

Sl.N	PARTICULARS	DETAILS
1	File No.	CHG/SRG/GRP-1/RPR
2	Name & Designation of the inspecting officer	D. Dash, Regional Mining Geologist, Indian Bureau of Mines, Raipur
3	Date of Inspection	22.11.2023
4	Date of Last Inspection & Officer	10.09.2020 Shri Shiabal Kumar Kartikeya, Junior Mining Geologist
5	Accompanying mine personnel	Shri Amit Kumar Bajaj , representative of the owner
6	Name of the Mine	Indrawati Graphite Mine
7	Total Lease Area (Ha) with breakup of Non-forest and forest land	Lease area – 67.110 hect, Non-Forest area – 67.110 hect, Forest Area – Nil
8	Mine code	28CHG16001
9	IBM Registration Number under rule 45 of MCDR, 1988	IBM/4370/2011
10	Name of the lessee, Address, phone, email and fax number	Name – Smt Jyoti Bajaj Address - ‘SJ Mineral Resources, Cart Sarai Road , Upper Bazar, 834001, Mobile no. 8877139664, 8210025073, Email - sjmresources@gmail.com
	Village	Indrawati
	Taluka/Mandal	Ramanunganj
	District	Balrampur
	Pincode	493111
	State	Chhattisgarh
	Post office	Ramanunganj
11	Nearest police station	Ramanunganj
12	Nearest Railway station	Garwa Road, 20 km
13	Date of Grant of Mining Lease	11.06.2002
14	Date of Execution	11.06.2002
15	Date of opening of Mine	07.06.2004
16	Weekly day of rest	Sunday
17	Date of first Renewal, if applicable and its period & expiry	Not applicable
18	Name of the Nominated Owner with Address, phone, email, fax number and date of appointment	None
19	Name of the Mine Agent with Address, phone, email, fax number and date of appointment	None
20	Name of the Mines Manager with Address, phone, email, fax number and date of appointment	None

	in mines	
21	Name of the Mining Engineer, & Geologist, Qualification and total experience with Address, phone, email, fax number and date of appointment in mine	None
22	Whether Geologist and Mining Engineer appointed in mines satisfy the rule 42 & carrying out their duties as per rule 43 & 44.	No, the mine is non-working since 2015-16
23	Date of Approval of Mining Plan/Modified Mining Plan with five-year period and specific condition in approval letter, if any.	Approval of Review of Mining Plan vide letter no SRG/GRP/MPLN-769/NGP dated 23.05.2002 for 2003-04 to 2008-09
24	Date of Approval of Scheme of Mining/Modified Scheme of Mining with five-year period and specific condition in approval letter, if any.	1 st Scheme of Mining was approved vide letter no. SRG/GRP/MPLN-769/ NGP dated 12.09.2013 for the period from 2009-10 to 2013-14 2 nd Scheme of Mining was approved vide letter no. Balrampur/Graphite/Kh ayo1211/2019-Raipur/381 dated 12.09.2019 for the period from 2019-20 to 2023-24
25	Mineral(s) granted in lease and proved for mining	Graphite
26	Method of Mining (Opencast, Underground)	Open cast
27	Category (Fully Mechanized, Others or Manual)	Manual
28	Captive/Non-Captive	Non Captive
29	EC for ROM Prod: Date of Issue:	31750 Tonnes 10.06.2032
30	FA amount Rs Valid up to:	Rs-5 lakh /- Valid up to 31 st March 2024

Scientific Mining: Compliance of proposals of approved mining plan/scheme of mining. –

1.0 EXPLORATION

SN	ITEM	PROPOSALS (2022-23)	ACTUAL WORK (2022-23)	REMARKS
1a	Backlog of previous year	Nil	Nil	
1b	Exploration over lease area for Geological axis 1 or 2.	NIL	NIL	
1c	Exploration Agency & Expenditure in lakh Rupees during the year	NIL	NIL	
1d	Balance area to be explored to bring Geological axis in 1	Nil	Nil	

	or 2		
1e	Balance reserves as 01.04.2023 (tonnes)	Under (111): 4589 Tonnes Under 221: 1300 Tonnes	
1f	General remarks of inspecting officer on geology, exploration etc.	Graphite occurs as a shallow bedded deposit below a thin soil cover. In the lease area, 05 quarries have been developed up to depth of 3 to 4m.	

2.0 DEVELOPMENT

SN	ITEM	PROPOSALS (2022-23)	ACTUAL WORK (2022-23)	REMARKS
2a	Location of development w.r.t. lease area	800E to 1100E & 800N to 600N 0E to 200E & 300N to 500N	800E to 1100E & 800N to 600N 0E to 200E & 300N to 500N	As per proposal.
2b	Separate benches in topsoil, overburden and mineral (Rule 15)	In topsoil and Overburden-01 Mineral-01	In topsoil and Overburden-01 Mineral-01	As per the plan
2c	Stripping ratio or ore to OB ratio (m3/t)	1:9.20	Nil	No production reported during the year 2022-23. The mine was non-working due to local issue.
2d	Quantity of topsoil generation in Tonnes	1350 m3	Nil	-do-
2e	Quantity of overburden generation in MT	15664 m3	400 m3	-do-
2f	General remarks of inspecting officer on development of pit w.r.t. type of deposit etc.	Development of quarries have been done as per proposal. However, during the year 2022-23, no mining operations have been carried out due to local issues.		

3.0 EXPLOITATION

S.N.	ITEM	PROPOSAL (2022-23)	ACTUAL WORK (2022-23)	REMARK
3a	Number of pits proposed for production	03	03	As per proposal.
3b	Quantity of mineral production proposed	1701	Nil	No mining operations were

				carried out during the year 2022-23 due to local issues.
3c	Recovery of saleable/usable mineral from production	70%	Nil	-do-
3d	Quantity of mineral reject generation	Nil	Nil	Nil
3e	Grade of mineral reject generation and threshold value declared	Nil	Nil	Nil
3f	Quantity of sub-grade mineral generation	Nil	Nil	Nil
3g	Grade of sub-grade mineral generation	Nil	Nil	
3h	Manual / Mechanised method adopted for segregating from ROM	Manual	Manual	Manual sorting & sizing are carried out.
3i	Any analysis or beneficiation study proposed & carried out for sub-grade mineral and reject	Nil	Nil	
3j	Provision of drilling & blasting in mineral benches	Not proposed	Not done.	As per proposal.
3k	Provision of mining machineries in mineral benches	Manual	Manual	As per proposal.
3l	Whether height of benches in overburden and mineral suitable for method of mining proposed in MP/SOM	Yes	Yes	Bench height maintained as proposed
3m	Total area covered	1.62 ha	0.63 ha	Due to less production against proposed production

	under excavation/pits			quantity in last four years.
3n	Ore to OB ratio for the pit/mine during the year (T/T)	1:9.20	Nil	No production during the year 2022-23.
3o	Total area put in use under different heads at the end of year	Area under mining: 1.62 ha Waste dump: 0.75 ha Infrastructure: 0.02 ha Roads: 1.516 ha	Area under mining: 0.63 ha Waste dump: 0.13 ha Total: 0.76 ha	Due to less production then the plan quantity in last four years.
3p	Production of mineral during last Three -year period, as applicable (tones)	2019-20: 1701	908.5	Production as per the plant demand
		2020-21: 1701	1701	
		2021-22: 1702	1701	
		2022-23: 1701	Nil	
		2023-24		
3q	General remarks of inspecting officer on method of mining etc.	The production of Graphite from the mine is on lower side as a result of low scale of mining operations due to covid situation, low demand and local issues.		

4.0 SOLID WASTE MANAGEMENT-DUMPING

SN	ITEM	PROPOSALS (2022-23)	ACTUAL WORK (2022-23)	REMARKS
4a	Separate dumping of topsoil, OB & mineral reject (Rule 32, 33)	Separate dumping of Topsoil, OB & is proposed	Separate bench for topsoil, OB and top soil are being maintained.	Done as per proposal.
b	Location of topsoil, OB & mineral reject dumps	800 E to 1100 E and 600N to 800N 0E to 200E & 200N to 400N	800 E to 1100 E and 600N to 800N Nil	Waste dumping on western side of the lease area not done, since no mining operation are carried out in the proposed
4c	Number of dumps within lease area and outside lease area	02	01	
4d	Location of dumps w.r.t. ultimate pit limit (Rule 16)	Beyond UPL	Beyond UPL	

4e	Number of active & alive dumps	02	01	area.
4f	Number of dead dumps	Nil	Nil	
4g	Number of dumps stabilized	Nil	Nil	
4h	Whether Retaining wall or garland drain all along dumps are there	Not proposed	Nil	
4i	Length of Retaining wall or garland drain all along dump	Nil	Nil	
4j	Number of settling ponds	Nil	Nil	
4k	Specific comments of inspecting officer	Top soil, over burden, sub grade/mineral rejects, screened fines(waste) have been separately stacked as per proposal. Waste dumping on western side of the lease area not done, since no mining operation are carried out in the proposed area.		

5.0 SOLID WASTE MANAGEMENT-BACKFILLING

SN	ITEM	PROPOSALS (2022-23)	ACTUAL WORK (2022-23)	REMARKS
5a	Status on part or full extraction of mineral from mined out area before starting backfilling	Nil	Nil	No area is fully mined out.
5b	Area under backfilling of mined out area	Nil	Nil	-do-
5c	Concurrent use of topsoil for restoration or rehabilitation of mined out area (Rule 32)	Nil	Nil	-do-
5d	Total area fully reclaimed & rehabilitated	Nil	Nil	-do-
5e	General remarks of inspecting officer on backfilling, reclamation etc	No area fully mined out hence there is no scope for backfilling at present.		

6.0 PROGRESSIVE MINE CLOSURE PLAN

SN	ITEM	PROPOSALS (2022-23)	ACTUAL WORK (2022-23)	REMARKS
6a	Whether Annual report on PMCP submitted on time and correctly - Rule 23E (2). Details should be given in the format as given in	Yes	Yes	

	Annexure-20.			
6b	Management of worked/mined out benches i) Area available for rehabilitation (ha)	Nil	Nil	No area is mined out.
	ii) Afforestation done (ha)	Nil	Nil	-do-
	iii) No. of saplings planted during the year	Nil	Nil	-do-
	iv) Cumulative no. of plants	Nil	Nil	-do-
	v) Any other specific method of rehabilitation	Nil	Nil	-do-
	vi) Cost incurred on watch & care during the year	Nil	Nil	-do-
6c	Compliance on reclamation and rehabilitation by backfilling i) Voids available for backfilling (L X B X D) ii) Void filled by waste/tailings iii) Afforestation on the backfilled area iv) Rehabilitation by making water reservoir v) Any other specific means	Nil	Nil	-do-
6d	Compliance of Rehabilitation of waste land within lease i) Afforestation ii) Area rehabilitated (ha) iii) Method of rehabilitation	Nil	Nil	
6e	Compliance of Environmental monitoring (core zone & buffer zone)	Nil	Nil	
6f	General remarks of inspecting officer on PMCP compliance & progressive	No area is mined out, thus there is no scope for plantation on mined out benches or backfilling of mined out pit.		

7.0 MINERAL CONSERVATION

SN	ITEM	PROPOSALS (2022-23)	ACTUAL WORK (2022-23)	REMARKS
7a	ROM Mineral dispatch or grade-wise sorting within lease area	Within Mining lease area	Within Mining lease area	Done as per proposal.
7b	Method of grade-wise mineral sorting i.e. manual or mechanical	Manual	Manual	As per proposal.
7c	Different grade of mineral sorted	Within Mining lease	Within Mining	Usable grade and

	out at mines	area	lease area	Mineral reject is being sorted out in mining lease area.
7d	Any beneficiation process at mines	Nil	Nil	
7e	General remarks of inspecting officer on Mineral conservation & beneficiation issues	Manual sorting and sizing done within the lease area.		

8.0 ENVIRONMENT

SN	ITEM	PROPOSALS (2022-23)	ACTUAL WORK (2022-23)	REMARKS
8a	Separate removal and utilization of topsoil (Rule 32)	Separate removal and utilization of topsoil proposed	Done as proposed.	.
8b	Concurrent use or storage of topsoil	Separate stacking and utilisation during plantation	Top soil generate is being used.	
8c	Separate dumps for overburden, waste rock, rejects and fines (Rule 33)	Separate dumps for overburden, waste rock are proposed	Done as proposed.	
8d	Use of overburden, waste rock, rejects and fines dumps for restoring the land to its original use	Nil	Nil	
8e	Phased restoration, reclamation and rehabilitation of lands affected by mining operations (Pits, dumps etc)	Nil	Nil	
8f	Baseline information on existence of plantation & additional plantation done (Rule 41)	250 saplings	During the year 2022-23: 300 saplings within ML area, 100 saplings outside ML. cumulative: 1600 saplings.	
8g	Survival rate		79%	
8h	Water sprinkling on roads to control airborne dust	Nil	Nil .	Manual mining
8i	General remarks of inspecting officer	Top soil area generated are concurrently used for		

on aesthetic beauty in and around mines are	plantation purpose. During the year 2022-23 plantation of 300 saplings within ML area and 100 saplings outside ML with cumulative plantation of 1600 saplings done.
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9.0 COMPLIANCE OF RULE 45

S. N.	Item	Details Given in A.R.	Observation of I/Officer	Remarks
9 a	Status of submission of monthly and Annual returns	Monthly Returns submitted up to – October 2023, Annual Return for the year submitted on 25.06.2023	Submitted on time.	
9b	Scrutiny of Annual return for information on Mining Engineer, Geologist and Manager	Mining Engineer Shri. Nawal Tiwari	present during the inspection.	
9c	Scrutiny of Annual return on land use pattern for area under pits, reclaimed area, dumps etc.	As per annual return Area covered in OC mining- 0 ha. Reclaimed & rehabilitated- Nil Used for waste disposal- 0. Occupied by plant, buildings etc- 0.39 Ha.	Information on land use under mining not furnished.	
9d	Scrutiny of Annual return on afforestation	As per annual return Total 300 nos of sapling planted in within ML area	Appears to be correct.	
9e	Scrutiny of Annual return on mineral reject generation (Grade & quantity)	Nil	-do	
9f	Scrutiny of Annual return on ROM stock and/or graded ore	Grade-wise Opening Stock: 6308 tonnes, & closing stock- 6258 tonnes Production: Nil	-do-	
9g	Scrutiny of Annual return on sale value, Ex. Mine price & production cost	As per annual return the Ex mine price is Rs 418/- per MT. The cost of production:	-do-	No production during the year.

		Nil		
9i	Scrutiny of Annual return on fixed assets	As per annual return the fixed asset is Nil	-do-	
9k	Scrutiny of Annual return on mining machineries	Nonelectric (others): 10 nos.	-do-	

10- Details of violations observed during current inspection and compliance position of earlier violation

During the current inspection, no serious violation is observed.

Violations pointed out during the previous inspection

During the previous inspection dated 21.05.2019, violation of Rule 11(1), 45(1), 45(5)(b)(i) & 45 (5)(c)(i) of MCDR, 2017 was observed. Violations have been complied.

Date:

(D.Dash)

Regional Mining Geologist