

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

**MCDR inspection REPORT
Hyderabad regional office**

Mine file No : AP/KNL/LST-217/HYD

Mine code : 38APR11194

- (i) Name of the Inspecting : **160**) **Kalmata.M.K**
Officer and ID No.
- (ii) Designation : Regional Mining Geologist
- (iii) Accompanying mine : M.Ujjinappa, Mines Manager
Official with
Designation
- (iv) Date of Inspection : 15-MAR-24
- (v) Prev.inspection date : 26-NOV-19

PART-I : GENERAL INFORMATION

1. (a) **Mine Name** : **NANDAVARAM-VENKATA MINE**
- (b) **Registration NO.** : **12134/2012**
- (c) Category : A Fully Mechanised
- (d) Type of Working : Opencast
- (e) Postal address
- State : ANDHRA PRADESH
- District : KURNOOL
- Village : NANDAVARAM & VENKATA
- Taluka : BANAGANAPALLI
- Post office : NANDAVARAM
- Pin Code : 518124
- FAX No. : 04066929696
- E-mail : ycwmines@myhomeindustries..
- Phone : 8978902040
- (f) Police Station : BANAGANAPALLY
- (g) First opening date : 10-OCT-18
- (h) Weekly day of rest : SUN
2. Address for : M/s. Sree Jayajothi Cements Pvt Ltd,
correspondance Sri NAGAR, Yanakandla (v),
Mandal: Banaganapalle,Dist.Kurnool.- 518124.
3. (a) Lease Number : N.A.
- (b) Lease area : 24.739Ha
- (c) Period of lease : 50 years
- (d) Date of Expiry : 27-09-2068
4. Mineral worked : LIMESTONE Main

5. Name and Address of the

Lessee : M/S.SREE JAYAJOTHI CEMENTS LTD
KURNOOL ANDHRA PRADESH
Phone:
FAX :

Owner : Sri Chandra Shekher Pandey
Srinagar, Yanakandla
village,
Mandal.Banaganapalli, Yanaka
ndla, Dist.Kurnool.A.P.
518124. KURNOOL ANDHRA
PRADESH
Phone:
FAX :

Agent : Sri B.C.Gurivi Reddy
M/s Sree Jayajothi Cements
Pvt.Ltd Sri
Nagar, Yanakandla(v),
Mandal:Banaganapalle, Dist:K
urnool. KURNOOL ANDHRA
PRADESH
Phone: 7660013042 (Mobile.No.)
FAX :

Mining Engineer

Name : M.Ujjinappa, Full Time
Qualification : B.E.(Mining)
Appointment/ : 10-OCT-18
Termination date

Geologist

Name : M.Dheivendiran, Full Time
Qualification : Msc Geology.
Appointment/ : 01-AUG-22
Termination date

Manager

Name : M.Ujjinappa
Qualification : B.E. (Mining)
Appointment/ : 10-OCT-18
Termination date

6. Date of approval of Mining Plan/Scheme of Mining : MP under 16(1) of MCR 2016 13-MAR-18
MP modif under 17(3) MCR 2016 18-DEC-18

PART - II : OBSERVATION/COMMENTS OF INSPECTING OFFICERS

Exploration :

| Sl.No. | Item | Proposals | Actual work | Remarks |
|--------|---|--|--|--|
| 1a | Backlog of previous year | No exploration was proposed in the year 2023-24. | None in the year 2023-24. | Entire Mineralized area is already explored under G-1 level. |
| 1b | Exploration over lease area for geological axis 1 or 2 | None. | None. | Entire Mineralized area is already explored under G-1 level. |
| 1c | Exploration Agencies and Expenditure in lakh rupees during the year | None. | None. | Earlier, Exploration was carried out by Pulluri Mining and Logistics Pvt.Ltd and Expenditure incurred on exploration is Rs 4.96Lakhs |
| 1d | Balance area to be explored to bring Geological axis in 1 or 2 | None in the year 2023-24. | None. | Entire Mineralized area is already explored under G-1 level. |
| 1e | Balance reserve as on 01/04/20 | As per the approved document dated 06-12-2022, Details of Reserves/resources as on 01.07.2022 is as follows (Quantity in tonnes) Proved Mineral Reserves(111) - 712790 tonnes Feasibility M Resources (211) - 240339 tonnes Total - 953129 tonnes | Reserves/resources as on 01.04.2023 is as follows:- (In tonnes) Proved Mineral Reserves (111) - 542790 Feasibility M Resources (211) - 240339 Total:- 783129 | Reserves/resources were updated by depleting 170000 tonnes ROM produced from 01.7.2022 to 31.03.2023. |

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| 1f | General remarks of inspecting officers on geology, exploration etc | The Mining lease area and adjoining lands mainly consist of two main litho units i.e. weathered Limestone (Calcrete) on the top and Limestone (Tuffaceous) at the bottom followed by shale and Flaggy Limestone at depth. The area forms a part of Narji Limestone formation of Kurnool Group of rocks of Proterozoic age. | Entire lease area is mineralized and entire Mineralized area is explored under G-1 level, by drilling 03 boreholes and 22 trial pits. |
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Development :

| Sl.No. | Item | Propasals | Actual work | Remarks |
|--------|--|---|---|---|
| 2a | Location of development w.r.t.lease area | In the year 2023-24, there was a proposal to work between the co-ordinates N1700290 to N1700600 & E 205320 to 205860. | Actual working in the year 2023-24 has been carried out between the co-ordinates- N1700300 to N 1700430 and E 205300 to E 205770. | The working has been carried out within the proposed limits only. |
| 2b | Separate benches in topsoil, overburden and minerals (Rule 15) | Yes proposed separate benches in topsoil and Mineral. | Maintained separate benches in topsoil and mineral. | Bench height is maintained 0.5 to 1.00 mtr in topsoil and 5.5 to 6.00 mtr in mineral. |
| 2c | Stripping ratio or ore to OB ratio | None. | None. | Recovery is 100% and no OB/waste generation was proposed. |
| 2d | Quantity of topsoil generation in m3 | 35479.12 in the year 2023-24. | 32655 in the year 2023-24. | Due to less production the benches were not moved as proposed. So there is a deviation in removing topsoil as proposed. |

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| 2e | Quantity of overburden generation in m3 | None. | None. | No OB/Waste generation was proposed. |
| 2f | General remarks of inspecting officers on development of pit w.r.t. type of deposit etc | | The type of the mineral is soft and almost powdery in nature. Only one bench (In mineral) is existing and height is maintained 5.5 to 6.00 mtrs. | |

Exploitation:

| Sl.No. | Item | Propasals | Actual work | Remarks |
|--------|---|--|---|---|
| 3a | Number of pit proposed for production | One. | One. | Two pits are existing within the lease are and dimension of each pit is as follows. Pit-1:- 135m x 52m x 5.5m (which is already mined out and backfilled) Pit No.2:- 410m x 338m x 5.5m. (presently production is going on in Pit No.2 only) |
| 3b | Quantity of ROM mineral production proposed | 300000 tonnes (3lakh) in the year 2023-24. | 243635 tonnes in the year 2023-24 (Up to Feb-24) | 81% production was achieved up to Feb 2024. |
| 3c | Recovery of sailable/usable mineral from ROM production | 100% | 100% | |
| 3d | Quantity of mineral reject generation | None. | None. | Entire ROM was dispatched to Captive Cement plant linked to the mine. |
| 3e | Grade of mineral rejects generation and threshold value declared. | Not applicable. | Not applicable. | |

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| 3f | Quantity of sub grade mineral generation. | None. | None. | Entire ROM was dispatched to Captive Cement plant linked to the mine. |
| 3g | Grade of sub grade mineral generation | Not applicable. | Not applicable. | |
| 3h | Manual / Mechanised method adopted for segregating from ROM | None. | None. | Entire ROM was dispatched to Captive Cement plant linked to the mine. |
| 3i | Any analysis or beneficiation study proposed and carried out for sub grade mineral and rejects. | None. | None. | |
| 3j | Provision of drilling and blasting in mineral benches | None. | None. | The ore is soft in nature and easily removable from excavator only. So no drilling and blasting is proposed. |
| 3k | Provision of mining machineries in mineral benches | Yes proposed. | Using Combination of Excavator and tipper for production and development. | Backhoe of 1.09 CUM and tippers of 12CUM capacity are in use. |
| 3l | Whether height of benches in overburden and mineral suitable for method of mining proposed in MP/SOM | Proposed bench height is 6.00 mtr. | 5.00 to 6.00 mtr bench height is maintained. | The proposed and maintained bench height is suitable for the method of mining adopted. |
| 3m | Total area covered under excavation/pits | 16.50 Ha up to the year 2023-24. | 15.558Ha up to 2023-24. (13.828Ha under current worki & 1.73Ha mined out and backfilled) | Area proposed in the year 2023-24 is 3.58Ha and actual worked area in the year 2023-24 is 2.707Ha. |
| 3n | Ore to OB ratio for the pit/mine during the year. | None. | None. | No OB generation is proposed and mined. |

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| 3o | Total area put in use under different heads at the end of year | Area under mining:- 16.50Ha, Dumps-1.00Ha, Others-1.73Ha. | Area under Mining- 13.828Ha, Dump-1.00Ha, backfillied area-1.73Ha | Total two pits are existing in the lease out of two pit one is completely mined out and backfilled (0.9560Ha) and area covered under pit 2 is 13.828Ha(Current workings) Further, about .774Ha of pit 2 is also backfilled. |
| 3p | Production of ROM mineral during the last five year period as applicable | 2023-24 - 300000 tonnes 2022-23 - 300000 tonnes 2021-22 - 300000 tonnes 2020-21 - 300000 tonnes 2019-20 - 300000 tonnes | 2023-24 - 243635 tonnes (up to feb-24) 2022-23 - 260000 tonnes 2021-22 - 300000 tonnes 2020-21 - 230000 tonnes 2019-20 - 220000 tonnes | Production was achieved up to 80% in the year 2023-24 up to thr end of february 2024. |
| 3q | General remarks of inspecting officers on method of mining etc. | | The Method of mining adopted is fully mechaized with combination of excavtor and tippers. Since formation is soft and which can be easily removed from excavtor itself, lessee is not doing any drilling and blasting in the working benches. | |

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 dumping was proposed in the year 2023-24. | None in the year 2023-24. | Only topsoil was removed in the year 2023-24 and entire removed topsoil was utilized for backfilling mined out pit as per the proposal. |
| 4b | Location of topsoil, OB and mineral reject dumps | None in the year 2023-24. | None in the year 2023-24. | Total four Topsoil dumps are existing within the lease area , Two in the North-Eastern part of the lease and One in South Eastern and one in South-Western part of the lease area. |
| 4c | Number of dumps within lease area and outside of lease area | None in the year 2023-24. | None in the year 2023-24. | Four Topsoil dumps are existing within the lease area. Some dumps are observed outside the lease also, As per the lessee, said dumps were made by some other lessees of minor minerals existing adjacent to lease area. |
| 4d | Location of dumps w.r.t. ultimate pit limit (Rule 16) | None in the year 2023-24. | None in the year 2023-24. | Old topsoil dumps are existing outside the UPL. |
| 4e | Number of active and alive dumps. | None in the year 2023-24. | None in the year 2023-24. | Two old active top dumps are existing in the North-Eastern side of the lease area. |
| 4f | Number of dead dumps. | None in the year 2023-24. | None in the year 2023-24. | Two old topsoil dead dumps are existing within the lease area. One in the North eastern part and one in South - Western part of the lease area. |

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| 4g | Number of dumps established. | None in the year 2023-24. | None in the year 2023-24. | Two old top soil dumps are partially covered with plantations. |
| 4h | Whether Retaining wall or garland drain all along dumps are there. | None in the year 2023-24. | None in the year 2023-24. | No retaining wall or garland drains are proposed and made in the year 2023-24 |
| 4i | Length of Retaining wall or garland drain all along dumps | Not applicable. | Not applicable. | |
| 4j | Number of settling ponds | None. | None. | |
| 4k | Specific comments of inspecting officer on waste dump management | | No dumping was proposed and made in the year 2023-24. However, four old topsoil dumps are existing within the lease area. Since height of the dumps are less than 5.00 mtrs and lessee is planing to use topsoil existing in the dumps for backfilling mined out area, no retaining walls are made. | |

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. | Backfilling was proposed in the North - Eastern part of the lease area. | In the year 2023-24 back filling is carried out in the North-Eastern part of the lease area as proposed. | In the year 2023-24, about 2655.620 Sq.mtr area of mineral exhausted area in Pit-1 in Northern side of the lease and 7657.842Sq.mtr of mineral exhausted area of Pit-2, in North-eastern side of the lease is backfilled. Total area backfilled so far is about 1.73Ha. |

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| 5b | Area under backfilling of mined out area | 1.09 Ha in the year 2023-24 | 1.04Ha in the year 2023-24. | Total area backfilled so far is 1.73Ha. |
| 5c | Concurrent use of topsoil for restoration or rehabilitation of mineral out area (Rule 32) | Yes proposed. | Topsoil removed was utilized for backfilling of mined out pits. | Total topsoil removed in the year 2023-24 is 32555.40CUM and entire quantity was utilized for backfilling in pit-1 and pit-2. |
| 5d | Total area fully reclaimed and rehabilitated | 0.13Ha (for plantation) | 0.72Ha in the year 2023-24. | Only plantation was made on the topsoil dump and backfilled area. |
| 5e | General remarks of inspecting officers on backfilling and reclamation etc. | | The backfilling was made as per the proposals, Total 1.04Ha was backfilled in the year 2023-24 and about .72Ha of backfilled area is covered by plantation. | The total area backfilled so far is 1.73Ha. |

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). | Before 1st july of every year. | Yes, submitted PMCP report for the year 2022-23 along with the annual returns submitted for the year 2022-23. | Submitted report on 24.06.2023. |
| 6b | Area available for rehabilitation (ha) . | 1.09Ha (backfilling) in the year 2023-24. | 1.04Ha (backfilled) in the year 2023-24. | The deviation is due to less production. Due to less production the topsoil was not removed as proposed. |
| 6c | afforestation done (ha). | 0.36Ha in the year 2023-24. | 0.72Ha in the year 2023-24. | Plantation was made morethan the proposal. |
| 6d | No. of saplings planted during the year | 360 saplings in the year 2023-24 | 410 saplings planted in the year 2023-24. | Plantation was made morethan the proposal. |
| 6e | Cumulative no .of plants | 2451 saplings up to 2023-24. | 2463 saplings up to 2023-24. | |

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| 6f | Any other method of rehabilitation | None. | None. | |
| 6g | Cost incurred on watch and care during the year | No such proposals were given. | 12.64 Lakhs up to 2023-24. | This includes purchase of plants also. |
| 6h | Compliance on reclamation and rehabilitation by backfilling (i) Voids available for backfilling (Lx B x D | Pit No-1 - 190m x 50m x 6.00m and Pit-2:- 105m x 78.31m x 2.38m | Pit No-1:- 190m x 50m x 6.2mtr and Pit no.2:- 100m x 77m x 2.09m | Due to less production the the mineral not removed as proposed in PitNo-2, so there is a small negative deviation in backfilling. |
| 6i | Compliance on reclamation and rehabilitation by backfilling (ii) Voids filled by waste / tailings | None. | None. | No waste proposed and generated in the year 2023-24. However, the topsoil generated is utilized for backfilling of mined out pits as per the proposal. |
| 6j | Compliance on reclamation and rehabilitation by backfilling (iii) Afforestation on backfilled area | 0.13Ha (for plantation) | 0.72 Ha in the year 2023-24. | The plantation was made as per the proposal. |
| 6k | Compliance on reclamation and rehabilitation by backfilling (iv) Rehabilitation by making water reservoir | None. | None. | |
| 6l | Compliance on reclamation and rehabilitation by backfilling (v) any other specific means. | None. | None. | |
| 6m | Compliance of rehabilitation of waste land within lease (i) afforestation | Proposed in 7.5 mtr safety zone. | Plantation was made in the 7.5 mtr safety zone. | |

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| 6n | Compliance of rehabilitation of waste land within lease (ii)Area rehabilitation (ha) | None. | None. | |
| 6o | Compliance of rehabilitation of waste land within lease (iii)Method of rehabilitation | None. | None. | |
| 6p | Compliance of environmental monitoring (core zone and buffer zone) | Yes, Air, Water and Noise monitoring was proposed in Core and Buffer zone. | Lessee is regularly monitoring air , water and noise and all the parameters are within permissible limits. | Lawn enviro associates ,Hyderabad is doing the Environmental monitoring. |
| 6q | General remarks of inspecting officers on PMCP compliance and progressive closure operations etc. | | In the year 2023-24 1.04Ha mined out area is backfilled against the proposal of 1.09Ha(Total area backfilled so far is 1.73Ha). Due to less production the mineral was not extracted as proposed so there is a deviation in backfilling. Plantation was made on Some portion of the backfilled area (0.72Ha). Further, lessee is regularly monitoring Air, water and Noise and all the parameters are within the permissible limits. | |

Mineral Conservation:

| Sl.No. | Item | Propasals | Actual work | Remarks |
|--------|--|--|--|--|
| 7a | ROM Mineral dispatch or grade-wise sorting within lease area | Proposed dispatch of Cement grade ROM to Captive Cement Plant. | Lessee is dispatching Cement grade ROM to Captive plant as proposed. | Lessee is not doing any processing at mine site. |

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| 7b | Method of grade-wise mineral sorting i.e. manual or mechanical. | None. | None. | Sending ROM to Captive Cement plant with out any processing. |
| 7c | Different grade of mineral sorted out at mines. | Cement Grade. | Cement Grade. | |
| 7d | Any beneficiation process at mines . | None. | None. | |
| 7e | General remarks of inspecting officer on Mineral conservation and beneficiation issues | | Lessee is not doing any mineral processing at the mine site. Dispatching ROM (Cement grade) to Captive Cement plant linked with the mine. | |

Environment:

| Sl.No. | Item | Propasals | Actual work | Remarks |
|--------|---|--------------------------|---|---|
| 8a | Separate removal and utilization of topsoil (Rule 32) | Yes proposed. | Topsoil was removed separately by scarping. | Topsoil removed was utilized for backfilling of mined out pits. |
| 8b | Concurrent use or storage of topsoil | Proposed Concurrent use. | Topsoil removed was utilized for backfilling of mined out pits. | About 32655 Cum top soil was generated in the year 2023-24 and entire topsoil was utilized for backfilling. |
| 8c | Separate dumps for overburden, waste rock, rejects and fines (Rule 33) | None. | None. | |
| 8d | Use of overburden, waste rock, rejects and fines dumps for restoring the land to its original use | Not proposed. | Nil. | |

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| 8e | Phased restoration, reclamation and rehabilitation of lands affected by mining operations (Pits, dumps etc) | Proposed backfilling of 1.09 ha. | 1.04Ha area is backfilled in the year 2023-24. | Total area backfilled so far is 1.73Ha. |
| 8f | Baseline information on existence of plantation and additional plantation done (Rule 41) | Baseline information was furnished in the mining plan. Additional plantation proposals are being given in the Mining Plan documents. | Additionally lessee has planted 2463 saplings within the lease area. | |
| 8g | Survival rate | 70% in the year 2023-24. | 75 to 80% in the year 2023-24. | Overall survival rate is more than 75%. Lessee is maintaining the plantation by proper monitoring. |
| 8h | Water sprinkling on roads to control airborne dust | Yes proposed. | Lessee is using the water tanker for spray water on working benches and haul roads during working. | Using one water tanker of 16000 ltr capacity for the said purpose. |
| 8i | General remarks of inspecting officer on aesthetic beauty in and around mines area | | Most of the lease area was degraded by the mining activities. Only one bench is existing in the lease area. The mined out area is backfilled and some portion of backfilled area is covered by plantation also. Plantation was made in 7.5 mtr safety zone also. | |

Compliance of Rule 45:

| Sl.No. | Item | Proposals | Actual work | Remarks |
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- 9a Status of submission of Monthly and Annual returns
- A monthly return shall be submitted before the tenth day of every month in respect of the preceding month and an annual return shall be submitted before the 1st day of July each year for the preceding financial year.
- Lessee is Regularly submitting Monthly and Annual returns.
- Submitted Annual returns for the year 2023-24 within time. Annual returns submitted on 26.06.2024.
- 9b Scrutiny of Annual return for information on Mining Engineer, Geologist and Manager
- The details of Mining Engineer and Geologist as mentioned in the AR submitted for the year 2023-24 is as follows. Mining Engineer & :- M.Ujjinappa and Geologist:- M.Dheivendiran .
- The said mining engineer and geologists were present on the day of inspection and details furnished in the AR is found corrcet.
- Lessee has sent notice of appointments for mining engineer and Geologist to this office.

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| 9c | Scrutiny of Annual return on land use pattern for area under pits, reclaimed area, dumps etc. | Area under mining (Current working) :- 15.558Ha, Reclaimed and rehabilitated (back filled)- 1.09Ha, Dumps- 1.00Ha, Infrastructure -0.124Ha. | Area under Mining- 13.828Ha, Dump-1.00Ha, backfillied area-1.73Ha, Infrastructure-0.124Ha. | In the AR submitted for the year 2023-24 area under current working is mentioned as 15.558Ha, including 1.09Ha, which is already mined out and backfilled. Further, the said 1.09Ha is mentioned under R& R also which is repetition. As per drone data (submitted for the year 2023-24) actual area covered by backfilling is 1.73Ha However, in the returns area under R& R is mentioned as 1.09Ha only. Showcause notice is issued for the same under Rule 45(7) of MCDR. |
| 9d | Scrutiny of Annual return on afforestation | 410 plantation was shown with survival rate of 80%. | The information furnished in the AR 2023-24 is found correct. | However, for total number of trees at the end of the year lessee has mentioned 328 saplings by taking 80% of survival rate. So, lessee has advised to mention number plants planted so far from start of the mine to so far and Showcause notice is issued for the same under Rule 45(7) of MCDR 2017. |
| 9e | Scrutiny of Annual return on mineral reject generation (Grade and quantity) | None in the year 2023-24. | None. | Recovery is 100% and no mineral reject was reported in the year 2023-24. |

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| 9f | Scrutiny of Annual return on ROM stock and/or graded ore | ROM:- Opening and closing stock Nil, Production: 273000 tonnes., Graded, Cement grade: Opening and closing stock-Nil, Production and dispatch: 273000 tonnes. | The details furnished in the annual returns is found correct. | Entire ROM produced is Cement grade and same is dispatched to the captive cement plant for own consumption. |
| 9g | Scrutiny of Annual return on sale value, Ex. Mine price and production cost | "Cost of production & Ex-mine price- Rs- 158.81/Tonees, and Sale value is shown Rs 43354613.5 5 for dispatch of 273000 tonnes." " | The details furnished in the annual returns is found correct. | Eventhough the mine is captive and no sale was made, sale value is given by multiplying Dispatch quantity with Ex-mine price. |
| 9h | Scrutiny of Annual return on fixed assets | Value of fixed asset is shown as Rs 28119451 for the year 2023-24. | No industries were observed within the lease area, but additions during the year 2023-24 is shown as Rs 100593 , depreciation as Rs-39102(38%) and closing balance Rs-61491. Further, Excavators and tippers are shown under type of Machinery, but value for the same is shown as zero. Further, in AR submitted for the year 2022-23, closing balance was shown as Rs-100593 for Industries, however, in the AR submitted for the year 2023-24, value at the beginning of the year is mentioned as zero. | Showcause notice is issued for the same under Rule 45(7) of MCDR 2017. |

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| 9k | Scrutiny of Annual return on mining machineries | Backhoe excavator of 1.09Cum capacity-01, Tippers of 12 CUM capacity- 05 numbers and water tanker of 16000 lts capacity-01. | The information furnished in the AR 2023-24 is found correct. |
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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 :

(Kalmata.M.K)

Indian Bureau of Mines