INDIAN BUREAU OF MINES MINERALS DEVELOPMENT AND REGULATION DIVISION

FMCP Inspection REPORT

Ranchi regional office

Mine file No : BIH/PAL/GRP/554/RRO Mine code : 28BHR18002

(i) Name of the Inspecting : R002) RAGHVENDRA KUMAR

Officer and ID No.

(ii) Designation : Assistant Mining Engineer

:

(iii) Accompaning mine

Official with Designation

(iv) Date of Inspection : 01/04/2022

(v) Prev.inspection date :

PART-I : GENERAL INFORMATION

. (a) Mine Name : BISHRAMPUR (MAHUGAON)

(b) Registration NO: :

(c) Category : A Other Mechanised

(d) Type of Working : Opencast

(e) Postal address

State : JHARKHAND
District : PALAMAU
Village : MAHUGAON
Taluka : BISHRAMPUR

Post office : KANDA

Pin Code

FAX No. : 0651-2491916 E-mail : contact@jsmdc.in

:

Phone : 0651-2491841,2491842,24918

(f) Police Station : BISRAMPUR
(g) First opening date : 03/01/1976

(h) Weekly day of rest : WED

2. Address for : VILLAGE- MAHUGAIN, TULBULA, TAMDANGA, TATIPATHAL

correspondance DIST-PALAMAU

JHARKHAND

3. (a) Lease Number : BHR0429 (b) Lease area : 223.78

(c) Period of lease : 20

(d) Date of Expiry : 13/10/1996

4. Mineral worked : GRAPHITE Main

5. Name and Address of the

Lessee : M/S J.S.M.D.C.LTD

KHANIJ NIGAM BHAWAN DORANDA, RANCHI-834002 JHARKHAND RANCHI JHARKHAND

Phone: FAX:

Owner : ABOOBACKER SIDDIQUE P.

MS JSMDC LTD KHANIJ NIGAM BHAWAN, DORANDA RANCHI

RANCHI JHARKHAND

Phone: FAX:

Agent : SRI ASHOK KUMAR

J.S.M.D.C LTD PROJECT

OFFICE, AT/P.O- DALTONGANJ, JHARKHAND- 822101 PALAMAU

JHARKHAND

Phone: +91 9431575546(M)

FAX :

Mining Engineer

Name : SRI RAM NARAYAN ROY, Full Time

Qualification : DIP. IN MINING ENGINEERING WITH 2ND CLAS

Appointment/ : 16/01/2013

Termination date

Geologist

Name : Dr.O.P.SINGH, Part Time

Qualification : M. Sc.(Geo)
Appointment/ : 07/11/2013

Termination date

Manager

Name : SRI R.N.ROY

Qualification : DIP. IN MINING ENGINEERING WITH 2ND CLAS

Appointment/ : 16/01/2013

Termination date

6. Date of approval of Mining : Renewal under rule 22 MCR1960 24/08/1999 Plan/Scheme of Mining MP review under 17(1) MCR 2016 08/08/2018

PART - II : OBSERVATION/COMMENTS OF INSPECTING OFFICERS

Exploration :

Sl.No.	Item	Proposals	Actual work	Remarks
1a	Backlog of previous year	20 numbers of Boreholes has been Proposed during 2020- 2021.	As per proposal no boreholes has been drilled during 2020-2021.	The mining operation in the area has been stopped from 12/12/2012 till date. Mine is closed due to want of E.C. and forest clearance.
1b	Exploration over lease area for geological axis 1 or 2	20 numbers of boreholes have been Proposed during 2021- 2022 for Geological axis - 1	As per proposal no boreholeshave been drilled during 2021-2022.	The mining operation in the area has been stopped from 12/12/2012 till date. Mine is closed due to want of E.C. and forest clearance.
1c	Exploration Agencies and Expenditure in lakh rupees during the year	No exploration was carried out during or after the approved mining plan period but only geophysical prospecting was done in the year 2000-2001.	No exploration work was carried out.	The mining operation in the area has been stopped from 12/12/2012 till date. Mine is closed due to want of E.C. and forest clearance.
1d	Balance area to be explored to bring Geological axis in 1 or 2	207.5179 На.	15.93 has explored to G-1(15.492 ha. forest & 0.438 ha. non forest).	The mining operation in the area has been stopped from 12/12/2012 till date. Mine is closed due to want of E.C. and forest clearance. No exploration has been carried out.
1e	Balance reserve as on 01/04/20	Balance Reserve as on 01/04/2021 - (Million Tones) 111 - 0, 121 - 0.0687, 122 - 0.2044	Balance Reserve as on 01/04/2021 - (Tones) 111 - 0, 121 - 69749.17, 122 - 167809.9	

1f General remarks of inspecting officers on geology, exploration etc

The Proposal of Review of Mining Plan last Approved was for -2018-19 to 2022-23.

The mining operation in the area has been stopped from 12/12/2012 till date. Mine is closed due to want of E.C. and forest clearance. No exploration has been carried out.

The area is largely covered with soil with graphitic schist. The main country rock is Graphite schist interbedded (parting waste) with granite gneiss, Quartzsillimanite, Calc silicates rocks, pegmatite, micaschist, Graphite Gneiss and Quartz Vein. Around the quarries, there are Quartz feldspar gneiss exposures.

Development :

Sl.No.	Item	Propasals	Actual	work	Remarks
2a	Location of development w.r.t.lease area	Block -1 MahugainQry - 1,2 & 3 Block -2 MahugainQry - 3 Block - 3 Tulbula) Qry - 1,2 & 5		done.	The mining operation in the area has been stopped from 12/12/2012 till date. Mine is closed due to want of E.C. and forest clearance. No development work has been carried out.

2b Separate benches it is propose No work done. in topsoil, overburden and minerals (Rule 15)

to develop the existing benches so formed after 3rd year development both laterally as well as in depth to maintain the existing benches properly. To meet the targeted

The mining operation in the area has been stopped from 12/12/2012 till date. Mine is closed due to want of E.C. and forest clearance. No development work has been carried out.

Stripping ratio 1:3.29 2c or ore to OB ratio

2022 it is

101898.95Cu.m

production development shall be proposed only in Block-1, Block-2 & Block-3.

No work done.

2d Quantity of Nil topsoil generation in m3

The mining operation in the area has been stopped from 12/12/2012 till date. Mine is closed due to want of E.C. and forest clearance. No development work has been carried out.

The mining operation in the area has been stopped from 12/12/2012 till date. Mine is closed due to want of E.C. and forest clearance. No development work has been carried out.

During 2021-No work done.

Nil

The mining operation in the area has been stopped from 12/12/2012 till date. Mine is closed due to want of E.C. and forest clearance. No development work has been carried out.

2e Quantity of overburden generation in m3 proposed OB as 2f General remarks Proposed to No work done. of inspecting officers on development of pit w.r.t. type 1,2 & 3 of deposit etc

work in 2021-22, Block -1 MahugainQry -Block -2 MahugainQry -Block - 3 Tulbula) Qry -

1,2 & 5

The mining operation in the area has been stopped from 12/12/2012 till date. Mine is closed due to want of E.C. and forest clearance. No development work has been carried out.

Exploitation:

Sl.No.	Item	Propasals	Actual	work	Remarks
3a	Number of pit proposed for production	Development and production was Proposed in MahugainQry - 1,2 & 3 Block -2 MahugainQry - 3 Block - 3 Tulbula) Qry - 1,2 & 5		done.	The mining operation in the area has been stoppedfrom 12/12/2012 till date. Mine is closed due to want of E.C. and forest clearance. No development work in the proposed quarry has been carried out.
3b	Quantity of ROM mineral production proposed	The total target of Production was 30971.04 MT during 2021-2022.	No work	done.	Mine is closed due to want of E.C. and forest clearance.
3с	Recovery of sailable/usable mineral from ROM production	85% of excavation	No work	done.	Mine is closed due to want of E.C. and forest clearance.
3d	Quantity of mineral reject generation	Nil	No work	done.	Mine is closed due to want of E.C. and forest clearance.
3e	Grade of mineral rejects generation and threshold value declared.	Nil	No work	done.	Mine is closed due to want of E.C. and forest clearance.
3f	Quantity of sub grade mineral generation.	No Sub Grade Generation	No work	done.	Mine is closed due to want of E.C. and forest clearance.

clearance.

3g	Grade of sub grade mineral generation	There is No Generation of Subgrade Mineral	No work	done.	Mine is closed due to want of E.C. and forest clearance.
3h	Manual / Mechanised method adopted for segregating from ROM	Manual	No work	done.	Mine is closed due to want of E.C. and forest clearance.
3i	Any analysis or beneficiation study proposed and carried out for sub grade mineral and rejects.	No Proposal	Nil		Mine is closed due to want of E.C. and forest clearance.
3j	Provision of drilling and blasting in mineral benches	Spacing - 1.2 m Burden - 1.0 m Depth - 1.2 m Dia of hole - 32mm dia (Jack Hammer Drill), Height of Bench - 6m. (Drilling/blas ting shall be carried out in series)	No work	done.	Mine is closed due to want of E.C. and forest clearance.
3k	Provision of mining machineries in mineral benches	Excavator (0.9 cum) -04 Jack - hammer-10 Compressor 300-400cfm- 02 Dumpers (25MT)- 06 Water Tanker -01 Jeep - 01	No work	done.	Mine is closed due to want of E.C. and forest clearance.
31	Whether height of benches in overburden and mineral suitable for method of mining proposed in MP/SOM	Height of Bench - 6m. (Drilling/blas ting shall be carried out in series)	No work	done.	Mine is closed due to want of E.C. and forest clearance.
3m	Total area covered under excavation/pits	4.828 hect area is under Pit		done.4.828 hect under Pit.	Mine is closed due to want of E.C. and forest

3n	Ore to OB ratio for the pit/mine during the year.	1:3.29	No work done.	The mining operation in the area has been stopped from 12/12/2012 till date. Mine is closed due to want of E.C. and forest clearance. No development work has been carried out.
30	Total area put in use under different heads at the end of year	Land use Pattern as on 01.04.2022. Quarry (Excavation) = 4.828 hect Dump = 2.859hect Roads = 2.538 hect Infrastructure = 0.344 hect.	Land use Pattern as on 01.04.2022. Quarry (Excavation) = 4.976hect Dump = 3.028hect Roads = 2.538 hect Infrastructure = 0.340hect.	Change in area due to DGPS survey. The mining operation in the area has been stopped from 12/12/2012 till date. Mine is closed due to want of E.C. and forest clearance. No development work has been carried out.
3p	Production of ROM mineral during the last five year period as applicable	2021-2022= 30971.04 tons 2020-2021= 30479.50 tons 2019-2020= 30533.42tons 2018-2019= 30484.73tons 2017-2018 = Nil	2021-2022 = Nil 2020-2021 = Nil 2019-2020 = Nil 2018-2019= Nil 2017-2018 = Nil	The mining operation in the area has been stopped from 12/12/2012 till date. Mine is closed due to want of E.C. and forest clearance. No excavation work has been carried out.
3q	General remarks of inspecting officers on method of mining etc.	Period of proposal has been given for the year from 2018-19 to 2022-23	No excavation work has been carried out.	The mining operation in the area has been stopped from 12/12/2012 till date. Mine is closed due to want of E.C. and forest clearance.

Actual work

Remarks

Solid Waste Management - Dumping:

Propasals

Sl.No.

Item

4a	Separate dumping of topsoil, OB and mineral rejects (Rule 32,33)	Dump No. 3, 6 & 8	No work done.	The mining operation in the area has been stopped from 12/12/2012 till date. Mine is closed due to want of E.C. and forest clearance.
4b	Location of topsoil, OB and mineral reject dumps	Block- 1(Mahugain village), 2 (Mahugain village) and Block- 3 (Tulbula village)	No work done.	The mining operation in the area has been stopped from 12/12/2012 till date. Mine is closed due to want of E.C. and forest clearance.
4c	Number of dumps within lease area and outside of lease area		Lease area = 8 Non Lease area = Nil	The mining operation in the area has been stopped from 12/12/2012 till date. Mine is closed due to want of E.C. and forest clearance.
4d	Location of dumps w.r.t. ultimate pit limit (Rule 16)	dump no.1,3, 7,6 & 8 which have been located around/nearby the existing quarries.	All 8 dumps are outside the Pit and within the lease area.	8 old dumps are present within the lease area.
4e	Number of active and alive dumps.		There are 8 dumps.	8 old dumps are present within the lease area.
4f	Number of dead dumps.	Dead Dumps = Nil	Dead Dumps = Nil	8 old dumps are present within the lease area.
4g	Number of dumps established.	No dumps have been established.	No dumps have been established.	The mining operation in the area has been stopped from 12/12/2012 till date. Mine is closed due to want of E.C. and forest clearance.

4h	Whether Retaining wall or garland drain all along dumps are there.	to construct		The mining operation in the area has been stopped from 12/12/2012 till date. Mine is closed due to want of E.C. and forest clearance.
4i	Length of Retaining wall or garland drain all along dumps	Retaining wall= 593 m Garland Drain= 608.5 m	No work done.	Mine is closed due to want of E.C. and forest clearance.
4j	Number of settling ponds	01	No work done.	Mine is closed due to want of E.C. and forest clearance.
4k	Specific comments of inspecting officer on waste dump management	There is proposal for dumping during 2020-2021. Dump No. 3 (Block-1) (Mahugain village, Dump No. 6 (Block-3) (Tulbula village), Dump No-8 (Block-2) (Mahugain village		Mine is closed due to want of E.C. and 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.	At present not a single quarry or part thereof has been exhausted. So, there is no proposal of backfilling of mined out pit.		Mine is closed due to want of E.C. and forest clearance.

5b	Area under backfilling of mined out area	At present not a single quarry or part thereof has been exhausted. So, there is no proposal of backfilling of mined out pit.		Mine is closed due to want of E.C. and forest clearance.
5c	Concurrent use of topsoil for restoration or rehabilitation of mineral out area (Rule 32)	Concurrent use	No work done.	At present not a single quarry or part thereof has been exhausted. So, there is no proposal of backfilling of mined out pit.
5d	Total area fully reclaimed and rehabilitated	No proposal	No work done.	At present not a single quarry or part thereof has been exhausted. So, there is no proposal of backfilling of mined out pit.
5e	General remarks of inspecting officers on backfilling and reclamation etc.	a single quarry or part thereof has		Mine is closed due to want of E.C. and forest clearance.

Progressive Mine Clousre Plan:

Sl.No.	Item	Propasals	Actual work	Remarks
ба	Whether Annual report on PMCP submitted on time and correctly. Rule 23 E(2).	The mining operation in the area has been stopped from 12/12/2012 till date.	No Work done, not submitted.	Mine is closed due to want of E.C. and forest clearance.
6b	Area available for rehabilitation (ha) .	No Proposal	Nil	Mine is closed due to want of E.C. and forest clearance.
6c	afforestation done (ha).	No Proposal	Nil	Mine is closed due to want of E.C. and forest clearance.

6d	No. of saplings planted during the year	No Proposal	Nil	Mine is closed due to want of E.C. and forest clearance.
6e	Cumulative no .of plants	No Proposal	Nil	Mine is closed due to want of E.C. and forest clearance.
6f	Any other method of rehabilitation	No Proposal	Nil	Mine is closed due to want of E.C. and forest clearance.
6g	Cost incurred on watch and care during the year	No Proposal	Nil	Mine is closed due to want of E.C. and forest clearance.
6h	Compliance on reclamation and rehabilitation by backfilling (i) Voids available for backfilling (Lx B x D	No proposal, as not any pit exhausted.	Nil	Mine is closed due to want of E.C. and forest clearance.
6i	Compliance on reclamation and rehabilitation by backfilling (ii) Voids filled by waste / tailings	Not possible as not any pit exhausted.	Nil	Mine is closed due to want of E.C. and forest clearance.
6j	Compliance on reclamation and rehabilitation by backfilling (iii)Afforestati on on backfilled area	No proposal	Nil	Mine is closed due to want of E.C. and forest clearance.
6k	Compliance on reclamation and rehabilitation by backfilling (iv) Rehabilitation by making water reservoir	No proposal	Nil	Mine is closed due to want of E.C. and forest clearance.
61	Compliance on reclamation and rehabilitation by backfilling (v)any other specific means.	No proposal	Nil	Mine is closed due to want of E.C. and forest clearance.

6m	Compliance of rehabilitation of waste land within lease (i)afforestation	1250 saplings in 0.5 ha. Safety Barrier	Nil	Mine is closed due to want of E.C. and forest clearance.
6n	Compliance of rehabilitation of waste land within lease (ii)Area rehabilitation (ha)	No proposal	Nil	Mine is closed due to want of E.C. and forest clearance.
60	Compliance of rehabilitation of waste land within lease (iii)Method of rehabilitation	No proposal	Nil	Mine is closed due to want of E.C. and forest clearance.
бр	Compliance of environmental monitoring (core zone and buffer zone)	Every quarterly at 3 stations.	No work done.	Mine is closed due to want of E.C. and forest clearance.
бq	General remarks of inspecting officers on PMCP compliance and progressive closure operations etc.	it was proposed to plant 1250nos of saplings, in 0.5 ha.of safety barrier areaduring 2021-22.	No plantation was done in the proposed safety barrier area.	Mine is closed due to want of E.C. and forest clearance.

Mineral Conservation:

Sl.No.	Item	Propasals	Actual work	Remarks
7a	ROM Mineral dispatch or grade-wise sorting within lease area	Sorting of the ROM graphite.	No work done.	The mining operation in the area has been stopped from 12/12/2012 till date. Mine is closed due to want of E.C. and forest clearance.
7b	Method of grade-wise mineral sorting i.e. manual or mechanical.	Manual	No work done.	The mining operation in the area has been stopped from 12/12/2012 till date. Mine is closed due to want of E.C. and forest clearance.

7c	Different grade of mineral sorted out at mines.	Sorting of the ROM graphite.	No work done.	The mining operation in the area has been stopped from 12/12/2012 till date. Mine is closed due to want of E.C. and forest clearance.
7d	Any beneficiation process at mines .	No mineral processing shall be taken up at the mine during this review of plan period except sorting of the ROM graphite.		The mining operation in the area has been stopped from 12/12/2012 till date. Mine is closed due to want of E.C. and forest clearance.
7e	General remarks of inspecting officer on Mineral conservation and beneficiation issues	The fixed carbon in graphite of this mine ranges between 7.86% to 13.90%, but an average 10 % shall be maintained by proper sorting of crude Graphite.	No mineral processing shall be taken up at the mine during this review of plan period except sorting of the ROM graphite.	The mining operation in the area has been stopped from 12/12/2012 till date. Mine is closed due to want of E.C. and forest clearance.

Environment:

Sl.No.	Item	Propasals	Actual work	Remarks
8a	Separate removal and utilization of topsoil (Rule 32)	topsoil in the		The mining operation in the area has been stopped from 12/12/2012 till date. Mine is closed due to want of E.C. and forest clearance.

8b	Concurrent use or storage of topsoil	There is no topsoil in the target area considered for this review of mining plan period. As such, there will be no generation of top soil.	No work done.	The mining operation in the area has been stopped from 12/12/2012 till date. Mine is closed due to want of E.C. and forest clearance.
8c	Separate dumps for overburden, waste rock, rejects and fines (Rule 33)	All the Waste to be generated shall be transported by dumpers to their respective dump yard earmarked for the purpose within the lease area.		The mining operation in the area has been stopped from 12/12/2012 till date. Mine is closed due to want of E.C. and forest clearance.
8d	Use of overburden, waste rock, rejects and fines dumps for restoring the land to its original use	At present not a single quarry or part thereof has been exhausted. So, there is no proposal of backfilling of mined out pit.	No work done.	The mining operation in the area has been stopped from 12/12/2012 till date. Mine is closed due to want of E.C. and forest clearance.
8e	Phased restoration, reclamation and rehabilitation of lands affected by mining operations (Pits, dumps etc)	At present not a single quarry or part thereof has been exhausted. So, there is no proposal of backfilling of mined out pit.	No work done.	The mining operation in the area has been stopped from 12/12/2012 till date. Mine is closed due to want of E.C. and forest clearance.
8f	Baseline information on existence of plantation and additional plantation done (Rule 41)	It was proposed to plant 1250nos of saplings, in 0.5 ha.of safety barrier areaduring 2021-22.	No plantation was done in the proposed safety barrier area.	The mining operation in the area has been stopped from 12/12/2012 till date. Mine is closed due to want of E.C. and forest clearance.

8g	Survival rate	It was proposed to plant 1250nos of saplings, in 0.5 ha.of safety barrier areaduring 2021-22.	barrier area.	The mining operation in the area has been stopped from 12/12/2012 till date. Mine is closed due to want of E.C. and forest clearance.
8h	Water sprinkling on roads to control airborne dust	Proposed.	No work done.	The mining operation in the area has been stopped from 12/12/2012 till date. Mine is closed due to want of E.C. and forest clearance.
8i	General remarks of inspecting officer on aesthetic beauty in and around mines area	a single quarry or part	No plantation was done in the proposed safety barrier area.	The mining operation in the area has been stopped from 12/12/2012 till date. Mine is closed due to want of E.C. and forest clearance.

Compliance of Rule 45:

Sl.No.	Item	Propasals	Actual work	Remarks
9a	Status of submission of Monthly and Annual returns	The mining operation in the area has been stopped from 12/12/2012 till date.	No work done.	Mine is closed due to want of E.C. and forest clearance. Inspection of mine was carried out for submitted FMCP document.
9b	Scrutiny of Annual return for information on Mining Engineer, Geologist and Manager	The mining operation in the area has been stopped from 12/12/2012 till date.	Not appointed.	Mine is closed due to want of E.C. and forest clearance.
9c	Scrutiny of Annual return on land use pattern for area under pits, reclaimed area, dumps etc.	-	No work done.	Mine is closed due to want of E.C. and forest clearance.

9d	Scrutiny of Annual return on afforestation	The mining operation in the area has been stopped from 12/12/2012 till date.	No work done.	Mine is closed due to want of E.C. and forest clearance.
9e	Scrutiny of Annual return on mineral reject generation (Grade and quantity)	The mining operation in the area has been stoppe dfrom 12/12/2012 till date.	No mining operation were carried out during 2021-22.	Mine is closed due to want of E.C. and forest clearance.
9f	Scrutiny of Annual return on ROM stock and/or graded ore		No mining operation were carried out during 2021-22.	The mining operation in the area has been stopped from 12/12/2012 till date. Mine is closed due to want of E.C. and forest clearance. Inspection of mine was carried out for submitted FMCP document.
9g	Scrutiny of Annual return on sale value, Ex. Mine price and production cost		No mining operation were carried out during 2021-22.	The mining operation in the area has been stopped from 12/12/2012 till date. Mine is closed due to want of E.C. and forest clearance.
9h	Scrutiny of Annual return on fixed assets		During the inspection there was only one mines office found that too in old and ruined condition.	The mining operation in the area has been stopped from 12/12/2012 till date. Mine is closed due to want of E.C. and forest clearance.
9k	Scrutiny of Annual return on mining machineries	The mining operation in the area has been stopped from 12/12/2012 till date. Mine is closed due to want of E.C. and forest clearance.	No mining operation were carried out during 2021-22.	The mining operation in the area has been stopped from 12/12/2012 till date. Mine is closed due to want of E.C. and forest clearance.

PAGE: 18

Details of violations observed during curre violation pointed out	ent inspection and compliance position of
Violation observed	Show couse position

Issued on Compliance on Rule NO. Issued on Compliance on

Date : (RAGHVENDRA KUMAR)

Rule NO.

Indian Bureau of Mines