

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

**MCDR inspection REPORT**

**Kolkata regional office**

**Mine file No :** KOL/JHK/SB(W)/Fe(J-2)

**Mine code :** 40JHK18001

- (i) Name of the Inspecting : **K004** ) **B.P KERKETTA**  
Officer and ID No.
- (ii) Designation : Sr. Asst. Contrl. Mines
- (iii) Accompanying mine : Dr.T.C Ananda, Geologist, Mr. Tanveer Zafar, Geologist &  
Official with  
Designation
- (iv) Date of Inspection : 17/03/2020
- (v) Prev.inspection date : 20/02/2013

**PART-I : GENERAL INFORMATION**

1. (a) **Mine Name** : **JHILLINGBURU(GUA)30.433HE**
- (b) **Registration NO.** :
- (c) **Category** : A Fully Mechanised
- (d) **Type of Working** : Opencast
- (e) **Postal address**
- State : JHARKHAND
- District : SINGHBHUM (WEST)
- Village : GUA
- Taluka :
- Post office : GUA
- Pin Code : 833213
- FAX No. : 06596-263714
- E-mail : guageology@gmail.com
- Phone : 06596-263713
- (f) **Police Station** :
- (g) **First opening date** :
- (h) **Weekly day of rest** : SUN
2. **Address for** : AT & PO GUA,  
**correspondance** DIST WEST SINGHBHUM  
JHARKHAND 833213
3. (a) **Lease Number** : JHK0007
- (b) **Lease area** : 30
- (c) **Period of lease** :
- (d) **Date of Expiry** : 11/05/2040
4. **Mineral worked** : MANGANESE 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 : Amarendu Prakash  
 Steel Authority Of India  
 Limited Bokaro Steel Plant  
 Bokaro-827001 SINGHBHUM  
 (WEST) JHARKHAND  
 Phone: 05642240300,024  
 FAX : (06542)240/82

Agent : ANIRUDH SHARMA  
 AT& PO GUA DIST WEST  
 SINGHBHUM JHARKHAND  
 SINGHBHUM (WEST) JHARKHAND  
 Phone: 06596263713  
 FAX : 06596263714

## Mining Engineer

Name : C.N.KUMAR,Full Time  
 Qualification : AMIE(MINING)  
 Appointment/ : 01/05/2008  
 Termination date

## Geologist

Name : TANVEER ZAFAR,Full Time  
 Qualification : MSc (Tech)  
 Appointment/ : 31/08/2009  
 Termination date

## Manager

Name : S.P.DAS  
 Qualification : B.TECH(MINING)  
 Appointment/ : 16/09/2019  
 Termination date

6. Date of approval of Mining Plan/Scheme of Mining : Renewal under rule 24 MCR1960 06/02/2013  
 MP modif under 17(3) MCR 2016 03/01/2020

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

## Exploration :

Sl.No.	Item	Proposals	Actual work	Remarks
1a	Backlog of previous year	25 Core Boreholes Proposed in Scheme period	No Boreholes has drilled	Mine is not Working, for want of Statuary Clearances since 10/05/2000.
1b	Exploration over lease area for geological axis 1 or 2	25 - Additional exploration was proposed in scheme of mining over the lease area for Geological axis - 1	Additional exploration was not carried out in the lease area for Geological axis - 1	No Exploration has been carry out in the lease area so far.
1c	Exploration Agencies and Expenditure in lakh rupees during the year	Own drilling and/ or Contract drilling machines were proposed for Exploration.	No Boreholes has drilled	Mine is not Working, for want of Statuary Clearances since 10/05/2000.
1d	Balance area to be explored to bring Geological axis in 1 or 2	Exploration was proposed out at 200m X 100m grid interval. Additional exploration was proposed in Plan period	Exploration was not carried out at 200m X 100m grid interval. Entire lease area of 30.443 hect area has to be explored for availability of ore from G-2/3 to G-1.	

1e	Balance reserve as on 01/04/20	<p>Manganese Ore as on 01.04.2015 Probable Mineral Reserves (122) = 201000 Tons Pre-Feasibility Mineral Resources (222) = 351000 Tons Indicated Mineral Resources (332) = 178000 tons</p> <p>Iron Ore as on 01.04.2015 Probable Mineral Reserves (122) = 220000 Tons Pre-Feasibility Mineral Resources (222) = 55000 Tons Indicated Mineral Resources (332) = 25000 tons</p>	<p>Manganese Ore as on 01.04.2019 Probable Mineral Reserves (122) = 20100 Tons Pre-Feasibility Mineral Resources (221) = 31500 Tons Pre-Feasibility Mineral Resources (222) = 36000 Tons Indicated Mineral Resources (332) = 17800 tons</p> <p>Iron Ore as on 01.04.2019 Probable Mineral Reserves (122) = 220000 Tons Pre-Feasibility Mineral Resources (222) = 55000 Tons Indicated Mineral Resources (332) = 25000 tons</p>	Hence there is no mining activity; R & R has not been changed from 01.04.2015 and carry forward from previous approved mining plan.
1f	General remarks of inspecting officers on geology, exploration etc	It is part of Singhbhum, Bonai and Keonjhar group of Iron Ore deposit.	The terrain forms a part of the oldest metasedimentary formational of chottanagapur plateau.	Entire Lease is having Same Geology and Mineralogy is changes from place to place. Hence borehole has to be drilled at closer interval to get quantity and quality

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Development :

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Sl.No.	Item	Propasals	Actual work	Remarks
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2a	Location of development w.r.t.lease area	Location in between Quarry-2A of Block-A	Working has been not carried out as per the proposal	Mine is not Working since 10/05/2000, for want of Forest Clearance.
2b	Separate benches in topsoil, overburden and minerals (Rule 15)	There is no proposals for separate Bench's	There is no proposals for separate Bench's	Mine is not Working since 10/05/2000, for want of Forest Clearance.
2c	Stripping ratio or ore to OB ratio	1 : 0.83	Nil reported, since no production during that period.	-do-
2d	Quantity of topsoil generation in m3	No Proposal	Nil	-do-
2e	Quantity of overburden generation in m3	During 2018-2019 it is proposed OB as 4000 cu.m and Intercalated waste as 36088 cu.m. Total waste as 40088 cu.m	Nil	-do-
2f	General remarks of inspecting officers on development of pit w.r.t. type of deposit etc	Proposed 40088 cu.m of waste.	Nil	Mine is not Working since 10/05/2000, for want of Forest Clearance.

### Exploitation:

Sl.No.	Item	Propasals	Actual work	Remarks
3a	Number of pit proposed for production	Development and production was proposed in Quarry-2A of Block-A.	Development and production are not carried out.	Mine is not Working since 10/05/2000, for want of Forest Clearance.
3b	Quantity of ROM mineral production proposed	The total target of ROM Production (Manganese) was 20820 tons during 2018-2019.	Nil	-do-
3c	Recovery of sailable/usable mineral from ROM production	15% (+10-40mm) 20% (-10mm)	Nil	-do-

3d	Quantity of mineral reject generation	No Proposal	Nil	Mine is not Working since 10/05/2000, for want of Forest Clearance.
3e	Grade of mineral rejects generation and threshold value declared.	Mineral reject- No Proposal. Threshold Value for Mineral rejects is not Declared	Mineral reject- No Proposal. Threshold Value for Mineral rejects is not Declared Manganese is 10%Mn(min)	Mine is not Working since 10/05/2000, for want of Forest Clearance.
3f	Quantity of sub grade mineral generation.	11104 cu.m of Sub Grade Generation has been proposed	No Sub Grade Generation	-do-
3g	Grade of sub grade mineral generation	+15-20% Mn, +7-60% Fe	There is no generation of Subgrade Mineral	-do-
3h	Manual / Mechanised method adopted for segregating from ROM	Mechanised	Nil	-do-
3i	Any analysis or beneficiation study proposed and carried out for sub grade mineral and rejects.	No beneficiation study is proposed	Only Manual Picking of Ore from Intercalated Waste	-do-
3j	Provision of drilling and blasting in mineral benches	Spacing - 3m Burded - 2.5m It is Proposed to drill by 110mm dia, crawler mounted down hole drill. Blasting is done by using slurry explosives and nonnel fuses.	Drilling & Blasting are not done	-do-
3k	Provision of mining machineries in mineral benches	Electric Shovels Hydraulic Excavators Tippers	Nil	-do-

3l	Whether height of benches in overburden and mineral suitable for method of mining proposed in MP/SOM	Bench height of 6m was proposed in mineral.	Nil	-do-
3m	Total area covered under excavation/pits	2.00 hect area is under Pit and additional 2.40 hect is required	2.00 hect areas are under Pit only.	Mine is not Working since 10/05/2000, for want of Forest Clearance.
3n	Ore to OB ratio for the pit/mine during the year.	1 : 0.83	Nil reported, since no production during that period.	Mine is not Working since 10/05/2000, for want of Forest Clearance.
3o	Total area put in use under different heads at the end of year	Land use Pattern as on 01.04.2015. Mines = 2.00 hect Dump = 0.77 hect Road = 0.71 hect Township = 3.39 hect Green Belt = 1.008 hect	Land use Pattern as on 01.04.2019. Mines = 2.00 hect Dump = 0.77 hect Road = 0.71 hect Township = 3.39 hect Green Belt = 1.008 hect	There are no Changes in land use Pattern since 10/05/2000 because of Non-Working.
3p	Production of ROM mineral during the last five year period as applicable	2018-2019 = 20820 tons 2017-2018 = 20820 tons 2016-2017 = 20820 tons 2015-2016 = 20820 tons 2014-2015 = 20820 tons	2018-2019 = Nil 2017-2018 = Nil 2016-2017 = Nil 2015-2016 = Nil 2014-2015 = Nil	-do-
3q	General remarks of inspecting officers on method of mining etc.	Mechanised Method is Proposed	Nil	Mine is not Working since 10/05/2000, for want of Forest Clearance.

Solid Waste Management - Dumping:

Sl.No.	Item	Propasals	Actual work	Remarks
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4a	Separate dumping of topsoil, OB and mineral rejects (Rule 32,33)	Generated Intercalated waste will be dumped nearer to Quarry-2A of Block-A & Quarry-12 of Block-B.	There is no generation of OB because of Non-working	Mine is not Working since 10/05/2000, for want of Forest Clearance.	
4b	Location of topsoil, OB and mineral reject dumps	Quarry-2A of Block-A & Quarry-12 of Block-B.	Nil	do-	-
4c	Number of dumps within lease area and outside of lease area	Lease area = 1 Outside Lease area = Nil	Lease area = Outside Lease area = Nil	do-	-
4d	Location of dumps w.r.t. ultimate pit limit (Rule 16)	Outside the UPL nearer to Quarry-2A of Block-A & Quarry-12 of Block-B.	Nil	do-	-
4e	Number of active and alive dumps.	Active Dump = 1 Alive Dump = Nil	There is no active dump within lease area for waste dumping.	do-	-
4f	Number of dead dumps.	No proposal	Nil	do-	-
4g	Number of dumps established.	No Proposal	Nil	do-	-
4h	Whether Retaining wall or garland drain all along dumps are there.	Yes, Proposed around the dumps	Nil	do-	-
4i	Length of Retaining wall or garland drain all along dumps	50m/ year around the dump	Nil	do-	-
4j	Number of settling ponds	One settling tank has been proposed	Nil	do-	-



4k	Specific comments of inspecting officer on waste dump management	Generated Intercalated waste will be dumping nearer to Quarry-2A of Block-A & Quarry-12 of Block-B.	Nil	Mine is not Working since 10/05/2000, for want of Forest Clearance.
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#### 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.	No Back filling has proposed	Nil	Mine is not Working since 10/05/2000, for want of Forest Clearance.
5b	Area under backfilling of mined out area	No Back filling has been proposed	Nil	do- -
5c	Concurrent use of topsoil for restoration or rehabilitation of mineral out area (Rule 32)	No Proposal	Nil	do- -
5d	Total area fully reclaimed and rehabilitated	No Proposal	Nil	do- -
5e	General remarks of inspecting officers on backfilling and reclamation etc.	No Back filling has been proposed	Nil	Mine is not Working since 10/05/2000, for want of Forest Clearance.

#### 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).	It should be on or before 1st July every year.	Not Submitted	Mine is not Working since 10/05/2000, for want of Forest Clearance. Therefore, no violation issued.

6b	Area available for rehabilitation (ha) .	No Proposal	Nil	do-	-
6c	afforestation done (ha).	No Proposal	Nil	do-	-
6d	No. of saplings planted during the year	No Proposal	Nil	do-	-
6e	Cumulative no .of plants	No Proposal	Nil	do-	-
6f	Any other method of rehabilitation	No Proposal	Nil	do-	-
6g	Cost incurred on watch and care during the year	No Proposal	Nil	do-	-
6h	Compliance on reclamation and rehabilitation by backfilling (i) Voids available for backfilling ( Lx B x D	No Proposal	Nil	do-	-
6i	Compliance on reclamation and rehabilitation by backfilling (ii) Voids filled by waste / tailings	No Proposal	Nil	do-	-
6j	Compliance on reclamation and rehabilitation by backfilling (iii)Afforestation on backfilled area	No Proposal	Nil	do-	-
6k	Compliance on reclamation and rehabilitation by backfilling (iv) Rehabilitation by making water reservoir	No Proposal	Nil	do-	-

6l	Compliance on reclamation and rehabilitation by backfilling (v)any other specific means.	No Proposal	Nil	do-	-
6m	Compliance of rehabilitation of waste land within lease (i)afforestation	500 saplings proposed during 2018-2019	200 Saplings has planted inside the lease area and 300 has planted outside the lease area with survival rate 60% and 55% respectively for within and outside lease area.	Mine is not Working since 10/05/2000, for want of Forest Clearance	
6n	Compliance of rehabilitation of waste land within lease (ii)Area rehabilitation (ha)	0.50 hect proposed.	0.20 hect has planted	Mine is not Working since 10/05/2000, for want of Forest Clearance	
6o	Compliance of rehabilitation of waste land within lease (iii)Method of rehabilitation	No Proposal	Nil	do-	-
6p	Compliance of environmental monitoring (core zone and buffer zone)	Quarterly Air,Noise,water Monitoring.	Environment monitoring is carried out through own as well as private agency.	do-	-
6q	General remarks of inspecting officers on PMCP compliance and progressive closure operations etc.	Environment monitoring is carried out through own as well as private agency.	Nil	Mine is not Working since 10/05/2000, for want of Forest Clearance.	

#### Mineral Conservation:

Sl.No.	Item	Propasals	Actual work	Remarks
7a	ROM Mineral dispatch or grade-wise sorting within lease area	20820 tons	Nil	Mine is not Working since 10/05/2000, for want of Forest Clearance.
7b	Method of grade-wise mineral sorting i.e. manual or mechanical.	Mechanical Process and Manual Picking of Ore from Intercalated Waste	Nil	do-

7c	Different grade of mineral sorted out at mines.	No Proposal	Nil	do-	-
7d	Any beneficiation process at mines	No Proposal	Nil	do-	-
7e	General remarks of inspecting officer on Mineral conservation and beneficiation issues	20820 tons of ROM has proposed	Nil		Mine is not Working since 10/05/2000, for want of Forest Clearance.

## Environment:

Sl.No.	Item	Propasals	Actual work	Remarks	
8a	Separate removal and utilization of topsoil (Rule 32)	No Proposal	Nil		Mine is not Working since 10/05/2000, for want of Forest Clearance.
8b	Concurrent use or storage of topsoil	No Proposal	Nil	do-	-
8c	Separate dumps for overburden, waste rock, rejects and fines (Rule 33)	Separate dump has been proposed for OB waste dump	Nil	do-	-
8d	Use of overburden, waste rock, rejects and fines dumps for restoring the land to its original use	No Proposal	Nil	do-	-
8e	Phased restoration, reclamation and rehabilitation of lands affected by mining operations (Pits, dumps etc)	No Proposal	Nil	do-	-

8f	Baseline information on existence of plantation and additional plantation done (Rule 41)	500 saplings/ year have proposed.	200 Saplings has planted inside the lease area and 300 has planted outside the lease area	do-	-
8g	Survival rate	50%	60%	do-	-
8h	Water sprinkling on roads to control airborne dust	Yes, it is proposed for water sprinkling on haul roads.	Water sprinkling on road is observed during the inspection.	do-	-
8i	General remarks of inspecting officer on aesthetic beauty in and around mines area	Scanty vegetation, bushes are observed in lease area	Surrounding area beyond lease area has greenery. The area is hilly terrain and aesthetic beauty in and around mines area is good.	Mine is not Working since 10/05/2000, for want of Forest Clearance.	

#### Compliance of Rule 45:

Sl.No.	Item	Propasals	Actual work	Remarks
9a	Status of submission of Monthly and Annual returns	MR Submitted up to = September 2019 AR Submitted up to = 2018-2019	Both Annual & Monthly returns are submitting in online system. Submitted within the time limits	Mine is not Working since 10/05/2000, for want of Forest Clearance.
9b	Scrutiny of Annual return for information on Mining Engineer, Geologist and Manager	Appointment of Mr. C.N.Kumar as Mining Engineer, Md. Tanveer Zafar as Geologist .	Mining Engineer & Geologist were present during inspection.	-do-

9c	Scrutiny of Annual return on land use pattern for area under pits, reclaimed area, dumps etc.	Land use Pattern shown as area Occupied by plant, buildings, residential, welfare buildings & roads 8.958 ha. only. Area used for waste disposal,Area already exploited & abandoned by O/C mining have not been given.	Area used for waste disposal 0.77ha,Area already exploited & abandoned by O/C mining as 2ha.Infrastructure /Township area 3.39ha. and Road area 0.71ha, Afforestation area/green belt 1.008ha should have been given as per approved Modification of Mining Plan dated 03/01/2020.	-do-
9d	Scrutiny of Annual return on afforestation	200 Saplings has planted inside the lease area and 300 has planted outside the lease area	Cumulatively 1000 saplings have been planted during previous plan period	-do-
9e	Scrutiny of Annual return on mineral reject generation (Grade and quantity)	There is no Mineral Reject Generation	There is no Mineral Reject Generation	-do-
9f	Scrutiny of Annual return on ROM stock and/or graded ore	Nil	Due to Non-Working since 10/05/2000, there is no ROM stock and all are nil only.	-do-
9g	Scrutiny of Annual return on sale value, Ex. Mine price and production cost	Ex.Mine Price & Production cost is Zero	Due to Non-Working since 10/05/2000,there is no ROM, hence Ex.Mine Price & Production cost is Zero.	-do-
9h	Scrutiny of Annual return on fixed assets	Rs 1653658864/-	It is combined for the Gua group of Mines.	-do-
9k	Scrutiny of Annual return on mining machineries	Machineries detail not given	Due to Non-Working, there is no availability of machineries in field.	Mine is not Working since 10/05/2000, for want of Forest Clearance.

**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

Date :

(B.P KERKETTA)

Indian Bureau of Mines