

**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(E)/Ky-2

Mine code : 33BHR27001

- (i) Name of the Inspecting : **E025**) **NAMAN EKKA**
Officer and ID No.
- (ii) Designation : Junior Mining Geologist
- (iii) Accompanying mine : Shri Arvind Kumar, Agent of Mines
Official with
Designation
- (iv) Date of Inspection : 14/08/2019
- (v) Prev.inspection date :

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

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 JSMDL 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

PART - II : OBSERVATION/COMMENTS OF INSPECTING OFFICERS

Exploration :

Sl.No.	Item	Proposals	Actual work	Remarks
1a	Backlog of previous year	No exploration proposal was given in the previous scheme of mining.	It has been noticed that during the last scheme of mining period no exploration was carried out as the mine is closed since 07.06.2012	The mine is not in operation since 07.06.2012 due to order of suspension of mining operation under Rule 13(2) of MCDR, 1988 vide IBM letter No. KOL/JHK/SB(K)/Ky-2, dated 22.06.2012 for non-submission of Scheme of Mining. However, Scheme of Mining for the period of 2014-15 to 2018-19 was approved on 28.08.2015. But, the mine could not be operated till date due to want of Environmental Clearance from SEIAA, Jharkhand and CTO from JSPCB.
1b	Exploration over lease area for geological axis 1 or 2	No exploration proposal was given in the previous scheme of mining.	G1+G2 = 2.042 Ha. G3 = NIL Unexplored = 18.289 ha (Out of total un-explore area, 11.632 ha alluvial soil area has no mineralized zone. Hence, remaining 6.657 is unexplored	
1c	Exploration Agencies and Expenditure in lakh rupees during the year	No Exploration Proposed	It has been noticed that during the last scheme of mining period no exploration was carried out as the mine is closed since 07.06.2012	
1d	Balance area to be explored to bring Geological axis in 1 or 2	No Exploration Proposed	G1+G2 = 2.042 Ha. G3 = NIL Unexplored = 18.289 ha (Out of total un-explore area, 11.632 ha alluvial soil area has no mineralized zone. Hence, remaining 6.657 is unexplored	

1e	Balance reserve as on 01/04/20	Total Reserve + Resources = 1056413 Tonnes	
1f	General remarks of inspecting officers on geology, exploration etc	No Exploration has been carried out since 2012 onwards as mines was not in operation.	The mine is not in operation since 07.06.2012 due to order of suspension of mining operation under Rule 13(2) of MCDR, 1988 vide IBM letter No. KOL/JHK/SB(K)/Ky- 2, dated 22.06.2012 for non-submission of Scheme of Mining. However, Scheme of Mining for the period of 2014-15 to 2018-19 was approved on 28.08.2015. But, the mine could not be operated till date due to want of Environmental Clearance from SEIAA, Jharkhand and CTO from JSPCB.

Development :

Sl.No.	Item	Propasals	Actual work	Remarks
2a	Location of development w.r.t.lease area	Quarry 2, Quarry 3 & Quarry - 5	It has been found that during the scheme of mining period of working the mining operation was closed due to want of EC & CTO from the concerned authority.	The mine is not in operation since 07.06.2012 due to want of EC from SEIAA & CTO from JSPCB.
2b	Separate benches in topsoil, overburden and minerals (Rule 15)	Only working in Mineral Bench was proposed having intermediate waste.	It has been found that during the scheme of mining period of working the mining operation was closed due to want of EC & CTO from the concerned authority.	

2c	Stripping ratio or ore to OB ratio	1:1.15	It has been found that during the scheme of mining period of working the mining operation was closed due to want of EC & CTO from the concerned authority.	
2d	Quantity of topsoil generation in m3	No proposal for topsoil generation	It has been found that during the scheme of mining period of working the mining operation was closed due to want of EC & CTO from the concerned authority.	
2e	Quantity of overburden generation in m3	No proposal for OB Generation	It has been found that during the scheme of mining period of working the mining operation was closed due to want of EC & CTO from the concerned authority.	
2f	General remarks of inspecting officers on development of pit w.r.t. type of deposit etc		The mine is not in operation since 07.06.2012 due to want of EC from SEIAA & CTO from JSPCB.	The mine is not in operation since 07.06.2012 due to want of EC from SEIAA & CTO from JSPCB.

Exploitation:

Sl.No.	Item	Propasals	Actual work	Remarks
3a	Number of pit proposed for production	3 Pits Quarry 2, 3 & 5	The mine is not in operation since 07.06.2012 due to want of EC from SEIAA & CTO from JSPCB.	
3b	Quantity of ROM mineral production proposed	During 2018-19 = 58080 Tonnes	The mine is not in operation since 07.06.2012 due to want of EC from SEIAA & CTO from JSPCB.	
3c	Recovery of sailable/usable mineral from ROM production	90 % by Manual sorting	The mine is not in operation since 07.06.2012 due to want of EC from SEIAA & CTO from JSPCB.	
3d	Quantity of mineral reject generation	Proposal for 2018-19= 11330 Tonnes	The mine is not in operation since 07.06.2012 due to want of EC from SEIAA & CTO from JSPCB.	

3e	Grade of mineral rejects generation and threshold value declared.	No Proposal	The mine is not in operation since 07.06.2012 due to want of EC from SEIAA & CTO from JSPCB.	
3f	Quantity of sub grade mineral generation.	NO subgrade Mineral Generation proposal	The mine is not in operation since 07.06.2012 due to want of EC from SEIAA & CTO from JSPCB.	
3g	Grade of sub grade mineral generation	NO subgrade Mineral Generation proposal	The mine is not in operation since 07.06.2012 due to want of EC from SEIAA & CTO from JSPCB.	
3h	Manual / Mechanised method adopted for segregating from ROM	Manual	The mine is not in operation since 07.06.2012 due to want of EC from SEIAA & CTO from JSPCB.	
3i	Any analysis or beneficiation study proposed and carried out for sub grade mineral and rejects.	No Proposal	The mine is not in operation since 07.06.2012 due to want of EC from SEIAA & CTO from JSPCB.	
3j	Provision of drilling and blasting in mineral benches	Yes, Provision of drilling and blasting in Mineral Benches.	The mine is not in operation since 07.06.2012 due to want of EC from SEIAA & CTO from JSPCB.	
3k	Provision of mining machineries in mineral benches	No proposal for Mining machineries in mineral benches.	The mine is not in operation since 07.06.2012 due to want of EC from SEIAA & CTO from JSPCB.	
3l	Whether height of benches in overburden and mineral suitable for method of mining proposed in MP/SOM	Height of Mineral Benches =4 m	Height of Mineral Benches approx. 4 m was found during inspection.	
3m	Total area covered under excavation/pits	Q1 = 32m X 23 m Q2 = 85 m X 22 m Q3 = 40m X 18 m Q4 = 45m X 20m Q5 = 70m X 20 m. Q6 =33m X 21 m.	At the time of inspection pits of approx. size were present Q1 = 32m X 23 m Q2 = 85 m X 22 m Q3 = 40m X 18 m Q4 = 45m X 20m Q5 = 70m X 20 m. Q6 =33m X 21 m.	The mine is not in operation since 07.06.2012 due to want of EC from SEIAA & CTO from JSPCB.

3n	Ore to OB ratio for the pit/mine during the year.	1:1.15	The mine is not in operation since 07.06.2012 due to want of EC from SEIAA & CTO from JSPCB.	
3o	Total area put in use under different heads at the end of year	Total area= 3.138 Ha.	Approx total area= 3.138 HA.	The mine is not in operation since 07.06.2012 due to want of EC from SEIAA & CTO from JSPCB.
3p	Production of ROM mineral during the last five year period as applicable	2014-15 = 24624 t 2015-16 = 22640 t 2016-17 = 25840 t 2017-18 = 24960 t 2018-19 = 18880 t	The mine is not in operation since 07.06.2012 due to want of EC from SEIAA & CTO from JSPCB.	
3q	General remarks of inspecting officers on method of mining etc.		The mine is not in operation since 07.06.2012 due to want of EC from SEIAA & CTO from JSPCB.	The mine is not in operation since 07.06.2012 due to want of EC from SEIAA & CTO from JSPCB.

Solid Waste Management - Dumping:

Sl.No.	Item	Propasals	Actual work	Remarks
4a	Separate dumping of topsoil, OB and mineral rejects (Rule 32,33)	There was no rproposal for generation of Topsoil OB & Rejects during 2018-19	The mine is not in operation since 07.06.2012 due to want of EC from SEIAA & CTO from JSPCB.	
4b	Location of topsoil, OB and mineral reject dumps	There was no rproposal for generation of Topsoil OB & Rejects during 2018-19	The mine is not in operation since 07.06.2012 due to want of EC from SEIAA & CTO from JSPCB.	
4c	Number of dumps within lease area and outside of lease area	No proposal	No dumps within the lease or outside the lease area found	The mine is not in operation since 07.06.2012 due to want of EC from SEIAA & CTO from JSPCB.
4d	Location of dumps w.r.t. ultimate pit limit (Rule 16)	No poposal for dumps	No dumps found	

4e	Number of active and alive dumps.	No proposal for dumps	No dumps found.	
4f	Number of dead dumps.	No proposal	No dead dumps found.	
4g	Number of dumps established.	No dumps	No dumps established	
4h	Whether Retaining wall or garland drain all along dumps are there.	No dumps	No dumps, no garland drain and no retaining wall.	
4i	Length of Retaining wall or garland drain all along dumps	No dumps	No structure found.	
4j	Number of settling ponds	No settling ponds.	No Structures found.	
4k	Specific comments of inspecting officer on waste dump management		The mine is not in operation since 07.06.2012 due to want of EC from SEIAA & CTO from JSPCB.	The mine is not in operation since 07.06.2012 due to want of EC from SEIAA & CTO from JSPCB.

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	No work done	The mine is not in operation since 07.06.2012 due to want of EC from SEIAA & CTO from JSPCB.
5b	Area under backfilling of mined out area	No proposal	No work done	The mine is not in operation since 07.06.2012 due to want of EC from SEIAA & CTO from JSPCB.
5c	Concurrent use of topsoil for restoration or rehabilitation of mineral out area (Rule 32)	No proposal	No work done	The mine is not in operation since 07.06.2012 due to want of EC from SEIAA & CTO from JSPCB.
5d	Total area fully reclaimed and rehabilitated	No proposal	No work done	The mine is not in operation since 07.06.2012 due to want of EC from SEIAA & CTO from JSPCB.

5e	General remarks of inspecting officers on backfilling and reclamation etc.	The mine is not in operation since 07.06.2012 due to want of EC from SEIAA & CTO from JSPCB.	The mine is not in operation since 07.06.2012 due to want of EC from SEIAA & CTO from JSPCB.
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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).		The mine is not in operation since 07.06.2012 due to want of EC from SEIAA & CTO from JSPCB.	The mine is not in operation since 07.06.2012 due to want of EC from SEIAA & CTO from JSPCB.
6b	Area available for rehabilitation (ha) .	No proposal	No work done	The mine is not in operation since 07.06.2012 due to want of EC from SEIAA & CTO from JSPCB.
6c	afforestation done (ha).	It was proposed that the plantation would be done around lease boundary in the safety zone area (7.5 m width) & along transport road.	It has been found that during the scheme of mining period no sapling was planted	The mine is not in operation since 07.06.2012 due to want of EC from SEIAA & CTO from JSPCB.
6d	No. of saplings planted during the year	There was proposal of 50 saplings to be planted in 2018-19	No saplings were planted during the year.	The mine is not in operation since 07.06.2012 due to want of EC from SEIAA & CTO from JSPCB.
6e	Cumulative no .of plants	No proposal	Approx. 30 number of plants exists in and around the lease boundary.	The mine is not in operation since 07.06.2012 due to want of EC from SEIAA & CTO from JSPCB.
6f	Any other method of rehabilitation	No proposal	No work done	The mine is not in operation since 07.06.2012 due to want of EC from SEIAA & CTO from JSPCB.

6g	Cost incurred on watch and care during the year	No proposal	As seen and reported during inspection all the trees are fully grown so no watch and care cost is involved.	The mine is not in operation since 07.06.2012 due to want of EC from SEIAA & CTO from JSPCB.
6h	Compliance on reclamation and rehabilitation by backfilling (i) Voids available for backfilling (L x B x D	No proposal	No work done.	
6i	Compliance on reclamation and rehabilitation by backfilling (ii) Voids filled by waste / tailings	No proposal	No work done	
6j	Compliance on reclamation and rehabilitation by backfilling (iii) Afforestation on backfilled area	No proposal	No work done	
6k	Compliance on reclamation and rehabilitation by backfilling (iv) Rehabilitation by making water reservoir	No proposal	During the inspection water was logged in the existing quarries.	The mine is not in operation since 07.06.2012 due to want of EC from SEIAA & CTO from JSPCB.
6l	Compliance on reclamation and rehabilitation by backfilling (v) any other specific means.	No proposal	No work done	
6m	Compliance of rehabilitation of waste land within lease (i) afforestation	No proposal	No work done	
6n	Compliance of rehabilitation of waste land within lease (ii) Area rehabilitation (ha)	No proposal	No work done.	

6o	Compliance of rehabilitation of waste land within lease (iii)Method of rehabilitation	No proposal	No work done	
6p	Compliance of environmental monitoring (core zone and buffer zone)	Proposal for Enviromental Monitoring	No work done.	The mine is not in operation since 07.06.2012 due to want of EC from SEIAA & CTO from JSPCB.
6q	General remarks of inspecting officers on PMCP compliance and progressive closure operations etc.		The mine is not in operation since 07.06.2012 due to want of EC from SEIAA & CTO from JSPCB.	The mine is not in operation since 07.06.2012 due to want of EC from SEIAA & CTO from JSPCB.

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.	No work done.	
7b	Method of grade-wise mineral sorting i.e. manual or mechanical.	Manual	No work done	The mine is not in operation since 07.06.2012 due to want of EC from SEIAA & CTO from JSPCB.
7c	Different grade of mineral sorted out at mines.	Proposal of differnt grades of mineral sorted at mines	No work done	The mine is not in operation since 07.06.2012 due to want of EC from SEIAA & CTO from JSPCB.
7d	Any beneficiation process at mines	No proposal	No work done.	
7e	General remarks of inspecting officer on Mineral conservation and beneficiation issues		The mine is not in operation since 07.06.2012 due to want of EC from SEIAA & CTO from JSPCB.	The mine is not in operation since 07.06.2012 due to want of EC from SEIAA & CTO from JSPCB.

Environment:

Sl.No.	Item	Propasals	Actual work	Remarks
8a	Separate removal and utilization of topsoil (Rule 32)	No proposal for removal of topsoil in 2018-19	No work done	
8b	Concurrent use or storage of topsoil	No proposal	No work done	
8c	Separate dumps for overburden, waste rock, rejects and fines (Rule 33)	Yes seperate roposal of waste if generated	No work done	
8d	Use of overburden, waste rock, rejects and fines dumps for restoring the land to its original use	No proposal	No work done	
8e	Phased restoration, reclamation and rehabilitation of lands affected by mining operations (Pits, dumps etc)	No proposal	No work done	
8f	Baseline information on existence of plantation and additional plantation done (Rule 41)	No proposal	No data collection report reported	The mine is not in operation since 07.06.2012 due to want of EC from SEIAA & CTO from JSPCB.
8g	Survival rate	95%	95%	
8h	Water sprinkling on roads to control airborne dust	Proposed	No work done.	
8i	General remarks of inspecting officer on aesthetic beauty in and around mines area		The lease area is surrounded with hilly terrain on one side and plantation on the other side fiving a good aesthetic beauty.	The mine is not in operation since 07.06.2012 due to want of EC from SEIAA & CTO from JSPCB.

Compliance of Rule 45:

Sl.No.	Item	Propasals	Actual work	Remarks
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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 :

(NAMAN EKKA)

Indian Bureau of Mines