

**INDIAN BUREAU OF MINES**  
**MCDR INSPECTION REPORT**

**Bhubaneswar Region**

**General**

SL. No.	Particulars	Details
1.	Name of the Mine	Kanther-Koira Manganese Mines
2.	Date of Inspection	12.02.2025
3.	Name of Inspection officer:	Sri Rohita Sethi, ACOM
4.	Name of official accompanying inspection	Sri Jeetendra Kumar Mohanty (Mines Manager) & Sri Pravas Ranjan Mahanta (Geologist)
5.	Last date of Inspection & Officer	Last date of Inspection: 23.05.2023 Officer: Sri Sanjib Kumar Mohapatra, SMG
6.	Total Lease Area (Ha) with breakup of non-forest and forest land	Total Lease Area (Ha): 73.301(As per DGPS) Forest Land (Ha): 34.195 Non-Forest Land: 39.106
7.	Mine Code	40OR113057
8.	IBM Registration Number under rule 45 of MCDR, 2017	IBM/42907/2018
9.	Name of the lessee, Address, phone, email and fax number.	P.M. Granite Export Private Limited 129, 7th Main, 5th Block Jayanagar, Bengaluru, 560041
10.	Village	Kanther-Koira
11.	Taluka/Mandal	Koira
12.	District	Sundargarh
13.	Pincode	770048
14.	State	Odisha
15.	Post office.	Koira
16.	Nearest police station	Koira
17.	Nearest Railway station	Barbil
18.	Date of Grant of Mining Lease	02.07.2020
19.	Date of Execution	02.07.2020
20.	Date of opening of Mine	16.04.2021
21.	Date of expiry	01.07.2070

22.	Name of the <b>Nominated Owner</b> with Address, phone, email, fax number and date of appointment	Sri M. Babanna Email: <a href="mailto:pmgranite55@gmail.com">pmgranite55@gmail.com</a> Ph: 9845030722 Date of appointment: 12.02.2023
23.	Name of the <b>Mine Agent</b> with Address, phone, email, fax number and date of appointment	Sri Jeetendra Kumar Mohanty Koira, Sundargarh Email: <a href="mailto:kk.manager@pmgroup.org.in">kk.manager@pmgroup.org.in</a> Ph: 9701653500 Date of appointment: 31.01.2024
24.	Name of the <b>Mines Manager</b> with Address, mobile no, email, fax number and date of appointment in mine	Sri Jeetendra Kumar Mohanty Koira, Sundargarh Email: <a href="mailto:kk.manager@pmgroup.org.in">kk.manager@pmgroup.org.in</a> Ph: 9701653500 Date of appointment: 22.02.2021
25.	Name of the <b>Mining Engineer</b> , Qualification and total experience with Address, mobile no, email, fax/phone number and date of appointment in mine	Sri Jeetendra Kumar Mohanty Degree in Mining Engineer Date of appointment: 22.02.2021 Koira, Sundargarh Email: <a href="mailto:kk.manager@pmgroup.org.in">kk.manager@pmgroup.org.in</a> Ph: 9701653500
26.	Name of the <b>Geologist</b> , Qualification and total experience with Address, mobile no, email, fax number and date of appointment in mine	Sri Pravas Ranjan Mahanta M.Sc. in Geology Date of appointment: 26.06.2023 Koira, Sundargarh Email: <a href="mailto:kk.geologist@pmgroup.org.in">kk.geologist@pmgroup.org.in</a> Ph: 9937384223
27.	Date of Approval of Mining Plan/Review of Mining Plan/ their modifications with five-year period and specific condition in approval letter, if any.	Date of Approval of Mining Plan for 2020-25 is 11/11/2020 vide letter No: MP/A/22-ORI/BHU/2020-21  Date of Modification of Mining Plan for 2023-25 is 10/08/2023 vide letter no: MCDR-MiFLOMn/2/20 22-BBS-IBMROBBS
28.	Mineral (s) granted in lease and proved for mining.	Manganese
29.	Method of Mining (Opencast, Underground)	Opencast
30.	Category (Fully Mechanised, Others or Manual)	A-OTFM
31.	Captive/Non-Captive	Non-Captive
	Present EC Capacity	20025.000 MT

**Exploration: ---**

SL.No.	Item	Proposals <b>(FY 2023-24)</b>	Actual work	Remarks
1a	Backlog of previous year	186 no's of Bore hole with 5941mtr	10 Nos of Boreholes, 490 meter	Violation Issued under Rule 11(1) of MCDR,2017
1b	Exploration over lease area for Geological axis 1 or 2.	90 no's of Bore hole with 3600mtr	Nil	
1c	Exploration Agency & Expenditure in lakh Rupees during the year	No such proposal	P.M. Geo Exploration Pvt Ltd	Nil
1d	Balance area to be explored to bring Geological axis in 1 or 2	G1-27.742 G2-45.559 Non-mineralized-58.505 Area to be explored-Nil	Nil	Nil
1e	Balance reserves as on 01.04.2024. (Proved + Probable)	As on 01/07/2023 111-551207 211-44419.76	111-539406tonnes 211-4416.76	Nil
1f	General remarks of inspecting officer on geology, exploration etc.	From the Year 2020-21 to 2023-24 there was a proposal of 276 no's of boreholes with 9541mtr, against which only 10no's of boreholes with 490mtr has been carried out, Violation issued under Rule 11(1) of MCDR, 2017.		

**Development:--**

SL.No.	Item	Proposals <b>(FY 2023-24)</b>	Actual work	Remarks
2a	Location of development w.r.t. lease area	E 319674 E 319674 N 2421790 N 2421670 E 319724 E 319724 N 2421744 N 2421556	Development carried out within the proposed Location.	From the drone image and site visit it is observed that development carried out within the proposed location, however big rain cuts are found inside the pits and repaired by the Lessee during the reporting year.
2b	Separate benches in topsoil, overburden and mineral	Separate benches for overburden and mineral.	Separate benches for OB & Ore cannot be possible, based on the deposit and nature of the Mn. ore & maintained	Nil

			Wherever possible.	
2c	Stripping ratio or Ore to OB ratio	1: 2.72	1: 3.13	Nil
2d	Quantity of topsoil generation in m3	Nil	Nil	Nil
2e	Quantity of overburden generation in m3	95520m <sup>3</sup>	56446.4 m <sup>3</sup>	Violation issued under Rule 11(1) of MCDR,2017
2f	General remarks of inspecting officer on development of pit w.r.t. type of deposit etc.	Development carried out as per proposal.		

**Exploitation:--**

SL.No.	Item	Proposals (FY 2023-24)	Actual work	Remarks
3a	Number of pits proposed for production	One	One	Nil
3b	Quantity of ROM mineral production proposed	35079.99 tones	18016 tones	Violation issued under Rule 11(1) of MCDR,2017
3c	Recovery of salable/usable mineral from ROM production	35079.990 tones	13667 tones	Nil
3d	Quantity of mineral reject generation	No proposal	4349tonnes from processed ore	Nil
3e	Grade of mineral reject generation and threshold value declared	Threshold value: 10 % Mn. And while cut-off grade considered by the Lessee for manganese ore is 10% Mn	Threshold value: 10 % Mn. And while cut-off grade considered by the Lessee for manganese ore is 10% Mn	The Mn ore containing +25% Mn is sellable ore. Mn ore containing 10-25% Mn is considered as sub-grade ore. Rock mass containing less than 10% Mn is considered as waste. As per the Geological report the average grade of the entire deposit is 16.01%Mn. The low grade Manganese ore after screening, sorting and sizing by manual method is

				marketed. However after suitable blending the Lessee is selling Mn ore 20 to 25%
3f	Quantity of sub-grade mineral generation	Same as 3d		
3g	Grade of sub-grade mineral generation	Same as 3e		
3h	Manual / Mechanized method adopted for segregating from ROM	Manual and Mechanized both	Manual and Mechanized both	Nil
3i	Any analysis or beneficiation study proposed & carried out for sub-grade mineral and reject	Nil	Nil	Nil
3j	Provision of drilling & blasting in mineral benches	Yes, Provision of HEMM with deep hole drilling and blasting operation.	As per proposal	Nil
3k	Provision of mining machineries in mineral benches	Yes, Shovel and Dumper combination Proposed	As per proposal	Nil
3l	Whether height of benches in overburden and mineral suitable for method of mining proposed in MP/SOM	Proposed bench height=Max.6m, Proposed bench	The lessee has maintained the height and width of the mine benches more or less as per the proposal.	Nil
3m	Total area covered under excavation/pits	10.22 Ha	11.930 Ha	Nil
3n	Ore to OB ratio for the pit/mine during the year	1: 2.72	1: 3.13	Nil
3o	Total area put in use under different heads at the end of year	Area under Mining-10.22ha Waste dumping-10.64ha Mineral Storage-1.78ha Infrastructure-0.03ha Roads-1.81ha Other-5.44ha	Mining -11.93 Ha Waste disposal-11.09 Ha Infrastructure (Workshop, admin. building etc.) -1.81 Ha Other-0.29 Work done	Nil

			under PMCP-1.47 Reclaimed rehabilitated-4.58	
3p	Production of ROM mineral during <b>last five-years period</b> , as applicable	2020-21: 20022 2021-22: 20010 2022-23: 30272 2023-24: 35079	2020-21:Nil 2021-22: 10066 2022-23: 20001 2023-24:18016	Nil
3q	General remarks of inspecting Officer on method of mining etc	Open-cast fully mechanized mining method is being carried as per approved MP.		

#### Solid Waste Management-Dumping:--

SL.No.	Item	Proposals (FY 2023-24)	Actual work	Remarks
4a	Separate dumping of topsoil, OB & mineral reject (Rule 32, 33)	Separate dumping of OB & mineral reject were proposed	Separate dumping of OB & stacking of mineral reject are being practiced.	Nil
4b	Location of topsoil, OB & mineral reject dumps	E320089.212 E320183.857 N2421887.069 N2421742.94	Waste dumping carried out within the proposed extent as per the proposal.	Nil
4c	Number of dumps within lease area and outside lease area	Two	Two	One stabilized dump pertains to Ex-Lessee.
4d	Location of dumps w.r.t. ultimate pit limit	E-320124-E 320124 N-2422320 N2421900 E-320054 - E 320380 N-242210 N242221	E-320124-E 320124 N-2422320- N2421900 E-320054 - E 320380 N-242210-N2422210	Nil
4e	Number of active & alive dumps	One	One	Nil
4f	Number of dead dumps	One	One	Nil
4g	Number of dumps stabilized	One	One	Nil

4h	Whether Retaining wall or garland drain all along dumps are there	Yes, Proposed. Retaining wall: 407 m Garland Drain: 427 m	Retaining wall: 407 m x 0.5 m x 1m Garland Drain: 427 m x 0.5 m x 1m has been constructed	Nil
4i	Length of Retaining wall or garland drain all along dump	Retaining wall: 407 m Garland Drain: 427 m	Retaining wall: 407 m x 0.5 m x 1m Garland Drain: 427 m x 0.5 m x 1m has been constructed	Nil
4j	Number of settling ponds	Nil	Nil	Nil
4k	Specific comments of inspecting Officer on waste dump management	Overburden wastes and mineral reject management are being carried out as per the approved proposals.		

#### 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	Nil	Nil	Nil
5b	Area under backfilling of mined out area	Nil	Nil	Nil
5c	Concurrent use of topsoil for restoration or rehabilitation of mined out area	Nil	Nil	Nil
5d	Total area fully reclaimed & rehabilitated	Nil	Nil	Nil
5e	General remarks of inspecting Officer on backfilling and reclamation etc	Existing pit is not matured for backfilling as ore/mineral not exhausted completely.		

#### Progressive Mine Closure Plan: ---

SL. N.	Item	Proposals (FY 2023-24)	Actual work	Remarks
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6a	Whether Annual report on PMCP submitted on time and correctly - Rule 26(2). (Hard copy same provided)	As per Rule 26(2) Annual PMCP report to be submitted before 1st day of July of Every Year.	Report has been submitted within the stipulated time period.	Nil																				
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	<table border="0"> <tr><td>i.</td><td>Nil</td></tr> <tr><td>ii.</td><td>Nil</td></tr> <tr><td>iii.</td><td>Nil</td></tr> <tr><td>iv.</td><td>Nil</td></tr> <tr><td>v.</td><td>Nil</td></tr> </table>	i.	Nil	ii.	Nil	iii.	Nil	iv.	Nil	v.	Nil	<table border="0"> <tr><td>i.</td><td>Nil</td></tr> <tr><td>ii.</td><td>Nil</td></tr> <tr><td>iii.</td><td>Nil</td></tr> <tr><td>iv.</td><td>Nil</td></tr> <tr><td>v.</td><td>Nil</td></tr> </table>	i.	Nil	ii.	Nil	iii.	Nil	iv.	Nil	v.	Nil	Nil
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6c	Compliance on reclamation and rehabilitation by backfilling i) Voids available for backfilling (L X B X D) ii) Void filled by	<table border="0"> <tr><td>i.</td><td>Nil</td></tr> <tr><td>ii.</td><td>Nil</td></tr> <tr><td>iii.</td><td>Nil</td></tr> <tr><td>iv.</td><td>Nil</td></tr> <tr><td>v.</td><td>Nil</td></tr> </table>	i.	Nil	ii.	Nil	iii.	Nil	iv.	Nil	v.	Nil	<table border="0"> <tr><td>i.</td><td>Nil</td></tr> <tr><td>ii.</td><td>Nil</td></tr> <tr><td>iii.</td><td>Nil</td></tr> <tr><td>iv.</td><td>Nil</td></tr> <tr><td>v.</td><td>Nil</td></tr> </table>	i.	Nil	ii.	Nil	iii.	Nil	iv.	Nil	v.	Nil	Nil
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	waste/tailings iii) Afforestation on the backfilled area iv) Rehabilitation by making water reservoir v) Any other specific means			
6d	Compliance of Rehabilitation of waste land within lease i) Afforestation ii) Area rehabilitated (ha) iii) Method of rehabilitation	i) 1000 Nos of saplings ii) 0.6 Ha. (Green Belt Along Safety zone) iii) Plantation	i) 1000 Nos of saplings ii) 2023-24= 0.6 Ha. (Green Belt Along Safety zone) iii) Plantation	Nil
6e	Compliance of Environmental monitoring (core zone & buffer zone)	Air, Noise and Water quality monitoring will be done during the year within the Lease area.	Air, Noise and Water quality monitoring is being carried out during the year within the lease area.	Nil
6f	General remarks of inspecting Officer on PMCP compliance & progressive closure operation etc	Lessee has implementing PMCP proposals as per approved modified RMP.		

**Mineral Conservation:---**

SL.No.	Item	Proposals ((FY 2023-24)	Actual work	Remarks
7a	ROM Mineral dispatch or grade-wise sorting within lease area	Ore/mineral sorting, screening Plant within lease area.	As per proposal	Nil
7b	Method of grade-wise mineral sorting i.e. manual or mechanical	Manual by Labour and Screening	Manual by Labour and Screening	Nil
7c	Different grade of mineral sorted out at mines	+10% to -25% Mn, +25%Mn	As per proposal	Nil
7d	Any beneficiation process at mines	Nil	Nil	Nil

**Environment:--**

SL.No.	Item	Proposals (FY 2023-24)	Actual work	Remarks
8a	Separate removal and utilization of topsoil	Nil	Nil	Nil
8b	Concurrent use or storage of topsoil	Nil	Nil	Nil
8c	Separate dumps for overburden, waste rock, rejects and fines	Separate dumps for overburden and mineral reject stacks, waste rocks are proposed.	Separate dumps for overburden and mineral reject stacks, waste rocks are being practiced.	Nil
8d	Use of overburden, waste rock, rejects and fines dumps for restoring the land to its original use	Nil	Nil	Nil
8e	Phased restoration, reclamation and rehabilitation of lands affected by mining operations (Pits, dumps etc)	Nil	Nil	Nil
8f	Baseline information on existence of plantation & additional plantation done	1000 Nos of saplings with 65% of survival rate for 2023-24.	1000 Nos of saplings with 88.8% of survival rate for 2023-24.	Nil
8g	Survival rate	1000 Nos of saplings with 65% of survival rate.	1000 Nos of saplings with 88.8% of survival rate.	Nil
8h	Water sprinkling on roads to control airborne dust	Water sprinkling by water tanker over haul roads	Water sprinkling by water tanker over haul roads has been	Nil

		proposed	carried out during the reporting year	
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### Compliance of Rule 45

SL.No.	Item	COMMENTS		Remarks.
9a	Status of submission of Monthly and Annual returns	All monthly returns submitted for the reporting year with in the stipulated time period. Annual return for FY 2023-24 has been submitted by the Lessee on 28.06.2024		-----
S.N.	Item	Details given in A.R. for the year 2023-24	Observation of I/ Officer	
9b	Scrutiny of Annual return for information on Mining Engineer, Geologist and Manager	Sri Jeetendra Kumar Mohanty, Mining Engineer & Mines Manager Sri Pravas Ranjan Mahanta, Geologist	Actual also the same	-----
9c	Scrutiny of Annual return on land use pattern for area under pits, reclaimed area, dumps etc.	Mining -11.93 Ha Waste disposal-11.09 Ha Infrastructure (Workshop, admin. building etc.) -1.81 Ha Other-0.29 Work done under PMCP-1.47 Reclaimed rehabilitated-4.58	Appears to be correct at that time.	-----
9d	Scrutiny of Annual return on afforestation	1000 nos. of saplings planted WML	Appears to be correct	-----
9e	Scrutiny of Annual return on mineral reject generation (Grade & quantity)	4349tonnes from processed ore (10-25%Mn)	Appears to be correct	-----
9f	Scrutiny of Annual return on ROM stock and/or graded ore	ROM Closing Stock-12457 Below 25%Mn-11398.84	Appears to be correct at that time.	-----
9g	Scrutiny of Annual return on sale value, Ex. Mine	Ex-Mine Price of Below 25% Mn	Appears to be correct	-----

	price & production cost	Ore - Rs. 4239.64		
9h	Scrutiny of Annual return on fixed assets	Value of fixed Assets: Rs. 13745583	Appears to be correct	-----
9i	Scrutiny of Annual return on mining machineries	Shovel (hydraulic)-2 No's Tipper -3 No's Wheel loader -1 No. Water Tanker - 1 Nos Generator (Diesel) 10.000 Kwh-1 Nos	Observed to be correct at that time	-----

**(10) Violation observed during current inspection and compliance position of earlier**

**Violation pointed out:**

(a) Compliance position of earlier violation pointed out: During last inspection dated 23/05/2023, no violation has been pointed out.

(b) During current inspection: The violation of Rule 11 (1) & 45(7) of MCDR 2017 have been observed and the violation letter issued on 28/03/2025.

(11) The lessee was submitted DAI/drone survey data under rule 34A for FY 23-24 on 22/06/2024.

Rohita Sethi  
Assistant Controller of Mines