

MCDR INSPECTION REPORT*Date of Inspection: 28.06.2024***General**

| S. N. | Particulars | Details |
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| 1 | Name of the Mine | Gandhamardan Iron Ore Mine, (Block-A) |
| 2 | Total Lease Area (Ha) with breakup of Non-forest and forest land | Lease area: 618.576 Ha. Forest area: 519.7472 Ha. Non Forest: 98.8288 Ha. |
| 3 | Minecode | 30ORI08016 |
| 4 | IBM Registration Number under rule 45 of MCDR, 1988 | IBM/4269/2011 |
| 5 | Name of the lessee, Address, phone, email and fax number | M/s The Odisha Mining Corporation Limited, A Govt. of Odisha undertaking, OMC House, Unit 5, Post Box No.34, Bhubaneswar-751001, Odisha. |
| 6 | Village | Suakati, Daunla and Gandhamardan PRF |
| 7 | Taluka/Mandal | Keonjhar Sadar |
| 8 | District | Keonjhar |
| 9 | Pincode | 758018 |
| 10 | State | Odisha |
| 11 | Post office | Suakati |
| 12 | Nearest police station | Suakati |
| 13 | Nearest Railway station | Kendujhargarh |
| 14 | Date of Grant of Mining Lease | 21.05.1963 |
| 15 | Date of Execution | 21.05.1963 |
| 16 | Date of opening of Mine | 21.05.1963 |
| 17 | Date of first Renewal, if applicable and its period & expiry | 21.05.1993 to 20.05.2013 |
| 18 | Date of second Renewal, if applicable and its period & expiry | 21.05.2013 to 20.05.2033 |
| 19 | Date of submission of renewal application if Mining Operations are continuing under deemed extension | 1 st Renewal Application – 06.04.1992 2 nd Renewal Application – 01.05.2012 |

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| 20 | Name of the Nominated Owner with Address, phone, email, fax number and date of appointment | Shri Balwant Singh (IAS) OMC House, Post Box No.34, Bhubaneswar-751001, Odisha. |
| 21 | Name of the Mine Agent with Address, phone, email, fax number and date of appointment | Shri Anurag Ojha At/P.O. - Suakati, District - Keonjhar, State - Odisha, PIN - 758018 Date of Appointment :19/06/2020 |
| 22 | Name of the Mines Manager with Address, phone, email, fax number and date of appointment in mines | Shri Anil Kumar Sahoo At/P.O. - Suakati, District - Keonjhar, State - Odisha, PIN - 758018 Date of Appointment :02/04/2021 |
| 23 | Name of the Mining Engineer, Qualification and total experience with Address, phone, email, fax number and date of appointment in mine | Shri Bibhisan Majhi B. Tech in Mining Engineering At/P.O. - Suakati, District - Keonjhar, State - Odisha, PIN - 758018 Date of Appointment :22/06/2021 |
| 24 | Name of the Geologist, Qualification and total experience with Address, phone, email, fax number and date of appointment in mine | Mrs. Nilu Iraqi M. SC. Applied Geology At/P.O. - Suakati, District - Keonjhar, State - Odisha, PIN - 758018 Date of Appointment :12/08/2023 |
| 25 | Whether Geologist and Mining Engineer appointed in mines satisfy the rule 55& carrying out their duties as per rule 56 & 57. | <u>Mining Engineer:</u> Shri Bibhisan Majhi B.Tech in Mining Engineering At/P.O. - Suakati, District - Keonjhar, State - Odisha, PIN - 758018 Date of Appointment :22/06/2021 <u>Geologist:</u> Mrs. Nilu Iraqi M. SC. Applied Geology At/P.O. - Suakati, District - Keonjhar, State - Odisha, PIN - 758018 Date of Appointment :12/08/2023 |
| 26 | Date of Approval of Mining Plan/Modified Mining Plan with five-year period and specific condition in | 14.02.2023 |

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| | approval letter, if any. | |
| 27 | Date of Approval of Scheme of Mining/Modified Scheme of Mining with five-year period and specific condition in approval letter, if any. | Nil |
| 28 | Mineral(s) granted in lease and proved for mining | Iron |
| 29 | Method of Mining(Open cast, Underground) | Open cast |
| 30 | Category (Fully Mechanised, Others or Manual) | Fully Mechanized |
| 31 | Captive/Non Captive | Non Captive |

Scientific Mining: Compliance of proposals of approved mining plan/scheme of mining. (Duplication of information in existing TMIS data sheets and draft write up has been avoided.)

Exploration

| S.N. | Item | Proposals for, 2023-24 | Actual work during 2023-24 | Remark |
|------|--------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------|----------------------------------------------------------------------------------------|
| 1a | Backlog of previous year | Nil | 73 no of borehole | 73 nos of bore hole were from the remaining proposal of the previous year i.e. 2022-23 |
| 1b | Exploration over lease area for Geological axis 1 or 2. | Nil | 80 Ha in G1 | |
| 1c | Exploration Agency & Expenditure in lakh Rupees during the year | | M/s. Maheswari Mining Pvt. Ltd Rs.10340077.80 | |
| 1d | Balance area to be explored to bring Geological axis in 1 or 2 | Nil | Nil | |
| 1e | Balance reserves as per latest approved document | | 23.501 Million Tonnes | |
| 1f | General remarks of inspecting officer on geology, exploration etc. | There was no proposal for exploration during the reporting year. However, the lessee has drilled 73 no of bore hole i.e. remaining exploration from the FY 2022-23 during this reporting year and converted the entire area to G1 level of exploration. | | |

Development

| S.N. | Item | Proposals for, 2023-24 | Actual work during 2023-24 | Remark |
|------|-------------------------------------------|-------------------------------------------|-------------------------------------------|-------------------------------------------------------|
| 2a | Location of development w.r.t. lease area | Float Quarry N 2390418- N2391118/ E | Float Quarry N 2390458- N2390969/ E | Hill top Quarry couldn't be worked due to want of FC. |

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| | | 344059- E 344627 <u>Hill Top Quarry</u> N 2392226- N2392362/ E 345164- E 345277 | 344159- E 344477 <u>Hill Top</u> <u>Quarry</u> No Working | |
| 2b | Separate benches in topsoil, overburden and mineral (Rule 15) | No of Benches. Top Soil- 0 Overburden-2 Mineral- 2 | No of Benches. Top Soil- 0 Overburden-1 Mineral- 1 | |
| 2c | Stripping ratio or ore to OB ratio | <u>Float Quarry:</u> 1:1.332 <u>Hill Top Quarry</u> 1:0.145 | <u>Float Quarry:</u> 1:0.839 <u>Hill Top</u> <u>Quarry:</u> Nil | |
| 2d | Quantity of topsoil generation in m3 | Nil | Nil | |
| 2e | Quantity of overburden generation in m3 | 228196 Cum | 53656.255 Cum | Hill top Quarry couldn't be worked due to want of FC. So there was less production resulting in less OB generation. |
| 2f | General remarks of inspecting officer on development of pit w.r.t. type of deposit etc. | There was proposal for 2 quarries i.e. Float Quarry and Hill Top quarry for development and production during the reporting year. However, the lessee could carry out development and production from Float Quarry only and Hill top Quarry couldn't be worked due to want of forest clearance. Further the lessee has submitted modification of approved review of mining plan to this office with a revised proposal for its approval and the same is under process. | | |

Exploitation

| S.N. | Item | Proposals for, 2023-24 | Actual work during 2023-24 | Remark |
|------|--------------------------------------------------------|------------------------|----------------------------|--------------------------------------------------------------------------------------------------------------|
| 3a | Number of pits proposed for production | 02 | 01 | Hill top Quarry couldn't be worked due to want of FC. |
| 3b | Quantity of ROM mineral production proposed | 350000 Tons | 45000 Tons | The shortfall of 2,00,000 tons was proposed from Hill top Quarry which couldn't be worked due to want of FC. |
| 3c | Recovery of salable/usable mineral from ROM production | 226626.67 Tons | 45000 Tons | |
| 3d | Quantity of mineral reject generation | 123373.33 Tons | Nil | |

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| 3e | Grade of mineral reject generation and threshold value declared | 45-55 Fe%, Threshold Value of Fe- 45% | 45-55 Fe%, Threshold Value of Fe- 45% | |
| 3f | Quantity of sub-grade mineral generation | Nil | Nil | |
| 3g | Grade of sub-grade mineral generation | NA | NA | |
| 3h | Manual / Mechanised method adopted for segregating from ROM | Mechanized | Mechanized | |
| 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 | 115mm dia deep hole drilling and blasting using NONEL | 115mm dia deep hole drilling and blasting using NONEL | |
| 3k | Provision of mining machineries in mineral benches | Excavator and Dumper combination. | Excavator and Dumper combination. | |
| 3l | Whether height of benches in overburden and mineral suitable for method of mining proposed in MP/SOM | <u>Float Quarry</u> Height: 6Mtr Width: 10Mtr <u>Hill Top Quarry</u> Height: 10 Mtr Width: 15Mtr | <u>Float Quarry</u> Height: 6Mtr Width: 8Mtr <u>Hill Top Quarry</u> No Working | Hill top Quarry couldn't be worked due to want of FC. |
| 3m | Total area covered under excavation/pits | 62.48 Ha | 61.61 Ha | Hill top Quarry couldn't be worked due to want of FC. |
| 3n | Ore to OB ratio for the pit/mine during the year | <u>Float Quarry</u> 1:1.332 <u>Hill Top Quarry</u> 1:0.145 | <u>Float Quarry</u> 1:0.839 <u>Hill Top Quarry</u> NA | Hill top Quarry not working due to want of FC |
| 3o | Total area put in use under different heads at the end of year | 159.56 Ha | 111.35 Ha | Hill top Quarry couldn't be worked due to want of FC. |

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| 3p | Production of ROM mineral during last six-year period, as applicable 2017-18 2018-19 2019-20 2020-21 2021-22 2022-23 | FY 2018-19: 350000 MT FY 2019-20: 350000 MT FY 2020-21: 350000 MT FY 2021-22: 350000 MT FY 2022-23: 350000 MT | FY 2018-19: 179000 MT FY 2019-20: 220900 MT FY 2020-21: 155800 MT FY 2021-22: 164700 MT FY 2022-23: 45000 MT | |
| 3q | General remarks of inspecting officer on method of | The lessee has carried out the production and development proposal within the proposal but could not carried out as per the proposal and could not achieved the proposed production target. There was proposal for 2 quarries i.e. Float Quarry and Hill Top quarry for development and production during the reporting year. However, the lessee could carry out development and production from Float Quarry only and Hill top Quarry couldn't be worked due to want of forest clearance. Further the lessee has submitted modification of approved review of mining plan to this office with a revised proposal for its approval and the same is under process. | | |

Solid Waste Management-Dumping

| S.N. | Item | Proposals for, 2023-24 | Actual work during 2023-24 | Remark |
|------|----------------------------------------------------------------|------------------------------------------------|------------------------------------------------------------|--------|
| 4a | Separate dumping of topsoil, OB & mineral reject (Rule 33, 37) | No Such Proposal | Carried out as per the proposal during the reporting year. | |
| 4b | Location of topsoil, OB & mineral reject dumps | No Such Proposal | Carried out as per the proposal during the reporting year. | |
| 4c | Number of dumps within lease area and outside lease area | Within Lease: 02 Outside of Lease Area: Nil | Within Lease: 02 Outside of Lease Area: Nil | |
| 4d | Location of dumps w.r.t. ultimate pit limit | Outside UPL | Outside UPL | |
| 4e | Number of active & alive dumps | Nil | Nil | |
| 4f | Number of dead dumps | 02 | 02 | |

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| 4g | Number of dumps stabilised | Nil | Nil | |
| 4h | Whether Retaining wall or garland drain all along dumps are there | Retaining wall of 283 mtr. and garland drain of 281 mtr. Have been proposed. | Retaining wall of 100 mtr. and garland drain of 90 mtr. Have been carried out during the reporting year. | As Hill top Quarry couldn't be worked due to want of FC, the proposal could not be achieved during the reporting year. |
| 4i | Length of Retaining wall or garland drain all along dump | Retaining wall of 283 mtr. and garland drain of 281 mtr. Have been proposed. | Retaining wall of 100 mtr. and garland drain of 90 mtr. Have been carried out during the reporting year. | As Hill top Quarry couldn't be worked due to want of FC, the proposal could not be achieved during the reporting year. |
| 4j | Number of settling ponds | Nil | 17 Nos. | |
| 4k | Specific comments of inspecting officer on waste dump management | The lessee could not carried out retaining wall and garland drain as per the proposal and could not achieved the proposed target. There was proposal for 2 quarries i.e. Float Quarry and Hill Top quarry for development and production and allied activities during the reporting year. However, the lessee could carry out development and production and allied activities from Float Quarry only and Hill top Quarry couldn't be worked due to want of forest clearance. Further the lessee has submitted modification of approved review of mining plan to this office with a revised proposal for its approval and the same is under process. | | |

Solid Waste Management-Backfilling

| S.N. | Item | Proposals for, 2023-24 | Actual work during 2023-24 | Remark |
|------|----------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------|----------------------------------------------------------------------|
| 5a | Status on part or full extraction of mineral from mined out area before starting backfilling | Float Quarry: 3.871 Ha proposed | Float Quarry: 0.90 ha. carried out | Partially carried out. Due to less production, Less waste generated. |
| 5b | Area under backfilling of mined out area | Float Quarry: 3.871 Ha proposed | Float Quarry: 0.90 ha. carried out | Partially carried out. Due to less production, Less waste generated. |
| 5c | Concurrent use of topsoil for restoration or rehabilitation of mined out area (Rule 36) | No Such Proposal | Nil | Hill top Quarry not working due to want of FC |
| 5d | Total area fully reclaimed & rehabilitated | No Such Proposal | Nil | |
| 5e | General remarks of inspecting officer on backfilling, reclamation etc | The lessee could not carry out backfilling as per the proposal during the reporting year. There was proposal for 2 quarries i.e. Float Quarry and Hill Top quarry for development and production and allied activities during the | | |

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| | | reporting year and generated waste have to backfilled in Float Quarry. However, the lessee could carry out development and production and allied activities from Float Quarry only and Hill top Quarry couldn't be worked due to want of forest clearance. Hence could not able to achieved the proposed backfilling. Further the lessee has submitted modification of approved review of mining plan to this office with a revised proposal for its approval and the same is under process. |
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Progressive Mine Closure Plan

| S.N. | Item | Proposals for, 2023-24 | Actual work during 2023-24 | Remark |
|------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------|--------|
| 6a | Whether Annual report on PMCP submitted on time and correctly - Rule 26(2). | As per Rule 26(2) Annual PMCP report to be submitted before 1st day of July of Every Year. | As the reporting year is yet to be completed and schedule date for submission for annual return is awaited till the date of inspection i.e. 28.06.2024. | |
| 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) No such Proposal ii) No such Proposal iii) No such Proposal iv) No such Proposal v) No such Proposal vi) No such Proposal | 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 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 | i) 3.871 Ha ii) Waste material iii) Nil iv) Nil v) Nil | i) 0.90 Ha ii) Waste material iii) Nil iv) Nil v) Nil | |
| 6d | Compliance of Rehabilitation of waste land within lease i) Afforestation ii) Area rehabilitated (ha) | i) Nil ii) Nil iii) Nil | i) 4612 no of saplings ii) 3.283 Ha. iii) 95% of survival rate | |

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| iii) Method of rehabilitation | | | | |
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| 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 | <p>The lessee has carried out environmental monitoring as per the proposal during the reporting year and plantation has also been carried out within the lease area. However, the lessee has not carried out the backfilling proposal during the reporting year. Only partially carried out the backfilling of Float Quarry.</p> <p>There was proposal for 2 quarries i.e. Float Quarry and Hill Top quarry for development and production and allied activities during the reporting year and generated waste have to backfilled in Float Quarry. However, the lessee could carry out development and production and allied activities from Float Quarry only and Hill top Quarry couldn't be worked due to want of forest clearance. Hence could not able to achieved the proposed backfilling. Further the lessee has submitted modification of approved review of mining plan to this office with a revised proposal for its approval and the same is under process.</p> | | |

Mineral Conservation

| S.N. | Item | Proposals for, 2023-24 | Actual work during 2023-24 | Remark |
|------|--------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------|---------------------------------------------|
| 7a | ROM Mineral dispatch or grade-wise sorting within lease area | Saleable Ore: +55 % Fe, Mineral Reject: - +45 to 55% Fe were proposed. | Saleable Ore:+55 % Fe, Mineral Reject:- +45 to 55% Fe are being carried out. | |
| 7b | Method of grade-wise mineral sorting i.e. manual or mechanical | Mechanized | Mechanized | |
| 7c | Different grade of mineral sorted out at mines | Saleable Ore: +55 % Fe, Mineral Reject: - +45 to 55% Fe | Saleable Ore: +55 % Fe, Mineral Reject: - +45 to 55% Fe | |
| 7d | Any beneficiation process at mines | Nil | Nil | No Such proposal during the reporting year. |
| 7e | General remarks of inspecting officer on Mineral conservation & beneficiation issues | Saleable Ore: +55 % Fe, Mineral Reject: - +45 to 55% Fe stocks are being practiced. Further no beneficiation process was proposed. Only crushing and screening are being carried out during the reporting year. However, the lessee could not carry out the proposal for the reporting year. As there was | | |

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| | | proposal for 2 quarries i.e. Float Quarry and Hill Top quarry for development and production and allied activities during the reporting year. However, the lessee could carry out development and production and allied activities from Float Quarry only and Hill top Quarry couldn't be worked due to want of forest clearance. Further the lessee has submitted modification of approved review of mining plan to this office with a revised proposal for its approval and the same is under process. |
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Environment

| S.N. | Item | Proposals for, 2023-24 | Actual work during 2023-24 | Remark |
|------|-------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------|
| 8a | Separate removal and utilization of topsoil (Rule 36) | No such proposal for the reporting year. | Nil | |
| 8b | Concurrent use or storage of topsoil | No such proposal for the reporting year. | Nil | |
| 8c | Separate dumps for overburden, waste rock, rejects and fines (Rule 37) | Separate dumps for overburden and mineral reject stacks, waste rocks are proposed and subsequently OB will be backfilled in the exhausted part of Float Quarry. | Separate dumps for Over-burden and mineral stacks and other waste rocks are being practiced and partially backfilled over 0.90 Ha. area in the exhausted part of Float Quarry. | |
| 8d | Use of overburden, waste rock, rejects and fines dumps for restoring the land to its original use | Separate dumps for overburden and mineral reject stacks, waste rocks are proposed and subsequently OB will be backfilled in the exhausted part of Float Quarry. | Separate dumps for Over-burden and mineral stacks and other waste rocks are being practiced and partially backfilled over 0.90 Ha. area in the exhausted part of Float Quarry. | |
| 8e | Phased restoration, reclamation and rehabilitation of lands affected by mining operations (Pits, dumps etc) | Backfilling of 3.871 ha area in Float quarry over the exhausted part has been proposed | Backfilling of only 0.90 ha area in Float quarry over the exhausted part has been carried out during the reporting year. | |
| 8f | Baseline information on existence of plantation & additional Plantation done | No Such Proposal | 4612 Nos of saplings have been planted over 3.283 Ha area with a survival rate of 95% within the lease area during the reporting | |

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| | | | year. | |
| 8g | Survival rate | No Such Proposal | 4612 Nos of saplings have been planted over 3.283 Ha area with a survival rate of 95% within the lease area during the reporting year. | |
| 8h | Water sprinkling on roads to control airborne dust | Regular sprinkling of water on Haul roads and transport roads using Water tanker to suppress the dust. | Regular sprinkling of water on Haul roads and transport roads using mobile water tanker (10 KL capacity: 2 nos. & 9 KL Capacity: 1 no.) to suppress the dust are in practice. | |
| 8i | General remarks of inspecting officer on aesthetic beauty in and around mines area | The lessee The lessee has not carried out the development and production and backfilling as per the proposal during the reporting year. As there was proposal for 2 quarries i.e. Float Quarry and Hill Top quarry for development and production and allied activities during the reporting year. However, the lessee could carry out development and production and allied activities from Float Quarry only and Hill top Quarry couldn't be worked due to want of forest clearance. Further the lessee has submitted modification of approved review of mining plan to this office with a revised proposal for its approval and the same is under process. However, the lessee has planted 4612 no of saplings over 3.283 Ha area with a survival rate of 95% 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 |
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| 9a | Status of submission of Monthly and Annual returns | M.R. Submitted up to May 2024. A.R. Submitted up to – 2022-23 | | |
| S.N. | Item | Details given in A.R. for the year 2023-24 | Observation of I/Officer | Remarks |
| 9b | Scrutiny of Annual return for information on Mining Engineer, Geologist and Manager | NA | NA | Although the reporting year has been completed, the lessee has not submitted the AR for the reporting year and schedule date for submission for annual return is awaited till the date of inspection i.e. 28.06.2024. |

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| 9c | Scrutiny of Annual return on land use pattern for area under pits, reclaimed area, dumps etc. | NA | NA | Although the reporting year has been completed, the lessee has not submitted the AR for the reporting year and schedule date for submission for annual return is awaited till the date of inspection i.e. 28.06.2024. |
| 9d | Scrutiny of Annual return on afforestation | NA | NA | Although the reporting year has been completed, the lessee has not submitted the AR for the reporting year and schedule date for submission for annual return is awaited till the date of inspection i.e. 28.06.2024. |
| 9e | Scrutiny of Annual return on mineral reject generation (Grade & quantity) | NA | NA | Although the reporting year has been completed, the lessee has not submitted the AR for the reporting year and schedule date for submission for annual return is awaited till the date of inspection i.e. 28.06.2024. |
| 9f | Scrutiny of Annual return on ROM stock and/or graded ore | NA | NA | Although the reporting year has been completed, the lessee has not submitted the AR for the reporting year and schedule date for submission for annual return is awaited till the date of inspection i.e. 28.06.2024. |
| 9g | Scrutiny of Annual return on sale value, Ex. Mine price & production cost | NA | NA | Although the reporting year has been completed, the lessee has not submitted the AR for the reporting year and schedule date for submission for annual return is awaited till the date of inspection i.e. 28.06.2024. |
| 9i | Scrutiny of Annual return on fixed assets | NA | NA | Although the reporting year has been completed, the lessee has not submitted the AR for the reporting year and schedule date for submission for annual return is awaited till the date of inspection i.e. 28.06.2024. |
| 9k | Scrutiny of Annual return on mining machineries | NA | NA | Although the reporting year has been completed, the lessee has not submitted the |

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| | | | | AR for the reporting year and schedule date for submission for annual return is awaited till the date of inspection i.e. 28.06.2024. |
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