INDIAN BUREAU OF MINES
MINERALS DEVELOPMEMT AND REGULATION DIVISION

Review and updation of Mining Plan REPORT

Kolkata regional office

Mine file No : CAL/JHK/SB(W)/FE(M-2) **Mine code : 30JHK18003**

(i) Name of the Inspecting Officer and ID No. : **K004) B.P KERKETTA**

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

(iii) Accompaning mine Official with Designation : Sri S.S.Rao, Manager(Mining)

(iv) Date of Inspection : 08/11/2018

(v) Prev.inspection date :

PART-I : GENERAL INFORMATION

1. (a) **Mine Name** : **MANOHARPUR (SUKRI)**

(b) Registration NO. :

(c) Category : A Fully Mechanised

(d) Type of Working : Opencast

(e) Postal address

State : JHARKHAND
District : SINGHBHUM (WEST)
Village : SUKRI
Taluka : MANOHAR PUR
Post office : CHIRIA
Pin Code : 833106
FAX No. : 06593-263714
E-mail : rmdsail@gmail.com
Phone : 06593-287674

(f) Police Station : MANOHARPUR

(g) First opening date : 01/01/1911

(h) Weekly day of rest : SUN

2. Address for correspondance : STEEL AUTHORITY OF INDIA LTD
MANOHARPUR ORE MINES, P.O.CHIRIA,
SINGHBHUM(W), JHARKHAND-833106

3. (a) Lease Number : BHR0059
(b) Lease area : 38.85
(c) Period of lease : 30
(d) Date of Expiry : 31/08/1979

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 : SRI RAMAN
M/S STEEL AUTHORITY OF
INDIA LTD. ISPAT
BHAWAN,LODHI ROAD,NEW DELHI
PIN 110003 DELHI DELHI
Phone: 9968605103
FAX :

Agent : D.K.BARMAN
MANOHARPUR ORE MINES P.O.
CHIRIA DIST. WEST SINGHBHUM
PIN 833106 SINGHBHUM (WEST)
JHARKHAND
Phone: 8986881002
FAX :

Mining Engineer
Name : S S RAO,Full Time
Qualification : AMIE(MIN)
Appointment/ Termination date : 04/02/2018

Mining Engineer
Name : RAJESH JEE,Full Time
Qualification : AMIE (MIN)
Appointment/ Termination date : 01/07/2004 03/02/2018

Geologist
Name : RAJESH KUMAR NAIK,Full Time
Qualification : M.Phil,PhD (Geo)
Appointment/ Termination date : 14/11/2014

Manager
Name : SUMAN KUMAR
Qualification : AMIE(MINING)
Appointment/ Termination date : 16/07/2014

6. Date of approval of Mining Plan/Scheme of Mining : Mining Scheme rule 12 MCDR1988 05/05/2006
Renewal under rule 24 MCR1960 06/02/2009

PART - II : OBSERVATION/COMMENTS OF INSPECTING OFFICERS

Exploration :

Sl.No.	Item	Proposals	Actual work	Remarks
1a	Backlog of previous year	nil	nil	Not working since 21st March 2009, for want of Stage II Forest Clearance.
1b	Exploration over lease area for geological axis 1 or 2	20	0	Not working since 21st March 2009, for want of Stage II Forest Clearance. Therefore, exploration proposed, could not be done.
1c	Exploration Agencies and Expenditure in lakh rupees during the year	4 Lakh	Nil	Not working since 21st March 2009, for want of Stage II Forest Clearance. Therefore, exploration proposed, could not be done.
1d	Balance area to be explored to bring Geological axis in 1 or 2	16ha	nil	Not working since 21stMarch 2009, for want of Stage II Forest Clearance. Therefore, exploration proposed, could not be done.
1e	Balance reserve as on 01/04/20	4.33million Te	Nil	Not working since 21st March 2009, for want of Stage II Forest Clearance. Therefore, exploration proposed, could not be done.
1f	General remarks of inspecting officers on geology, exploration etc		Exploration could not be done for want of Stage II Forest Clearance.	Not working since 21stMarch 2009, for want of Stage II Forest Clearance. Therefore, exploration proposed, could not be done.

Development :

Sl.No.	Item	Propasals	Actual work	Remarks
2a	Location of development w.r.t.lease area	680,686,692,698,704	Nil	Not working since 21st March 2009, for want of Stage II Forest Clearance.
2b	Separate benches in topsoil, overburden and minerals (Rule 15)	Nil	Nil	-do-
2c	Stripping ratio or ore to OB ratio	4:1	Nil	Not working
2d	Quantity of topsoil generation in m3	Nil	Nil	-do-
2e	Quantity of overburden generation in m3	105232	0	-do-
2f	General remarks of inspecting officers on development of pit w.r.t. type of deposit etc		Mine development could not be done as mine was not working since 21st March 2009,for want of Stage II Forest Clearance.	Not working

Exploitation:

Sl.No.	Item	Propasals	Actual work	Remarks
3a	Number of pit proposed for production	1	Nil	Not working since 21st March 2009, for want of Stage II Forest Clearance. Therefore, exploration proposed, could not be done.
3b	Quantity of ROM mineral production proposed	748549 Te	0	-do-
3c	Recovery of sailable/usable mineral from ROM production	707572 Te	0	Not working
3d	Quantity of mineral reject generation	Nil	0	Not working

3e	Grade of mineral rejects generation and threshold value declared.	Nil	0	Not working
3f	Quantity of sub grade mineral generation.	51221Te	0	Not working
3g	Grade of sub grade mineral generation	45-55%fe	0	Not working
3h	Manual / Mechanised method adopted for segregating from ROM	Partly Manual Manual & Partly machanised	0	Not working
3i	Any analysis or beneficiation study proposed and carried out for sub grade mineral and rejects.	Proposed to carry out beneficiation study centrally for utilisation of Subgrade Ore.	nil	Not working
3j	Provision of drilling and blasting in mineral benches	Wet drilling and Use of dealy detonators	0	Not working
3k	Provision of mining machineries in mineral benches	Hydraulic excavators (Back Hoe) 3nos.,Front End Loaders 3nos,Dumpers 10/16 tonne capacity ,80nos, Drills IR260 3nos. Dozers 1no.,Water Tanker 12KL,2nos. Jackhammer drills 2nos.,Air Compressors 450cfm 3nos.	nil	Not working
3l	Whether height of benches in overburden and mineral suitable for method of mining proposed in MP/SOM	6mts	6m	Not working
3m	Total area covered under excavation/pits	7.48ha.	7.48ha.	Not working

3n	Ore to OB ratio for the pit/mine during the year.	3.5:1	nil	Not working
3o	Total area put in use under different heads at the end of year	10.81ha.	10.81ha.	Not working
3p	Production of ROM mineral during the last five year period as applicable	Year Production 13-14 85300 Te 14-15 747006 Te 15-16 748036 Te 16-17 748971 Te 17-18 758549 Te	Year Production 13-14 0 14-15 0 15-16 0 16-17 0 17-18 0	Not working
3q	General remarks of inspecting officers on method of mining etc.		Production of Iron Ore could not be done as mine was not working since 21st March 2009,for want of Stage II Forest Clearance.	Not working

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 of top soil,OB and minera reject.	Nil	Not working since 21st March 2009, for want of Stage II Forest Clearance.
4b	Location of topsoil, OB and mineral reject dumps	On the eastern pert of the Main Quarry.One subgrade dump on the NNW of Broken area.	On the eastern pert of the Main Quarry.One subgrade dump on the NNW of Broken area.	Not working
4c	Number of dumps within lease area and outside of lease area	1	1	Not working
4d	Location of dumps w.r.t. ultimate pit limit (Rule 16)	Out side the pit	Out side the pit	Not working
4e	Number of active and alive dumps.	1	nil	Not working

4f	Number of dead dumps.	nil	1	Not working
4g	Number of dumps established.	1	1	Not working
4h	Whether Retaining wall or garland drain all along dumps are there.	Not proposed	N.A.	Not working
4i	Length of Retaining wall or garland drain all along dumps	Not Proposed.	Nil	Not working
4j	Number of settling ponds	Nil	Nil	Not working
4k	Specific comments of inspecting officer on waste dump management		Mine not working since 21st March 2009, for want of Stage II Forest Clearance. Therefore , Solid waste management (dumping)could not be done as per approved Modified Mining Plan.	Not working

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	Not working since 21st March 2009, for want of Stage II Forest Clearance.
5b	Area under backfilling of mined out area	No proposal	Not Applicable	Not working
5c	Concurrent use of topsoil for restoration or rehabilitation of mineral out area (Rule 32)	Use in plantation	nil	Not working
5d	Total area fully reclaimed and rehabilitated	No proposal	Not Applicable	Not working

5e	General remarks of inspecting officers on backfilling and reclamation etc.	Mine was not working since 21st March 2009,for want of Stage II Forest Clearance. Therefore , Solid waste management (backfilling)could not be done as per approved Modified Mining Plan.

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	Not working since 21st March 2009, for want of Stage II Forest Clearance.
6b	Area available for rehabilitation (ha) .	i) Nil	Not Applicable	Not working
6c	afforestation done (ha).	ii) 0.1ha	ii) 0.1	Not working
6d	No. of saplings planted during the year	iii) 500(On Exhausted Benches)	600(Outside Mining Lease)	Mine not working
6e	Cumulative no .of plants	N.A.	iv) 2500(WML)+ 15480 (OML)	Not working
6f	Any other method of rehabilitation	iv) No	N.A.	Not working
6g	Cost incurred on watch and care during the year	v) No Specific.	Nil	Mine Not working
6h	Compliance on reclamation and rehabilitation by backfilling (i) Voids available for backfilling (Lx B x D	NA	NA	Not working
6i	Compliance on reclamation and rehabilitation by backfilling (ii) Voids filled by waste / tailings	NA	NA	Not working

6j	Compliance on reclamation and rehabilitation by backfilling (iii)Afforestation on backfilled area	NA	NA	Not working
6k	Compliance on reclamation and rehabilitation by backfilling (iv) Rehabilitation by making water reservoir	NA	NA	Not working
6l	Compliance on reclamation and rehabilitation by backfilling (v)any other specific means.	NA	NA	Not working
6m	Compliance of rehabilitation of waste land within lease (i)afforestation	NA	NA	Not working
6n	Compliance of rehabilitation of waste land within lease (ii)Area rehabilitation (ha)	NA	NA	Not working
6o	Compliance of rehabilitation of waste land within lease (iii)Method of rehabilitation	NA	NA	Not working
6p	Compliance of environmental monitoring (core zone and buffer zone)	Yes, 4 stations monthly	Nil	Not working
6q	General remarks of inspecting officers on PMCP compliance and progressive closure operations etc.		Mine was not working since 21st March 2009,for want of Stage II Forest Clearance.Therefore, Progressive mine closure could not be followed as per approved Modified Mining Plan.	

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 not working since 21st March 2009, for want of Stage II Forest Clearance.
7b	Method of grade-wise mineral sorting i.e. manual or mechanical.	No specific	Nil	Not working
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	Not working
7d	Any beneficiation process at mines .	No beneficiation except crushing aand screening.	Nil	Not working
7e	General remarks of inspecting officer on Mineral conservation and beneficiation issues		Mine was not working since 21st March 2009 for want of Stage II Forest Clearance. Therefore, conservation of mineral could not be followed as per approved Modified Mining Plan.	Not working

Environment:

Sl.No.	Item	Propasals	Actual work	Remarks
8a	Separate removal and utilization of topsoil (Rule 32)	No proposal	Nil	Not working since 21st March 2009, for want of Stage II Forest Clearance.
8b	Concurrent use or storage of topsoil	For plantation	NIl	Not working
8c	Separate dumps for overburden, waste rock, rejects and fines (Rule 33)	2	2	Not working

8d	Use of overburden, waste rock, rejects and fines dumps for restoring the land to its original use	No proposal	Nil	Not working
8e	Phased restoration, reclamation and rehabilitation of lands affected by mining operations (Pits, dumps etc)	No proposal	Nil	Not working
8f	Baseline information on existence of plantation and additional plantation done (Rule 41)	Not given.	Nil	Not working
8g	Survival rate	Not given.	60%	Not working
8h	Water sprinkling on roads to control airborne dust	Proposed.	Nil	Not working
8i	General remarks of inspecting officer on aesthetic beauty in and around mines area		Mine was not working since 21st March 2009, for want of Stage II Forest Clearance. The aesthetic beauty in and around mines area is good.	Not working

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 October, 2018 A.R. submitted up to 2017-18	M.R. Submitted up to October, 2018 A.R. submitted up to 2017-18	Mine not working since 21st March 2009, for want of Stage II Forest Clearance.
9b	Scrutiny of Annual return for information on Mining Engineer, Geologist and Manager	Not given	Sri S.S.Rao, Mining Engineer & Sri R.K.Naik,Geologist w.e.f 04/02/2018.	Not working

9c	Scrutiny of Annual return on land use pattern for area under pits, reclaimed area, dumps etc.	Current O/C Mining Area-16.16ha. Waste Dumps-3.8ha. Plant, building,residential,welfare building-1.12ha., Other purpose(Sorting & sizing of ore,subgrade ,afforestation)12.32ha.	Excavated Area-7.48ha. Waste Dumps-0.6ha. Sub-Grade Ore Dump/ Fine dump-1.61ha. Infrastructure-0.12ha. Roads-1.00ha	The details given in the Annual return is not correct.
9d	Scrutiny of Annual return on afforestation	600nos Outside Mining Lease,survival rate 60%	Found correct.	Mine not working since 21st March 2009, for want of Stage II Forest Clearance.
9e	Scrutiny of Annual return on mineral reject generation (Grade and quantity)	Nil	Nil	Not working
9f	Scrutiny of Annual return on ROM stock and/or graded ore	ROM opening & closing Stock 8157.27Tonnes. ,Graded Ore , Lumps: 55% to below 58% & 62% to below 65% opening & closing Stock, 74412.63Tonnes & 6160Tonnes respectively. Fines: Below 55% & 55% to below 58% opening & closing Stock 49500Tonnes & 584.84Tonnes respectively. ROM Production NIL.	Found Correct.	Not working
9g	Scrutiny of Annual return on sale value, Ex. Mine price and production cost	Nil	Found Correct.	Mine not working since 21st March 2009, for want of Stage II Forest Clearance.

9h	Scrutiny of Annual return on fixed assets	Rs.282904961/-	Not correct. It should be Rs.214965950/-	Not working
9k	Scrutiny of Annual return on mining machineries	Nil	Found Correct.	Mine not working since 21st March 2009, 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