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MCDR inspection REPORT

Kolkata regional office

Mine file No : KOL/JHK/SB(E)/Ky-2

Mine code : 33BHR27001

- (i) Name of the Inspecting : **K001**) **B.L. KISKU**
Officer and ID No.
- (ii) Designation : Assistant Controller Mine
- (iii) Accompanying mine : Sri Arvind Kumar, project officer (HQ) & Sri Ajay Sin
Official with
Designation
- (iv) Date of Inspection : 08/11/2023
- (v) Prev.inspection date : 31/03/2023

PART-I : GENERAL INFORMATION

1. (a) **Mine Name** : **JYOTI - PAHARI**
- (b) **Registration NO.** :
- (c) Category : B Manual
- (d) Type of Working : Opencast
- (e) Postal address
State : JHARKHAND
District : SINGHBHUM (EAST)
Village : JYOTI - PAHARI
Taluka : BAHRAGORA
Post office : GUHIAPAL
Pin Code : 832101
FAX No. : NIL
E-mail : arun88singh@hotmail.com
Phone : 06594-224324
- (f) Police Station :
- (g) First opening date : 19/08/1994
- (h) Weekly day of rest : SUN
2. Address for : PO : GUHAIPALI .
correspondance DIST: EAST SINGHBHUM .
JHARKHAND .
3. (a) Lease Number : BHR0336
(b) Lease area : 20.34
(c) Period of lease : 20
(d) Date of Expiry : 18/08/2004
4. Mineral worked : KYANITE Main

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5. Name and Address of the

Lessee : JHARKHAND STATE MINERAL DEV. CORP. LTD
KHANIJ NIGAM BHAWAN Nepal
House area, DORONDA RANCHI
-834 002 RANCHI JHARKHAND
Phone:0651-2491807 / 2491932 / 2491842
FAX :0651-2491916

Owner : ARUN KUMAR SINGH
M/s JSMDC Ltd. KHANIJ NIGAM
BHAWAN,NEPAL HOSE AREA
RANCHI SINGHBHUM (EAST)
JHARKHAND
Phone: 0651-2491842
FAX : 0651-2491916

6. Date of approval of Mining : Mining Scheme rule 12 MCDR1988 21/03/2007
Plan/Scheme of Mining : MP review under 17(1) MCR 2016 29/10/2019

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PART - II : OBSERVATION/COMMENTS OF INSPECTING OFFICERS

Exploration :

Sl.No.	Item	Proposals	Actual work	Remarks
1a	Backlog of previous year	N.A.	N.A.	Nil
1b	Exploration over lease area for geological axis 1 or 2	N.A.	N.A.	Nil
1c	Exploration Agencies and Expenditure in lakh rupees during the year	N.A.	N.A.	Nil
1d	Balance area to be explored to bring Geological axis in 1 or 2	Un-explored area 18.289 hect. (Out of total unexplored area, 11.632 hect. is alluvial soil area ,which is non mineralised. Hence, remaining 6.657 hect. area are yet to be proposed for exploration)	Un-explored area 18.289 hect. (Out of total unexplored area, 11.632 hect. is alluvial soil area ,which is non mineralised. Hence, remaining 6.657 hect. area are yet to be proposed for exploration)	Nil
1e	Balance reserve as on 01/04/20	As on 01/04/2023: - Probable Reserve 121: 330201.60 MT Pre-feasibility mineral resources 221:599377MT	As on 01/04/2023: - Probable Reserve 121 - 325345.70 MT Pre-feasibility mineral resources - 599377.92 MT	Nil
1f	General remarks of inspecting officers on geology, exploration etc	N.A.	N.A.	Nil

Development :

Sl.No.	Item	Proposals	Actual work	Remarks
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2a	Location of development w.r.t.lease area	Quarry 2 & Quarry - 5	It has been found that during 2022-23, the mining operation was closed from 22/06/2022, due to want of EC & CTO from the concerned authority upto 10th September'2022. Mine re-started on 11th September' 2022. Form C has been submitted received in this office vide dy.no. 670 dated 16/09/2022. Quarry 2 & Quarry - 5 have been worked.	Nil
2b	Separate benches in topsoil, overburden and minerals (Rule 15)	Only working in Mineral Bench was proposed having intermediate waste.	Only working in Mineral Bench was proposed having intermediate waste.	Nil
2c	Stripping ratio or ore to OB ratio	1:0.39	1:0.00	Nil
2d	Quantity of topsoil generation in m3	No proposal for topsoil generation.	Top soil generation are nil.	Nil
2e	Quantity of overburden generation in m3	4331cum.	1566 cum	Nil
2f	General remarks of inspecting officers on development of pit w.r.t. type of deposit etc	N.A.	N.A.	Nil

Exploitation:

Sl.No.	Item	Propasals	Actual work	Remarks
3a	Number of pit proposed for production	2 Pits: Quarry 2 & 5.	Pits: Quarry 2 & 5.	The mine is not in operation since 22.06.2022 due to want of EC from SEIAA & CTO from JSPCB. Mine re-started on 11th September'2022.

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3b	Quantity of ROM mineral production proposed	During 2022-23 = 10,336 MT	2071.00 MT	Mine re-started on September, 2022.
3c	Recovery of sailable/usable mineral from ROM production	90 % by Manual sorting	90 % by Manual sorting.	Nil
3d	Quantity of mineral reject generation	N.A.	N.A.	Nil.
3e	Grade of mineral rejects generation and threshold value declared.	N.A.	N.A.	Nil
3f	Quantity of sub grade mineral generation.	No subgrade.	No subgrade Mineral generated.	Nil
3g	Grade of sub grade mineral generation	No subgrade.	No subgrade mineral generated.	Nil
3h	Manual / Mechanised method adopted for segregating from ROM	Manual	Manual	Nil
3i	Any analysis or beneficiation study proposed and carried out for sub grade mineral and rejects.	N.A.	N.A.	Nil
3j	Provision of drilling and blasting in mineral benches	Yes. Provision of drilling and blasting in Mineral Benches.	Drilling and controlled blasting in Mineral Benches are practised.	Nil
3k	Provision of mining machineries in mineral benches	Air Compressor & Jack Hammers in mineral benches.	Air Compressor & Jack Hammers in mineral benches used.	Nil
3l	Whether height of benches in overburden and mineral suitable for method of mining proposed in MP/SOM	Height & Width of Mineral Benches =3 m X 3m	Height & Width of Mineral Benches =3 m X 3m were observed during the inspection.	Nil

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3m	Total area covered under excavation/pits	Q1 = 32m X 23 m X5m Q2 = 85 m X 22 mX8m Q3 = 40m X 18 mX8m Q4 = 45m X 20mX8m Q5 = 70m X 20m X 7m Q6 =33m X 21m X 6m	At the time of inspection pits of approx. size were found- Q1 = 32m X 23m X 5m Q2 = 86m X 22 m X 9m Q3 = 40m X 18m X 8m Q4 = 45m X 20m X 8m Q5 = 73m X 22 m X 8m Q6 =33m X 21 m X 6m	The mine is frequently closed down since 22/06/2012 due to want of EC from SEIAA & CTO from JSPCB. Mine re-opened on 11th September'2022.
3n	Ore to OB ratio for the pit/mine during the year.	1:0.39	1:0.00	Nil
3o	Total area put in use under different heads at the end of year	Total area= 3.138 hecets.	Approx total area= 3.138 hecets.	The mine is frequently not in operation since 22.06.2012 due to want of EC from SEIAA & CTO from JSPCB.M ine re-started on 11th September' 2022.
3p	Production of ROM mineral during the last five year period as applicable	2017-18=10000 MT 2018-19=7550 MT 2019-20=10962 MT 2020-21=7328 MT 2021-22=10336 MT 2022-23= 10336 MT	2018-19=NIL 2019-20=NIL 2020-21=NIL 2021-22=2784.90 MT 2022-23=2071.00 MT	Nil
3q	General remarks of inspecting officers on method of mining etc.	N.A.	N.A.	Nil

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)	There was no proposal for generation of Topsoil , O.B. & Rejects during 2022-23. Only O.B. generation proposed 2410 MT.	O.B. generated 1566 MT.	Nil
4b	Location of topsoil, OB and mineral reject dumps	Topsoil :Nil,OB./I.B.: 2410 cum. Reject:nil during 2021-22	There was no generation of Topsoil & Rejects during 2022-23. Only Interburden generated 1566 cum.	Nil
4c	Number of dumps within lease area and outside of lease area	1 (one) waste dump on the west side of mine covering 0.3 ha area outside the ultimate pit limit.	No dumps within the lease or outside the lease area found	The mine is not in operation since 22.06.2012 due to want of EC from SEIAA & CTO from JSPCB. Mine re-started on 11th September'2021 and intermittently closed down.
4d	Location of dumps w.r.t. ultimate pit limit (Rule 16)	One waste dump on the west side of mine covering 0.3ha area outside the ultimate pit limit.	One waste dump on the west side of mine covering 0.3 ha area outside the ultimate pit limit.	Nil
4e	Number of active and alive dumps.	One waste dump on the west side of mine covering 0.3 ha area outside the ultimate pit limit.	No active dump found within lease.	Nil
4f	Number of dead dumps.	No proposal.	No dead dumps found.	Nil
4g	Number of dumps established.	One waste dump on the west side of mine covering 0.3 ha area outside the ultimate pit limit.	No dumps established	Nil
4h	Whether Retaining wall or garland drain all along dumps are there.	No proposal.	No dumps, no garland drain and no retaining wall.	Nil

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4i	Length of Retaining wall or garland drain all along dumps	N.A.	N.A.	Nil
4j	Number of settling ponds	N.A.	N.A.	Nil
4k	Specific comments of inspecting officer on waste dump management	N.A.	N.A.	The mine is not in operation since from 22.06.2012 due to want of EC from SEIAA & CTO from JSPCB. Mine re-started on 11th September'2022. Mine is frequently closed down.

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.	N.A.	Mine re-started on 11th September'2022. Mine is remaining closed intermittently.
5b	Area under backfilling of mined out area	No proposal.	N.A.	Nil
5c	Concurrent use of topsoil for restoration or rehabilitation of mineral out area (Rule 32)	No proposal.	N.A.	Nil
5d	Total area fully reclaimed and rehabilitated	No proposal.	N.A.	Nil.
5e	General remarks of inspecting officers on backfilling and reclamation etc.	N.A.	N.A.	Nil

Progressive Mine Clousre Plan:

Sl.No.	Item	Propasals	Actual work	Remarks
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6a	Whether Annual report on PMCP submitted on time and correctly. Rule 23 E(2).	Annual report on PMCP to be submitted in due time.	Annual report on PMCP already submitted in due time.	Nil
6b	Area available for rehabilitation (ha) .	No proposal.	No work done.	Nil
6c	afforestation done (ha).	Green belt development by planting 50 nos. saplings in 0.15 ha.	125 saplings planted with 60% survival rate in about 0.20 ha.	Nil
6d	No. of saplings planted during the year	There was proposal of 50 saplings to be planted in 2022-23.	125 nos. saplings planted with 60% survival rate.	Nil
6e	Cumulative no .of plants	No proposal.	Approx. 100 number of plants exists in and around the lease boundary.	Nil
6f	Any other method of rehabilitation	No proposal.	Nil	Nil
6g	Cost incurred on watch and care during the year	No proposal.	As seen and reported during inspection that most of the trees are fully grown so no watch and care cost is involved.	Nil
6h	Compliance on reclamation and rehabilitation by backfilling (i) Voids available for backfilling (Lx B x D	No proposal.	N.A.	Nil
6i	Compliance on reclamation and rehabilitation by backfilling (ii) Voids filled by waste / tailings	No proposal.	N.A.	Nil
6j	Compliance on reclamation and rehabilitation by backfilling (iii)Afforestation on on backfilled area	No proposal.	N.A.	Nil

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6k	Compliance on reclamation and rehabilitation by backfilling (iv) Rehabilitation by making water reservoir	No proposal.	N.A.	Nil
6l	Compliance on reclamation and rehabilitation by backfilling (v)any other specific means.	No proposal.	N.A.	Nil
6m	Compliance of rehabilitation of waste land within lease (i)afforestation	Plantation of 50 nos. saplings.	125 nos. saplings planted.	Nil
6n	Compliance of rehabilitation of waste land within lease (ii)Area rehabilitation (ha)	0.15 ha.	About 0.20 ha.	Nil
6o	Compliance of rehabilitation of waste land within lease (iii)Method of rehabilitation	By Plantation.	125 nos. saplings planted.	Nil
6p	Compliance of environmental monitoring (core zone and buffer zone)	Environmental Monitoring proposed.	Environmental Monitoring i.e. Air, Water & Noise monitoring is done Quarterly.	Nil
6q	General remarks of inspecting officers on PMCP compliance and progressive closure operations etc.	N.A.	N.A.	Mine re-started on 11th September' 2022. Mine is intermittently remaining closed.

Mineral Conservation:

Sl.No.	Item	Propasals	Actual work	Remarks
7a	ROM Mineral dispatch or grade-wise sorting within lease area	Grade wise sorting within the lease area.	Grade wise sorting & sizing is carried out within the lease area.	Nil

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7b	Method of grade-wise mineral sorting i.e. manual or mechanical.	Manual.	Manual.	Nil
7c	Different grade of mineral sorted out at mines.	Proposal of differnt grades of mineral sorted at mines	Differnt grades of mineral sorted manually at mines.	Nil
7d	Any beneficiation process at mines	No proposal.	Only manual sorting & sizing is done.	Nil
7e	General remarks of inspecting officer on Mineral conservation and beneficiation issues	N.A.	N.A.	Mine started on 11th September' 2022. Mine is intermittently remaining closed.

Environment:

Sl.No.	Item	Propasals	Actual work	Remarks
8a	Separate removal and utilization of topsoil (Rule 32)	No proposal.	N.A.	No proposal for removal of topsoil
8b	Concurrent use or storage of topsoil	No proposal.	N.A.	Nil
8c	Separate dumps for overburden, waste rock, rejects and fines (Rule 33)	Yes, separate waste dumps proposed for waste.	1566 cum OB /IB generated during 2022-23.	Nil
8d	Use of overburden, waste rock, rejects and fines dumps for restoring the land to its original use	No proposal.	N.A.	Mine lease is located in Hill slope. Hence, O.B./I.B. generated is used for restoring the voids by backfilling.

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8e	Phased restoration, reclamation and rehabilitation of lands affected by mining operations (Pits, dumps etc)	Rstoring & Reclaiming the voids proposed.	Phased restoration ,reclamation and rehabilitation carried out. Plantation of 125 nos. saplings done in about 0.20 ha.	Nil
8f	Baseline information on existence of plantation and additional plantation done (Rule 41)	No proposal	No data collection report is reported.	Nil
8g	Survival rate	N.A.	60%	Nil
8h	Water sprinkling on roads to control airborne dust	Yes, proposed.	Water sprinkling on roads to control airborne dust carried out.	Nil
8i	General remarks of inspecting officer on aesthetic beauty in and around mines area	N.A.	N.A.	The lease area is surrounded with hilly terrain on one side and plantation on the other side giving a good aesthetic beauty.

Compliance of Rule 45:

Sl.No.	Item	Propasals	Actual work	Remarks
9a	Status of submission of Monthly and Annual returns	Online Monthly and Annual returns to be submitted in time.	Online Monthly and Annual returns submitted in time.	Mine re-started on 11th September'2022. Mine is intermittently remaining closed.
9b	Scrutiny of Annual return for information on Mining Engineer, Geologist and Manager	1. Mining Engineer: Shri Arvind Kumar, B.E.(Mining) 2. Geologist: Shri O.P.Singh, M.Sc. (Geology)	At the time of inspection both are present.	Nil

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9c	Scrutiny of Annual return on land use pattern for area under pits, reclaimed area, dumps etc.	Area covered under (O/C) Workings: 0.83 ha.	Break up of land use is given as: - (i) Covered under current (O-C) Workings = 0.83 hecets., (ii) Used for waste disposal = 1.23 hecets., (iii) Occupied by plant, buildings, residential, welfare buildings and roads = 1.65 hecets., (iv) Work done under progressive mine closure plan during the year = 0.855 hecets. (v) Un-touched area = 15.766 hecets.	Nil
9d	Scrutiny of Annual return on afforestation	125 nos. of trees planted within lease area. Survival rate 60%.	125 nos. of trees planted within lease area. Survival rate 60%.	Nil
9e	Scrutiny of Annual return on mineral reject generation (Grade and quantity)	N.A.	N.A.	Nil
9f	Scrutiny of Annual return on ROM stock and/or graded ore	ROM: Opening - 789.78 MT & Closing Stock - Nil, ROM Production during 2022-23: 2071.00 MT, Closing stock of Below 40% Al ₂ O ₃ - 1541.28 MT.	Appears to be correct.	Nil
9g	Scrutiny of Annual return on sale value, Ex. Mine price and production cost	Ex mine Price Rs.1850per tonne, Sale Value - Rs. 2441075/- below 40% Al ₂ O ₃ Kyanite despatched to NIRMAL.	Appears to be correct.	Nil
9h	Scrutiny of Annual return on fixed assets	Fixed Asset : Nil	Found correct.	Nil
9k	Scrutiny of Annual return on mining machineries	Nil	Air Compressor & Jack Hammers should have been given.	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 :

(B.L. KISKU)

Indian Bureau of Mines

Signed by Babulal Kisku
Date: 09-05-2024 11:18:04
Reason: Approved