

MCDR INSPECTION REPORT**General:**

Sl.No.	Particulars	Details
1	Name of the Mine	Gandabahali & Kirikita Graphite Mine
	Name of Inspecting Officer with Designation	Shri Sujit Kumar Jena, JMG
	Date of Inspection	11.12.2024
2	Total Lease Area(Ha) with breakup of Non- forest and forest land	Forest Land = Nil Non Forest Land = 35.409 Ha. Total Lease area = 35.409 Ha.
3	Mine code	28ORI24006
4	IBM Registration Number under rule 45 of MCDR,2017	IBM/4400/2011
5	Name of the Lessee, Address, Phone ,email and fax number	Sri Pramod Kumar Agrawal, Shantikunj, Farm Road, PO-Modipara, Dist.-Sambalpur-768002 (Odisha) Mail id.-pratysh_agi@hotmail.com Ph: (0663) 2403251, Fax-(0663) 2533374
6	Village	Gandabahali & Kirikita
7	Taluka / Mandal	Sinapali
8	District	Nuapada
9	Pin code	766118
10	State	Odisha
11	Post office	Sinapali
12	Nearest Police station	Sinapali
13	Nearest Railways Station	Kantabanji
14	Date of Grant of Mining lease	07.05.2004
15	Date of Execution	15.02.2005
16	Date of opening of mine	26.06.2006
17	Date of expiry	14.02.2025
18	Name of Nominated Owner with Address, phone email fax number and date appointment	Sri Pramod Kumar Agrawal, Shantikunj, Farm Road, PO-Modipara, Dist.-Sambalpur-768002 (Odisha) Mail id.-pratysh_agi@hotmail.com Ph: (0663) 2403251, Fax-(0663) 2533374
19	Name of the mine Agent with Address, Phone email, fax number and date of appointment	Subash Chandra Jayasingh Shantikunj, Farm Road, PO-Modipara, Dist.- Sambalpur-768002 Mail id.-jaisingh_agi@hotmail.com Mob: 9437345854
20	Name of the Mines Manager with Address, Phone email fax number and Date of appointment in Mines	Sri Binay Kumar Nayak, Gandabahali Graphite Mine, PO- Gandabahali, P.S. Sinapali, Dist.- Nuapada Date of Appointment: 31.03.2021 Mob: 8895579651
21	Name of the Mining Engineer, Qualification And total experience with Address, phone, Email fax number and date of appointment in mine	Sri Binay Kumar Nayak, Gandabahali Graphite Mine, PO- Gandabahali, P.S. Sinapali, Dist.- Nuapada Date of Appointment: 31.03.2021 Mob: 8895579651
22	Name of the Geologist, Qualification And total experience with Address, phone, Email fax number and date of appointment in mine	Bikram Keshari Sahoo,Msc. Geology PO- Gandabahali, P.S. Sinapali, Dist. Nuapada.Mobile No-9937771817,E-mai bikramkesharisahoo534@gmail.com Date of Appointment: 28.08.2021

23	Date of Approval of Review of Mining Plan /Modified Mining Plan with five –Year period and specific condition in approval letter, if any	RMP/A/26-ORI/BHU/2020-21, DT- 18.11.2020(2021-22 to 2024-25)
24	Mineral(s) granted in lease and approved for mining	Graphite
25	Method of Mining (opencast Underground)	Opencast
26	Category (Full Mechanized, others or Manual)	Other
27	Captive /Non Captive	Non-Captive
28	Present EC Capacity	14,250 MT

Exploration :-

Sl.No.	Items	Proposals FY 2023-24	Actual work	Remarks
1a	Backlog of previous year (2021-22)	110	16	110 no of BH has been proposed during 2021-22 but only 16 nos of borehole was done i.e. within surface right area.
1b	Exploration over lease Area for Geological axis 1 or 2.	Nil	7.935	
1c	Exploration agency & Expenditure in Lakh Rupees during the year	Nil	By Lessee	Exploration has been carried out by the lessees housing facility concurrently with the mining operation.
1d	Balance area to be explored to bring Geological axis 1 or 2	3.80	Nil	
1e	Balance reserves as on 01.04.2024			Mineral Reserve- 192214.60 MT Remaining Resource - 24000 MT Total = 216214.60 MT

Development :---

Sl.No.	Items	Proposals FY 2023-24	Actual work	Remarks
2a	Location of development w.r.t lease area	2228466N- 2228427N to 678437E- 678509E	2228466N- 2228427N to 678437E- 678509E	Within propose area
2b	Separate benches in topsoil, overburden and mineral (Rule 15)	Separate benches in topsoil, overburden and mineral	As per proposal	
2c	Striping ration or ore to OB ratio	1:6	1:26	Due to development work with low production.
2d	Quantity of top soil generation in m ³	1425	1025	Total generated of topsoil is used.
2e	Quantity of overburden generation in m ³	127,772	136,880	Due to development work with low production.

Exploitation :-

Sl.No.	Item	Proposals FY 2023-24	Actual work	Remarks
3a	Number of pits proposed for production	1	1	-
3b	Quantity of ROM mineral production proposed	21310	5124.400	Due to development work
3c	Recovery of saleable/usable mineral from ROM production			
3d	Quantity of mineral reject generation	7103	Nil	

3e	Grade of mineral reject generation and threshold value declared	Cut of grade 5% Threshold value 2%	Cut of grade 5% Threshold value 2%	
3f	Quantity of sub-grade mineral generation	7103	Nil	
3g	Grade of sub-grade mineral generation	Cut of grade 5% Threshold value 2%	Cut of grade 5% Threshold value 2%	
3h	Manual/Mechanized method adopted for segregating from ROM	Semi-Mechanised	Semi-Mechanised	
3i	Any analysis or beneficiation study proposed & carried out for sub-grademineral and reject	Nil	NA	
3j	Provision of drilling & blasting in mineral benches	Nil	Nil	Depending upon the requirement blasting under taken by licensed vendor.
3k	Provision of mining machineries in mineral benches	Shovel and Dumper Combination Proposed	Shovel and Dumper Combination Carried Out	
3l	Where height of the benches in overburden and mineral suitable for method of mining proposed in MP/SOM	Yes Height & Width-5 Meter	As per proposal	
3m	Total area covered under excavation/pits	3.327	1.144	
3n	Ore to OB ratio for the pit/mine during the year	1:6	1:26	Due to development work with low production.
3o	Total area put in use under different heads at the end of year	Pit-2.735 MS-0.085 Dump-2.203 TS-0.025	Pit-1.144 Mineral Storage- 0.050 Road-0.592 Shed-0.155 Dump-2.125	
3p	Production of ROM mineral during the last five year period as applicable	2019-20 = 21,357 2020-21 = 21,357 2021-22 = 21,300 2022-23 = 21,300 2023-24=21,310	2019-20= 13544.0 2020-21= 4612.00 2021-22= 5743.20 2022-23= 4300.10 2023-24= 5124.40	

Solid Waste Management Dumping :-

Sl.No.	Item	Proposals FY 2023-24	Actual work	Remarks
4a	Separate dumping of top soil, OB & Mineral reject (Rule 32,33).	Separate dumping of top soil, OB & Mineral reject.	As per proposal	
4b	Location of Topsoil, OB & mineral reject dumps	OB1-2228292N- 2228332 to 678687E-678760E OB2-2228302N- 2228432 to 678503E-678594E Ore-2228360N- 2228388 to 678511E-678530E	OB1-2228292N- 2228332 to 678687E- 678760E OB2-2228302N- 2228432 to 678503E- 678594E Ore-2228360N- 2228388 to 678511E- 678530E	
4c	Number of dumps within lease	3	3	No dump outside the lease hold

	area and out side lease area			area
4d	Location of dumps w.r.t ultimate pit limit (Rule 16)	OB1-2228292N-2228332 to 678687E-678760E OB2-2228302N-2228432 to 678503E-678594E	OB1-2228292N-2228332 to 678687E-678760E OB2-2228302N-2228432 to 678503E-678594E	
4e	Number of active & alive dumps	3	3	
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	Yes	Yes	Retaining wall done
4i	Length of Retaining wall or garland drain all along dump	240x1.5x1.5m	242 x 1.5 x 1.5m	
4j	Number of settling ponds	1	1	One settling pond

Solid Waste Management –Backfilling :

Sl.No.	Item	Proposals FY 2023-24	Actual work	Remarks
5a	Status on part or full extraction of mineral from mined out area before starting backfilling.	NA	NA	
5b	Area under back filling of mined out area	NA	NA	
5c	Concurrently use of top soil for restoration or rehabilitation of mined out area (KRule-32)	NA	NA	
5d	Total area fully reclaimed & rehabilitated	NA	NA	

Progressive Mine Closure Plan:

Sl.No.	Item	Proposals FY 2023-24	Actual Work	Remarks
6a	Whether Annual report on PMCP submitted on time and Correctly-Rule 26(2).Hard copy same provided)	Yes	submitted	
6b	Management of worked/mined out benches. I)Area available for rehabilitation (ha) ii) Afforestation done(ha) iii) No.of saplings planted during the year. iv)Cumulative no.of plants v) Any other specific method of rehabilitation vi) Cost incurred on Watch & care during the year	0.8 0.1 250 750 NA 15,000/-	0.14 0.14 350 906 NA Rs. 21,070 /-	As per proposal

6c	Compliance on reclamation and rehabilitation by backfilling (i)Void available for backfilling(LXBXD). (ii)Void filled by waste /tailings. (iii)Afforestation on the backfilling area (iv) Rehabilitation by making water reservoir. v)(Any other specific means	NA	NA	
6d	Compliance of Rehabilitation of waste land within lease (i) Afforestation (ii)Area rehabilitation (ha) (iii) Method of rehabilitation	250 0.100 Plantation	350 0.14 Plantation	As per proposal
6e	Compliance of Environmental monitoring(core Zone & buffer Zone)	Monitoring Quarterly	Maintained as per proposal	

Mineral Conservation:--

Sl.No.	Item	Proposals FY 2023-24	Actual work	Remarks
7a	ROM Mineral dispatch or grade-wise sorting within lease area	ROM Mineral dispatch proposed	ROM Mineral dispatch carried out	ROM dispatched to plant for beneficiation
7b	Method of grade-wise mineral sorting i.e. manual or mechanical	Manual sorting	Manual sorting	
7c	Different grade of mineral sorted out at mines	Sorting together	Sorting together	
7d	Any beneficiation process at mines	No	NA	

Environment:---

Sl.No..	Item	Proposals FY 2023-24	Actual work	Remarks
8a	Separate removal and utilization of top-soil(Rule32)	Separate removal of top-soil proposed	Carried out as per proposal	
8b	Concurrent use or storage of top-soil	Concurrent use or storage of top-soil proposed	Concurrent use or storage of top-soil carried out	
8c	Separate dumps for overburden, waste rock, reject and fines (Rule 33)	Separate dumps for overburden, waste rock, reject and fines	As per proposal	
8d	Use of overburden, waste rock reject and fines dumps for restoring the	NA	NA	

	land to its original use			
8e	Phased restoration, reclamation and Rehabilitation of lands affected by mining operations(pits, dumps etc)	NA	NA	
8f	Baseline information on existence of plantation & additional plantation done(Rule 41)	Year wise proposal of plantation	Plantation	
8g	Survival rate	60%	65%	Due to local domestic animal survival rate is low
8h	Water sprinkling on roads to control airborne dust	Yes	Yes	Water sprinkling on roads periodically done.

Compliance of Rule 45.

Sl.No.	Item	Proposals FY 2023-24	Actual Work	Remarks
9a	Status of submission of monthly and Annual returns	M.R.Submitted upto-Nov.24 A.R Submitted upto-2023-24		Submitted up to date both online & offline
S.N	Item	Details GIVEN in A.R	Actual in field	
9b	Scrutiny of Annual return for information on mining Engineer. Geologist and manager	Mining Engineer-1 Geologist-1 Manager-1	Mining Engineer-1 Geologist-1 Manager-1	Manager & M.Er.- Sri Binay ku. Nayak (from : 31.03.201) Geologist : Sri Bikram Keshari Sahoo. (from : 28.08.2021)
9c	Scrutiny of Annual return on land use pattern for area under pits reclaimed area, dumps etc.	Pit-3.327 Dump-3.327 Road & Building- 0.747	Pit-1.144 Dump-2.125 Road & Building- 0.747	Appears to be correct
9d	Scrutiny of Annual return on Afforestation	250	350	Appears to be correct
9e	Scrutiny Annual return on mineral reject generation (Grade & quantity)	Nil	Nil	Appears to be correct
9f	Scrutiny of Annual return on ROM stock and/or graded ore	5124.400	5124.400	Appears to be correct
9g	Scrutiny of Annual return on sale value, Ex Mineral price & production cost etc.	1180	1180	Appears to be correct
9h	Scrutiny of Annual return on fixed assets	5,95,960	5,95,960	Appears to be correct
9i	Scrutiny of Annual return on mining machineries	Shovel(haulage)-1 Tipper-1 Air compressure-1 Back hoe-1 Blast hole drill-1 Pump-4	Shovel/Haulage-1 Tipper-1 Air compressure-1 Back hoe-1 Blast hole drill-1 Pump-4	Appears to be correct

Date: 17.03.25
Bhubaneswar

Sujit Kumar Jena
Junior Mining Geologist