

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

**MCDR INSPECTION REPORT**

**Bhubaneswar regional office**

Mine file No : ORI/IRON/MB/MCDR- 11/BBS

Mine code : 30ORI10005

- (i) Name of the Inspecting : DEY ) NARENDRA MOHAN DEY  
Officer and ID No.
- (ii) Designation : Assistant Mining Engineer
- (iii) Accompanying mine : SHRI B R NAYAKM MINES MANAGER, A SAMANTA, MINING ENGI  
Official with  
Designation
- (iv) Date of Inspection : 27/09/2016
- (v) Prev.inspection date : 09/07/2016

**PART-I : GENERAL INFORMATION**

1. (a) Mine Name : GORUMAHISANI
- (b) Registration NO. :
- (c) Category : A Other than Fully Mech.
- (d) Type of Working : Opencast
- (e) Postal address  
State : ORISSA  
District : MAYURBHANJ  
Village : GORUMAHISANI  
Taluka : RAIRANGPUR  
Post office : GORUMAHISANI  
Pin Code : 757042  
FAX No. :  
E-mail :  
Phone : 274219 (O), 274204 (R)
- (f) Police Station :
- (g) First opening date : 07/01/1970
- (h) Weekly day of rest : TUE
2. Address for : AT/PO.GORUMAHISANI  
correspondance : TALUK.BAMANGHATY  
DIST.MAYURBHANJ, ORISSA, PIN.757042
3. (a) Lease Number : ORI0118
- (b) Lease area : 1435.3
- (c) Period of lease : 30
- (d) Date of Expiry : 06/01/2000
4. Mineral worked : IRON ORE Main

5. Name and Address of the

Lessee : GHANASYAM MISHRA & SONS  
7-WATER COOL STREET  
CALCUTTA WEST BENGAL  
KOLKATA WEST BENGAL  
Phone:  
FAX :

Owner : G.S.MISHRA & OTHERS  
AT/PO GORUMAHISANI  
MAYURBHANJ ORISSA  
Phone:  
FAX :

Agent : JAGADISH MISHRA  
MAYURBHANJ ORISSA  
Phone:  
FAX :

Mining Engineer

Name : J.MISJHRA, Full Time  
Qualification : AMIE MINING  
Appointment/ : 26/06/2002  
Termination date

Mining Engineer

Name : K. BHATTACHARYA, Full Time  
Qualification : B.E (MINING)  
Appointment/ :  
Termination date

Mining Engineer

Name : H.N.DAS, Full Time  
Qualification : AMIE  
Appointment/ : 13/05/2001  
Termination date

Geologist

Name : ABHIJIT SEN, Part Time  
Qualification : M.Sc (tech) APPLIED GEOLOGY  
Appointment/ :  
Termination date

Manager

Name : G.P. PATNAIK  
Qualification : DIPLOMA IN MINING  
Appointment/ :  
Termination date

Date of approval of Mining  
Plan/Scheme of Mining

: Renewal under rule 22 MCR1960	31/12/2001
Modif.of approved Mining Plan	09/11/2006
Mining Scheme rule 12 MCDR1988	11/10/2007
FMCP under 23C(1)	27/01/2010
Modif.of approved Mining Plan	29/01/2010
Mining Scheme rule 12 MCDR1988	16/03/2012
FMCP under 23C(1)	09/11/2015

Modif. approved Mining Scheme

10/03/2016

GE :



PART - II : OBSERVATION/COMMENTS OF INSPECTING OFFICERS

Exploration :

Sl.No.	Item	Proposals	Actual work	Remarks
1a	Backlog of previous year	55 NO OF BOREHOLE TO BE DRILLED 2015-16	NOT A SINGLE BH DRILLED DURING 2015-16.	VIOLATION CUM SHOW-CAUSE NOTICE ISSUED FOR DEVIATION OF THE PROPOSAL IN THE SCHEME OF MINING .
1b	Exploration over lease area for geological axis 1 or 2	DURING 2015-16 NUMBER OF BH TO BE DRILLED 55	NO BH HAS BEEN DRILLED DURING 2015-16 AS PER PROPOSAL.	HOWEVER LEASE AREA EXPLORED AS PER UNFC NORMS UNDER G1 LEVEL OVER 65 HA 65 BH (32 CORE & 33 NON-CORE) AT A GRID INTERVAL 50 M X 50 M, METERAGE DRILLED 2433 M. UNDER G2 LEVEL 55 HA, UNDER G3 LEVEL 32.7 HA, EXPLORED AND FOUND NON-MINERALISED 106.3 HA UNEXPLORED AREA 90.5 HA
1c	Exploration Agencies and Expenditure in lakh rupees during the year	NOT MENTIONED	NOT A SINGLE BH DRILLED DURING 2015-16 AGAINST THE PROPSAL OF 55 NO TO BE DRILLED .	
1d	Balance area to be explored to bring Geological axis in 1 or 2	BALANCE UNEXPLORED AREA TO BE DRILLED OVER 90.5 HA DURING 2015-16 TO 2016-17. DURING 2015-16 NO OF BH TO BE DRILLED 55 AND DURING 2016-17 NO OF BH TO BE DRILLED 83.	DURING 2015-16 NO BH HAS BEEN DRILLED DURING 2016-17 BH DRILLED 17 NOSAS ON DATE OF INSPECTION i.e 27.09.2016.	

RPN

1e	Balance reserve as on 01/04/20	AS PER UNFC UNDER 111 : 9.80 MILLION TONNE, 221: 8.57 MILLION TONNE ( 1.17 NON-MINEABLE + 7.40 SUB GRADE) = 18.37 MILLION TONNE AS ON 01.04.2015 AS PER APPROVED MODIFICATION OF SCHEME OF MINING ON 10.03.2016.	NO EXPLORATION HAS BEEN CARRIED OUT DURING 2015-16	
1f	General remarks of inspecting officers on geology, exploration etc	DURING 2015-16 AND 2016-17 NO OF BH TO BE DRILLED : 55 & 83 RESPECTIVELY	NO BH DRILLED DURING 2015-16.	EXPLORATION COMPLIANCE IS NOT SATISFACTORY , SO VIOLATION CUM SHOW-CAUSE NOTICE ISSUED TO THE MINE OWNER.

Development :

Sl.No.	Item	Propasals	Actual work	Remarks
2a	Location of development w.r.t.lease area	KOCHAR QUARRY, F-LEVEL QUARRY, KOCHAR TOP QUARRY AND KISUNTANKY QUARRY	KOCHAR QUARRY, F-LEVEL QUARRY, KOCHAR TOP QUARRY AND QUARRY	
2b	Separate benches in topsoil, overburden and minerals (Rule 15)	SEPARATE BENCHES IN OB AND ORE	SEPARATE BENCHES IN OB AND ORE	
2c	Stripping ratio or ore to OB ratio	1 : 0.28	1 : 0.28	
2d	Quantity of topsoil generation in m3	NIL	NIL HOWEVER CUMULATIVE GENERATED 19300 CUM	

2e Quantity of overburden generation in m<sup>3</sup> 148746 CUM 77723 CUM

2f General remarks of inspecting officers on development of pit w.r.t. type of deposit etc

PROPOSAL DURING 2015-16 :  
 F- LEVEL QUARRY ( 190 M X 28 M X 18 M )  
 KOCHAR QUARRY ( 322 M X 33 M X 24 M ) AND  
 KOCHAR TOP QUARRY ( 252 M X 23 M X 14 M )

F- LEVEL QUARRY ( 185 M X 28 M X 18 M )  
 KOCHAR QUARRY ( 315 M X 33 M X 23 M )  
 KOCHAR TOP QUARRY ( 235 M X 23 M X 14 M )

WITH REFERENCE TO THE TYPE OF DEPOSIT DEVELOPMENT IS SATISFACTORY.

Exploitation:

Sl.No.	Item	Propasals	Actual work	Remarks
3a	Number of pit proposed for production	THREE	THREE	
3b	Quantity of ROM mineral production proposed	750190 MT	259078 MT	
3c	Recovery of sailable/usable mineral from ROM production	2015-16: SALEABLE: 656885 MT SUB-GRADE: 328992 MT	SALEABLE: 244302 MT SUB-GRADE: 13513 MT (MINERAL REJECT TREATED AS SUB-GRADE)	
3d	Quantity of mineral reject generation	MINERAL REJECTS TREATED AS SUB-GRADE : 218609 CUM	MINERAL REJECTS TREATED AS SUB GRADE: 13513 .78 MT	
3e	Grade of mineral rejects generation and threshold value declared.	MINERAL REJECT LESS THAN 45% FE THRESHOLD VALUE MORE THAN 50% FE	MINERAL REJECT LESS THAN 45% FE THRESHOLD VALUE MORE THAN 50% FE	
3f	Quantity of sub grade mineral generation.	328992 MT	13513.78 MT	

- 3g Grade of sub grade mineral generation ORE HAVING FE% +45% TO -58% FE FROM 45% TO 58% HAS BEEN TREATED AS SUB GRADE
- 3h Manual / Mechanised method adopted for segregating from ROM MANUAL AND MECHANISED MANUAL AND MECHANISED
- 3i Any analysis or beneficiation study proposed and carried out for sub grade mineral and rejects. NO IRON ORE DEPOSITS OF THIS MINE IS MAINLY MAGNETITE ORE. THE IRON ORE PRODUCED FROM WORKING QUARRIES ARE HIGHLY MAGNETITE. THE QUALITY OF MAGNETIC PROPERTY IS FOUND HIGHER IN HIGH GRADE ORE AND LOWER IN LOW GRADE ORE. IRON ORE BEING MAGNETITE IN NATURE IS NOT SUITABLE FOR SPONGE IRON MAKING. THIS ORE IS MAINLY USED IN BLAST FURNACE WHERE IT IS MAINLY BLENDED WITH HAEMATITE ORE IN PROPORTION NOT EXCEEDING MORE THAN 25% OF MAGNETITE ORE. MAIN REQUIREMENT OF IRON ORE IS 10 TO 40 MM IN SIZE. AS THE RAISING OF IRON ORE WAS DONE MAINLY BY WORKERS THEY USED TO LEAVE LESS THAN 0-10 MM SIZE ORE IN DUMPS. THIS ORE IS NOT POSSIBLE TO RECOVER FROM OLD DUMPS AND ALSO FROM THE WORKING DUMPS. AS THE ORE IS MAGNETITE IN NATURE AFTER SEVERAL TRIAL BY DIFFERENT CAPACITY OF MAGNETE IT WAS OBSERVED THAT BY USING HIGH POWER MAGNETE HAVING MAGNETIC INTENSITY FROM 4000 TO 5000 GAUSS 0-10MM SIZE ORE CAN BE RECOVERED FROM THE OLD DUMPS. THUS FROM THE WASTE DUMPS RECOVERY OF 0-10 MM SIZE IRON ORE WILL
- 3j Provision of drilling and blasting in mineral benches DRILLING AND BLASTING PROPOSED FOR HARD ROCK MASS. DRILLING IS DONE BY WAGON DRILL MACHINE OF 100 MM DIA WITH BURDEN 2.5 M, SPACING 3.0 M AND BLASTING LENGTH/BENCH HEIGHT 6.0 M WITH SUB-GRADE DRILLING 0.6 M

3k	Provision of mining machineries in mineral benches	YES	JCB EXCAVATOR CAPACITY 0.5 MT 3 NOS, HITACHI EX-100 OF CAPACITY 0.6 ONE NO., VOLVO -240 EXCAVATOR OF CAPACITY 0.9 NO.8., CATT-320 DL OF CAPACITY 0.9 ONE NO., LOADER -2021 (H) OF CAPACITY 1.17 ONE NO., LOADER JCB 432 OF CAPACITY 1.19 ONE NO., DUMPER OF CAPACITY 10 TONNE 24 NOS., ETC.
3l	Whether height of benches in overburden and mineral suitable for method of mining proposed in MP/SOM	YES,	HEIGHT OF BENCHES IN OB AND IN ORE ARE 6 TO 7 M , SUITABLE FOR METHOD OF MINING AS PROPOSED IN THE SCHEME OF MINING.
3m	Total area covered under excavation/pits	61 HA	61 HA
3n	Ore to OB ratio for the pit/mine during the year.	1 : 0.28	1 : 0.28
3o	Total area put in use under different heads at the end of year	COVERED UNDER CURRENT WORKING : 61 HA, WASTE DISPOSAL: 12.35 HA, OCCUPIED BY ROAD BUILDING ETC : 35.342 HA OTHERS ( SUB-GRADE STACK, BREAKING YARD) : 15.94 HA =124.63 HA	COVERED UNDER CURRENT WORKING : 61 HA, WASTE DISPOSAL: 12.35 HA, OCCUPIED BY ROAD & BUILDING ETC: 35.342 HA, OTHERS ( SUB-GRADE STACK, BREAKING YARD) 15.94 HA =124.63 HA
3p	Production of ROM mineral during the last five year period as applicable	2012-13: 769819 MT, 2013-14: 773602 MT, 2014-15: 773929 MT 2015-16 : 750190 MT, 2016-17 : 749050 MT	2012-13: 461741 MT, 2013-14: 569811 MT, 2014-15: 663039 MT , 2015-16: 259078 MT, 2016-17: 251424 MT (AS ON DATE OF INSPECTION)



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

THIS MINE IS CATEGIRISED  
AS A OTFM MINE  
DEPLOYMENT OF 100MM DIA  
DTH DRILLS, 05 CUM TO  
0.9 CUM SHOVELS, 10 TO  
30T CAPACITY DUMPER ETC.  
HEIGHT AND WIDTH OF  
BENCHES HAVE BEEN  
MAINTAINED AT 6 TO 9 M  
AND 6 TO 10 M  
RESPECTIVELY. MINING IS  
CAARRIED OUT WITH  
DEPLOYMENT OF  
EARTHMOVING MACHINES AND  
SORTING AND SIZING IS  
DONE MANUALLY ON A  
SINGLE SHIFT BASIS. THE  
MOBILE SCREENING UNIT IS  
ONLY USED TO RECOVER  
FINES FROM THE WASTE ,  
WHICH ARE NOT SUITABLE  
RECOVER MANUAL BY  
LABOUR.

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 PROPOSED	TOP SOIL DUMP , OB DUMP AND MINERAL REJECT DUMP TREATED AS SUB-GRADE.	
4b	Location of topsoil, OB and mineral reject dumps	FOUR O B DUMPS	THE ENTIRE TOP SOIL FROM THE BROLKEN UP AREA HAS BEEN ROMOVED AND USED FOR PLANTATION, THE MEAGRE QUANTITIES OF TOP SOIL / SUB SOIL IS AVAILABLE IN THE PITS, KOCHAR DUMP, KOCHAR TOP DUMP, F-LEVEL DUMP AND RAJPAL DUMP	
4c	Number of dumps within lease area and outside of lease area	FOUR DUMPS WITH IN LEASE AREA NO DUMP OUT SIDE LEASE	F - LEVEL DUMP , KOCHAR DUMP, KOCHAR TOP DUMP AND KISUNTANKY DUMP ALL ARE ON NON-MINERALISED LAND	

4d	Location of dumps w.r.t. ultimate pit limit (Rule 16)	OUTSIDE ULTIMATE PIT LIMIT	ALL DUMPS ARE NEAR THE QUARRY AND BEYOND ULTIMATE PIT LIMIT.
4e	Number of active and alive dumps.	FOUR	FOUR
4f	Number of dead dumps.	1	8 INCLUDING PREVIOUSLY 7 DUMPS
4g	Number of dumps established.	1	8 INCLUDING EARLIER STABILISED 7 NUMBER
4h	Whether Retaining wall or garland drain all along dumps are there.	YES	RETAINING WALLS AND GARLAND DRAIN S HAVE BEEN CONSTRUCTED.
4i	Length of Retaining wall or garland drain all along dumps	PROPOSED	RETAINING WALL 1041 M X 3 M X 2 M AND GARLAND DRAINS 1100 M X 2 M X 2 M HAVE ALREADY BEEN CONSTRUCTED AROUND THE EXISTING DUMPS.
4j	Number of settling ponds		
4k	Specific comments of inspecting officer on waste dump management		THE WASTE GENERATED IN VARIOUS PITS WAS SO FAR BEING DUMPED ON STEEP HILL SLOPES NEAR EACH WORKING PITS AS A RESULT SEVERAL DUMPS I TWO OR THREE TERRACES EACH TERRACE BEING 5-10 M IN HEIGHT HAVE BEEN CREATED. THERE ARE 18 DUMPS IN THE LEASE AREA. THESE DUMPS HAVE BEEN ERECTED NEAR THE QUARRIES. HOWEVER PRESENTLY FOUR DUMPS OF OB WHERE WASTE / OB ARE BEING DUMPED ARE ON THE NON MINERALISED ZONE OVER AN AREA 12.35 HA . METHOD OF DUMPING IS ADVANCING .

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.	AS NO QUARRY IS GOING TO BE EXHAUSTED IN THE ENSUING SCHEME PERIOD ON BACKFILLING PROPOSAL IS MADE.	NIL
5b	Area under backfilling of mined out area	NIL	NIL
5c	Concurrent use of topsoil for restoration or rehabilitation of mineral out area (Rule 32)	THE ENTIRE TOP SOIL FROM THE BROKEN UP AREA HAS BEEN REMOVED AND USED FOR PLANTATION ON THE DEGRADED FOREST LAND THE MEAGRE QUANTITIES OF TOP SOIL/ SUB SOIL WHICH IS AVAILABLE IN THE PITS.	
5d	Total area fully reclaimed and rehabilitated	NIL	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).	ANNUAL REPORT ON PMCP UNDER RULE 23E(2) HAS BEEN RECEIVED.	ANNUAL REPORT ON PMCP UNDER RULE 23E(2) HAS BEEN RECEIVED	
6b	Area available for rehabilitation (ha) .	NIL	NIL	
6c	afforestation done (ha).	1.5 HA	19.0 HA	

6d	No. of saplings planted during the year	640	30310
6e	Cumulative no. of plants	NOT MENTIONED	553576 NO OF PLANTS OVER AN ARA 238.64 HA INSIDE MINING LEASE AND 145312 NO. OF PLANTS OVER AN AREA 62.98 HA . BOTH SURVIVAL RATE 65%.
6f	Any other method of rehabilitation	NIL	NIL
6g	Cost incurred on watch and care during the year		
6h	Compliance on reclamation and rehabilitation by backfilling (i) Voids available for backfilling ( Lz B x D	NIL	NIL
6i	Compliance on reclamation and rehabilitation by backfilling (ii) Voids filled by waste / tailings	NIL	NIL
6j	Compliance on reclamation and rehabilitation by backfilling (iii) Afforestation on on backfilled area	NIL	NIL
6k	Compliance on reclamation and rehabilitation by backfilling (iv) Rehabilitation by making water reservoir	NIL	NIL

6l	Compliance on reclamation and rehabilitation by backfilling (v) any other specific means.	NIL	NIL
6m	Compliance of rehabilitation of waste land within lease (i) afforestation	NIL	ALREADY AFFORESTED
6n	Compliance of rehabilitation of waste land within lease (ii) Area rehabilitation (ha)	NIL	NIL
6o	Compliance of rehabilitation of waste land within lease (iii) Method of rehabilitation	PLANTATION	PLANTATION
6q	General remarks of inspecting officers on PMCP compliance and progressive closure operations etc.		AS PER PROPOSAL LESSEE HAS COMPLIED THE PROPOSAL MADE IN THE PMCP.

#### Mineral Conservation:

Sl.No.	Item	Propasals	Actual work	Remarks
7a	ROM Mineral dispatch or grade-wise sorting within lease area	ROM : 750190 MT	ROM : 259078 MT	
7b	Method of grade-wise mineral sorting i.e. manual or mechanical.	MANUAL AND MECHANICAL	MANUAL AND MECHANICAL	

7c Different grade  
of mineral  
sorted out at  
mines.

BELOW 55%, +55% TO -58%  
FE, +58%FE TO-60% FE,  
+60%FE TO -62%FE ,  
+62%FE TO -65%FE AND  
ABOVE 65%FE BOTH LUMP &  
FINES

7d Any NO  
beneficiation  
process at mines

THE IRON ORE RAISED FROM  
THE MINE MOSTLY BF GRADE  
HAVING REQUIRED SIZE  
10TO-40 MM. THIS IS  
BEING PRODUCED BY MANUAL  
BREAKING AND SIZING TO  
HAVE LARGE SCALE LOCAL  
EMPLOYMENT.

THE MOBILE SCREENING  
UNIT IS ONLY USED TO  
RECOVER FINES FROM THE  
WASTE WHICH ARE NOT  
DONE / SUITABLE BY  
MANUAL LABOUR. TWO NOS  
OF DRY MOBILE SCREENING  
UNIT ARE AVAILABLE IN  
THE MINE FOR SCREENING  
OF IRON ORE FINES HAVING  
SIZE 0 TO 20 MM AND OVER  
SIZE FROM THE WASTE.

### Environment:

Sl.No.	Item	Propasals	Actual work	Remarks
8a	Separate removal and utilization of topsoil (Rule 32)	NO	THE ENTIRE TOP SOIL FROM THE BROKEN UP AREA HAS BEEN REMOVED AND USED FOR PLANTATION ON THE DEGRADED FOREST LAND.	
8b	Concurrent use or storage of topsoil	NIL	NIL	
8c	Separate dumps for overburden, waste rock, rejects and fines (Rule 33)	PROPOSED SEPARATE DUMP FOR OB / WASTE, REJECT ETC	FOUR DUMP FOR OB / WASTE AND MINERAL REJECT DUMP TREATED AS SUB-GRADE	

8d	Use of overburden, waste rock, rejects and fines dumps for restoring the land to its original use	NIL	NIL
8e	Phased restoration, reclamation and rehabilitation of lands affected by mining operations (Pits, dumps etc)	AS NO QUARRY IS GOING TO BE EXHAUSTED IN THE ENSUING SCHEME PERIOD NO BACKFILLING PROPOSAL IS MADE	NIL
8f	Baseline information on existence of plantation and additional plantation done (Rule 41)		SPARCE VEGETATION IS FOUND IN THE LEASE. 553575 NO OF PLANTS HAVE BEEN PLANTED INSIDE THE LEASE OVER AN AREA 238.64 HA AND 145312 NO OF PLANTS HAVE BEEN PLANTED OVER AN AREA 62.98 HA OUT SIDE LEASE.
8g	Survival rate	100%	65 %
8h	Water sprinkling on roads to control airborne dust		REGULARLY WATER IS BEING SPRINKLED ON HAUL ROADS AND OTHER ROADS TO CONTROL AIR BORNE DUST.
8i	General remarks of inspecting officer on aesthetic beauty in and around mines area		AESTHETIC BEAUTY IN AND AROUND THE MINE HAS BEEN ENHANCED BY PLANTING LARGE NO OF TREES.

## Compliance of Rule 45:

Sl.No.	Item	Propasals	Actual work	Remarks
9a	Status of submission of Monthly and Annual returns		I HAVE INSPECTED THE MINE ON 27.09.2016 MONTHLY RETURN FOR THE MONTH OF AUGUST 2016 AND ANNUAL RETURN FOR THE YEAR 2015-16 HAVE BEEN RECEIVED.	

9b	Scrutiny of Annual return for information on Mining Engineer, Geologist and Manager	ANNUAL RETURN SCRUTINISED. SHRI B R NAYAK , MANAGER, SHRI A SAMANTA, MINING ENGINEER AND SHRI R MAHANTA, GEOLOGIST HAVE BEEN POSTED.
9c	Scrutiny of Annual return on land use pattern for area under pits, reclaimed area, dumps etc.	COVERED UNDER WORKING : 61 HA, USED FOR WASTE DISPOSAL: 12.35 HA, OCCUPIED BY ROAD & BUILDING ETC : 35.34 HA, SUB-GRADE STACK & BREAKING YARD : 15.94 HA
9d	Scrutiny of Annual return on afforestation	NUMBER OF TREES PLANTED DURING THE YEAR 2015-16: 47401 INSIDE LEASE SURVIVAL RATE 65% AND 34325 OUTSIDE LEASE SURVIVAL RATE 70%.
9e	Scrutiny of Annual return on mineral reject generation (Grade and quantity)	13513.78 MT MINERAL REJECT GENERATED DURING 2015-16 OF GRADE 25% FE TO 30% FE, UTILISED / TREATED AS SUB-GRADE.
9f	Scrutiny of Annual return on ROM stock and/or graded ore	ROM CLOSING STOCK: 49016.330 MT GRADED ORE: 381147 MT LUMP OF ALL GRADE AND FINES 194276 MT OF ALL GRDE
9g	Scrutiny of Annual return on sale value, Ex. Mine price and production cost	PRODUCTION COST :Rs 2274.32 /-
9h	Scrutiny of Annual return on fixed assets	FIXED ASSETS: Rs.42096000/-



9k

Scrutiny of  
Annual return on  
mining  
machineries

CAT-320 DL 0.9 CUM  
CAPACITY 1 NO, CAT -340  
D OF CAPACITY 1.2 CUM  
ONE NO., PC-200 CAPACITY  
0.9 CUM TWO NOS, HITACHI  
EX 100 OF CAPACITY 0.45  
CM ONE NO., EX -60 0.30  
CUM ONE NO. , LOADER  
VOLVO -120 F OF  
CAPACITY 2.6 CUM ONE NO.  
, LOADER HIN-2021 OF  
CAPACITY 1.07 CUM THREE  
NOS., LOADER JCB -432 ZX  
OF CAPACITY 1.09 CUM 1  
NO, LOADER JCB 730 Z OF  
CAPACITY 1.09 CUM 1.09  
CUM ONE NO. , DUMPER 32  
NOS OF CAPACITY 10  
TONNE, DUMPER MAN FORCE  
6 NOS OF CAPACITY 25  
TONNE ETC.

**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
Rule 13(1)	11/11/2016		

Date :

*MMY*  
*5.12.16*  
(NARENDRA MOHAN DEY)

Indian Bureau of Mines