

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

**Review and updation of Mining Plan REPORT**

**Kolkata regional office**

**Mine file No :** KOL/JHK/SB(W)/FE(T-1)

**Mine code :** 30JHK18007

- (i) Name of the Inspecting : **K03** ) **G. S. KANNAN**  
Officer and ID No.
- (ii) Designation : Senior Mining Geologist
- (iii) Accompanying mine : Shri.Sawari, AGM & Shri. Tanveer, Geologist  
Official with  
Designation
- (iv) Date of Inspection : 20/11/2021
- (v) Prev.inspection date : 11/11/2019

**PART-I : GENERAL INFORMATION**

1. (a) **Mine Name** : **TOPAILORE**
- (b) **Registration NO.** : **IBM/5662/2011**
- (c) Category : A Manual
- (d) Type of Working : Opencast
- (e) Postal address :  
State : JHARKHAND  
District : SINGHBHUM (WEST)  
Village : GUA  
Taluka : NOAMUNDI  
Post office : GUA  
Pin Code : 833213  
FAX No. : 06596-263714  
E-mail : guappc@gmail.com  
Phone : 06596-263713
- (f) Police Station : GUA
- (g) First opening date : 12/05/1970
- (h) Weekly day of rest : SUN
2. Address for :  
correspondance
3. (a) Lease Number : JHK0005
- (b) Lease area : 14.15
- (c) Period of lease :
- (d) Date of Expiry : 08/03/2040
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

6. Date of approval of Mining : MP modif under 17(3) MCR 2016 26/12/2019  
Plan/Scheme of Mining

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

## Exploration :

Sl.No.	Item	Proposals	Actual work	Remarks
1a	Backlog of previous year	28 Boreholes has Proposed during 2020-2021	No Boreholes has drilled.	Mine is not Working, for want of Statuary Clearances. RMP has submitted for 2022-2027)
1b	Exploration over lease area for geological axis 1 or 2	28 boreholes was proposed during 2020-2021 in the lease area for Geological axis - 1	No additional boreholes have been drilled in the lease area.	Based on existing drilled boreholes, the entire lease area is considered as G-1
1c	Exploration Agencies and Expenditure in lakh rupees during the year	Own drilling and/ or Contract drilling machines were used for Exploration in the past.	14 Boreholes were drilled past and expenditure details are not available.	MECL has drilled 14 boreholes for total meterage of 383.95 meters to assess the quantity & quality of iron ore fines stacked in the lease.
1d	Balance area to be explored to bring Geological axis in 1 or 2	Exploration was proposed out at 100m X 100m grid interval. 28 Additional exploration was proposed in plan period (2020-2021)	Exploration was not carried out at 100m X 100m grid interval. Due to want of Statuary Clearances.	MECL has drilled 14 boreholes for total meterage of 383.95 meters to assess the quantity & quality of iron ore fines stacked in the lease.
1e	Balance reserve as on 01/04/20	Reserves & Resources as on 01.04.2021 Proved Mineral Reserves (111) = 3.76 million tons Probable Mineral Reserves (121) = 0.95 million tons Inferred Mineral Resources (333) = 1.95 million tons	Reserves & Resources as on 01.04.2021 Proved Mineral Reserves (111) = 5.11 million tons Probable Mineral Reserves (121) = 0.95 million tons Inferred Mineral Resources (333) = 1.95 million tons	Mine is non-working to delay in want of Statuary Clearances. Hence there is no mining activity; R & R has not been changed.

1f	General remarks of inspecting officers on geology, exploration etc	Topailore Iron ore deposit is not a result of a conventional Geological Formation; rather it is result of deposition of Iron Ore fines of - 10mm produced in the adjacent lease.	Iron ore fines are carried to Topailore by process of natural sliding aided by precipitation. Shale is overlain.	Nil
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Development :

Sl.No.	Item	Propasals	Actual work	Remarks
2a	Location of development w.r.t.lease area	Proposed to work on North of earthen bundh-2 and between earthen bundh-2 & 3 during 2020-2021	Nil	Mine is not Working, for want of Statuary Clearances. RMP has submitted for 2022-2027)
2b	Separate benches in topsoil, overburden and minerals (Rule 15)	It is proposed to form 4 benches in mineral.	Nil	Nil
2c	Stripping ratio or ore to OB ratio	No proposal, there is no OB/ waste in this mines.	Nil	Nil
2d	Quantity of topsoil generation in m3	No proposal, there is no Topsoil generation in this mines.	Nil	Nil
2e	Quantity of overburden generation in m3	No proposal, there is no OB generation in this mines.	Nil	Nil
2f	General remarks of inspecting officers on development of pit w.r.t. type of deposit etc	Proposed to work on North of earthen bundh-2 and between earthen bundh-2 & 3 during 2020-2021	There is no Topsoil & OB generation in this mine.	Mine is not Working, for want of Statuary Clearances. RMP has submitted for 2022-2027)

## Exploitation:

Sl.No.	Item	Propasals	Actual work	Remarks
3a	Number of pit proposed for production	Proposed to work on North of earthen bundh-2 and between earthen bundh-2 & 3 during 2020-2021	Nil	Mine is not Working, for want of Statuary Clearances. RMP has submitted for 2022-2027)
3b	Quantity of ROM mineral production proposed	The total target of ROM Production was 600000 tons during 2020-2021.	Nil	Nil
3c	Recovery of sailable/usable mineral from ROM production	ROM Recovery 100%	Nil	Nil
3d	Quantity of mineral reject generation	No proposal for mineral reject during 2020-2021	Nil	Nil
3e	Grade of mineral rejects generation and threshold value declared.	No Proposal	Nil	Nil
3f	Quantity of sub grade mineral generation.	No Proposal	Nil	Nil
3g	Grade of sub grade mineral generation	No Proposal	Nil	Nil
3h	Manual / Mechanised method adopted for segregating from ROM	Mechanised	Nil	Nil
3i	Any analysis or beneficiation study proposed and carried out for sub grade mineral and rejects.	There is no proposal for any beneficiation within lease area	Nil	Nil
3j	Provision of drilling and blasting in mineral benches	No Proposal	It is accumulated fines, so no blasting.	Nil

3k	Provision of mining machineries in mineral benches	Excavators Maintenance Van Truck Dozer Dumper	Nil	Nil
3l	Whether height of benches in overburden and mineral suitable for method of mining proposed in MP/SOM	Bench height of 5m was proposed in Mineral.	Nil	Nil
3m	Total area covered under excavation/pits	6.00 hect area is required upto 2020-2021	Nil	Nil
3n	Ore to OB ratio for the pit/mine during the year.	No proposal, there is no OB/ waste in this mines.	Nil	Nil
3o	Total area put in use under different heads at the end of year	Land use Pattern as on 01.04.2021. Mines = 6.00 hect Road = 0.38 hect	Mine is not started.	Nil
3p	Production of ROM mineral during the last five year period as applicable	2020-2021 = 600000 tons 2019-2020 = 600000 tons 2018-2019 = 150000 tons 2017-2018 = Nil 2016-2017 = Nil	2020-2021 = Nil 2019-2020 = Nil 2018-2019 = Nil 2017-2018 = Nil 2016-2017 = Nil	Nil
3q	General remarks of inspecting officers on method of mining etc.	Mechanised Method is Proposed	Mine is not Working, for want of Statuary Clearances. RMP has submitted for 2022-2027)	Nil

## Solid Waste Management - Dumping:

Sl.No.	Item	Propasals	Actual work	Remarks
4a	Separate dumping of topsoil, OB and mineral rejects (Rule 32,33)	No Proposal	It is an accumulation of fines materials from adjoining lease, there isn't any occurrence of waste or overburden.	Mine is not Working, for want of Statuary Clearances. RMP has submitted for 2022-2027)

4b	Location of topsoil, OB and mineral reject dumps	No Proposal	Nil	Nil
4c	Number of dumps within lease area and outside of lease area	Lease area =Nil Non Lease area= Nil	Lease area =Nil Non Lease area= Nil	Nil
4d	Location of dumps w.r.t. ultimate pit limit (Rule 16)	No Proposal	Nil	Nil
4e	Number of active and alive dumps.	No Proposal	Nil	Nil
4f	Number of dead dumps.	No Proposal	Nil	Nil
4g	Number of dumps established.	No Proposal	Nil	Nil
4h	Whether Retaining wall or garland drain all along dumps are there.	No Proposal	Nil	Nil
4i	Length of Retaining wall or garland drain all along dumps	No Proposal	Nil	Nil
4j	Number of settling ponds	No Proposal	Nil	Nil
4k	Specific comments of inspecting officer on waste dump management	There is no Topsoil & OB generation in this mine.	It is an accumulation of fines materials from adjoining lease, there isn't any occurrence of waste or overburden.	Mine is not Working, for want of Statuary Clearances. RMP has submitted for 2022-2027)

#### 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 Working, for want of Statuary Clearances. RMP has submitted for 2022-2027)
5b	Area under backfilling of mined out area	No Proposal	Nil	Nil

5c	Concurrent use of topsoil for restoration or rehabilitation of mineral out area (Rule 32)	No Proposal	Nil	Nil
5d	Total area fully reclaimed and rehabilitated	No Proposal	Nil	Nil
5e	General remarks of inspecting officers on backfilling and reclamation etc.	Working is proposed in fines stack only, so there is no backfilling proposal.	Nil	Mine is not Working, for want of Statuary Clearances. RMP has submitted for 2022-2027)

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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 submitted on or before 1st July every year.	Submitted for the year 2020-2021.	Mine is not Working, for want of Statuary Clearances. RMP has submitted for 2022-2027)
6b	Area available for rehabilitation (ha) .	No Proposal	Nil	Nil
6c	afforestation done (ha).	No Proposal	Nil	Nil
6d	No. of saplings planted during the year	No Proposal	Nil	Nil
6e	Cumulative no .of plants	No Proposal	Nil	Nil
6f	Any other method of rehabilitation	No Proposal	Nil	Nil
6g	Cost incurred on watch and care during the year	No Proposal	Nil	Nil
6h	Compliance on reclamation and rehabilitation by backfilling (i) Voids available for backfilling ( Lx B x D	No Proposal	Nil. Mine is not started	Mine is not Working, for want of Statuary Clearances. RMP has submitted for 2022-2027)

6i	Compliance on reclamation and rehabilitation by backfilling (ii) Voids filled by waste / tailings	No Proposal	Nil	Nil
6j	Compliance on reclamation and rehabilitation by backfilling (iii) Afforestation on backfilled area	No Proposal	Nil	Nil
6k	Compliance on reclamation and rehabilitation by backfilling (iv) Rehabilitation by making water reservoir	No Proposal	Nil	Nil
6l	Compliance on reclamation and rehabilitation by backfilling (v) any other specific means.	No Proposal	Nil	Nil
6m	Compliance of rehabilitation of waste land within lease (i) afforestation	250 saplings proposed in safety barrier area for 2020-2021	50 saplings inside the lease area and 100 saplings outside the lease area.	Mine is not Working, for want of Statuary Clearances. RMP has submitted for 2022-2027)
6n	Compliance of rehabilitation of waste land within lease (ii) Area rehabilitation (ha)	Proposed 0.25 hect in 2020-2021	As per proposal plantation has done on safety barrier	Nil
6o	Compliance of rehabilitation of waste land within lease (iii) Method of rehabilitation	Nil	Nil	Nil
6p	Compliance of environmental monitoring (core zone and buffer zone)	Bi-Annually Survey	Environment monitoring is carried out through own as well as private agency.	Nil

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.	50 saplings inside the lease area and 100 saplings outside the lease area.	Mine is not Working, for want of Statuary Clearances. RMP has submitted for 2022-2027)
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#### Mineral Conservation:

Sl.No.	Item	Propasals	Actual work	Remarks
7a	ROM Mineral dispatch or grade-wise sorting within lease area	The total target of ROM Production was 600000 tons during 2020-2021.	Nil	Mine is not Working, for want of Statuary Clearances. RMP has submitted for 2022-2027)
7b	Method of grade-wise mineral sorting i.e. manual or mechanical.	Mechanical Process	Nil	Nil
7c	Different grade of mineral sorted out at mines.	Fe = 57.24% Al2O3 = 5.22% Proposed during 2020-2021	Nil	Nil
7d	Any beneficiation process at mines .	No Processing proposed, already it is size range of -10mm.	Nil	Nil
7e	General remarks of inspecting officer on Mineral conservation and beneficiation issues	The total target of ROM Production was 600000 tons during 2020-2021.	No Production has carried out	Mine is not Working, for want of Statuary Clearances. RMP has submitted for 2022-2027)

#### Environment:

Sl.No.	Item	Propasals	Actual work	Remarks
8a	Separate removal and utilization of topsoil (Rule 32)	No Proposal	It is an accumulation of fines materials from adjoining lease, there isn't any occurrence of waste or overburden.	Mine is not Working, for want of Statuary Clearances. RMP has submitted for 2022-2027)

8b	Concurrent use or storage of topsoil	No Proposal	Nil	Nil
8c	Separate dumps for overburden, waste rock, rejects and fines (Rule 33)	No Proposal	It is an accumulation of fines materials from adjoining lease, there isn't any occurrence of waste or overburden.	Nil
8d	Use of overburden, waste rock, rejects and fines dumps for restoring the land to its original use	No Proposal	It is an accumulation of fines materials from adjoining lease, there isn't any occurrence of waste or overburden.	Nil
8e	Phased restoration, reclamation and rehabilitation of lands affected by mining operations (Pits, dumps etc)	No Proposal	Nil	Nil
8f	Baseline information on existence of plantation and additional plantation done (Rule 41)	250 saplings/year have proposed.	50 saplings inside the lease area and 100 saplings outside the lease area.	Nil
8g	Survival rate	No such proposal in the approved document	65% within lease area	Nil
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.	Nil
8i	General remarks of inspecting officer on aesthetic beauty in and around mines area	Scanty vegetation, agriculture are observed in lease area	Surrounding area beyond lease area is greenery. The area is flat undulating terrain.	Area is in forest and there is no agricultural land within the lease.

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Compliance of Rule 45:

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Sl.No.	Item	Propasals	Actual work	Remarks
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9a	Status of submission of Monthly and Annual returns	MR Submitted up to = October 2021 AR Submitted up to = 2020-2021	Both Annual & Monthly returns are submitting in online system.	Nil
9b	Scrutiny of Annual return for information on Mining Engineer, Geologist and Manager	Full time Mining Engineer and Geologist has shown	As per record Mining Engineer and Geologist are present during Inspection	Mine is not Working, for want of Statuary Clearances. RMP has submitted for 2022-2027)
9c	Scrutiny of Annual return on land use pattern for area under pits, reclaimed area, dumps etc.	Landuse pattern is given	Landuse pattern is filled as per approved mining plan	Nil
9d	Scrutiny of Annual return on afforestation	50 saplings achieved during 2020-2021 inside the lease area and 100 outside the lease area.	It is advised to plant as per proposal.	Nil
9e	Scrutiny of Annual return on mineral reject generation (Grade and quantity)	There is no Mineral Rejects Generation	There is no Mineral Rejects Generation	Nil
9f	Scrutiny of Annual return on ROM stock and/or graded ore	Iron Ore Stock as on 01.04.2021 ROM Opening stock = Nil ROM Closing stock = Nil	Due to Non-Working from 2000, there is no ROM stock and all are nil only.	Nil
9g	Scrutiny of Annual return on sale value, Ex. Mine price and production cost	Cost of Production & Ex. Mine Price has Zero	It is captive mine of SAIL.	Nil
9h	Scrutiny of Annual return on fixed assets	Fixed Assets is given	Fixed Assets is filled	Nil
9k	Scrutiny of Annual return on mining machineries	Machineries details not given	Due to Non-Working, there is no availability of machineries in field.	Nil

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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

**Date :**

**(G. S. KANNAN)**

Indian Bureau of Mines