INDIAN BUREAU OF MINES MINERALS DEVELOPMENT AND REGULATION DIVISION

MCDR inspection REPORT

Kolkata regional office

Mine file No : CAL/BH/SB(W)/FE(M-3) Mine code: 30JHK18001

Name of the Inspecting : KQ04) B.P KERKETTA (i)

Officer and ID No.

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

(iii) Accompaning mine : Mr Ratan Kr Patri, Mining Engineer , Mr R K. Naik, Geolo

Official with Designation

(iv) Date of Inspection : 14/03/2020

Prev.inspection date : 13/06/2007 (v)

PART-I : GENERAL INFORMATION

(a) Mine Name : MANOHARPUR (MACLELLAN)

(b) Registration NO.

(C) Category : A Other than Fully Mech.

(d) Type of Working Opencast

(e) Postal address

> State : JHARKHAND

District SINGHBHUM (WEST)

Village MACLELLAN Taluka MANOHARPUR Post office : CHIRIA Pin Code : 833106

FAX No.

E-mail momchiria@gmail.com

Phone 9308128776

(f) Police Station : CHIRIA

First opening date : 10/03/1960 (g)

Weekly day of rest (h) : SUN

Address for :

correspondance

3. (a) Lease Number : JHK0001 (b) Lease area **:** 823.83

Period of lease (C)

(d) Date of Expiry : 08/12/2025

Mineral worked : IRON ORE 4. 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 : R.K.Patri,Full Time

Qualification : B.Tech (Min.)
Appointment/ : 18/01/2019

Termination date

Geologist

Name : Dr.RAJESH KUMAR NAIK, Full Time

Qualification : MSc (Geo)
Appointment/ : 14/11/2014

Termination date

Manager

Name : RAVI RANJAN
Qualification : B.TECH(MINING)
Appointment/ : 18/01/2019

Termination date

6. Date of approval of Mining : Renewal under rule 24 MCR1960 03/03/2008 Plan/Scheme of Mining Mining Scheme rule 12 MCDR1988 27/05/2016 MP review under 17(1) MCR 2016 27/12/2019

PART - II : OBSERVATION/COMMENTS OF INSPECTING OFFICERS

Exploration :

Sl.No.	Item	Proposals	Actual work	Remarks
1a	Backlog of previous year	There was no proposal for drilling in 2018-19	No boreholes drilled during 2018-19.	
1b	Exploration over lease area for geological axis 1 or 2	There was no proposal during 2018- 19	Entire area has been explored in the 200 X 200 m and 400 X 400 m Grid pattern previousely. A total 109 no. of boreholes have been drilled in the entire lease area. Total meterage drilled was 9929.6 m. Hence entire lease area can be put in G2/G1 category for the reserve estimation.	This mine is not working since December '2005 for want of Stage II Forest clearance.Stage-II Forest clearance is still awaited. Hence, work could not be commenced as proposed in the previous approved Mining plan.
1c	Exploration Agencies and Expenditure in lakh rupees during the year	No Proposal	No Exploration Done in 2018-19	
1d	Balance area to be explored to bring Geological axis in 1 or 2	No Proposal	No Exploration has been done in 2018-19.	No Exploration has been done in 2018- 19. Entire area has to be explored in G1 Axis
1e	Balance reserve as on 01/04/20		Balance Reserve as on 01/04/2020 Total Probable Reserve - 837.6 Million Tonnes(Probable 121:604.6Tonnes+Probable 122:233Tonnes) Total Resources - 930.7 Million Tonnes	
1f	General remarks of inspecting officers on geology, exploration etc	No Exploration was proposed for 2018-19 and no exploration has been done in 2018-19	Stage-II Forest clearance is still awaited. Hence, work could not be commenced as proposed in the previous approved Mining plan.	This mine is not working since December '2005 for want of Stage II Forest clearance.
Deve	elopment :			
Sl.No.	Item	Propasals	Actual work	Remarks

2a	Location of development w.r.t.lease area	2 Locations - Quarry no.8 and North pit	No Development work has been carried out during 2018-19.	This mine is not working since December '2005 for want of Stage II Forest clearance. Stage-II Forest clearance is still awaited. Hence, work could not be commenced as proposed in the previous approved Mining plan.
2b	Separate benches in topsoil, overburden and minerals (Rule 15)	Seperate benches of OB and minerals are proposed.	No work done in OB & Mineral Benches, Stage-II Forest clearance is still awaited. Hence, work could not be commenced as proposed in the previous approved Mining plan.	Stage-II Forest clearance is still awaited. Hence, work could not be commenced as proposed in the previous approved Mining plan.
2c	Stripping ratio or ore to OB ratio	1:0.119 (T/m3)	No work has been carried out during 2018-19	
2d	Quantity of topsoil generation in m3	Nil	No work has been carried out during 2018-19.	
2e	Quantity of overburden generation in m3	500156 m3 OB/ Topsoil proposed for generation during 2018-19	No work has ben carried out during 2018-19.	
2f	General remarks of inspecting officers on development of pit w.r.t. type of deposit etc		Stage-II Forest clearance is still awaited. Hence, work could not be commenced as proposed in the previous approved Mining plan.	This mine is not working since December '2005 for want of Stage II Forest clearance. Stage-II Forest clearance is still awaited. Hence, work could not be commenced as proposed in the previous approved Mining plan.

Actual work

Remarks

Exploitation:

Item

Propasals

Sl.No.

Number of pit proposed for production

02 Pits (North No production has been Pit & Quarry done during 2018-19 No.8) proposed

production.

3b Quantity of ROM mineral production proposed

During 2018-19, 3.92 Million Tonnes 19 were proposed for production

proportion of

ore types as

mentioned in the geological exploration report, carried out M/s MECL. As per the geological report, the ratio of overburden: Lump ore zone: Powdery ore zone: non ore band within the ore zone

Recovery

on the basis of

tonnage are in proportion of 0.17:1.1, 52:0.07. From this recovery of ore is around 91% on the basis of tonnage. Bulk Density is 3 as per the Geological Report.

No Production has been carried out during 2018-

3с Recovery of sailable/usable mineral from ROM based on the production

No Recovery has been factor is made in 2018-19.

This mine is not working since December '2005 for want of Stage II Forest clearance. Stage-II Forest clearance is still awaited. Hence, work could not be commenced as proposed in the previous approved Mining plan.

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3d	Quantity of mineral reject generation	No Proposal for Mineral Reject generation.	No Mineral Rejects generated during 2018-19	This mine is not working since December '2005 for want of Stage II Forest clearance. Stage-II Forest clearance is still awaited. Hence, work could not be commenced as proposed in the previous approved Mining plan.
3e	Grade of mineral rejects generation and threshold value declared.	No Proposal	No Mineral Rejects generated in 2018-19.	do-
3f	Quantity of sub grade mineral generation.	102050cum. sub-grade mineral generation	No Sub-grade Mineral Generated during 2018-19	- do-
3g	Grade of sub grade mineral generation	45 % Fe to 57 % Fe = Grade of Sub grade Mineral Generation.	No Sub-grade Mineral Generated during 2018-19	do-
3h	Manual / Mechanised method adopted for segregating from ROM	Mechanised.	No ROM Screening done in 2018-19	do-
3i	Any analysis or beneficiation study proposed and carried out for sub grade mineral and rejects.	No proposal proposed	No benificiation study carried out for sub grade mineral rejects.	- do-
3ј	Provision of drilling and blasting in mineral benches	Provision of drilling and blasting in mineral benches present.	No drilling and blsting done in mineral benches.	do-
3k	Provision of mining machineries in mineral benches	Mining Machineries in Mineral Benches proposed.	No Mining Machineries in Mineral Benches were seen during inspection as No work for want of Stage II Forest Clearance.	- do-

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

Bench height 6 Bench height of 6 m and Bench width of 10 m were Bench width 10 found during inspection.

Total area 3m covered under excavation/pits

Details of Details of existing existing Pits. Pits. Quarry No. -8 Quarry No. -8 = Length = Length 507 m 507 m \times Bredth 846 m = X Bredth 846 m 428922 m2 = 42.8922 Ha = 428922 m2 = Quarry No. -6 = Length313.5 m X Bredth 23 m =42.8922 Ha Quarry No.-6 = 7210.5 m2 = 7.21 HaLength 313.5 m Quarry No.-5 = Length 98 X Bredth 23 m m X Bredth 94 m= 9212m2 = 7210.5 m2 = 9.21 Ha.7.21 Ha Total = 59.31 Ha. Quarry No.-5 = Length 98 m X Bredth 94 m=

This mine is not working since December '2005 for want of Stage II Forest clearance. Stage-II Forest clearance is still awaited. Hence, work could not be commenced as proposed in the previous approved Mining plan.

3n Ore to OB ratio Ore to OB for the pit/mine Ratio = during the year. 1:0.119

Stage-II Forest clearance is still awaited. Hence, work could not be commenced as proposed in the previous approved Mining plan.

This mine is not working since December '2005 for want of Stage II Forest clearance. Stage-II Forest clearance is still awaited. Hence, work could not be commenced as proposed in the previous approved Mining plan.

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

Existing Pits = 59.31 Ha.

9212m2 = 9.21

Total = 59.31

Ha.

Ha.

Existing Pits = 59.31 Ha. Dumps = 11 Ha. Dumps = 11 Ha. Stage-II Forest clearance is still awaited. Hence, work could not be commenced as proposed in the previous approved Mining plan.

Stage-II Forest clearance is still awaited. Hence, work could not be commenced as proposed in the previous approved Mining plan.

3p Production of ROM mineral during the last five year period 2015-16 = as applicable

Production of Production of ROM In ROM In Million Million Tonnes Tonnes

2017-18 = 3.96

2018-19 = 3.922019-20 = 3.9

1.52

4.00

2016-17 =

2015-16 = NIL2016-17 = NIL2017-18 = NIL2018-19 = NIL2019-20 = NIL

Stage-II Forest clearance is still awaited. Hence, work could not be commenced as proposed in the previous approved Mining plan.

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

Method of mining proposed is open cast mining with forming benches and drilling and blasting in the mieral benches. But Stage-II Forest clearance is still awaited. Hence, work could not be commenced as proposed in the previous approved Mining plan.

This mine is not working since December '2005 for want of Stage II Forest clearance. Method of mining proposed was open cast mining with forming benches and drilling and blasting in the mieral benches. But Stage-II Forest clearance is still awaited. Hence, work could not be commenced as proposed in the previous approved Mining plan.

Solid Waste Management - Dumping:

Sl.No.	Item	Propasals	Actual work	Remarks
4a	Separate dumping of topsoil, OB and mineral rejects (Rule 32,33)	proposal for seperate dumping of	There is minimal amount of topsoil so generation of topsoil could not be accounted how ever ob & mineral rejects generated earlier have been dumped seperately. But Stage-II Forest clearance is still awaited. Hence, work could not be commenced as proposed in the previous approved Mining plan.	This mine is not working since December '2005 for want of Stage II Forest clearance.

4b	Location of topsoil, OB and mineral reject dumps	OB and mineral rejects dumps are proposed to be dumped within the lease area.	OB and mineral rejects dumps are dumped within the lease area. But Stage-II Forest clearance is still awaited. Hence, work could not be commenced as proposed in the previous approved Mining plan.
4c	Number of dumps within lease area and outside of lease area	Northern Pit	Stage-II Forest clearance is still awaited. Hence, work could not be commenced as proposed in the previous approved Mining plan.
4d	Location of dumps w.r.t. ultimate pit limit (Rule 16)	NE side of the Northern Pit within the lease area.	Stage-II Forest clearance is still awaited. Hence, work could not be commenced as proposed in the previous approved Mining plan.
4e	Number of active and alive dumps.		No active and alive dumps as Stage-II Forest clearance is still awaited. Hence, work could not be commenced as proposed in the previous approved Mining plan.
4f	Number of dead dumps.	Four Fines Dump (Total 116760Tonnes)	No waste dump noticed. The area has not been worked since December '2005 for want of Stage II Forest Clearance. Four Dead Fines Dump (Total 116760Tonnes). Stage-II Forest clearance is still awaited. Hence, work could not be commenced as proposed in the previous approved Mining plan.
4g	Number of dumps established.	Four Fines dead dump to be established by plantation.	Four Fines dead dump established naturally by growth of vegetation.

4h	Whether Retaining wall or garland drain all along dumps are there.	Proposal for retaining wall and garland drain.	Retaining wall present.	Stage-II Forest clearance is still awaited. Hence, work could not be commenced as proposed in the previous approved Mining plan.
4i	Length of Retaining wall or garland drain all along dumps			Stage-II Forest clearance is still awaited. Hence, work could not be commenced as proposed in the previous approved Mining plan.
4j	Number of settling ponds	One	One	Stage-II Forest clearance is still awaited. Hence, work could not be commenced as proposed in the previous approved Mining plan.
4k	Specific comments of inspecting officer on waste dump management		No waste generated and dumped during last year i.e. 2018-19.	Stage-II Forest clearance is still awaited. Hence, work could not be commenced as proposed in the previous approved Mining plan. This mine is not working since December '2005 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.	Full extraction of mineral before backflling.	Mineral has not been fully extracted.	This mine is not working since December '2005 for want of Stage II Forest clearance. Stage-II Forest clearance is still awaited. Hence, work could not be commenced as proposed in the previous approved Mining plan.

5b	Area under backfilling of mined out area	No Proposal	Stage-II Forest clearance is still awaited. Hence, work could not be commenced as proposed in the previous approved Mining plan.	This mine is not working since December '2005 for want of Stage II Forest clearance. Stage-II Forest clearance is still awaited. Hence, work could not be commenced as proposed in the previous approved Mining plan.
5c	Concurrent use of topsoil for restoration or rehabilitation of mineral out area (Rule 32)		Stage-II Forest clearance is still awaited. Hence, work could not be commenced as proposed in the previous approved Mining plan.	This mine is not working since December '2005 for want of Stage II Forest clearance. Stage-II Forest clearance is still awaited. Hence, work could not be commenced as proposed in the previous approved Mining plan.
5d	Total area fully reclaimed and rehabilitated	No such proposal	Stage-II Forest clearance is still awaited. Hence, work could not be commenced as proposed in the previous approved Mining plan.	This mine is not working since December '2005 for want of Stage II Forest clearance. Stage-II Forest clearance is still awaited. Hence, work could not be commenced as proposed in the previous approved Mining plan.
5e	General remarks of inspecting officers on backfilling and reclamation etc.		Stage-II Forest clearance is still awaited. Hence, work could not be commenced as proposed in the previous approved Mining plan.	This mine is not working since December '2005 for want of Stage II Forest clearance. Stage-II Forest clearance is still awaited. Hence, work could not be commenced as proposed in the previous approved Mining plan.

Actual work

Remarks

Progressive Mine Clousre Plan:

Sl.No.

Item

Propasals

6a	Whether Annual report on PMCP submitted on time and correctly. Rule 23 E(2).		Annual Report on PMCP submitted.	This mine is not working since December '2005 for want of Stage II Forest clearance. Stage-II Forest clearance is still awaited. Hence, work could not be commenced as proposed in the previous approved Mining plan.
6b	Area available for rehabilitation (ha) .	Nil	Mines is non-working for want of Stage II Forest Clearance.	This mine is not working since December '2005 for want of Stage II Forest clearance. Stage-II Forest clearance is still awaited. Hence, work could not be commenced as proposed in the previous approved Mining plan.
6c	afforestation done (ha).	Nil	Nearly 15 Ha of land has been afforested.	This mine is not working since December '2005 for want of Stage II Forest clearance.
6d	No. of saplings planted during the year	Nil	600 saplings planted outside lease area during the year.	This mine is not working since December '2005 for want of Stage II Forest clearance.
6e	Cumulative no .of plants	Nil	Afforestation has been taken up over mined out areas and outside lease areas near Chiria Township. So far he mine management have planted nearly 1,04,035 trees in township, hospital, guest house, camps and office areas. Trees that have been planted are Babul, Acacia, Jamun Karanj, Neem, Teak, Amrud(Gwava), Gamhar, Sisam, Ashoka, Sal, Bija, Asan, Mango, etc.	This mine is not working since December '2005 for want of Stage II Forest clearance.
6f	Any other method of rehabilitation	Nil	Not applicable	This mine is not working since December '2005 for want of Stage II Forest clearance.

6g	Cost incurred on	Nil	Nearly 1.00 Lakhs Rupees	
	watch and care during the year			- do-
6h	Compliance on reclamation and rehabilitation by backfilling (i) Voids available for backfilling (Lx B x D	Nil	Not applicable	- do-
6i	Compliance on reclamation and rehabilitation by backfilling (ii) Voids filled by waste / tailings	Nil	Not applicable	- do-
6j	Compliance on reclamation and rehabilitation by backfilling (iii)Afforestati on on backfilled area	Nil	Not applicable	- do-
6k	Compliance on reclamation and rehabilitation by backfilling (iv) Rehabilitation by making water reservoir	Nil	Not applicable	- do-
61	Compliance on reclamation and rehabilitation by backfilling (v)any other specific means.	Nil	Not applicable	- do-
6m	Compliance of rehabilitation of waste land within lease (i)afforestation	Nil	Not applicable	- do-
6n	Compliance of rehabilitation of waste land within lease (ii)Area rehabilitation (ha)	Nil	Not applicable	- do-

60	Compliance of rehabilitation of waste land within lease (iii)Method of rehabilitation	Nil	Not applicable	- do-
бр	Compliance of environmental monitoring (core zone and buffer zone)	Core Zone and	No monitoring done as Mines is non-working.	Stage-II Forest clearance is still awaited. Hence, work could not be commenced as proposed in the previous approved Mining plan.
6q	General remarks of inspecting officers on PMCP compliance and progressive closure operations etc.		Stage-II Forest clearance is still awaited. Hence, work could not be commenced as proposed in the previous approved Mining plan.	This mine is not working since December '2005 for want of Stage II Forest clearance. Stage-II Forest clearance is still awaited. Hence, work could not be commenced as proposed in the previous approved Mining plan.

Mineral Conservation:

Sl.No.	Item	Propasals	Actual work	Remarks
7a	ROM Mineral dispatch or grade-wise sorting within lease area	Proposal for grade wise sorting.	No work done.	This mine is not working since December '2005 for want of Stage II Forest clearance.
7b	Method of grade- wise mineral sorting i.e. manual or mechanical.	Mechanical	No work done.	
7c	Different grade of mineral sorted out at mines.	>58% Fe	No work done	
7d	Any beneficiation process at mines .	No such proposal	No work done.	

7e General remarks
of inspecting
officer on
Mineral
conservation and
beneficiation
issues

Stage-II Forest clearance is still awaited. Hence, work could not be commenced as proposed in the previous approved Mining plan.

This mine is not working since
December '2005 for want of Stage II
Forest clearance.
Stage-II Forest clearance is still awaited. Hence, work could not be commenced as proposed in the previous approved Mining plan.

Environment:

Sl.No.	Item	Propasals	Actual work	Remarks
8a	Separate removal and utilization of topsoil (Rule 32)	topsoil	No work done.	This mine is not working since December '2005 for want of Stage II Forest clearance.
8b	Concurrent use or storage of topsoil	Storage of Topsoil	No work done.	
8c	Separate dumps for overburden, waste rock, rejects and fines (Rule 33)	Proposal for Seperate dumps for OB Wsate rock rejects and fines.	No work done.	
8d	Use of overburden, waste rock, rejects and fines dumps for restoring the land to its original use	Proposal for restoring in its original land use.	No work done.	
8e	Phased restoration, reclamation and rehabilitation of lands affected by mining operations (Pits, dumps etc)	Phase restoration.	No work done.	

8f	Baseline information on existence of plantation and additional plantation done (Rule 41)	No such proposal	600 saplings planted outside lease area during the year.	
8g	Survival rate	No such proposal	60%	
8h	Water sprinkling on roads to control airborne dust	water	no work done as mines was non-working.	
8i	General remarks of inspecting officer on aesthetic beauty in and around mines area		This mine is not working since December '2005 for want of Stage II Forest clearance.	As the mines lies in the Saranda Reserve forest; good greenery lies in and around the Mines. The aesthetic beauty is good in and around the mines area.

Compliance of Rule 45:

Sl.No.	Item	Propasals	Actual work	Remarks
9a	Status of submission of Monthly and Annual returns		Monthly and annual returns submitted on time.	
9b	Scrutiny of Annual return for information on Mining Engineer, Geologist and Manager	Mr. Ratan Kumar Patri,Mining Engineer and Dr. Rajesh Kumar Naik,Geologist	Mining Engineer and geologist appointed were present during the Inspection.	

9c	Scrutiny of Annual return on land use pattern for area under pits, reclaimed area, dumps etc.	O/C working 160ha.,waste disposal area	No work has been carried out hence ther is no change in land use pattern commpared to last year.
9d	Scrutiny of Annual return on afforestation	600nos of saplings planted outside the lease area with survival rate 60%	Found correct.
9e	Scrutiny of Annual return on mineral reject generation (Grade and quantity)	No mineral reject generated and nothing mentioned in Returns	Found correct.
9f	Scrutiny of Annual return on ROM stock and/or graded ore	closing Stock	Graded Ore stock present in the mine
9g	Scrutiny of Annual return on sale value, Ex. Mine price and production cost	Ex. Mine Price& Production	Mines is non-working
9h	Scrutiny of Annual return on fixed assets	Rs. 1375521931/-	Appears to be correct.

9k

Scrutiny of DOZER 320HP: Mining Machineries
Annual return on 1no. present but not in operation, as mines is machineries non-working.

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Details of violations observed de violation pointed out	uring current inspection and compliance position of
Violation observed	Show couse position

Rule NO.

Date: (B.P KERKETTA)

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