

**INDIAN BUREAU OF MINES
MINERALS DEVELOPEMMENT AND REGULATION DIVISION**

MCDR INSPECTION REPORT

Nagpur regional office

Mine file No : MAH/BHD/MN-33/NGP

Mine code : 40MSH05001

- (i) Name of the Inspecting : **M017**) **ASHISH MISHRA**
Officer and ID No.
- (ii) Designation : Sr. Asst. Contrl. Mines
- (iii) Accompanying mine : Shri R. Bhattacharya, Agent, Shri A. K. Chauksey, Min
Official with
Designation
- (iv) Date of Inspection : 18-DEC-20
- (v) Prev.inspection date : 20-NOV-19

PART-I : GENERAL INFORMATION

1. (a) **Mine Name** : **CHIKLA**
- (b) **Registration NO.** : **IBM/5711/2011**
- (c) **Category** : A Other than Fully Mech.
- (d) **Type of Working** : Underground
- (e) **Postal address**
- State : MAHARASHTRA
- District : BHANDARA
- Village : SITASAONGI
- Taluka : TUMSAR
- Post office : SITASAUNGI
- Pin Code :
- FAX No. : 07122592073
- E-mail : mm.ch@moil.nic.in
- Phone : 07183 - 220231
- (f) **Police Station** : Chikla
- (g) **First opening date** : 01-JUL-62
- (h) **Weekly day of rest** : FRI
2. **Address for** : AT - SITASAONGI,
correspondance TAH.: TUMSAR
DISTT.: BHANDARA (MS) - 441 920
3. (a) **Lease Number** : MSH0062
- (b) **Lease area** : 150.64
- (c) **Period of lease** : 60
- (d) **Date of Expiry** : 30-JUN-22
4. **Mineral worked** : MANGANESE ORE Main

5. Name and Address of the

Lessee : M/S MANGANESE ORE (INDIA) LTD.
 3, MOUNT ROAD EXTENSION
 POST BOX NO. 34, NAGPUR
 (MP) NAGPUR MAHARASHTRA
 Phone:
 FAX :

Owner : DEEPANKAR SHOME
 1-A, MOIL BHAVAN KATOL ROAD
 NAGPUR NAGPUR MAHARASHTRA
 Phone:
 FAX :

Agent : RAJESH BHATTACHARYA
 DONGRI BUZURG MINE BHANDARA
 BHANDARA BHANDARA
 MAHARASHTRA
 Phone:
 FAX :

Mining Engineer

Name : PRASHANT DAKRE, Full Time
 Qualification :
 Appointment/ :
 Termination date

Geologist

Name : SUDHANSHU CHAVAN, Full Time
 Qualification :
 Appointment/ :
 Termination date

Manager

Name : A. K. CHAUKSEY
 Qualification :
 Appointment/ :
 Termination date

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| 6. Date of approval of Mining | : | Renewal under rule 22 MCR1960 | 30-MAY-03 |
| Plan/Scheme of Mining | | Mining Scheme rule 12 MCDR1988 | 22-JUL-08 |
| | | Mining Scheme rule 12 MCDR1988 | 02-MAY-13 |
| | | MP review under 17(1) MCR 2016 | 30-JUN-17 |

PART - II : OBSERVATION/COMMENTS OF INSPECTING OFFICERS

Exploration :

| Sl.No. | Item | Proposals | Actual work | Remarks |
|--------|--------------------------|--|--|--|
| 1a | Backlog of previous year | 2017-18: 2 Boreholes with 520 m meterage 2018-19: 2 Boreholes with 500 m meterage 2019-20: 2 Boreholes with 480 m meterage | 2017-18: 2 Boreholes with 763 m meterage 2018-19: 2 Boreholes with 1069 m meterage 2019-20: 4 Boreholes with 1203 m meterage | Last approved document is Review of Mining Plan for 2017-18 to 2021-22 period. In the last approved SOM for 2012-13 to 2016-17, 17 Nos. of boreholes were proposed to be drilled with 4730 m meterage while actual achievement was 22 Nos. of boreholes with 3287 m meterage. As per the exploration carried out by the lessee in the period 2017-18 to 2019-20, against 6 boreholes having 1500 m meterage, actual achievement is 8 boreholes with 3035 m meterage. Thus, there is no backlog of exploration. |

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| 1b | Exploration over lease area for geological axis 1 or 2 | G-1 & G-2 | G-1 & G-2 | Lease area is divided into three parts Chikhla A, Chikhla Main and Chikhla B. Entire area has been covered under G-1 as per the exploration carried out in the area. In Chikhla A and Chikhla Main, resources lying below -470'L and in Chikhla B section, resources lying below -270'L are classified under G-2 category which are proposed to be converted under G-1 with underground exploration as surface exploration isn't possible below such limits. |
| 1c | Exploration Agencies and Expenditure in lakh rupees during the year | For 2019-20, exploration proposed is in form of 2 boreholes having 480 m meterage. this exploration is proposed to be done by MOIL Ltd. (lessee). | For 2019-20, actual exploration carried out was 4 boreholes with 1203 m meterage. Exploration was carried out by MOIL Ltd. at an expenditure of approximately Rs | |
| 1d | Balance area to be explored to bring Geological axis in 1 or 2 | Nil | Nil, as complete lateral extent has been proved under G-1, exploration proposals are incorporated only for proving depth continuity of the deposit. | As furnished under item 1b, entire surface area (potentially mineralized) is covered under G-1 level of exploration. |
| 1e | Balance reserve as on 01/04/20 | Balance reserves/resources as on 01.04.2020 is furnished under Actual Work Section. | Balance reserves/resources as on 01.04.2020 are: 111 1660193 T 121 434331 T 211 368355 T 222 2046970 T 332 111126 T | |

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| 1f | General remarks of inspecting officers on geology, exploration etc | Exploration is being done continuously as per the geology of the area and in the last 5 years proposal period, total 22 bore holes with total meterage of approximately 3287 m have been drilled. In the next 5 years period, i.e., 2017-18 to 2021-22, total 8 boreholes with 1900 m meterage were proposed to be drilled to prove the area upto -770 mRL level out of which, upto 2019-20, 8 boreholes have been completed with 3035 m meterage. |
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Development :

| Sl.No. | Item | Propasals | Actual work | Remarks |
|--------|--|---|---|---------|
| 2a | Location of development w.r.t.lease area | For 2019-20, Underground development is proposed at - 170'L, -270'L, -370'L & - 470'L Dump Working is proposed in Mineralized Dumps BD-1 & 2 | For 2019-20, Underground development work carried out at - 170'L, -270'L, -370'L & -470'L No Dump working carried out in the year 2019-20. | |
| 2b | Separate benches in topsoil, overburden and minerals (Rule 15) | Not applicable as no opencast working is proposed. | Not applicable as no opencast working carried out. | |
| 2c | Stripping ratio or ore to OB ratio | Not applicable as no opencast working is proposed. | Not applicable as no opencast working carried out. | |

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| 2d | Quantity of topsoil generation in m3 | Not applicable as no opencast working is proposed. | Not applicable as no opencast working carried out. | |
| 2e | Quantity of overburden generation in m3 | Not applicable as no opencast working is proposed. | Not applicable as no opencast working carried out. | |
| 2f | General remarks of inspecting officers on development of pit w.r.t. type of deposit etc | | | Presently the workings are limited to Underground and dump workings only and for underground, exploration for deeper level is also being proposed and carried out. Adjacent to this lease area, M/s MOIL Ltd. has been granted additional area which is under prospecting and after grant of ML, the area can be well developed for the entire orezone. Opencast developments is proposed to be done only after grant of necessary clearances by MoEF. |

Exploitation:

| Sl.No. | Item | Propasals | Actual work | Remarks |
|--------|---------------------------------------|---|-------------|--|
| 3a | Number of pit proposed for production | Not aplicable being underground workings only | Nil | For Underground, 2 Stopes at -170'L, 9 Stopes at -270'L, 8 Stopes at -370'L in Chikla Main and Chikla A and 4 Stopes at +60'L in Chikla B section are proposed and being worked. |

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| 3b | Quantity of ROM mineral production proposed | For 2019-20, Undergorund ROM: 187500 T, Dump Working: 30000 T | For 2019-20, Undergorund ROM: 179524 T, Dump Working: Nil | |
| 3c | Recovery of sailable/usable mineral from ROM production | 80% recovery from underground ROM is proposed | Entire ROM has been graded and there is no generation of mineral rejects | Grade of Mineral rejects was proposed to be 17-18% Mn which was blended and graded as below 25% Mn. This grade being saleable as per the present market condition, hasn't been separately stacked as mineral rejects which was already proposed in the use of minerals and mineral rejects chapter in the last approved mining plan document. |
| 3d | Quantity of mineral reject generation | For 2019-20, Mineral Reject: 37500 T | For 2019-20, Mineral rejects: Nil | As given in item 3c |
| 3e | Grade of mineral rejects generation and threshold value declared. | Threshold value is 10% Mn. Grade of Mineral rejects to be produced: 10-20% Mn | Nil as no mineral rejects stacked separately. | |
| 3f | Quantity of sub grade mineral generation. | Not applicable | Nil | |
| 3g | Grade of sub grade mineral generation | Not applicable | Nil | |
| 3h | Manual / Mechanised method adopted for segregating from ROM | Mechanised crushing/scree ning and manual sorting | As per the proposals | |
| 3i | Any analysis or beneficiation study proposed and carried out for sub grade mineral and rejects. | Nil | Nil | |

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| 3j | Provision of drilling and blasting in mineral benches | Yes (for underground levels not for benches) | Yes, drilling and blasting is proposed in the Underground Levels/stopes for ore extraction. |
| 3k | Provision of mining machineries in mineral benches | For underground workings, 16 cft and 24 cft tubs are there which shall be loaded manually with the blasted muck. These tubs shall be hauled through Loco and hoisted through cage winding system at the mine. | As per the proposals. |
| 3l | Whether height of benches in overburden and mineral suitable for method of mining proposed in MP/SOM | Not applicable being underground workings only. | As per the geological conditions of the deposit in the area, method of mining and method of stoping are suitable and as per the approved MP/ SOM. |
| 3m | Total area covered under excavation/pits | For 2019-20, Area already covered under excavation/pits: 4.465 ha, no additional area is proposed to be put to use for opencast excavation | For 2019-20, Area covered under excavation/pits: 4.465 ha |
| 3n | Ore to OB ratio for the pit/mine during the year. | Not applicable being underground workings only. | Nil |

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| 3o | Total area put in use under different heads at the end of year | Area put to use is furnished in actual work details. | As on 31.03.2020, Area under: Excavation/ Pits: 4.465 ha Mineral Storage: 3.6045 ha Overburden/ Waste Dump: 2.80 Ha (2.50 ha area reclaimed this year, remaining active dumping over around 0.3 ha) Infrastructure: 3.0 ha Roads: 3.50 ha Township Area: 2.98 ha Total: 20.3495 ha | Approximately 17.3 ha area of waste dumps has already been reclaimed and rehabilitated by plantation with approximately 355083 nos. of trees. |
| 3p | Production of ROM mineral during the last five year period as applicable | 2014-15: 262574 T 2015-16: 242552 T 2016-17: 241080 T 2017-18: 215000 T 2018-19: 215000 T | 2014-15: 235393 T 2015-16: 213637 T 2016-17: 217168 T 2017-18: 179696 T 2018-19: 179951 T | |
| 3q | General remarks of inspecting officers on method of mining etc. | | | Method of mining is underground by cut and fill method and dump workings for exploitation of ore. For ore locked at upper levels while underground workings, and also for working of surficial deposit occurring at Chikla Main, opencast working proposals were made by mechanised method deploying dumper shovel combination but the same could not be done as clearance could not be obtained from MoEF for opencast workings. |

Solid Waste Management - Dumping:

| Sl.No. | Item | Propasals | Actual work | Remarks |
|--------|------|-----------|-------------|---------|
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| 4a | Separate dumping of topsoil, OB and mineral rejects (Rule 32,33) | Yes, separate dumps for waste and mineral rejects/subgrade is proposed. As no top soil is proposed to be generated during the ensuing period, dumping for top soil is not commented upon. | Separate dumps for Waste and Mineral rejects/ Sub-grade are there at the site. | |
| 4b | Location of topsoil, OB and mineral reject dumps | Waste dumping is proposed on WD-2 located in southern part of the lease area. Subgrade/ Mineral rejects are proposed to be dumped on the existing Mineralised dumps located in Chikla Main. | As per the proposals | |
| 4c | Number of dumps within lease area and outside of lease area | Total 17 Waste Dumps and 3 Black dumps all within lease area. | As per the proposals | |
| 4d | Location of dumps w.r.t. ultimate pit limit (Rule 16) | Dumps are within as well as outside pit limits (opencast). | All dumps are outside limits for underground workings. For opencast workings, dumps are within as well as outside the pit limits. | |
| 4e | Number of active and alive dumps. | 1 waste dump active and all 3 black dumps active | As per the proposals | WD-2 is under Active Waste dumping activities. |
| 4f | Number of dead dumps. | 16 Waste dumps are dead and stabilized by reclamation and rehabilitation through plantation | As per the proposals. | |

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| 4g | Number of dumps established. | 16 dead waste dumps are stabilized | As per the proposals | |
| 4h | Whether Retaining wall or garland drain all along dumps are there. | Yes | Yes | Most of the small dumps are located within pit limits where no retaining wall is there but dumps located at / near the ML boundaries are surrounded by protective workings like garland drains and retaining walls |
| 4i | Length of Retaining wall or garland drain all along dumps | Nil as retaining wall and garland drains already constructed | Retaining wall: 1250 m Garland drains: 2170 m This is already constructed and in the year 2019-20, no additional developments made. | |
| 4j | Number of settling ponds | Nil | Nil | |
| 4k | Specific comments of inspecting officer on waste dump management | | | Waste dump management is an aspect that is required to be looked into for the mine. There are total 17 dumps within the lease area out of which 16 dumps (except WD-2) were stabilized through plantation. Dumps are located within pit limits for open cast that will be shifted upon commencement of opencast operations. Dumps located at the ML boundary such as WD-1,2,8,9 etc are equipped with protective structures like garland drains and retaining walls at the toe end. |

| Sl.No. | Item | Propasals | Actual work | Remarks |
|--------|---|--|-------------|---|
| 5a | Status of part or full extraction of mineral from mined out area before starting backfilling. | No proposals for backfilling as opencast mining is not being done. | Nil | Underground waste is being filled underground itself for around 30% of total waste generation. Other than this no backfilling is proposed or being done at the mine. |
| 5b | Area under backfilling of mined out area | Nil | Nil | |
| 5c | Concurrent use of topsoil for restoration or rehabilitation of mineral out area (Rule 32) | No top soil is excavated for the year and also no rehabilitation is proposed for any mined out area. | Nil | Earlier excavated Top soil has already been used for stabilization of dumps through plantation. |
| 5d | Total area fully reclaimed and rehabilitated | Nil | Nil | |
| 5e | General remarks of inspecting officers on backfilling and reclamation etc. | | | Backfilling has not yet started as mineral is available in the ML area and opencast mining is yet to commence. Reclamation and rehabilitation works was done over the inactive dumps. |

Progressive Mine Clousre Plan:

| Sl.No. | Item | Propasals | Actual work | Remarks |
|--------|--|-----------|-------------|---------|
| 6a | Whether Annual report on PMCP submitted on time and correctly. Rule 23 E(2). | Yes | Yes | |

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| 6b | Area available for rehabilitation (ha) . | Nil | Nil | 17.30 ha area available for waste dumps have been reclaimed and rehabilitated. Out of 2.8 ha area under active dump, 2.5 ha area has been reclaimed by plantation. No mined out area available for rehabilitation activities. |
| 6c | afforestation done (ha). | 2019-20: 2000 saplings to be planted over 1 ha land | 2019-20: 4000 saplings have been planted in the green belt in form of gap filling plantation covering approximately 2.5 ha area, to increase the density of existing plantation done in the area | |
| 6d | No. of saplings planted during the year | 2019-20: 2000 saplings | 2019-20: 4000 Saplings | |
| 6e | Cumulative no .of plants | Not available | Upto 2019-20: 355083 saplings | |
| 6f | Any other method of rehabilitation | No such proposals | Nil | |
| 6g | Cost incurred on watch and care during the year | 2019-20: Rs 1,40,000/- approximately for plantation, environment monitoring & other PMCP activities | 2019-20: Rs 4,32,000/- over plantation, environment monitoring & garland drain and retaining wall repairs etc. | |
| 6h | Compliance on reclamation and rehabilitation by backfilling (i) Voids available for backfilling (Lx B x D | No such proposals | Nil | |
| 6i | Compliance on reclamation and rehabilitation by backfilling (ii) Voids filled by waste / tailings | No such proposals | Nil | |

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| 6j | Compliance on reclamation and rehabilitation by backfilling (iii) Afforestation on on backfilled area | No such proposals | Nil | |
| 6k | Compliance on reclamation and rehabilitation by backfilling (iv) Rehabilitation by making water reservoir | No such proposals | Nil | |
| 6l | Compliance on reclamation and rehabilitation by backfilling (v) any other specific means. | No such proposals | Nil | |
| 6m | Compliance of rehabilitation of waste land within lease (i) afforestation | Afforestation for green belt development: 2000 saplings over 1 ha area is proposed | Afforestation done in form of 4000 saplings over 2.5 ha area | |
| 6n | Compliance of rehabilitation of waste land within lease (ii) Area rehabilitation (ha) | 2019-20: 1 ha | 2019-20: 2.5 ha | |
| 6o | Compliance of rehabilitation of waste land within lease (iii) Method of rehabilitation | Afforestation | As per the proposals | |
| 6p | Compliance of environmental monitoring (core zone and buffer zone) | Yes | Yes | Environment monitoring is being done in the core zone and buffer zone as per MoEF guidelines. |

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| 6q | General remarks of inspecting officers on PMCP compliance and progressive closure operations etc. | Progressive closure for available land/area is being done properly. Till permission for opencast workings is not obtained, mined out area may not be available for any backfilling and reclamataion activities. Environment monitoring is also being done properly as per the guidelines in this regard. Expenditure on watch and care is well above the proposals and is evident of the fact that progressive closure is being practiced in true spirits. |
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Mineral Conservation:

| Sl.No. | Item | Propasals | Actual work | Remarks |
|--------|---|--|--|---------|
| 7a | ROM Mineral dispatch or grade-wise sorting within lease area | Mineral is proposed to be dispatched after gradewise sorting and ROM is not proposed to be dispatched from the lease area. | Mineral is being dispatched after gradewise sorting and ROM is not being dispatched from the lease area. | |
| 7b | Method of grade-wise mineral sorting i.e. manual or mechanical. | Mechanical crushing/scree ning and manual sorting | As per the proposals | |

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| 7c | Different grade of mineral sorted out at mines. | <25% Mn, 25-35% Mn, 35-46% Mn and Mineral rejects 10-20% Mn | <25% Mn, 25-35% Mn, 35-46% Mn Mineral rejects have been blended and dispatched in the grade <25% Mn | |
| 7d | Any beneficiation process at mines | Nil | Nil | |
| 7e | General remarks of inspecting officer on Mineral conservation and beneficiation issues | | | Mineral is being extracted from underground and dump working. Subgrade/ Mineral rejects having 10-20% Mn have been blended and dispatched for the year 2019-20. Opencast proposals for extraction of blocked ore in the underground pillars is in line with full extraction of ore body and thus in coherence with the objectives of Mineral Conservation. Beneficiation is in form of crushing and screening only for grade-wise sizewise dispatch of mineral. |

Environment :

| Sl.No. | Item | Propasals | Actual work | Remarks |
|--------|---|----------------------------------|-------------|---------|
| 8a | Separate removal and utilization of topsoil (Rule 32) | No top soil removal is proposed. | Nil | |
| 8b | Concurrent use or storage of topsoil | Not applicable | Nil | |

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| 8c | Separate dumps for overburden, waste rock, rejects and fines (Rule 33) | Yes | Separate dumps for waste, mineral rejects/sub-grade and fines are there at the mine site. | |
| 8d | Use of overburden, waste rock, rejects and fines dumps for restoring the land to its original use | Waste rock is being used for filling in underground itself. | Around 30% of the waste generated underground is being used for filling purposes in underground and rest 70% is brought to the surface for dumping. Other than this, no backfilling is proposed or practiced as opencast working operations are yet to commence. | |
| 8e | Phased restoration, reclamation and rehabilitation of lands affected by mining operations (Pits, dumps etc) | No such proposals | Nil | 16 dead waste dumps are already stabilized through plantation. There is only one active dump for waste. Further, Phased restoration of pit could not be done due to existence of mineral at pit bottom and also not having permission for opencast operations. |
| 8f | Baseline information on existence of plantation and additional plantation done (Rule 41) | Yes, baseline information on plantation has been carried out in EIA study. Additional plantation proposed was 2000 saplings in the year 2019-20. | Additional plantation carried out in the year 2019-20 was 4000 saplings. Cumulative additional plantation done in the area till 2019-20 is 355083 saplings. | |
| 8g | Survival rate | 2019-20: 75% | 2019-20: 76.57% | |
| 8h | Water sprinkling on roads to control airborne dust | Yes | Yes | For dump workings and for haulage roads, water sprinkling is being done. |

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| 8i | General remarks of inspecting officer on aesthetic beauty in and around mines area | Apart from degradation of the land due to mining operations, aesthetic beauty of the area is satisfactory as total saplings planted by the lessee in the area are in good numbers (355083 Nos.). Degradation and environment issues are well under control as opencast mining operations are yet to commence in the lease area. |
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Compliance of Rule 45:

| Sl.No. | Item | Propasals | Actual work | Remarks |
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| 9a | Status of submission of Monthly and Annual returns | Annual Returns are required to be submitted before 1st July of every year for preceding year Monthly returns are required to be submitted on or before 10th of every month for preceding month | AR submitted upto 2019-20 MR submitted upto Nov'20 | |
| 9b | Scrutiny of Annual return for information on Mining Engineer, Geologist and Manager | Manager: Shri A. K Chauksey Mining Engineer in charge: Shri Prashant Dakre Geologist in charge: Shri Sudhanshu Chavan | Complete and correct information furnished | |

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| 9c | Scrutiny of Annual return on land use pattern for area under pits, reclaimed area, dumps etc. | Area reclaimed and rehabilitated: 17.30 ha Area under waste Dump: 0.33 ha Area Occupied by plant, buildings, residential, welfare buildings & roads: 9.48 ha | Correct information provided as per the available format. |
| 9d | Scrutiny of Annual return on afforestation | Number of trees planted during the year (a) Within lease area: 4000 sapling with survival rate as 76.57% (b) Outside lease area: Nil | Complete and correct information provided |
| 9e | Scrutiny of Annual return on mineral reject generation (Grade and quantity) | Nil | Complete and correct information provided |

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| 9f | Scrutiny of Annual return on ROM stock and/or graded ore | ROM: Underground Workings- Opening and closing Stocks- Nil (as complete ROM has been graded), Production: 179524 T Graded Ore: Below 25% Mn: Opening Stock: 2941 T, Production: 11428 T, Dispatch: 3319.63 T, Closing Stock: 11049.37 T 25-35% Mn: Opening Stock- 271.09 T/ Closing Stock- 218.85 T/ Production- 49664 T/ Dispatches- 49716.24 T 35-46% Mn: Opening Stock- 2895.16 T/ Closing Stock- 2320.76 T/ Production- 118432 T/Dispatches- 119006.4T | Complete and correct information provided |
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| 9g | Scrutiny of Annual return on sale value, Ex. Mine price and production cost | Ex Mine Price: Complete and correct information furnished for Below 25% Mn-Rs 2439.05/- per T, for 25-35% Mn-Rs 4230.74/- per T, and for 35-46% Mn-Rs 9806.61/- per T Cost of production- Rs 6006.66/- per T Sale value: For Below 25% Mn: Rs 8096738/- For 25-35% Mn: Rs 210336553.10/- For 35-46% Mn: Rs 1167167938/- | |
| 9h | Scrutiny of Annual return on fixed assets | Value of Fixed Assets (in Rs): 1189947425/- Apart from this, capital structure details has been given for land, plant, buildings etc. | Complete information furnished |
| 9k | Scrutiny of Annual return on mining machineries | Details furnished as per the extent of mechanization given in the approved MP. | Complete and correct information furnished |

Details of violations observed during current inspection and compliance position of violation pointed out

| Violation observed | | Show couse position | |
|--------------------|-------------------------|---------------------|-------------------------|
| Rule NO. | Issued on Compliance on | Rule NO. | Issued on Compliance on |

Date :**(ASHISH MISHRA)**

Indian Bureau of Mines