

MCDR INSPECTION DATA SHEET

Sl.No.	Particulars	Details
1	Name of the Mine	Gandabahali & Kirikita Graphite Mine
2	Date of Inspection	07.02.2024
3	Name of Inspection officer:	Sri Jitendriya Pradhan, Asst.Mining Engineer
4	Name of official accompanying inspection	1)Subash Chandra Jayasingh (Agent)
5	Last date of Inspection & Officer	18.11.2022, Sri Ashok Kumar Pany, Asst.Mining Engineer
6	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 Hects.
7	Mine code	28OR124006
8	IBM Registration Number under rule 45 of MCDR,2017	IBM/4400/2011
9	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
10	Village	Gandabahali & Kirkita
11	Taluka / Mandal	Sinapali
12	District	Nuapada
13	Pin code	766118
14	State	Odisha
15	Post office	Sinapali
16	Nearest Police station	Sinapali
17	Nearest Railways Station	Kantabanji
18	Date of Grant of Mining lease	07.05.2004
19	Date of Execution	15.02.2005
20	Date of expiry	14.02.2025
21	Date of opening of mine	26.06.2006
22	Name of Nominated Owner with Address, phone email fax number and date appointment	Lessee is the Owner
23	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

24	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
25	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
26	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-mail bikramkesharisahoo534@gmail.com Date of Appointment: 28.08.2021
27	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)
28	Mineral(s) granted in lease and approved for mining	Graphite
29	Method of Mining (opencast Underground)	Opencast
30	Category (Full Mechanized, others or Manual)	Other
31	Captive /Non Captive	Non-Captive
32	Present EC Capacity	14,250

Scientific Mining : Compliance of proposals of approved mining plan/Review of mining for the year 2022-23.

1.Exploration :

Sl.No.	Items	Proposals	Actual work	Remarks
1a	Backlog of previous year(2021-22)	110	16	The proposed exploration during 2021-22 was 110 nos. Out of which 90 nos over non-surface right area and 20 nos over surface right area . Against proposal only 16nos of bore hole within surface right area was drilled and 4 nos of bore holes within SR area comes over the waste dump. Therefore the rest 4 nos of bore hole within SR area can not be drilled. where as the 90nos. of bore hole could not done due to the villagers are not giving permission to put bore hole in their land. So the exploration will be completed after getting surface right of that area.
1b	Exploration over lease Area for Geological axis 1 or 2.	Nil	Nil	Nil because ,there is no proposal for exploration during the year in approved RMP.
1c	Exploration agency & Expenditure in Lakh Rupees during the year	Self	Nil	No exploration has been done during this year so expenditure for exploration is nil.
1d	Balance area to be explored to bring Geological axis 1 or 2	11.418	Nil	Balance area to be explored 11.418 ha after obtained of Surface right.
1e	Balance reserves as on 01.04.2023.	2,21,339	2,21,339	Mineral reserve- 197339 Remaining Resources + 24000 = 2,21,339
1f	General remarks of inspecting officer on geology, exploration etc.			Nil Exploration work because of no proposal for exploration during the year 2022-23 in approved RMP.

2.Development :

Sl.No.	Items	Proposals	Actual work	Remarks
2a	Location of development w.r.t lease area	169S-484S 495W-663W	355S-477S 522W-648W	Within propose area Low work
2b	Separate benches in topsoil, overburden and mineral (Rule 15)	Nil	Nil	As per proposal
2c	Striping ration or ore to OB ratio m ³	1:6.6	1:19	Due to development work
2d	Quantity of top soil generation in m ³	1284	955	Total generated of topsoil is used.
2e	Quantity of overburden generation in m ³	141517	83175	Due to low production
2f	General remarks of inspecting officer on development of pit w.r.t type of deposit etc.			MINING OPERATION HAS BEEN CARRIED OUT IN MECHANISED OPENCAST METHOD WITHIN THE PROPOSED AREA.

3. Exploitation

Sl.No.	Item	Proposals	Actual work	Remarks
3a	Number of pits proposed for production	1	1	-
3b	Quantity of ROM mineral production proposed	21300	4300.100	Due to development work
3c	Recovery of saleable/usable mineral from ROM production	NA	NA	NA
3d	Quantity of mineral reject generation	Nil	Nil	Mineral storage together(ROM)
3e	Grade of mineral reject generation and threshold value declared	Cut of grade 5% Threshold value 2%	Cut of grade 5% Threshold value 2%	Cut-off grade 5% threshold value 2%
3f	Quantity of sub-grade mineral generation	7100	Nil	Mineral storage together(ROM)
3g	Grade of sub-grade mineral generation	<5%	<5%	Cut of grade 5%
3h	Manual/Mechanized method adopted for segregating from ROM	Semi-Mechanised	Semi-Mechanised	Semi-Mechanised
3i	Any analysis or beneficiation study proposed & carried out for sub-grade mineral and reject	NIL	NIL	Sub grade and Mineral rejects storage together (ROM)
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	Nil	Nil	As per proposal
3l	Where height of the benches in overburden and mineral suitable for method of mining proposed in MP/SOM	Yes	Yes	As per proposal
3m	Total area covered under excavation/pits	1.163	1.130	As per proposal
3n	Ore to OB ratio for the pit/mine during the year	1:6.6	1:19	Due to development work Ore to OB ratio has been more then proposal.
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-1.130 M.S-0.050 Dump-1.980 T.S-Nil (Used) Road-0.592 Shed-0.155	Actual area used at the end of the year has been given.
3p	Production of ROM mineral during the last five year period as applicable	2018-19 = 21,357 2019-20 = 21,357 2020-21 = 21,357 2021-22 = 21,300 2022-23 = 21,300	2018-19= 14220.0 2019-20= 13544.0 2020-21= 4612.00 2021-22= 5743.20 2022-23= 4300.10	Due to development work of the mine production of ROM ore is less then proposal since last three years.
3q	General remarks of inspecting officer on method of mining etc.			THE MINING OPERATION HAS BEEN CARRIED OUT BY OPENCAST MECHANISED METHOD WITH DUMPER AND

4. Solid Waste Management Dumping :

Sl.No.	Item	Proposals	Actual work	Remarks
4a	Separate dumping of top soil, OB & Mineral reject (Rule 32,33).	Yes	Yes	Separate dumping has been done.As per Rule.
4b	Location of Topsoil, OB & mineral reject dumps	T.S-440W-485W /28S-56S OB-445W-550W /390S-530S M.R-460S-520S /433W-468W	T.S-440W-485W /28S-56S OB-445W-550W /390S-530S M.R-460S-520S /433W-468W	As per proposal
4c	Number of dumps within lease area and out side lease area	4	4	No dump outside the lease hold area
4d	Location of dumps w.r.t ultimate pit limit (Rule 16)	Yes	Outside the UPL	As per Rule.
4e	Number of active & alive dumps	Three	Three	All dumps are active
4f	Number of dead dumps	Nil	Nil	No dead dump presently
4g	Number of dumps stabilized	Nil	Nil	No stabilized dump
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	240 X1.5 X1.5m	242 x 1.5 x 1.5m	Maintenance
4j	Number of settling ponds	1	1	One settling ponds.
4k	Specific comments of inspecting officer on waste dump management			THE WASTE DUMPING HAS BEEN CARRIED OUT WITHIN THE PROPOSED AREA.

5. Solid Waste Management –Backfilling :

Sl.No.	Item	Proposals	Actual work	Remarks
5a	Status on part or full extraction of mineral from mined out area before starting backfilling.	NA	NA	After ore exhausted for the mined out area.Not applicable for now.
5b	Area under back filling of mined out area	NA	NA	-do-
5c	Concurrently use of top soil for restoration or rehabilitation of mined out area (KRule-32)	NA	NA	-do-
5d	Total area fully reclaimed & rehabilitated	NA	NA	-do-
5e	General remarks of inspecting officer on backfilling, reclamation etc.			NO AREA MATURED FOR BACKFILLING AND RECLAMATION.

6. Progressive Mine Closure Plan:

Sl.No.	Item	Proposals (Yr.2022-23)	Actual Work	Remarks
6a	Whether Annual report on PMCP submitted on time and Correctly-Rule 26	Yes	submitted	
6b	Area available for rehabilitation (ha)	0.9	0.1	-
6c	Afforestation done(ha)	0.1	0.1	-
6d	No.of saplings planted during	240	240	-
6e	Cumulative no.of plants	480	480	-
6f	Any other specific method of rehabilitation	-	-	-
6g	Cost incurred on Watch & care during the year	-	Rs. 45,000 /-	-
6h	Compliance on reclamation and rehabilitation by backfilling (i)Void available for backfilling(LXBXD).	NA	NA	Presently no backfilling proposal
6i	Compliance on reclamation and rehabilitation by backfilling(ii)Void filled by waste /tailings.	NA	NA	-do-
6j	Compliance reclamation and rehabilitation by backfilling(iii)Afforestation on the backfilling area	NA	NA	-do-
6k	Compliance on reclamation and rehabilitation by backfilling(iv) Rehabilitation by making water reservoir.	NA	NA	-do-
6l	Compliance on reclamation and rehabilitation by backfilling (Any other specific means	NA	NA	-do-
6m	Compliance of Rehabilitation of waste land within lease (i) Afforestation	240	240	As per proposal
6n	Compliance of Rehabilitation of waste land within lease (ii)Area rehabilitation (ha) Method of rehabilitation	0.1	0.1	As per proposal
6o	Compliance of Rehabilitation of waste land within lease (iii) Method of rehabilitation	Plantation	Plantation	As per proposal
6p	Compliance of Environmental monitoring(core Zone & buffer Zone)	Monitoring Quarterly	As per proposal	
6q	General remarks of inspecting officer on PMCP compliance & progressive closure operations etc			PMCP WORK CARRIED OUT AS PER PROPOSAL

7.Mineral Conservation:

Sl.No.	Item	Proposals	Actual work	Remarks
7a	ROM Mineral dispatch or grade-wise sorting within lease area	Total ROM	As per proposal	ROM dispatched to plant for beneficiation
7b	Method of grade-wise mineral sorting i.e. manual or mechanical	Manual sorting	Manual sorting	Manual sorting
7c	Different grade of mineral sorted out at mines	No	No	Sorting together
7d	Any beneficiation process at mines	No	No	No beneficiation plant in side the lease area.
7e	General remarks of inspecting officer of Mineral conservation & benification issues			NO BENEFICIATION PROCESS WITHIN LEASE AREA.

8.Environment:

Sl.No..	Item	Proposals	Actual work	Remarks
8a	Separate removal and utilization of top-soil(Rule32)	Yes	Yes	Removed separately as per Rule.
8b	Concurrent use or storage of top-soil	Yes	Yes	Concurrent use.
8c	Separate dumps for overburden, waste rock, reject and fines (Rule 33)	Yes	Yes	As per Rule
8d	Use of overburden, waste rock reject 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)	Year wise proposal of plantation	Plantation	Plantation has been done
8g	Survival rate	-	60%	Due to local domestic animal survival rate is below 60%.
8h	Water sprinkling on roads to control airborne dust	Yes	Yes	Water sprinkling on roads Periodically done.
8i	General remarks of inspecting officer on aesthetic beauty in and around mines are			MINING OPERATION CARRIED OUT IN SMALL SCALE AND THE AESTHETIC BEAUTY

				MAINTAINED AROUND MINE AREA.
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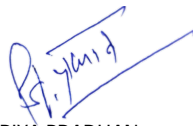
9.Compliance of Rule 45.

Sl.No.	Item	Proposals	Actual Work	Remarks
9a	Status of submission of monthly and Annual returns	Submitted	Submitted up to date both online & offline	All type of returns has been submitted by online and offline
9b	Scrutiny of Annual return for information on mining Engineer. Geologist and manager	Mining Er-1 Geologist- 1 Manager-1	Mining Er-1 Geologist- 1 Manager-1	Manager & M. Er-Sri Binay Ku. Nayak (from : 31.03.2021) 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-2.735 Dump-2.203 Road&building-0.747	Pit-1.130 Dump-1.980 Road & building-0.747	As per proposal
9d	Scrutiny of Annual return on Afforestation	240	240	-do-
9e	Scrutiny Annual return on mineral reject generation (Grade & quantity)	Nil	Nil	Total ROM production has been storage together
9f	Scrutiny of Annual return on ROM stock and/or graded ore	3940.537	3940.537	-do-
9g	Scrutiny of Annual return on sale value, Ex Mineral price & production cost etc.	1192	1192	Sale value fixed as per IBM sale price.
9h	Scrutiny of Annual return on fixed assets	Rs.595960/-	Rs.595960/-	-
9i	Scrutiny of Annual return on mining machineries	Shovel (hydraulic)-1 Tipper-2 Air Compressur-1 Back Hoe-1 Blast hole drill(elect.)-1 Pumps-3	Shovel (hydraulic)-1 Tipper-2 Air Compressur-1 Back Hoe-1 Blast hole drill(elect.)-1 Pumps-3	-

Violations issued

Rule No.	Proposed as per Mining Plan/ Rule Position	Violation
11(1)	<p>(i) As per the Review of Mining Plan approved vide letter No. RMP/A/26-ORI/BHU/2020-21 dated 18.11.2020 it was proposed to drill 110 nos. of exploratory bore holes in the year 2021-22.</p> <p>(ii) The Approved production quantity of ROM was 21300 tonnes</p>	<p>(i) During inspection it was observed that only 16 nos. of bore holes drilled during the year 2021-22 and backlog of 94 nos. of bore holes has not been drilled till date.</p> <p>(ii) Actual production of ROM during the year 2022-23 is 4300.100 tonnes which is less than 20% of the approved quantity.</p>
12(4)	<p>In the case of existing mining leases, detailed exploration (G1 level) over the entire potentially mineralised area under the mining lease shall be carried out in the manner specified in the Minerals (Evidence of Mineral Contents) Rules, 2015 or the Atomic Minerals Concession Rules, 2016, as the case may be, within a period of five years from the date of commencement of these rules.]</p>	<p>During inspection it was observed that, 11.418 ha. of the lease area has not been explored till date.</p>

SIGNATURE –



NAME- JITENDRIYA PRADHAN