

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

**MCDR INSPECTION REPORT**

**Kolkata regional office**

**Mine file No :** KOL/JHK/SB(W)/FE(M-4)

**Mine code :** 30BHR27018

- (i) Name of the Inspecting : **K004** ) **B.P KERKETTA**  
Officer and ID No.
- (ii) Designation : Sr. Asst. Contrl. Mines
- (iii) Accompanying mine : Shri Kamlesh Rai, DGM (Mines)& Mines Manager  
Official with  
Designation
- (iv) Date of Inspection : 28/10/2017
- (v) Prev.inspection date : 10/01/2017

**PART-I : GENERAL INFORMATION**

1. (a) **Mine Name** : **MEGHAHATUBURU**
- (b) **Registration NO.** :
- (c) Category : A Fully Mechanised
- (d) Type of Working : Opencast
- (e) Postal address  
State : JHARKHAND  
District : SINGHBHUM (WEST)  
Village : MEGHAHATUBURU  
Taluka : CHAIBASA  
Post office : MEGHAHATUBURU  
Pin Code : 833223  
FAX No. : 06596-244220  
E-mail : mdsail@gmail.com  
Phone : 06596-244229
- (f) Police Station : MEGHAHATUBURU
- (g) First opening date : 15/06/1985
- (h) Weekly day of rest : SUN
2. Address for : Vill:- Meghahatuburu. Po:-Meghahatuburu.  
correspondance Dist - Singhbhum west  
State:- Jharkhand. PIN---833223
3. (a) Lease Number : BHR0073
- (b) Lease area : 879.44
- (c) Period of lease : 20
- (d) Date of Expiry : 05/02/2023
4. Mineral worked : IRON ORE Main

## 5. Name and Address of the

Lessee : STEEL AUTHORITY OF INDIA LTD.  
INDUSTRY HOUSE 5TH & 6TH  
FLOOR 10, CAMAC STREET  
KOLKATA WEST BENGAL  
Phone:033-22822316/0462/3385  
FAX :033-22822316/0462

Owner : K. MAITY  
M/S STEEL AUTHORITY OF  
INDIA LTD. ISPAT BHAWAN ,  
LODHI ROAD NEW DELHI DELHI  
DELHI  
Phone: 01124367015  
FAX :

Agent : S. D. PAHARI  
AT & PO MEGHATABURU  
SINGHBHUM(W), JHARKHAND  
SINGHBHUM (WEST) JHARKHAND  
Phone: 8986881001  
FAX :

## Mining Engineer

Name : RAM SINGH,Full Time  
Qualification : B. TECH MINING  
Appointment/ : 08/08/2014  
Termination date

## Geologist

Name : DR. MANOJ KUMAR,Full Time  
Qualification : M.SC. (GEOLOGY), PHD GEOLOGY  
Appointment/ : 28/02/2015  
Termination date

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

## PART - II : OBSERVATION/COMMENTS OF INSPECTING OFFICERS

## Exploration :

Sl.No.	Item	Proposals	Actual work	Remarks
1a	Backlog of previous year	10	Nil	A violation letter has been issued on 27/11/2017 for it. Lessee has replied on 04/01/2018 that for want of Stage II Forest Clearance no exploration could be carried out.
1b	Exploration over lease area for geological axis 1 or 2	24 holes - 2400 m	NIL	Stage II FC awaited from MoEF&CC for Central Block
1c	Exploration Agencies and Expenditure in lakh rupees during the year	Nil	Nil	
1d	Balance area to be explored to bring Geological axis in 1 or 2	Nil	Nil	
1e	Balance reserve as on 01/04/20		11million Te (Proved 111 category)	
1f	General remarks of inspecting officers on geology, exploration etc	Nil	Mining operation is carried out as per approved Modified mining plan , but exploration could not be done for want of Forest Clearance.	

## Development :

Sl.No.	Item	Proposals	Actual work	Remarks
2a	Location of development w.r.t.lease area	846-836 mRL 836-826 m RL	846-836 mRL 836-826 m RL	
2b	Separate benches in topsoil, overburden and minerals (Rule 15)	846-836 mRL 836-826 m RL	846-836 mRL 836-826 m RL	
2c	Stripping ratio or ore to OB ratio	1:1.82	1 : 0.80	Central block not opened

2d	Quantity of topsoil generation in m3	No specific proposal	Nil	No fresh area broken
2e	Quantity of overburden generation in m3	6.61 million Cum.	30,62,750 Te	Central block not opened
2f	General remarks of inspecting officers on development of pit w.r.t. type of deposit etc		Mining is carried out as per approved Modified Mining Plan as far as possible.	

### Exploitation:

Sl.No.	Item	Propasals	Actual work	Remarks
3a	Number of pit proposed for production	2	1	Central block awaiting Stage-II clearance
3b	Quantity of ROM mineral production proposed	50,40,000 Te	38,68,060 Te	Mining in only Meghahatuburu block as Stage-II FC for Central block awaited
3c	Recovery of sailable/usable mineral from ROM production	50,40,000 Te	3811932 T (1105467 T-Lump & 2706465 T Fines)	(Lump & Fines) Central block not opened.
3d	Quantity of mineral reject generation	NIL	19302 Te	As Slime stored inTailing dam
3e	Grade of mineral rejects generation and threshold value declared.	NA	< 45 %; Gangue> 9 %	< 45 %; Gangue> 9 %
3f	Quantity of sub grade mineral generation.	360000MT	3062750MT	
3g	Grade of sub grade mineral generation	N.A	45% Fe.	Sub-grade blended with Ore in the Mines pit
3h	Manual / Mechanised method adopted for segregating from ROM	Mechanized	Mechanized	

3i	Any analysis or beneficiation study proposed and carried out for sub grade mineral and rejects.	Proposed and to be carried out.	Proposed and carried out.	
3j	Provision of drilling and blasting in mineral benches	Wet drilling and Use of delay detonators(NONEL)	Wet drilling and Use of delay detonators(NONEL)	
3k	Provision of mining machineries in mineral benches	Dumpers & Excavators	Dumpers & Excavators	
3l	Whether height of benches in overburden and mineral suitable for method of mining proposed in MP/SOM	10 mts	10 mts	Yes
3m	Total area covered under excavation/pits	330.02ha(combined with Kiriburu Mine)	65.00 ha	For Meghataburu Mine.
3n	Ore to OB ratio for the pit/mine during the year.	1:1.82 (Including Central Block)	1:0.80(Excluding Central Block)	Stage II Forest Clearance not granted yet.
3o	Total area put in use under different heads at the end of year	916.09ha(Combined with Kiriburu Mine)	255.04 Ha	For Meghataburu Mine.
3p	Production of ROM mineral during the last five year period as applicable	Production (T) Year 2012-13: 85,00000MT, 2013-14: 85,00000MT, 2014-15: 85,00000MT, 2015-16: 5103000MT, 2016-17: 60,00,000MT	Production (T) ROM Year- 2012-13: 4225320MT, 2013-14: 4426065MT, 2014-15: 3673080MT, 2015-16: 3737160MT, 2016-17: 3868060MT.	Stage II Forest Clearance for Central block awaited from MoEF & CC hence production level less
3q	General remarks of inspecting officers on method of mining etc.		Mining is carried out as per approved Modified Mining Plan as far as possible.	

## Solid Waste Management - Dumping:

Sl.No.	Item	Proposals	Actual work	Remarks
4a	Separate dumping of topsoil, OB and mineral rejects (Rule 32,33)	80,70,000 T	30,62,750 Te	Backfilling in mined out pit
4b	Location of topsoil, OB and mineral reject dumps	No external Dumping	Backfilling in mined out pit	Mined out pit 5.68 Ha in South portion of pit
4c	Number of dumps within lease area and outside of lease area	8	8	Earmarked Dump area (Within Lease)
4d	Location of dumps w.r.t. ultimate pit limit (Rule 16)	Out side the pit limit.	Out side the pit limit.	
4e	Number of active and alive dumps.	1	1	
4f	Number of dead dumps.	8	8	
4g	Number of dumps established.	5	5	Stablized by afforestation
4h	Whether Retaining wall or garland drain all along dumps are there.	Yes	Yes	
4i	Length of Retaining wall or garland drain all along dumps	Around the dumps	1500 m	All along the bottom of Waste dump
4j	Number of settling ponds	One	One	
4k	Specific comments of inspecting officer on waste dump management		Mining is carried out as per approved Modified Mining Plan as far as possible.	

## Solid Waste Management - Backfilling:

Sl.No.	Item	Proposals	Actual work	Remarks
5a	Status of part or full extraction of mineral from mined out area before starting backfilling.	11.8 Ha	5.68 Ha	Material fully extracted & obtained permission

5b	Area under backfilling of mined out area	11.8 Ha	5.68 Ha	(2010-15)
5c	Concurrent use of topsoil for restoration or rehabilitation of mineral out area (Rule 32)	Top soil to be generated fro Central Block	Nil	Stage II Forest Clearance awaited.
5d	Total area fully reclaimed and rehabilitated	11.8 Ha	5.50 Ha	Reclaimed by backfilling
5e	General remarks of inspecting officers on backfilling and reclamation etc.		Mining is carried out as per approved Modified Mining Plan as far as possible.	

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).	Yes	Yes	
6b	Area available for rehabilitation (ha) .	i) 11.8 Ha ii) No specific iii) No Specific.	i) 5.68 Ha	1,500 Plantation done in waste dump area- 1.5 ha , matured backfilled area 1 Ha and in township area (safety zone).
6c	afforestation done (ha).	1000nos.	2500nos.	Afforestation done in 1 ha of matured Backfilled area .
6d	No. of saplings planted during the year	1000nos.	2000nos.	
6e	Cumulative no .of plants	2000nos.	4500nos.	

6f	Any other method of rehabilitation	Development of a garden/park for public viewing with separate playgrounds in consultation with horticulturist & ground preparation specialist. For playground local panchayat will be consulted.	Backfilling of mined out area is going on. About 2.77ha. area is under waste disposal.
6g	Cost incurred on watch and care during the year	Rs. 8.07crores	Rs.3lacs. approx.
6h	Compliance on reclamation and rehabilitation by backfilling (i) Voids available for backfilling ( Lx B x D	5.21ha.	2.77ha
6i	Compliance on reclamation and rehabilitation by backfilling (ii) Voids filled by waste / tailings	5.21ha.	2.77ha.
6j	Compliance on reclamation and rehabilitation by backfilling (iii)Afforestation on on backfilled area	1000nos.	1000nos.
6k	Compliance on reclamation and rehabilitation by backfilling (iv) Rehabilitation by making water reservoir	Not Planned.	Not applicable.

6l	Compliance on reclamation and rehabilitation by backfilling (v)any other specific means.	Development of a modern athletic track for harnessing local talents with necessary infrastructure with the help of expert consultants in the field. An athletic academy will be planned at the conceptual stage.	Backfilling of mined out area is going on. About 2.77ha. area is under waste disposal.
6m	Compliance of rehabilitation of waste land within lease (i)afforestation	nil	N.A.
6n	Compliance of rehabilitation of waste land within lease (ii)Area rehabilitation (ha)	nil	N.A.
6o	Compliance of rehabilitation of waste land within lease (iii)Method of rehabilitation	nil	N.A.
6p	Compliance of environmental monitoring (core zone and buffer zone)	Yes, 4 stations quarterly	Yes, 4 stations quarterly
6q	General remarks of inspecting officers on PMCP compliance and progressive closure operations etc.		Mining is carried out as per approved Modified Mining Plan as far as possible.

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#### Mineral Conservation:

Sl.No.	Item	Propasals	Actual work	Remarks
7a	ROM Mineral dispatch or grade-wise sorting within lease area	Average 62.50 %	32732.85 T 58-60% 1418992Te, 60-62 Fe% 1677622Te, 62-65 Fe% 253477.30 Te Above 65 %	

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7b	Method of grade-wise mineral sorting i.e. manual or mechanical.	Mechanical	Mechanical	
7c	Different grade of mineral sorted out at mines.	Not specific.	58-60% 60-62 Fe%	Blended at Mines
7d	Any beneficiation process at mines	Yes	Yes	
7e	General remarks of inspecting officer on Mineral conservation and beneficiation issues		Mining is carried out as per approved Modified Mining Plan as far as possible.	

## Environment:

Sl.No.	Item	Propasals	Actual work	Remarks
8a	Separate removal and utilization of topsoil (Rule 32)	Top soil will be generated during mining of Central Block.	Mining carried out in North Block only.	Stage II Forest Clearance awaited for Central block.
8b	Concurrent use or storage of topsoil	For plantation	Not applicable as top soil not generated.	
8c	Separate dumps for overburden, waste rock, rejects and fines (Rule 33)	8	8	
8d	Use of overburden, waste rock, rejects and fines dumps for restoring the land to its original use	Backfilling of Mined out area	Backfilling of Mined out area	Under progress

8e	Phased restoration, reclamation and rehabilitation of lands affected by mining operations (Pits, dumps etc)	Backfilling of Mined out area	Backfilling of Mined out area	
8f	Baseline information on existence of plantation and additional plantation done (Rule 41)	Cumulative no. of Plants already planted 330000nos. Additional 2000nos. to be planted.	Cumulative no. of Plants already planted 330000nos. Additional 4500nos. planted.	
8g	Survival rate	80%	90%	
8h	Water sprinkling on roads to control airborne dust	Yes	Yes	28 KL Water sprinkler& permanent sprinkler along permanent haulroad
8i	General remarks of inspecting officer on aesthetic beauty in and around mines area		Mining is carried out as per approved Modified Mining Plan as far as possible.	Aesthetic beauty is Good & Well maintained.

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Compliance of Rule 45:

Sl.No.	Item	Propasals	Actual work	Remarks
9a	Status of submission of Monthly and Annual returns	Monthly Return Submitted up to September, 2017 Annual Return submitted up to 2016-17	Monthly Return Submitted up to September, 2017 Annual Return submitted up to 2016-17	
9b	Scrutiny of Annual return for information on Mining Engineer, Geologist and Manager	Mining Engineer : Sri Ram Singh, B.Tech(mining engg) Geologist : Dr. Manoj Kumar, M.Sc (Geo) Manager: Sri Kamlesh Rai. B.Tech(mining engg)	Found Correct.	

9c	Scrutiny of Annual return on land use pattern for area under pits, reclaimed area, dumps etc.	Reclaimed/rehabilitated area 1ha.	Excavated area(Pit) - 65.00 Ha Waste Dump -24.00 Ha Infrastructure- 11.34 Ha Roads- 28.70 Ha Plant Mineral storage railway-126.0ha Reclaimed/rehabilitated area 1ha.	(Only of MIOM) Afforested-12 Ha in Waste Dump
9d	Scrutiny of Annual return on afforestation	4500trees planted and survival rate is 90%.	Found correct.	(Only of MIOM) Afforested-12 Ha in Waste Dump
9e	Scrutiny of Annual return on mineral reject generation (Grade and quantity)	3062750 tonnes,Grade 45% Fe	Found Correct.	
9f	Scrutiny of Annual return on ROM stock and/or graded ore	Opening Stock 77814MT,ROM Production 3873060MT,closing stock 124561MT, Graded ore with grade have been given in item no.3 of Part IV of the Annual Return 2016-17.	Found Correct.	

9g	Scrutiny of Annual return on sale value, Ex. Mine price and production cost	Sale Value is not applicable as it is captive mine. Ex Mine Price given same as Rs.1044/Te for Lump having grade varying from 60% to below 62% ,62% to below 65%and 65% and above and Rs.838/Te for Fines having grade varying from 58% to below 60%, 60% to below 62% ,62% to below 65%and 65% and above respectively .Cost of Production has been given as Rs. 1024.93/Te.including Royalty.	Found Correct.	O.K
9h	Scrutiny of Annual return on fixed assets	Value of Fixed Asset has been given as nil.	Not correct. Fixed asset should be of about Rs 155 Crores approx.	
9k	Scrutiny of Annual return on mining machineries	Shovel (Hydraulic) 9.5cum 4no., Shovel (Hydraulic) 4.5cum 2no., Dumper 100Te. 7nos., Dumper 50Te. 2nos., , , Dozer 410H.P. 7no., Motor Grader 1no., Front End Loader 3.7cum. 1no., Back Hoe 1.5cum. 2 nos., Back Hoe 1.2cum. 1 no., Drill 150mm, 4 no.,	Found correct.	Submitted

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

Violation observed			Show couse position		
Rule NO.	Issued on	Compliance on	Rule NO.	Issued on	Compliance on
MCDR17	Rule 11(1)	27/11/2017			
MCDR17	Rule 35(2)	27/11/2017			
MCDR17	Rule 37(5)	27/11/2017		25/01/2018	

**Date :**

**(B.P KERKETTA)**

Indian Bureau of Mines