

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

MCDR inspection REPORT

Kolkata regional office

Mine file No : KOL/JHK/SB/FE(A-3)

Mine code : 30JHK18002

- (i) Name of the Inspecting : **K004**) **B.P KERKETTA**
Officer and ID No.
- (ii) Designation : Sr. Asst. Contrl. Mines
- (iii) Accompanying mine : Ravi Ranjan, Manager (Mines), Sri S.S.Rao, Mining Engin
Official with
Designation
- (iv) Date of Inspection : 12/03/2020
- (v) Prev.inspection date : 07/03/2015

PART-I : GENERAL INFORMATION

1. (a) **Mine Name** : **AJITABURU**
- (b) **Registration NO.** :
- (c) Category : A Fully Mechanised
- (d) Type of Working : Opencast
- (e) Postal address :
State : JHARKHAND
District : SINGHBHUM (WEST)
Village : MANOHAR PUR
Taluka : MANOHARPUR
Post office : CHIRIA
Pin Code : 833108
FAX No. : 06596-263714
E-mail : miomchiria@gmail.com
Phone : 9308128776
- (f) Police Station :
- (g) First opening date : 05/10/1911
- (h) Weekly day of rest : SUN
2. Address for : PO. CHIRIA
correspondance : DIST .SINGHBHUM (W) .
JHARKHAND- 833106
3. (a) Lease Number : JHK0004
(b) Lease area : 323.88
(c) Period of lease :
(d) Date of Expiry : 06/12/2027
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 : Amarendu Prakash
 Steel Authority Of India
 Limited Bokaro Steel Plant
 Bokaro-827001 SINGHBHUM
 (WEST) JHARKHAND
 Phone: 05642240300,024
 FAX : (06542)240/82

Agent : R.P.SINGH
 MANOHARPUR(Mc LELLAN)IRON
 ORE MINE
 P.O.CHIRIA,DIST.WEST
 SINGHBHUM JHARKHAND STATE
 SINGHBHUM (WEST) JHARKHAND
 Phone: 8986881005
 FAX :

Mining Engineer

Name : S. S. RAO,Full Time
 Qualification : AMIE(MINING)
 Appointment/ : 04/07/2011
 Termination date

Geologist

Name : Dr. Rajesh Kumar Naik,Full Time
 Qualification : M.Sc(Geo)
 Appointment/ : 14/11/2014
 Termination date

Manager

Name : RAVI RANJAN
 Qualification : B.TECH (MINING)
 Appointment/ : 18/09/2019
 Termination date

6. Date of approval of Mining Plan/Scheme of Mining : MP review under 17(1) MCR 2016 10/07/2018

PART - II : OBSERVATION/COMMENTS OF INSPECTING OFFICERS

Exploration :

Sl.No.	Item	Proposals	Actual work	Remarks
1a	Backlog of previous year	19 Core/RC Boreholes after obtaining Stage II Forest Clearance, Depth 100m each ,Total 1900m in 400mx200m grid interval.	Nil	Mine is not in operation since 1995 for want of Stage II Forest Clearance.
1b	Exploration over lease area for geological axis 1 or 2	NA.	NIL	-do-
1c	Exploration Agencies and Expenditure in lakh rupees during the year	NA	NIL	-do-
1d	Balance area to be explored to bring Geological axis in 1 or 2	170.85ha	Nil	-do-
1e	Balance reserve as on 01/04/20	Reserve as on 01/04/2019:- Probable Reserve (122) 278.76 million Te Grade Fe%> 55 Remaining Resource(222+332) :- 102.78million Te. Grade Fe%> 45	Probable Reserve (122) 278.76 million Te Grade Fe%> 55 Remaining Resource(222+332) :- 102.78million Te. Grade Fe%> 45	-do-
1f	General remarks of inspecting officers on geology, exploration etc		This Mine is not in operation since 1995 for want of Forest Clearance.	

Development :

Sl.No.	Item	Proposals	Actual work	Remarks
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2a	Location of development w.r.t.lease area	North Pit	Nil	Mine is not in operation since 1995 for want of Stage II Forest Clearance.
2b	Separate benches in topsoil, overburden and minerals (Rule 15)	Separate benches in top soil, overburden and mineral proposed	Nil	-do-
2d	Quantity of topsoil generation in m3	Nil	Nil	-do-
2e	Quantity of overburden generation in m3	119189cum.	Nil	-do-
2f	General remarks of inspecting officers on development of pit w.r.t. type of deposit etc		This Mine is not in operation since 1995 for want of Stage II Forest Clearance.	Mine is not in operation since 1995 for want of Stage II Forest Clearance.

Exploitation:

Sl.No.	Item	Propasals	Actual work	Remarks
3a	Number of pit proposed for production	one,North Pit	Nil	Mine is not in operation since 1995 for want of Stage II Forest Clearance.
3b	Quantity of ROM mineral production proposed	963170.50 Tonnes(ROM :248341cum.+Mineral Reject : 87259 cum.)	Nil	-do-
3c	Recovery of sailable/usable mineral from ROM production	78%	Nil	-do-
3d	Quantity of mineral reject generation	About 19%	Nil	-do-
3e	Grade of mineral rejects generation and threshold value declared.	Mineral Reject Grade Fe% 45-55%,Threshold value Fe 45%	Nil	-do-
3f	Quantity of sub grade mineral generation.	87259cum.	Nil	-do-

3g	Grade of sub grade mineral generation	Grade Fe% 45-55%	Nil	-do-
3h	Manual / Mechanised method adopted for segregating from ROM	Mechanized.	Nil	-do-
3i	Any analysis or beneficiation study proposed and carried out for sub grade mineral and rejects.	NA	Nil	-do-
3j	Provision of drilling and blasting in mineral benches	Wet drilling and Use of delay detonators proposed	Nil	-do-
3k	Provision of mining machineries in mineral benches	5nos Shovels 1.2/2.5, cum cap,86nos, Dumpers 10/25MTcap, 4nosWagon Drll (110mm),2nosDoser (320HP),4nosFront End Loaders ,1no Grader,2nos Water Sprinklers 10KL,2nos Explosive Vans,2nos Diesel Van.	Nil	-do-
3l	Whether height of benches in overburden and mineral suitable for method of mining proposed in MP/SOM	6m.	Nil	-do-
3m	Total area covered under excavation/pits	22.756 Ha	Nil	-do-
3n	Ore to OB ratio for the pit/mine during the year.	1:0.355	Nil	-do-

3o	Total area put in use under different heads at the end of year	Mining area 9.8ha., Subgrade mineral Storage 1.67ha., Old Mineral storage area 14.53ha., Infrastructure-workshop , administrative building 24.17ha., roads 6.35ha., Afforestation area 1.85ha.	Nil		-do-
3p	Production of ROM mineral during the last five year period as applicable	2014-15 -NIL 2015-16 -NIL 2016-17 -NIL 2017-18 -NIL 2018-19 963170.50MT	2014-15 Nil 2015-16 Nil 2016-17 Nil 2017-18 Nil 2018-19 Nil		During 2014-15 to 2016-17 ,there was no approved Mining Plan. Year 2017-18 was lapsed period for approved Review of Mining Plan dated 10/07/2018 for the plan period 2017-18 to 2021-22.
3q	General remarks of inspecting officers on method of mining etc.		This Mine is not in operation since 1995 for want of Stage II Forest Clearance. Therefore, no comments are offered on Exploitation of iron ore.		

Solid Waste Management - Dumping:

Sl.No.	Item	Proposals	Actual work	Remarks
4a	Separate dumping of topsoil, OB and mineral rejects (Rule 32,33)	Separate dumping of topsoil, OB & mineral reject proposed	Nil	Mine is not in operation since 1995 for want of Stage II Forest Clearance.
4b	Location of topsoil, OB and mineral reject dumps	On the South Western side of Lease area which is non mineralised.	Nil	-do-
4c	Number of dumps within lease area and outside of lease area	One dump within lease area.	Nil	-do-

4d	Location of dumps w.r.t. ultimate pit limit (Rule 16)	Outside the ultimate pit limit	Nil	-do-
4e	Number of active and alive dumps.	one old dump.	Nil	-do-
4f	Number of dead dumps.	One	Nil	-do-
4g	Number of dumps established.	One	Nil	-do-
4h	Whether Retaining wall or garland drain all along dumps are there.	Retaining wall or garland drain all along dumps proposed.	Nil	-do-
4i	Length of Retaining wall or garland drain all along dumps	360m	100m(old dump)	-do-
4j	Number of settling ponds	One	One	-do-
4k	Specific comments of inspecting officer on waste dump management		This mine is not in operation since 1995 for want of Stage II Forest Clearance.	

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 proposal	Nil	Mine is not in operation since 1995 for want of Stage II Forest Clearance.
5b	Area under backfilling of mined out area	No proposal	Nil	-do-
5c	Concurrent use of topsoil for restoration or rehabilitation of mineral out area (Rule 32)	Use in plantation	Nil	-do-
5d	Total area fully reclaimed and rehabilitated	No proposal	Not applicable.	-do-

5e General remarks of inspecting officers on backfilling and reclamation etc. This mine is not in operation since 1995 for want of Stage II Forest Clearance. However, Solid Waste Management is as per approved Mining Plan.

Progressive Mine Closure Plan:

Sl.No.	Item	Proposals	Actual work	Remarks
6a	Whether Annual report on PMCP submitted on time and correctly. Rule 23 E(2).	Yes	Yes	Mine is not in operation since 1995 for want of Stage II Forest Clearance.
6b	Area available for rehabilitation (ha) .	Nil	Not applicable	-do-
6c	afforestation done (ha).	0.25ha.	0.5ha.	-do-
6d	No. of saplings planted during the year	500nos.	600nos.(OML)	Mine is not in operation since 1995 for want of Stage II Forest Clearance.
6e	Cumulative no .of plants	Not proposed	6050(WML)+ 15580 (OML)	-do-
6f	Any other method of rehabilitation	NA	Nil	-do-
6g	Cost incurred on watch and care during the year	Rs.50000/-	Rs 10000/-	-do-
6h	Compliance on reclamation and rehabilitation by backfilling (i) Voids available for backfilling (Lx B x D	NA	Nil	-do-
6i	Compliance on reclamation and rehabilitation by backfilling (ii) Voids filled by waste / tailings	NA	Nil	-do-

6j	Compliance on reclamation and rehabilitation by backfilling (iii) Afforestation on backfilled area	NA	Nil	-do-
6k	Compliance on reclamation and rehabilitation by backfilling (iv) Rehabilitation by making water reservoir	NA	Nil	-do-
6l	Compliance on reclamation and rehabilitation by backfilling (v) any other specific means.	NA	Nil	-do-
6m	Compliance of rehabilitation of waste land within lease (i) afforestation	NA	Nil	-do-
6n	Compliance of rehabilitation of waste land within lease (ii) Area rehabilitation (ha)	NA	Nil	-do-
6o	Compliance of rehabilitation of waste land within lease (iii) Method of rehabilitation	NA	Nil	-do-
6p	Compliance of environmental monitoring (core zone and buffer zone)	Quarterly Air, Water & Noise Monitoring at 5 locations each.	Quarterly Air, Water & Noise Monitoring done at 5 locations each.	-do-
6q	General remarks of inspecting officers on PMCP compliance and progressive closure operations etc.		This mine is not in operation since 1995 for want of Stage II Forest Clearance. However 600 no. of plantation have been carried out outside the lease.	

Mineral Conservation:

Sl.No.	Item	Propasals	Actual work	Remarks
7a	ROM Mineral dispatch or grade-wise sorting within lease area	Average 62.5 % Fe	NIL	Mine is not in operation since 1995 for want of Stage II Forest Clearance.
7b	Method of grade-wise mineral sorting i.e. manual or mechanical.	No specific	Nil	-do-
7c	Different grade of mineral sorted out at mines.	Sub grade fines + 59% Fe will be blended with blue dust ore having 64% Fe%	Nil	-do-
7d	Any beneficiation process at mines	NA	Nil	-do-
7e	General remarks of inspecting officer on Mineral conservation and beneficiation issues		This mine is not in operation since 1995 for want of Stage II 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 in operation since 1995 for want of Stage II Forest Clearance.
8b	Concurrent use or storage of topsoil	For plantation	Nil	-do-
8c	Separate dumps for overburden, waste rock, rejects and fines (Rule 33)	1	1	-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)	No proposal	Nil	-do-
8g	Survival rate	No proposal	60%	-do-
8h	Water sprinkling on roads to control airborne dust	Water sprinkling on roads to control airborne dust proposed.	Nil	-do-
8i	General remarks of inspecting officer on aesthetic beauty in and around mines area		This mine is not in operation since 1995 for want of Stage II Forest Clearance. The aesthetic beauty in and around mines area is good.	

Compliance of Rule 45:

Sl.No.	Item	Propasals	Actual work	Remarks
9a	Status of submission of Monthly and Annual returns	M.R. Submitted up to February -2020 A.R. submitted up to 2018-19.	M.R. Submitted up to February -2020 A.R. submitted up to 2018-19.	Mine is not in operation since 1995 for want of Stage II Forest Clearance.
9b	Scrutiny of Annual return for information on Mining Engineer, Geologist and Manager	Sri Ravi Ranjan ,Mines Manager ,Sri S.S.Rao, Mining Engineer, Dr. Rajesh Kr Naik,Geologist	All were present during inspection.	-do-

9c	Scrutiny of Annual return on land use pattern for area under pits, reclaimed area, dumps etc.	Excavated Area- 9.68 Ha Sub-Grade Ore Dump/ Fine dump-1 6.20 Ha Infrastructure -24.17 Ha Roads-6.35 Ha Afforestation- 18.50 Ha	Found in order.	-do-
9d	Scrutiny of Annual return on afforestation	600nos outside Mining Lease with 60% survival.	Found correct.	-do-
9e	Scrutiny of Annual return on mineral reject generation (Grade and quantity)	nil	Found correct.	-do-
9f	Scrutiny of Annual return on ROM stock and/or graded ore	nil	Found correct	Mine is not in operation since 1995 for want of Stage II Forest Clearance.
9g	Scrutiny of Annual return on sale value, Ex. Mine price and production cost	nil	Found correct	Mine is not in operation since 1995 for want of Stage II Forest Clearance.
9h	Scrutiny of Annual return on fixed assets	Rs. 1375416291/-	Found correct.	-do-
9k	Scrutiny of Annual return on mining machineries	Dozer ,one, 320HP,Non Electrical	Found correct.	Mine is not in operation since 1995 for want of Stage II 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