

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

MCDR INSPECTION REPORT

Nagpur regional office

Mine file No : MAH/BHD/MN-42/NGP L-2

Mine code : 40MSH05005

- (i) Name of the Inspecting : **M017**) **ASHISH MISHRA**
Officer and ID No.
- (ii) Designation : Sr. Asst. Contrl. Mines
- (iii) Accompanying mine : Shri Rajesh Bhattacharya, Agent
Official with
Designation
- (iv) Date of Inspection : 08/01/2020
- (v) Prev.inspection date :

PART-I : GENERAL INFORMATION

1. (a) **Mine Name** : **DONGRI BUZURG (53.980 HA)**
- (b) **Registration NO.** : **5711**
- (c) Category : A Fully Mechanised
- (d) Type of Working : Opencast
- (e) Postal address :
State : MAHARASHTRA
District : BHANDARA
Village :
Taluka :
Post office :
Pin Code :
FAX No. :
E-mail :
Phone :
- (f) Police Station :
- (g) First opening date : 01/10/2005
- (h) Weekly day of rest :
2. Address for :
correspondance :
3. (a) Lease Number :
(b) Lease area :
(c) Period of lease :
(d) Date of Expiry :
4. Mineral worked : MANGANESE ORE Main

5. Name and Address of the

Lessee : M/S MOIL LIMITED
MOIL BHAWAN, 1-A, KATOL
ROAD CHHAONI NAGPUR 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 :

6. Date of approval of Mining :
Plan/Scheme of Mining

PART - II : OBSERVATION/COMMENTS OF INSPECTING OFFICERS

Exploration :

Sl.No.	Item	Proposals	Actual work	Remarks
1a	Backlog of previous year	Nil proposals as the area is located in the footwall side of the orebody occurring in Dongri Buzurg mine comprising of 4 leases.	Nil	
1b	Exploration over lease area for geological axis 1 or 2	Exploration in the entire mine having 4 leases has identified the instant lease area to be in the footwall side. Hence, not applicable.	Not applicable	
1c	Exploration Agencies and Expenditure in lakh rupees during the year	Nil for the lease area	Nil as no exploration was proposed or carried out in the lease area.	
1d	Balance area to be explored to bring Geological axis in 1 or 2	Nil	Nil	The area lies in the footwall side of the orebody. Hence, the information is nil.

1e	Balance reserve as on 01/04/20	Balance reserves are in form of mineral lying in the mineralized dumps from old workings in the area. The same is furnished in the actual work details.	As on 01.04.2017, total dump reserves were approximately 68250 T. Year-wise cleaned ore production proposed from dump working is 6000 T. However, in the year 2017-18, only 50 T of dump working was done and in the year 2018-19, no dump mining was carried out to develop the in-situ mineral deposit. Thus, balance Dump reserves aren't changed much and are approximately the same as reported in the last approved Mining Plan document (period 2017-18 to 2021-22).
1f	General remarks of inspecting officers on geology, exploration etc		As on 31.12.2016 ore zone has been explored in the Dongri Buzurg with 58 Bore Holes. Of which 42 proved to be positive. Afterwards, additional 32 boreholes have been drilled in the years 2017-18 & 2018-19 and the exploration is underway in the mine. through this exploration, the area has been identified to be in the footwall side of the orebody.

Development :

Sl.No.	Item	Propasals	Actual work	Remarks
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2a	Location of development w.r.t.lease area	Location of the proposed development for the year 2018-19: N1800 to N1900 & E500 to E1300 (local grids)- Footwall development	Location of development is as per the proposals	Apart from this, dump working for mineral recovery was proposed in between grids N1900 to N2100 & E1300 to E1500 but the same couldn't be carried out.
2b	Separate benches in topsoil, overburden and minerals (Rule 15)	For in-situ, only overburden/waste removal is proposed in the year 2018-19.	There is no top soil in the proposed working area. Further, Dongri Buzurg mine has 4 leases out of which, this lease is in the footwall and hence, for the development of mineral deposit in the area, only OB/Waste removal is proposed to be carried out to facilitate exploitation of ore body occurring in the adjoining main lease having 46.25 ha area.	
2c	Stripping ratio or ore to OB ratio	Not applicable as no ROM production is proposed	Not applicable as no ROM production is proposed	
2d	Quantity of topsoil generation in m3	Nil	Nil	
2e	Quantity of overburden generation in m3	2018-19: 24827 cum	2018-19: Total development from all 4 leases was proposed as 4406289 cum and actual OB/ waste removed was 9007338 T (return for all 4 leases is common). Applying B.D. as 2.5 Tpercum for waste as considered for the mine, actual development was 3602935 cum from all 4 leases.	Overburden removal was proposed from the higher benches in the area (315 mRL and above) and the same was as per the proposals, though it was lower for other leases.

2f	General remarks of inspecting officers on development of pit w.r.t. type of deposit etc	Pit development work is being carried out in the lease area which is satisfactory. Working was proposed at higher levels (315 mRL and above) & development was as per the proposals in the lease area. The deposit is mainly occurring in the contiguous 46.25ha lease area for which footwall development work is being done in the instant lease area for systematic and scientific development of the deposit.
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Exploitation:

Sl.No.	Item	Propasals	Actual work	Remarks
3a	Number of pit proposed for production	Existing pit (One) is proposed for development work only. No production is proposed from the lease area.	As per the proposals	
3b	Quantity of ROM mineral production proposed	2018-19: Nil from in-situ, 6000 T from Dump working	2018-19: Nil	~20% recovery from dump working was proposed, but no dump working could be carried out as thrust was given on in-situ developments for the underlying mineral deposit and dump working with 20% recovery required huge generation of waste.

3c	Recovery of sailable/usable mineral from ROM production	2018-19: Not Applicable as no ROM production is proposed	2018-19: Not Applicable as no ROM production is proposed	~20% recovery from dump working was proposed, but no dump working could be carried out as thrust was given on in-situ developments for the underlying mineral deposit and dump working with 20% recovery required huge generation of waste.
3d	Quantity of mineral reject generation	2018-19: Not Applicable as no ROM production is proposed	2018-19: Not Applicable as no ROM production is proposed	
3e	Grade of mineral rejects generation and threshold value declared.	2018-19: Not Applicable as no ROM production is proposed	2018-19: Not Applicable as no ROM production is proposed	
3f	Quantity of sub grade mineral generation.	2018-19: Not Applicable as no ROM production is proposed	2018-19: Not Applicable as no ROM production is proposed	
3g	Grade of sub grade mineral generation	2018-19: Not Applicable as no ROM production is proposed	2018-19: Not Applicable as no ROM production is proposed	
3h	Manual / Mechanised method adopted for segregating from ROM	2018-19: Not Applicable as no ROM production is proposed, Manual sorting from dump working was proposed	2018-19: Not Applicable as no ROM production is proposed, No dump working was carried out.	
3i	Any analysis or beneficiation study proposed and carried out for sub grade mineral and rejects.	2018-19: Not Applicable as the area is in the footwall and is having no in-situ orebody. Further, no such proposals for dump working	2018-19: Not Applicable as the area is in the footwall and is having no in-situ orebody. Further, no such proposals for dump working	

- 3j Provision of drilling and blasting in mineral benches 2018-19: Not Applicable as no ROM production is proposed, however, for development work, drilling and blasting is proposed. 2018-19: Drilling and blasting were carried out only for development activities. Drilling is done by 110 mm dia drills and blasting is being done by detonating fuse initiation with cord relay delay detonators and NONEL's using mainly slurry explosive.
- 3k Provision of mining machineries in mineral benches 2018-19: Not Applicable as no ROM production is proposed, however, for development work, mechanization is proposed. 2018-19: Being a Category A (Highly Mechanized) Mine, mechanization is proposed for development work in form of DTH drills of 110 mm dia, Dumpers of 35 T and 60 T capacity, Hydraulic excavators of 0.9 cum, 2.5 cum, 3 cum, 4.5 cum & 5.6 cum, Front end loader of 2 cum, Dozer of 335 HP, Water tanker of 28000 ltr capacity alongwith other auxilliary equipments.
- 3l Whether height of benches in overburden and mineral suitable for method of mining proposed in MP/SOM Bench Height proposed for OB/waste is 10 m As the Category of the mine is 'A' (highly mechanized mine), bench height proposed is as per the deployment of excavators. Height of bench which is kept at 10 m (maximum) is suitable for highly mechanized working as proposed in the mining plan document.

3m	Total area covered under excavation/pits	As on 01.04.2017, as per the approved Mining Plan document for the period 2017-18 to 2021-22, Existing area under pits/excavation: 6.683 ha Net area after the completion of the proposal period: 6.683 ha Additional area proposed for excavation/pits: Nil	As per the proposals, no additional area has been broken and the development was done within the existing pit.
3n	Ore to OB ratio for the pit/mine during the year.	Not applicable as no ROM production is proposed	Not applicable as no ROM production is proposed
3o	Total area put in use under different heads at the end of year	Total area put to use under different heads as on 31.03.2019 is furnished in the actual work details:	Are under Excavation/Pits- 6.683 ha Area under dumps- 7.351 ha Area under infrastructure- 2 ha Area under roads- 0.57 ha Area under Township- 6.885 ha Area under Mineral Storage- 10.51 ha

3p	Production of ROM mineral during the last five year period as applicable	2017-18: Nil from in-situ, 30000 T from Dump working 2016-17: Nil from in-situ, 30000 T from Dump working 2015-16: Nil from in-situ, 30000 T from Dump working 2014-15: Nil from in-situ, 30000 T from Dump working 2013-14: Nil from in-situ, 30000 T from Dump working	2017-18: Nil from in-situ, 0 T from Dump working 2016-17: Nil from in-situ, 0 T from Dump working 2015-16: Nil from in-situ, 1563 T from Dump working 2014-15: Nil from in-situ, 7802 T from Dump working 2013-14: Nil from in-situ, 1702 T from Dump working
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3q General remarks of inspecting officers on method of mining etc.

Method of mining is Category A mechanized and extent of mechanization is suitable as required for handling the development work that is required to facilitate exploitation of the orebody available in the adjoining area as the instatnt lease is falling in the footwall side of the orebody.

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) No top soil available in the proposed working area. No ROM production or generation of mineral rejects is proposed. Only generation and dumping of OB/waste is proposed. As per the proposals, only OB/Waste was generated which was dumped at non-mineralized land.
- 4b Location of topsoil, OB and mineral reject dumps Top Soil Dump: Nil Waste Dumps: 2 existing large dumps at N1600 to N2100 & E100 to E1200, One additional dump proposed at N2000 to N2200 & E1600 to E1900 One Mineralized Dump at N2000 to N2200 & E1300 to E1500 Location of the existing dumps as per the proposals. Dumping has been done as per the proposals and additional waste dump as proposed is in initial stage of operation.
- 4c Number of dumps within lease area and outside of lease area 2 existing & one additional proposed Waste Dumps within lease area One mineralized dump within the lease area As per the proposals, all dumps are within the lease area
- 4d Location of dumps w.r.t. ultimate pit limit (Rule 16) Not applicable as there is no underlying deposit in the lease area. The lease is lying in footwall side. Not applicable as there is no underlying deposit in the lease area. The lease is lying in footwall side.
- 4e Number of active and alive dumps. All dumps are active and alive. All dumps are active and alive. Plantation has been done on existing dumps but no dump is dead or rehabilitated.

4f	Number of dead dumps.	Nil	Nil	Slopes of the old dumps have been stabilized through plantation, however, no dump has been established as dead dump.
4g	Number of dumps established.	Nil	Nil	
4h	Whether Retaining wall or garland drain all along dumps are there.	Retaining wall and garland drains all along the dumps have already been constructed.	Yes	
4i	Length of Retaining wall or garland drain all along dumps	Only repair and maintenance of existing Garland drains and retaining wall proposed.	Total garland drain and retaining wall of more than 2000 m is existing all along the toe of the dumps in the area.	
4j	Number of settling ponds	No such proposals.	Nil	

4k	Specific comments of inspecting officer on waste dump management	In the present plan period, one new waste dump is proposed and dumping was done within the lease area. Protective measures in form of bunds, garland drain alongwith retaining wall were extensively made along the toe of the dumps. Under management of waste dump, 3 terraces at 15 m, 25 m and 30 m are proposed and plantation over dump slopes has already been carried out alongwith further proposals (in-filling/gap plantation). Hence, waste management aspect is satisfactory for the lease area.
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Solid Waste Management - Backfilling:

Sl.No.	Item	Propasals	Actual work	Remarks
5a	Status of part or full extraction of mineral from mined out area before starting backfilling.	Not applicable as the area is lying in footwall. Also, the pit for development purpose isn't proposed for backfilling.	As per the proposals.	
5b	Area under backfilling of mined out area	Not applicable as the area is lying in footwall. Also, the pit for development purpose isn't proposed for backfilling.	Nil	

5c	Concurrent use of topsoil for restoration or rehabilitation of mineral out area (Rule 32)	Not applicable Nil as the area is lying in footwall. Also, the pit for development purpose isn't proposed for backfilling.	
5d	Total area fully reclaimed and rehabilitated	Not applicable Nil as the area is lying in footwall. Also, the pit for development purpose isn't proposed for backfilling.	
5e	General remarks of inspecting officers on backfilling and reclamation etc.		The composite lease area (4 leases) is having restrictions due to Railway and residential buildings. Thus, mining from deeper levels beyond 200 mRL shall not be possible through opencast workings due to the said reason as well as due to uneconomic operations. At conceptual stage, the area is proposed for working by underground methods after suitable studies and no backfilling or conversion of pit into water reservoir is proposed.

Progressive Mine Clousre Plan:

Sl.No.	Item	Propasals	Actual work	Remarks
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6a	Whether Annual report on PMCP submitted on time and correctly. Rule 23 E(2).	To be submitted on or before 30th June every year depicting work done under PMCP in the preceding year	Yes, the report was submitted for the composite lease area (4 leases) as well as individual leases	
6b	Area available for rehabilitation (ha) .	No working area is available for reclamation or rehabilitation activities as it shall be under active mining or allied activities. Only available area is slopes of the dumps. 7.5 m non-mining zone shall also be under common boundary working or is having infrastructure in form of township/ residential buildings etc.	As per the proposals	
6c	afforestation done (ha).	Nil	2018-19: 0.1 ha	The area is lying in footwall and due to this, working in the lease area is only removal of OB/waste. Plantation proposals are to be made after maturity of these dumps. Despite no proposals, plantation has been carried out over the dump slopes. Overall around 22.365 ha area in all the leases has been reclaimed through plantation.

6d	No. of saplings planted during the year	2018-19: Nil	2018-19: 200 saplings over dump slopes (in-filling/gap plantation)	
6e	Cumulative no .of plants	No such proposals as pplantation to be done after maturity of the dumps	Total 10200 saplings have been planted over the dump slopes (northern part of the lease area) out of which around 8592 saplings are surviving with ~84% rate.	
6f	Any other method of rehabilitation	No such proposals	Nil	
6g	Cost incurred on watch and care during the year	Rs 250000/-	Approximately Rs 500000/-	Overall SDF expenditures for entire mine (4 leases) is around Rs 1.927 Cr majority of which has been counted for main lease (area 46.25 ha)
6h	Compliance on reclamation and rehabilitation by backfilling (i) Voids available for backfilling (Lx B x D	Not applicable as the area is lying in footwall. Also, the pit for development purpose isn't proposed for backfilling.	Nil	
6i	Compliance on reclamation and rehabilitation by backfilling (ii) Voids filled by waste / tailings	Not applicable as the area is lying in footwall. Also, the pit for development purpose isn't proposed for backfilling.	Nil	
6j	Compliance on reclamation and rehabilitation by backfilling (iii)Afforestation on on backfilled area	Not applicable as the area is lying in footwall. Also, the pit for development purpose isn't proposed for backfilling.	Nil	

6k	Compliance on reclamation and rehabilitation by backfilling (iv) Rehabilitation by making water reservoir	Not applicable as the area is lying in footwall. Also, the pit for development purpose isn't proposed for backfilling.	Nil
6l	Compliance on reclamation and rehabilitation by backfilling (v)any other specific means.	Not applicable as the area is lying in footwall. Also, the pit for development purpose isn't proposed for backfilling.	Nil
6m	Compliance of rehabilitation of waste land within lease (i)afforestation	No such proposals	Nil
6n	Compliance of rehabilitation of waste land within lease (ii)Area rehabilitation (ha)	No such proposals	Nil
6o	Compliance of rehabilitation of waste land within lease (iii)Method of rehabilitation	No such proposals	Nil
6p	Compliance of environmental monitoring (core zone and buffer zone)	Environment monitoring is proposed to be carried out in the core and buffer zone of the composite lease area having 4 leases (one mine of Dongri Buzurg)	Environment monitoring carried out for air, water, noise and ground vibration as per the guidelines. The reports of the environment monitoring were checked and found that all the parameters are within the permissible limits. Hydrological studies have also been carried out in the area.

6q	General remarks of inspecting officers on PMCP compliance and progressive closure operations etc.	PMCP operations for the lease area are satisfactory. Extensive Plantation was carried out in the northern part of the lease area over the dump slopes. Dumps are also secured by protective measures such as garland drains and retaining walls. Environment monitoring is being carried out as per MOEF and CPCB guidelines in this regard.
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Mineral Conservation:

Sl.No.	Item	Propasals	Actual work	Remarks
7a	ROM Mineral dispatch or grade-wise sorting within lease area	Not applicable as no in-situ ore is there in the lease area. Manual sorting from mineralized dumps was proposed.	Nil, as no dump working done during the year	
7b	Method of grade-wise mineral sorting i.e. manual or mechanical.	Not applicable as no in-situ ore is there in the lease area. Manual sorting from mineralized dumps was proposed.	Nil, as no dump working done during the year	
7c	Different grade of mineral sorted out at mines.	Not applicable as no in-situ ore is there in the lease area. Manual sorting from mineralized dumps was proposed which shall generate below 25% Mn containing mineral	Nil, as no dump working done during the year	

7d	Any beneficiation process at mines	No such proposals	Nil	
7e	General remarks of inspecting officer on Mineral conservation and beneficiation issues			Mineral conservation aspect is satisfactory as: 1. no in-situ orebody is occurring in the lease area. hence, this aspect shall not be applicable for any in-situ working. 2. Only Dump mining is being carried out to recover mineralized content lying in old dumps available in the area which is in the interest of conservation of the mineral. 3. No dump mining could be carried out in the year 2018-19 due to thrust towards systematic development of in-situ deposit.

Environment:

Sl.No.	Item	Propasals	Actual work	Remarks
8a	Separate removal and utilization of topsoil (Rule 32)	No such proposals	Nil, as no top soil available in the proposed working area	
8b	Concurrent use or storage of topsoil	No such proposals	Nil, as no top soil available in the proposed working area	

8c	Separate dumps for overburden, waste rock, rejects and fines (Rule 33)	No top soil available in the proposed working area. No ROM production or generation of mineral rejects is proposed. Only generation and dumping of OB/waste is proposed.	As per the proposals, only OB/Waste was generated which was dumped at non-mineralized land.
8d	Use of overburden, waste rock, rejects and fines dumps for restoring the land to its original use	No such proposals	Nil
8e	Phased restoration, reclamation and rehabilitation of lands affected by mining operations (Pits, dumps etc)	No such proposals	Nil
8f	Baseline information on existence of plantation and additional plantation done (Rule 41)	Baseline information given in the mining plan for the area. Additional plantation is not proposed as the lease is in footwall side and only in-situ working is in form of OB/waste removal. This waste is being dumped within the lease area and plantation over the dump slopes shall be done after maturity of these dumps.	Baseline Information for the land within 10 km radius (1991): Total Area of the Land: 16649.11 ha Forest: 3782.56 ha Irrigated: 4072.5 ha Non-irrigated: 2666.24 Ha Cultivable waste land: 2512.97 ha Area not available for cultivation: 3498.29 ha Additional plantation carried out: 0.1 ha within the lease area with 200 saplings in 2018-19, 10200 saplings in total
8g	Survival rate	80%	~84%

8h	Water sprinkling on roads to control airborne dust	Yes	Yes, water sprinkling is being done through 28000 L water tanker deployed in the mine	
8i	General remarks of inspecting officer on aesthetic beauty in and around mines area			Apart from normal degradation due to mining, aesthetic beauty is satisfactory in the area. Lessee has done remarkable plantation work for the composite lease area having 4 leases. In this lease as well as adjoining leases, retaining walls, garland drains are there all along the dumps to avoid any degradation of land due to wash off.

Compliance of Rule 45:

Sl.No.	Item	Propasals	Actual work	Remarks
9a	Status of submission of Monthly and Annual returns	Annual Returns are required to be submitted online before 1st July of every year for preceding year Monthly returns are required to be submitted online before 10th of every month for preceding month	AR for the composite lease area of 4 leases was submitted online upto 2018-19 MR for the composite lease area of 4 leases was submitted online upto Nov'19	It was advised to file separate returns for all the leases so as to enable evaluation on individual basis.
9b	Scrutiny of Annual return for information on Mining Engineer, Geologist and Manager	Mining Engineer: Shri D. R. Pantawane Geologist: Shri Sudhanshu Chauhan Manager: Shri U. M. Bhujade	Complete information provided	

- 9c Scrutiny of Annual return on land use pattern for area under pits, reclaimed area, dumps etc. Land use details are furnished for composite lease area (4 leases) as- Covered under Excavation/Pit s: 36.983 ha Reclaimed/Rehabilitated: 22.365 ha Used for Waste Disposal: 31.761 ha Occupied by plant, building, infrastructure etc: 24.703 ha Other Purposes (BDC/OCG): 12.31 ha Complete and correct information provided over land use. However, for the lease area, land use is as below: Are under Excavation/Pits- 6.683 ha Area under dumps- 7.351 ha Area under infrastructure- 2 ha Area under roads- 0.57 ha Area under Township- 6.885 ha Area under Mineral Storage- 10.51 ha
- 9d Scrutiny of Annual return on afforestation Number of saplings planted during the year: 21600 Survival rate: 70% Complete and correct information furnished for the composite area. For the lease area under consideration, afforestation was carried out over 0.1 ha area at dump slopes with 200 saplings in the northern part of the lease area
- 9e Scrutiny of Annual return on mineral reject generation (Grade and quantity) For the composite area (4 leases): Mineral Rejects generated: 45000 T Grade: 17-18% Mn Complete and correct information furnished for composite area. For the lease area under consideration, the section is not applicable as no ROM production was proposed or carried out.

9f	Scrutiny of Annual return on ROM stock and/or graded ore	ROM: Opening and Closing Stocks- Nil, Production: 409049 T Graded Ore: Opening & Closing Stocks, Production, Dispatches for various grades dispatched from the mine have been furnished for composite lease area	Complete and correct information furnished. However, for the lease area under consideration, the information is Nil as no ROM/graded ore production is proposed or carried out. Also, Dump working was proposed from this lease but no dump working activity for extraction of minerals was carried out.
9g	Scrutiny of Annual return on sale value, Ex. Mine price and production cost	Sale Value: For grade below 25% Mn- Rs 71518854/-, For 25-35% Mn- Rs 1092800621/-, For 35-46% Mn- Rs 1142168337/-, For Mn 46% and above-Rs 23357338.83/- & For Dioxide Grade-Rs 456410107/- Ex mine Price per T: For grade below 25% Mn- Rs 2200/-, For 25-35% Mn- Rs 5526.72/-, For 35-46% Mn- Rs 15581.45/-, For Mn 46% and above-Rs 22820.15/- & For Dioxide Grade-Rs 28922.14/- Cost of Prod. per T: Rs 3894.23/-	Complete and correct information furnished. However, for the lease area under consideration, the information is Nil as no ROM/graded ore production is proposed or carried out. Also, Dump working was proposed from this lease but no dump working activity for extraction of minerals was carried out.

9h	Scrutiny of Annual return on fixed assets	Value of fixed assets: Rs 756946970/- Apart from this, value of land, machineries, plant and buildings etc. have been furnished alongwith depreciation.	Complete and correct information has been furnished for composite lease area (4 leases).
9k	Scrutiny of Annual return on mining machineries	Hydraulic Excavators: 0.9 cuM capacity-2 Nos., 4.5 cuM capacity-2 Nos., 3.0 cuM capacity-1No., 2.5 cuM capacity-2 Nos., 5.6 cuM capacity-2 Nos. Dozers: 3 dozers with 335 HP Drill machine: 110 mm dia, 6 Nos. Dumpers: 60 T-7Nos., 35 T-13 Nos. Water Tanker: 28000 Ltr-1 No. and Explosive Vans and Jeep/Tractor	Complete information furnished as per the extent of mechanization. The machineries are common to all 4 lease areas, hence correct information has been 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