

MCDR INSPECTION REPORT**General**

<b>S N</b>	<b>Particulars</b>	<b>Details</b>
1	File no	
2	Name of the Mine	Kanther-Koira Manganese Mines
3	Total Lease Area (Ha) with breakup of Non-forest and forest land	73.301 Ha.
4	Mine code	40ORI13057
5	Date of Inspection	23.05.2023
6	Name of official accompanying inspection	Sri Jeetendra Kumar Mohanty (Mines Manager) & Sri Rajesh Kumar Mahanta
7	IBM Registration Number under rule 45 of MCDR, 1988	IBM/42907/2018
8	Name of the lessee, Address, phone, email and fax number	P.M. Granite Export Private Limited 129, 7 <sup>th</sup> Main, 5 <sup>th</sup> Block Jayanagar, Bengaluru, 560041
9	Village	Kanther-Koira
10	Taluka/Mandal	Koira
11	District	Sundargarh
12	Pincode	770048
13	State	Odisha
14	Post office	Koira
15	Nearest police station	Koira
16	Nearest Railway station	Barbil
17	Date of Grant of Mining Lease	02.07.2020
18	Date of Execution	02.07.2020
19	Date of opening of Mine	16.04.2021
20	Date of first Renewal, if applicable and its period & expiry	NA
21	Date of second Renewal, if applicable and its period & expiry	NA
22	Date of submission of renewal application if Mining Operations are continuing under deemed extension	NA

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23	Name of the Nominated Owner 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
24	Name of the Mine Agent 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
25	Name of the Mines Manager with Address, phone, email, fax number and date of appointment in mines		Sri Jeetendra Kumar Mohanty Email: <a href="mailto:kk.manager@pmgroup.org.in">kk.manager@pmgroup.org.in</a> Ph: 9701653500 Date of appointment: 22.02.2021
26	Name of the Mining Engineer & Geologist, Qualification and total experience	Mining engineer Qualification Date of appointment Address phone/email	Sri Jeetendra Kumar Mohanty Degree in Mining Engineer 22.02.2021 Koira, Sundargarh Email: <a href="mailto:kk.manager@pmgroup.org.in">kk.manager@pmgroup.org.in</a> Ph: 9701653500
		Geologist Qualification Date of appointment Address phone/email	Sri Rajesh Kumar Mahanta M.Sc. in Geology 14.10.2020 Koira, Sundargarh Email: <a href="mailto:kk.geologist@pmgroup.org.in">kk.geologist@pmgroup.org.in</a> Ph: 8249146605
27	Whether Geologist and Mining Engineer appointed in mines satisfy the rule 42 & carrying out their duties as per rule 43 & 44.		Yes
28	Date of Approval of Review of Mining Plan/Modified Mining Plan with five-year period and specific condition in approval letter, if any.		11.11.2020
29	Date of Approval of Scheme of Mining/Modified Scheme of Mining with five-year period and specific condition in approval letter, if any.		11.11.2020
30	Mineral(s) granted in lease and proved for mining		Manganese
31	Method of Mining(Open cast, Underground)		Open cast
32	Category (Fully Mechanised, Others or Manual)		Others (Semi-Mechanized)
33	Captive/Non Captive		Non Captive

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Scientific Mining: Compliance of proposals of approved mining plan/Review of mining.

**Exploration**

S.N.	Item	Proposals	Actual work	Remarks
1a	Backlog of previous year	63 Nos of Bore holes & 2030 meters	Nil	The lessee has not carried out the proposed exploration in the reporting year. However the lessee has started exploration work since 10.04.2023, for the previous backlog and current year proposal within the lease area.
1b	Exploration over lease area for Geological axis 1 or 2.	Entire mining lease area of 73.301 Ha. to be converted to G1 category till 2023-24.	Not done	The lessee has not carried out the proposed exploration in the reporting year. However the lessee has started exploration work since 10.04.2023, for the previous backlog and current year proposal within the lease area.
1c	Exploration Agency & Expenditure in lakh Rupees during the year	Not proposed	Nil	
1d	Balance area to be explored to bring Geological axis in 1 or 2	Entire mining lease area of 73.301 Ha. to be converted to G1 category till 2023-24.	Nil	The lessee has not carried out the proposed exploration in the reporting year. However the lessee has started exploration work since 10.04.2023, for the previous backlog and current year proposal within the lease area.
1e	Balance reserves as on 01.04.2023		551207 tones as on 31.03.2023	551207 tones as on 31.03.2023
1f	General remarks of inspecting officer on geology, exploration	As per the discussion with mines manager during inspection, lessee could not able to carried out the proposed exploration		

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	etc.	programme due to unavailability of exploration agency during the reporting year. However the lessee has started exploration work since 10.04.2023, for completion of the previous backlog and current year proposal within the lease area.
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**Development**

S.N.	Item	Proposals	Actual work	Remarks
2a	Location of development w.r.t. lease area	E 319704 N 2421798 E 319770 N 2421757 E 319774 N 2421631 E 319647 N 2421643 Proposed for the reporting year.	E 319704 N 2421798 E 319770 N 2421757 E 319774 N 2421631 E 319647 N2421643	As there was proposal for extraction of Mn. ores from the single existing quarry, the lessee has carried out well within the proposal during the reporting year but could not achieved the proposed target of the reporting year.
2b	Separate benches in topsoil, overburden and mineral (Rule 15)	Separate benches for OB & Ore cannot be possible, based on the deposit and nature of the Mn ore.	Separate benches for OB & Ore cannot be possible, based on the deposit and nature of the Mn. ore & maintained wherever possible.	Separate benches for OB & Ore cannot be possible, based on the deposit and nature of the Mn. ore & maintained wherever possible.
2c	Stripping ratio or ore to OB ratio	1:2.93	1:5.35	
2d	Quantity of topsoil generation in m <sup>3</sup>	Nil	Nil	
2e	Quantity of overburden/waste generation in m <sup>3</sup>	88885.500 Cum.	52012.600 Cum.	
2f	General remarks of inspecting officer on development of pit w.r.t. type of deposit etc.	The lessee has carried out within the proposed location, but could not achieved the proposed target during the reporting, However being an auction concession, MDPA target has been achieved in the reporting year.		

**Exploitation**

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S.N.	Item	Proposals	Actual work	Remarks
3a	Number of pits proposed for production	One	One	
3b	Quantity of Manganese production proposed	30272.000 tones	14579.500 tones	
3c	Recovery of salable/usable mineral from ROM production	Nil	Nil	
3d	Quantity of mineral reject generation	30272.000 tones	14579.500 tones	
3e	Grade of mineral reject generation and threshold value declared	Threshold value : 10 % Mn.	Threshold value : 10 % Mn.	
3f	Quantity of sub-grade mineral generation	Nil	Nil	
3g	Grade of sub-grade mineral generation	Nil	Nil	
3h	Manual / Mechanised method adopted for segregating from ROM	Manual	Manual	
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	Yes, Jack Hammer 115 mm dia Drills. Blasting proposed with LD explosives of 25mm dia. & 83mm dia. with Detonating cord & milli second delay detonators.	Yes, Jack Hammer 115 mm dia Drills. Blasting carried out with with LD explosives of 25mm dia. & 83mm dia. With Detonating cord & milli second delay detonators.	Yes, Jack Hammer 115 mm dia Drills. Blasting carried out with with LD explosives of 25mm dia. & 83mm dia. With Detonating cord & milli second delay detonators.
3k	Provision of mining machineries in mineral benches	Yes, Shovel and Dumper combination Proposed	Yes, Shovel and Dumper combination carried out.	
3l	Whether height of benches in overburden and mineral	Proposed bench height=6m,	The lessee has carried out the height and	The lessee has carried out the height

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	suitable for method of mining proposed in MP/SOM	Proposed bench width= 8m	width of the mine benches more or less as per the proposal and the height of the benches are suitable for the method of mining proposed in review of mining plan.	and width of the mine benches more or less as per the proposal and the height of the benches are suitable for the method of mining proposed in review of mining plan.
3m	Total area covered under excavation/pits	11.93 Ha.	11.93 Ha.	
3n	Ore to OB ratio for the pit/mine during the year	1: 3.19	1: 5.35	
3o	Total area put in use under different heads at the end of year	29.70 Ha	29.70 Ha.	
3p	Production of ROM mineral during last five-year period, as applicable	2020-21: 20022.640 2021-22: 20010.320 2022-23: 30272.000	2020-21: Nil 2021-22: 10066.000 2022-23: 14579.500	The mine was started operation since 16.04.2021
3q	General remarks of inspecting officer on method of mining etc.	The lessee has carried out well within the proposal as per the approved mining plan but could not achieve the proposed production of Mn. ore due to lack of statutory clearances during the reporting year. However being an auction concession, MDPA target has been achieved in the reporting year.		

**Solid Waste Management-Dumping**

S.N	Item	Proposals	Actual work	Remarks
4a	Separate dumping of topsoil, OB & mineral reject (Rule 32, 33)	Separate dumping of topsoil, OB & mineral reject were proposed	Separate dumping of OB & stacking of mineral reject are being practiced.	Generation of top soil was nil during the reporting year.
4b	Location of topsoil, OB & mineral reject dumps	E 320103 E 320138 N 2422134 N 2422260 E 320205 E 320321 N 2422236	E 320103 E 320138 N 2422134 N 2422260 E 320205 E 320321 N 2422236	

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		N 2422207	N 2422207	
4c	Number of dumps within lease area and outside lease area	Two	Two	
4d	Location of dumps w.r.t. ultimate pit limit (Rule 16)	E 320103 E 320138 N 2422134 N 2422260 E 320205 E 320321 N 2422236 N 2422207	E 320103 E 320138 N 2422134 N 2422260 E 320205 E 320321 N 2422236 N 2422207	
4e	Number of active & alive dumps	One	One	
4f	Number of dead dumps	Nil	Nil	
4g	Number of dumps stabilized	One	One	
4h	Whether Retaining wall or garland drain all along dumps are there	Yes, Proposed; Retaining wall: 389 m x 0.5 m x 1 m Garland Drain: 393 m x 0.5 m x 1 m	Yes, Carried out; Retaining wall: 389 m x 0.5 m x 1 m Garland Drain: 393 m x 0.5 m x 1 m	
4i	Length of Retaining wall or garland drain all along dump	Yes, Proposed; Retaining wall: 389 m x 0.5 m x 1 m Garland Drain: 393 m x 0.5 m x 1 m	Yes, Carried out; Retaining wall: 389 m x 0.5 m x 1 m Garland Drain: 393 m x 0.5 m x 1 m	
4j	Number of settling ponds	05 Nos.	01 No.	
4k	Specific comments of inspecting officer on waste dump management	Separate dumping of OB & stacking of mineral reject are being practiced during the reporting year. OB dumps are well within the proposed location and protective measures are also constructed as per the proposal.		

**Solid Waste Management-Backfilling**

S.N.	Item	Proposals	Actual work	Remarks
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5a	Status on part or full extraction of mineral from mined out area before starting backfilling	Nil	Nil	The mine is not mature till the reporting year for back filling.
5b	Area under backfilling of mined out area	Nil	Nil	The mine is not mature till the reporting year for back filling.
5c	Concurrent use of topsoil for restoration or rehabilitation of mined out area (Rule 32)	Nil	Nil	The mine is not mature till the reporting year for back filling.
5d	Total area fully reclaimed & rehabilitated	Nil	Nil	
5e	General remarks of inspecting officer on backfilling, reclamation etc.	One mining pit is existing within the mining lease area and the pit is not mature for backfilling till the reporting year.		

### **Progressive Mine Closure Plan**

S.N.	Item	Proposals	Actual work	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 Annexure-20.	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.	
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	i. Nil ii. Nil iii. Nil iv. Nil v. Nil vi. Nil	i. Nil ii. Nil iii. Nil iv. Nil v. Nil vi. Nil	
6c	Compliance on reclamation and rehabilitation by backfilling i) Voids available for backfilling (L * B * D) ii) Void filled by waste/tailings iii) Afforestation on the backfilled area iv) Rehabilitation by making water reservoir v) Any other specific means	i. Nil ii. Nil iii. Nil iv. Nil v. Nil	i. Nil ii. Nil iii. Nil iv. Nil v. Nil	



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6d	Compliance of Rehabilitation of waste land within lease i) Afforestation ii) Area rehabilitated (ha) iii) Method of rehabilitation	i) 1000 nos of sapplings ii) 2022-23= 0.36 Ha. iii) Plantation	i) 756 nos of sapplings ii) 2022-23= 0.36 Ha. iii) Plantation	
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 will be done during the year within the lease area.	
6f	General remarks of inspecting officer on PMCP compliance & progressive closure operations	The lessee has carried out afforestation and environmental monitoring as per the proposal during the reporting year. Only one active quarry is existing within the lease area and not mature for backfilling during the reporting year.		

**Mineral Conservation**

S.N.	Item	Proposals	Actual work	Remarks
7a	ROM Mineral dispatch or grade-wise sorting within lease area	30272.000 tones	14579.500 tones	
7b	Method of grade-wise mineral sorting i.e. manual or mechanical	Manual	Manual	
7c	Different grade of mineral sorted out at mines	+10% to -25% Mn (Mineral Reject)	+10% to -25% Mn (Mineral Reject)	
7d	Any beneficiation process at mines	Nil	Nil	
7e	General remarks of inspecting officer on Mineral conservation & beneficiation issues	The lessee has not produced the targeted production proposal during the reporting year and the lessee has sorted all ROM of +10% to -25% Mn grade with different stacks for selling of different buyers in market.		

**Environment**

S.N.	Item	Proposals	Actual work	Remarks
8a	Separate removal and utilization of topsoil (Rule 32)	Nil	Nil	Top soil is not available within the ML area.
8b	Concurrent use or storage of topsoil	Nil	Nil	Top soil is not available within the ML area.

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8c	Separate dumps for overburden, waste rock, rejects and fines (Rule 33)	Separate dumps for overburden and mineral reject stacks, waste rocks are proposed.	Separate dumps for Over-burden and mineral stacks and other waste rocks are being practiced.	
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)	1000 Nos of sapplings with 74% of survival rate.	756 Nos of sapplings with 74% of survival rate.	
8g	Survival rate	1000 Nos of sapplings with 74% of survival rate.	756 Nos of sapplings with 74% of survival rate.	
8h	Water sprinkling on roads to control airborne dust	Water sprinkling by water tanker over haul roads has been carried out during the reporting year.	Water sprinkling by water tanker over haul roads has been carried out during the reporting year.	Water sprinkling by water tanker over haul roads has been carried out during the reporting year.
8i	General remarks of inspecting officer on aesthetic beauty in and around mines area	The lessee could not achieve the proposed production target during the reporting year. However, the lessee has planted 756 no of sapplings within the lease area and water sprinkling by water tanker over haul roads to control the airborne dust and to minimize the fugitive dust emission. This sustains the aesthetic beauty of the mine area.		

**Compliance of Rule 45**

S.N.	Item	COMMENTS		Remarks
9a	Status of submission of Monthly and Annual returns	Submitted within times		
S.N.	Item		Observation of I/Officer	Remarks

9b	Scrutiny of Annual return for information on Mining Engineer, Geologist and Manager	Annual return for FY 2022-23 has not been submitted till the date of inspection and yet to be submitted within the scheduled time period.	Annual return for FY 2022-23 has not been submitted till the date of inspection and yet to be submitted within the scheduled time period.	
9c	Scrutiny of Annual return on land use pattern for area under pits, reclaimed area, dumps etc.	Annual return for FY 2022-23 has not been submitted till the date of inspection and yet to be submitted within the scheduled time period.	Annual return for FY 2022-23 has not been submitted till the date of inspection and yet to be submitted within the scheduled time period.	
9d	Scrutiny of Annual return on afforestation	Annual return for FY 2022-23 has not been submitted till the date of inspection and yet to be submitted within the scheduled time period.	Annual return for FY 2022-23 has not been submitted till the date of inspection and yet to be submitted within the scheduled time period.	
9e	Scrutiny of Annual return on mineral reject generation (Grade & quantity)	Annual return for FY 2022-23 has not been submitted till the date of inspection and yet to be submitted within the scheduled time period.	Annual return for FY 2022-23 has not been submitted till the date of inspection and yet to be submitted within the scheduled time period.	
9f	Scrutiny of Annual return on ROM stock and/or graded ore	Annual return for FY 2022-23 has not been submitted till the date of inspection and yet to be submitted within the scheduled time period.	Annual return for FY 2022-23 has not been submitted till the date of inspection and yet to be submitted within the scheduled time period.	
9g	Scrutiny of Annual return on sale value, Ex. Mine price & production cost	Annual return for FY 2022-23 has not been submitted till the date of inspection and yet to be submitted within the scheduled time period.	Annual return for FY 2022-23 has not been submitted till the date of inspection and yet to be	

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			submitted within the scheduled time period.	
9i	Scrutiny of Annual return on fixed assets	Annual return for FY 2022-23 has not been submitted till the date of inspection and yet to be submitted within the scheduled time period.	Annual return for FY 2022-23 has not been submitted till the date of inspection and yet to be submitted within the scheduled time period.	
9k	Scrutiny of Annual return on mining machineries	Annual return for FY 2022-23 has not been submitted till the date of inspection and yet to be submitted within the scheduled time period.	Annual return for FY 2022-23 has not been submitted till the date of inspection and yet to be submitted within the scheduled time period.	