measures such as garland drain and retaining wall were not present at places to prevent the flow of material.

Grade of sub 3q Grade of Grade of subgrade grade mineral subgrade mineral generation is generation mineral between 45-58% Fe. generation is between 45-58% Fe. 3h Manual / Mechanised Mechanised Method. Mechanised Method method adopted for segregating from ROM 3i Any analysis or Not Proposed Not Applicable. beneficiation study proposed and carried out for sub grade mineral and rejects. 3 ј Provision of Blastholes of Drilling is being done drilling and 115mm dia up by 105mm to 115mm dia blasting in to around drill machines. Blasting mineral benches 6.6/8.8m deep is being carried out by are to be using the NONEL drilled by technology and proper number of blast design firing wagon drills pattern along with powered by 450 proper implementation cfm and supervision of total compressors. blasting operations. Blasting to be done by OCG & PG combination for which nonel & excel detonators are to be used. 3k Provision of Drilling The machinaries mining machine:104mm available at the site machineries in dia -1Nos, were drilling machine: mineral benches 115mm dia -104mm dia -1Nos, 115mm lNos. dia -1Nos; Excavator 0.9 Excavator 0.9 cum to 4.3 cum capacity cum to 4.3 cum -10 Nos; Dumper 20T to capacity -10 35 T capacity: 40Nos; Dozer-2 Nos. Nos. Dumper 20T to 35 T capacity:

40Nos.

Dozer-2 Nos.

31 Whether height of benches in overburden and mineral suitable proposed for method of mining proposed and Kanusahi in MP/SOM

During the in the Barpada block mining. Block, it has been planned to develop the benches with 8m height and 15m width and in other blocks the height of the benches will be 6m and 12m

Yes, the height of the year 2016-17, benches in overburden and mineral is suitable for proposed method of

3m Total area covered under excavation/pits 188.637 Ha during approved scheme period.

width.

About 178.226 Ha has been covered under excavation/pits.

Ore to OB ratio 3n for the pit/mine during the year.

1:0.038

1:0.018

Actual Overburden material generated during 2016-17 was 0.0523 (M.cum).

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

in use under different heads at the 19): 188.637Ha, OB 4.427 Ha. dump-10.865 Ha, Sub-Grade/ Minerals Storage-61.350 Ha; Infrastructure with road -21.523 Ha; Mineral Separation Plant -6.000Ha, Township Area-3.290 Ha, Magazine-0.077 Ha, Plantation-28.100 Ha,

Total area put Area covered under different heads are: Mine working -178.226 Ha, OB dump-5.790 Ha, end of scheme Infrastructure with road period (2018- -13.717 Ha, Reclamation -5.238 Ha, Others- 93.40 Mine working - Ha, Plantation etc.-

Area covered under different heads are: Mine working -178.226 Ha, OB dump-5.790 Ha, Infrastructure with road -13.717Ha, Reclamation -5.238 Ha, Others-93.40 Ha, Plantation etc.-4.427 Ha.

3р Production of ROM mineral during the last five year period 6.493 million tonne as applicable

ROM proposal 2014-15 is tonne ROM proposal 2015-16 is 6.584 million tonne

Reclamation -2.218 Ha

Actual ROM production for the period during the period 2014-15 is 1.066 million Actual ROM production during the period 2015for the period 16 is 4.074 million tonne

The approved scheme of mining is for the period 2014-15 to 2018-19. The EC over 767.284 Ha of ML area for a production capacity of 5.62 MTPA has been obtained on 02.02.2010.

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

ROM production is from five blocks covering eight pits. Based on the nature of deposit, the scientific method of mining is practiced.

Sl.No.	Item	Propasals	Actual work	Remarks
4a	Separate dumping of topsoil, OB and mineral rejects (Rule 32,33)	OB generated shall be dumped into three nos. of waste dumps namely PD1, PD2 and PD3.	The part of the OB generated during the year 2016-17 has been stacked in the Waste dump no. PD/3.	The generation of Top Soil is Nil.
4b	Location of topsoil, OB and mineral reject dumps	Quarry, Dump	In total there are four numbers of OB dumps within lease area. Dump No PD/3 located in Katesahi Block and three other dumps no-27, 28 & 30 is located near Udalwari Quarry which are inactive now.	There is no top soil dump. Mineral reject generated during 2016-17 hasa been blended with high grade ore.
4c	Number of dumps within lease area and outside of lease area	There were three nos. of dumps at the end of last approved mining scheme namely Dump No-27, 28 & 30 in Udalbari Quarry. In the current scheme period it is proposed to dump OB material in three new waste dumps namely PD1 at MDH Quarry, PD2 and Barpada Bottom & PD3 at Katesahi Block.		

Existing three dumps at Udalbari Quarry and one new dump at Katesahi

block

4d	Location of dumps w.r.t. ultimate pit limit (Rule 16)	scheme period	All the four numbers of dump are located outside the ultimate pit limit.
4e	Number of active and alive dumps.		At present there is no active dump. All the four dumps have been stabilised.
4f	Number of dead dumps.	Not Proposed.	At present there are four nos. of dead dumps. Three nos Dump No 27, 28 and 30 near Udalbari Quarry and one dump no PD/3 at Katesahi Block.
4g	Number of dumps established.	There are three numbers of dumps stabilized at Udalbadi Quarry.	At present, four numbers of dumps have been stabilised.
4h	Whether Retaining wall or garland drain all along dumps are there.	During the year 2016-17, construction of garland drain has been proposed for 600mx 1m x 1.5 m and retaining wall over	Garland drain has been constructed over 750 mx 1m x 1m and retaining wall over 550mx1mx2m.

550mx1mx2m.

4i	Length of Retaining wall or garland drain all along dumps	17 proposed	Retaining wall and garland drain has been constructed as per proposal. Retaining wall has been constructed of 550m X 2m x 1m and Garland drain of 750m x 1m x 1.5m	Cummulative length of retaining wall is 6650m and cummulative length of garlain drain is 7550m.
4j	Number of settling ponds	During the year 2016-17, only maintenance of settling ponds is proposed.	Settling ponds have been maintained. Cummulative there are six (06) nos. of settling ponds.	
4k	Specific comments of inspecting officer on waste dump management			Waste dumps have been properly managed in the mine. To avoid the erosion and rain slides application of natural geotextiles such as coir matting has been undertaken. Slope of the dead dumps have been stabilised by plantation.

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.	- · · · · · · · · · · · · · · · · · · ·	During the year 2016-17, backfilling has been done over 1.218 Ha in Udalbari Quarry.	
5b	Area under backfilling of mined out area	0.535 Ha in Udalbari	1.218 Ha area in Udalbari has been backfilled.	

5c	Concurrent use of topsoil for restoration or rehabilitation of mineral out area (Rule 32)	It has been proposed that if top soil is encounterd then it wil be stacked separetely and utilised for plantation.	
5d	Total area fully reclaimed and rehabilitated	habiltation	
5e	General remarks of inspecting officers on backfilling and reclamation etc.		There is no generation of top soil during the year 2016-17. Reclamation in the 2016-17 done over 1.218 Ha Udalbadi Quarry.

Progressive Mine Clousre Plan:

Sl.No.	Item	Propasals	Actual work	Remarks
ба	Whether Annual report on PMCP submitted on time and correctly. Rule 23 E(2).	Not Proposed	Annual Report on PMCP has been submitted.	Annual Report on PMCP has been submitted to this office.
6b	Area available for rehabilitation (ha) .	1.302 На	1.218 Ha in Udalbari Quarry (1.218 Ha) & 1 Ha in Gangeiguda Quarry.	
6c	afforestation done (ha).	4.452 На	In the year 2016-17, 6.517 Ha of afforestation has been done.	
6d	No. of saplings planted during the year		In the year 2016-17, 9282 nos of saplings have been planted within lease area & 2000 nos of saplings planted outside the lease area.	

бе	Cumulative no .of plants	Not Specified	Cummulative nos. of saplings planted is about 286346 nos upto 30.06.2017.
6f	Any other method of rehabilitation	Not proposed.	Not applicable.
6g	Cost incurred on watch and care during the year	10.648 lakhs	10.00 lakhs
6h	Compliance on reclamation and rehabilitation by backfilling (i) Voids available for backfilling (Lx B x D	5350 sq.m area with 28 m height in Udalbari.	13200 sq.m with 18 m height at Udalbari.
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	1.302 ha with 2084 nos. of saplings.	Cummulative afforestation of backfilled area over 1.218 ha with 927 nos of saplings in Udalbari Quarry.
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	Not Applicable	
6n	Compliance of rehabilitation of waste land within lease (ii)Area rehabilitation (ha)	Not Proposed.	Not Applicable.	
60	Compliance of rehabilitation of waste land within lease (iii)Method of rehabilitation	Not Proposed.	Not Applicable.	
бр	Compliance of environmental monitoring (core zone and buffer zone)	Quaterly Monitoring.	Quaterly monitoring of air, water and noise level are being carried out.	
6q	General remarks of inspecting officers on PMCP compliance and progressive closure operations etc.			Cummulative afforestation of backfilled area over 1.218 ha with 927 nos of saplings in Udalbari Quarry. Quaterly monitoring of air, water and noise level are being carried out.

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.	No proposal	Mechanical	

7c	Different grade of mineral sorted out at mines.	Yes	Yes	
7d	Any beneficiation process at mines .		-	
7e	General remarks of inspecting officer on Mineral conservation and beneficiation issues			The Mineral reject generated from ROM has been blended with high grade ROM. However, the beneficiation plant setup of 2.0 MTPA was not operated during the year 2016-17.

Environment:

Sl.No.	Item	Propasals	Actual work	Remarks
8a	Separate removal and utilization of topsoil (Rule 32)	and when	In 2016-17, the top soil generation was nil and hence there was no utilisation of top soil.	
8b	Concurrent use or storage of topsoil	Top soil as and when generated shall be stored and utilized for plantation program.	In 2016-17, the top soil generation was nil and hence there was no utilisation of top soil.	
8c	Separate dumps for overburden, waste rock, rejects and fines (Rule 33)	of OB, Mineral rejects and fines stock	Separate dumping of OB, fines have been carried out as per proposal. Mineral rejects generated during the period 2016-17 has been utilised.	

8d	Use of overburden, waste rock, rejects and fines dumps for restoring the land to its original use	that around 1.922 M.CuM	The waste rock/OB generated is being utilised for repairing of roads and also backfilling of the mined out area.
8e	Phased restoration, reclamation and rehabilitation of lands affected by mining operations (Pits, dumps etc)	During the year 2016-17, it has been proposed to reclaim/rehabi litate 1.987 Ha by means of backfilling and plantation.	During the year 2016-17, 2.368 ha has been reclaimed.
8f	Baseline information on existence of plantation and additional plantation done (Rule 41)	Not specified	Plantation during the year 2016-17 was 112852 nos. and cummulative till 30.06.2017 is 286346 Nos.
8g	Survival rate	Not specified	Around 75%.

8h on roads to

shall be shall be revolving water spraying system on some of the roadsides and over dump for suppression of dust which has been installed. Installation of automatic water spraying system all along the haul roads shall be done in phased manner during the scheme period.

Water sprinkling Water spraying The lessee has fitted 2900m length fixed water control airborne continued and sprikler along the haul plantation road. Besides one 8KL, shall be done. one 15 KL, one 16 KL and Water spraying 4 nos of 12 KL water tankers are frequency carried out by used for spraying water automatic and on haul road and quarry area.

8i General remarks of inspecting officer on aesthetic beauty in and around mines area

The aesthetic beauty in and around mines area has not been unduly affected by mining.

Compliance of Rule 45:

Sl.No.	Item	Propasals	Actual work	Remarks
9a	Status of submission of Monthly and Annual returns	The monthly returns and annual return are being regularly submitted by the lessee.	The annual return for 2016-17 has been submitted by the lessee.	

9b	Scrutiny of Annual return for information on Mining Engineer, Geologist and Manager	Graduate Mining engineer-4, Diploma Mining Engineer-12, Geologist-1.	Graduate Mining engineer-4, Diploma Mining Engineer-12, Geologist-1.
9c	Scrutiny of Annual return on land use pattern for area under pits, reclaimed area, dumps etc.	different heads are Pit- 178.226 ha, Waste	Area covered under different heads are Pit-178.226 ha, Waste disposal-5.79 ha, Plant, residential, buildings & roads-13.717 ha & others-93.4 ha.
9d	Scrutiny of Annual return on afforestation	Total 11282 nos. saplings have been planted in 2016-17	Total 11282 nos. saplings have been planted in 2016-17
9e	Scrutiny of Annual return on mineral reject generation (Grade and quantity)	Nil	In 2016-17, subgrade has been blended with high grade ore.

9f Scrutiny of ROM stock and/or (in tonne) graded ore

Closing Stock Closing Stock at mine Annual return on at mine head head (in tonne) 1.Lump: 1.Lump: a) Below 55% Fea) Below 55% 411221.57 T Fe- 411221.57 b) 55% to below 58% Fe-Nilb) 55% to c) 58% to below 60% Febelow 58% Fe- Nil Nil d) 60% to below 62% Fec) 58% to 36862.38 T below 60% Fe- e) 62% to below 65% fe-Nil 372403.87T d) 60% to f) 65% Fe and above below 62% Fe- Nil 36862.38 T 2.Fines: e) 62% to a) Below 55% Febelow 65% fe- 599719.87 T 372403.87T b) 55% to below 58% Fef) 65% Fe and 2735903.21T above - Nil c) 58% to below 60% Fe-2.Fines: 69066.94T a) Below 55% d) 60% to below 62% Fe-Fe- 599719.87 50614.86T Τ e) 62% to below 65% Feb) 55% to 4021914.13T below 58% Fe- f) 65% Fe and above -2735903.21T Nil c) 58% to below 60% Fe-69066.94T d) 60% to below 62% Fe-50614.86T e) 62% to below 65% Fe-4021914.13T f) 65% Fe and above - Nil

9g Scrutiny of 1.Lump: 1.Lump: Annual return on Below 55% Fe: Below 55% Fe: Ex-mine sale value, Ex. Ex-mine price price (in Rs per tonne) Mine price and (in Rs per is Rs 593.00 production cost tonne) is Rs 60% to below 62% Fe: Ex-593.00 mine price (in Rs per 60% to below tonne) is Rs 2102.00 62% Fe: Ex-62% to below 65% Fe: Exmine price (in mine price (in Rs per Rs per tonne) tonne) is Rs 2102.00 is Rs 2102.00 2. Fines Ex-mine price 62% to below (in Rs per tonne): 65% Fe: Ex-Below 55% Fe:Rs 686.00 mine price (in 55% Fe to below 58% Rs per tonne) Fe:Ex-mine price (in Rs is Rs 2102.00 per tonne) is Rs 860.00 2. Fines Ex-58% Fe to below 60% mine price (in Fe:Ex-mine price (in Rs Rs per tonne) per tonne) is Rs 886.00 60% Fe to below 62% Below 55% Fe:Ex-mine price (in Rs Fe:Rs 686.00 per tonne) is Rs 1256.00 55% Fe to 62% and above: Rs below 58% 1300.00 Fe:Ex-mine price (in Rs per tonne) is Rs 860.00 58% Fe to below 60% Fe:Ex-mine price (in Rs per tonne) is Rs 886.00 60% Fe to below 62% Fe:Ex-mine price (in Rs per tonne) is Rs 1256.00 62% and above: Rs 1300.00 9h Scrutiny of As per annual As per annual return Annual return on return 2016- 2016-17, the Value of fixed assets 17, the Value Fixed Assets (in Rs) is of Fixed 105916840. Assets (in Rs)

is 105916840.

9k Shovel (Hydraulic)-10 Scrutiny of Shovel Annual return on (Hydraulic)-10 Nos, Front End Loader-11 mining Nos, Front End Nos, Dumper-40 Nos, machineries Loader-11 Nos, Rock Drill (Non-elect)-2 Dumper-40 Nos, Nos, Water Tanker -12Rock Drill Nos, Dozer-2 Nos etc. (Non-elect)-2 Nos, Water Tanker -12 Nos, Dozer-2 Nos etc.

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Details of violations observed during current inspection and compliance position of violation pointed out				
Viola	tion observed	Show couse position		
Rule NO.	Issued on Compliance on	Rule NO.	Issued on Compliance on	

Date : (DAYANAND UPADHYAY)

Indian Bureau of Mines