

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

MCDR INSPECTION REPORT

Ajmer regional office

Mine file No : RAJ/BLW- 56 /PB,ZN-1/6/12/200:

Mine code : 34RAJ06001

- (i) Name of the Inspecting : **K010**) **Kotriwal B.L.**
Officer and ID No.
- (ii) Designation : Regional Controller Mines
- (iii) Accompanying mine : Sri Vinod Kumar, Agent, Shri Vinod Jangir, Mines Mana
Official with
Designation
- (iv) Date of Inspection : 12-JUN-19
- (v) Prev.inspection date : 11-DEC-18

PART-I : GENERAL INFORMATION

1. (a) **Mine Name** : **RAMPURA AGUCHA**
- (b) **Registration NO.** : **IBM/421/2011**
- (c) Category : A Mechanised
- (d) Type of Working : Underground
- (e) Postal address
- State : RAJASTHAN
- District : BHILWARA
- Village : AGUCHA
- Taluka : HURDA
- Post office : AGUCHA
- Pin Code : 311029
- FAX No. : 01483-233073
- E-mail : sanjay.sharma@vedanta.co.in
- Phone : 01483-23331, 23332
- (f) Police Station : Gulabpura
- (g) First opening date : 05-FEB-81
- (h) Weekly day of rest : MON
2. Address for : HINDUSTAN ZINC LTD.
correspondance : RAMPURA AGUCHA MINE,
PO AGUCHA, BHILWARA
3. (a) Lease Number : RAJ0652
- (b) Lease area : 1200
- (c) Period of lease : 50
- (d) Date of Expiry : 12-MAR-30
4. Mineral worked : LEAD & ZINC ORE Main

5. Name and Address of the

Lessee : HINDUSTAN ZINC LTD.
HINDUSTAN ZINC LTD. YASHAD
BHAWAN YASHADGARH, UDAIPUR
UDAIPUR RAJASTHAN
Phone:01483-23331, 23332
FAX :01483-23073

Owner : Mr. Arun Mishra
M/s Hindustan Zinc Ltd.
Yeshad Bhawan,yashadgarh,
P.O.Udaipur, UDAIPUR
RAJASTHAN
Phone: 0294-2427734
FAX : 0294-2427734

Agent : Shri Vinod Kumar
Rampura-Agucha Lead-Zinc
Mine Agucha, Bhilwara,
Rajasthan BHILWARA
RAJASTHAN
Phone: 01483-229012
FAX : 01483-229011

Mining Engineer
Name : Shri Nirmalendu Kumar,Full Time
Qualification : B.E(Mining),1st class(UR)under MMR 1961
Appointment/ : 24-APR-19
Termination date

Geologist
Name : Ranjan Gupta,Full Time
Qualification : MSc (Tech) Geology
Appointment/ : 01-MAY-17
Termination date

Manager
Name : Sachin M Deshmukh
Qualification : B.E. Mining
Appointment/ : 24-NOV-20
Termination date

6. Date of approval of Mining : Existing rule 11 MCDR1988 25-JAN-93
Plan/Scheme of Mining Mining Scheme rule 12 MCDR1988 15-MAY-97
Mining Scheme rule 12 MCDR1988 06-JUN-01
Modif.approved Mining Scheme 29-JUL-03
Modif.approved Mining Scheme 17-SEP-03
Mining Scheme rule 12 MCDR1988 27-FEB-06
Modif.approved Mining Scheme 02-NOV-06
Modif.of approved Mining Plan 04-MAY-09
Mining Scheme rule 12 MCDR1988 11-JUL-12
Modif.approved Mining Scheme 28-JUN-13
Modif.approved Mining Scheme 09-APR-15
MP review under 17(1) MCR 2016 22-FEB-17
MP modif under 17(3) MCR 2016 27-MAR-18

PART - II : OBSERVATION/COMMENTS OF INSPECTING OFFICERS

Exploration :

| Sl.No. | Item | Proposals | Actual work | Remarks |
|--------|---|---|--|---|
| 1a | Backlog of previous year | A total of 65 BH with 11000 meters of drilling has been proposed during the year 2018-19. | A total of 175 BH with 13616 meters of drilling has been carried out. | NIL. |
| 1b | Exploration over lease area for geological axis 1 or 2 | During the year 2018-19, a total of 65 BH have been proposed to upgrade the resource. | A total of 175 BH have been drilled during the year 2018-19. | Out of total lease area of 1200 Ha, an area of 227.39 has been explored under G1/G2 level of exploration. Remaining 972.61 Ha area is non-mineralised and occupied by infrastructure. |
| 1c | Exploration Agencies and Expenditure in lakh rupees during the year | Mining Associate private Limited and Trans Directional Mining Associates. No proposal of expenditure. | Exploration has been carried out by Trans Directional Mining Associates. Expenditure around of Rs. 9.48Cr.(UG+Surface drilling). | NIL. |
| 1d | Balance area to be explored to bring Geological axis in 1 or 2 | Proposals have been given to upgrade resource to reserve. | Accordingly exploration has been executed to upgrade resource to reserve as details given in para 1(a). | Out of total lease area of 1200 Ha, an area of 227.39 has been explored under G1/G2 level of exploration. Remaining 972.61 Ha area is non-mineralised and occupied by infrastructure. |
| 1e | Balance reserve as on 01/04/20 | No specific proposal of reserve and resource for year to year basis. | As on 01/04/2019, the Reserve and Resource was 36 million tons and 55 million tons respectively. | As per AR 2018-19. |

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| 1f | General remarks of inspecting officers on geology, exploration etc | A total of 65 BH with 11000 meters of drilling has been proposed during the year 2018-19. | A total of 175 BH with 13616 meters of drilling has been carried out. | Exploration work is being carried out using directional drilling and it reduces the cost and length of drilling. |
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Development :

| Sl.No. | Item | Propasals | Actual work | Remarks |
|--------|--|---|---|--|
| 2a | Location of development w.r.t.lease area | (1) Opencast (OC): S500-N850/E150-E700. (2) Underground(UG) development: Total horizontal development proposed-42376 mts, Total vertical development proposed- 3720 mts. | (1) Opencast: No mining operation for opencast. (2) UG development: Total horizontal development completed- 27689 mts, Total vertical development completed- 1891 mts. | Development has not been carried out as per approved proposal. Therefore, violation of Rule 11(1) of MCDR,2017 has been pointed out vide letter dated 19/12/2018 and which is being followed up. |
| 2b | Separate benches in topsoil, overburden and minerals (Rule 15) | No proposal of top soil generation as no fresh area has been proposed under excavation. Proposal of separate benching has been given in Ore and OB. | Open pit mine has been closed since March 2018. Hence, no fresh generation of top soil and no fresh area have been developed for benches. | NIL. |
| 2c | Stripping ratio or ore to OB ratio | Proposed striping ratio was 1:8.0 (t/t) | NIL as open pit reaches its ultimate pit limit in March 2018. | NIL. |
| 2d | Quantity of topsoil generation in m3 | No proposal of top soil generation as no fresh area has been proposed under excavation. | No top soil has been generated during 2018-19. | NIL. |

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| 2e | Quantity of overburden generation in m3 | A total of 888499 tonne from opencast. Waste generation of 3.27 million tonnes from UG. | OB has not been generated from opencast as no excavation during the year 2018-19 from opencast for the reason that pit reaches upto the ultimate pit limit in march 2018. Waste generation form UG was 1785208 tonnes. | Generation of waste from UG was less due to less development. |
| 2f | General remarks of inspecting officers on development of pit w.r.t. type of deposit etc | Mining operation has been proposed from opencast pit along with underground. | The openpit reaches upto the ultimate pit limit in march 2018. Hence, further openpit mine was closed. | There is short fall in UG development for which violation of Rule 11(1) of MCDR,2017 has been pointed out vide this office letter dated 19/12/2018 and is being followed up. |

Exploitation:

| Sl.No. | Item | Propasals | Actual work | Remarks |
|--------|---|---|--|---|
| 3a | Number of pit proposed for production | One Open Pit and UG mining. | One Open Pit and UG mining. | No working in openpit during the year 2018-19. |
| 3b | Quantity of ROM mineral production proposed | 301376 MT (OC), 4500000 MT (UG), Total 4801376 MT | Nil (OC), 1,709,767 MT (UG), Total 1,709,767 MT | Mineral production was less due to less development and no working in open pit. |
| 3c | Recovery of sailable/usable mineral from ROM production | 100% | 100% | NIL. |
| 3d | Quantity of mineral reject generation | No proposal of Mineral Reject Generation. | No Mineral reject generation. The entire ROM is subject to beneficiation. | NIL. |
| 3e | Grade of mineral rejects generation and threshold value declared. | No rejects has been proposed. | Not applicable. Entire ROM is being feed to the beneficiation plant irrespective of the grade. | NIL. |
| 3f | Quantity of sub grade mineral generation. | No proposal of Sub-grade Generation. | No Sub-grade generation. The entire ROM is subject to beneficiation. | NIL. |
| 3g | Grade of sub grade mineral generation | No proposal. | Not applicable. | NIL. |

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| 3h | Manual / Mechanised method adopted for segregating from ROM | No proposal of ROM segregation as entire ROM is subject to the beneficiation. | Entire ROM is feed to the beneficiation plant. | NIL. |
| 3i | Any analysis or beneficiation study proposed and carried out for sub grade mineral and rejects. | No proposal. As no proposal of Sub-grade or Mineral reject generation. | Not applicable as no proposal. | NIL. |
| 3j | Provision of drilling and blasting in mineral benches | Open pit: Staggered pattern of drilling has been proposed with hole depth from 11 to 12mts, Sub grade drilling- 1 to 1.25 mts, variable spacing from 3 to 6 mts etc. Under Ground: Drilling pattern in ore- Burn Cut method of development, Drilling pattern in Stopes- Ring drilling with fan cut pattern. | Drilling and blasting has not been carried out in open pit as open pit reaches its ultimate pit limit in March 2018. Drilling and blasting has been carried out as per proposal in UG development and stopes. | No drilling and blasting in opencast during 2018-19 as open pit reaches its ultimate pit limit in March 2019. |
| 3k | Provision of mining machineries in mineral benches | Openpit development: Ore and waste is proposed to be excavated by combination of hydraulic excavators and dumpers. UG development: Twin Boom Jumbo, Loaders, Trucks (30 and 60 T)etc. | No open pit development as as open pit reaches its ultimate pit limit in March 2018. Deployment of Mining machinery has been found to be as per proposal in UG operations. | NIL. |

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| 3l | Whether height of benches in overburden and mineral suitable for method of mining proposed in MP/SOM | Height of the benches have been proposed 10 to 12 mts. for open pit development. | No open pit development as as open pit reaches its ultimate pit limit in March 2018. | NIL. |
| 3m | Total area covered under excavation/pits | 175.12 Ha | 175.12 Ha (No fresh area was proposed for development) | NIL. |
| 3n | Ore to OB ratio for the pit/mine during the year. | Proposed striping ratio was 1:8.0 (t/t) | NIL as open pit reaches its ultimate pit limit in March 2018. | NIL. |
| 3o | Total area put in use under different heads at the end of year | Area under Mining: 175.12 Ha, Waste Dump: 252 Ha, Infrastructure , road etc: 86.14 Ha, Tailing Pond: 203.20 ha. etc. | Area under Mining: 175.12 Ha, Waste Dump: 252 Ha, Infrastructure, road etc: 86.14 Ha, Tailing Pond: 181.19 ha. etc. | NIL. |
| 3p | Production of ROM mineral during the last five year period as applicable | 2013-14: 6.00 2014-15: 6.00 2015-16: 5.20 2016-17: 6.04 2017-18: 4.74 2018-19: 4.80 | 2013-14: 5.80 2014-15: 5.45 2015-16: 4.70 2016-17: 4.70 2017-18: 3.84 2018-19: 3.33 | Figures in million tonnes. Less production is in account of less development. |
| 3q | General remarks of inspecting officers on method of mining etc. | For reporting year mining operations have been proposed from both opencast and underground mining method. | No opencast working during the year 2018-19 due as open pit reaches its ultimate pit limit in March 2019. Production has been carried out only from UG mining operations. | Modern and scientific mining method by paste filling are in practice for optimal exploitation of mineral wealth. Latest technologies and machineris are being deployed. |

Solid Waste Management - Dumping:

| Sl.No. | Item | Propasals | Actual work | Remarks |
|--------|--|---|--|---------|
| 4a | Separate dumping of topsoil, OB and mineral rejects (Rule 32,33) | No proposal of top soil and Mineral Reject generation. OB/waste is proposed to dump Separately. | Top soil and Mineral Reject has not been generated during the reporting year. Waste generated during the year has been dumped at designated place. | NIL. |

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| 4b | Location of topsoil, OB and mineral reject dumps | No proposal of top soil and Mineral Reject generation. OB/waste is proposed to dump at existing waste dump between grid N1260 to N2590/ W600 to E600 in 20m of lifts. | Top soil and Mineral Reject has not been generated during the reporting year. Waste generated during the year has been dumped at designated place. | NIL. |
| 4c | Number of dumps within lease area and outside of lease area | Inside Lease area- One Outside Lease area: NIL | Inside Lease area- One Outside Lease area: NIL | NIL. |
| 4d | Location of dumps w.r.t. ultimate pit limit (Rule 16) | Outside UPL. | Outside UPL. | NIL. |
| 4e | Number of active and alive dumps. | One. | One. | NIL. |
| 4f | Number of dead dumps. | None. | None. | NIL. |
| 4g | Number of dumps established. | Dump terrace and slopes are to be stabilized with plantation. | Plantation has been observed over dump terrace and slope. | There is single active dump and the non-moving ends of dump are being stabilised by the way of plantation. |
| 4h | Whether Retaining wall or garland drain all along dumps are there. | No specific proposal of garland drain all along the waste dump during reporting year. | Garland drain has been observed along waste dump. | NIL. |
| 4i | Length of Retaining wall or garland drain all along dumps | No specific proposal of retaining wall and garland drain during reporting year. | Garland drain and retaining wall has been observed all along the waste dump. | NIL. |
| 4j | Number of settling ponds | No proposal of settling pond during reporting year. | NIL. | NIL. |

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| 4k | Specific comments of inspecting officer on waste dump management | There is only one existing waste dump in leas area. Dumping of the waste has been proposed over existing dump with a lift of 20 meters. | Dumping of the waste is being carried out over existing dump as per proposal. Retaining wall and garland drain has been observed along the dump. Part of the waste dump has been stabilized and rehabilitated with plantation. | NIL. |
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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. | No proposal for back filling of open pit. Backfilling of U/G stoped out area has been proposed. | Underground stopes back filled after extraction of minerals. | NIL. |
| 5b | Area under backfilling of mined out area | No proposal of backfilling of mined out area or mine pit. Backfilling of U/G stopes proposed. | No backfilling in mine pit. Back filling of U/G stopes have been carried out. | NIL. |
| 5c | Concurrent use of topsoil for restoration or rehabilitation of mineral out area (Rule 32) | No proposal of top soil generation as no fresh area has been proposed under excavation. | Open pit mine has been closed since March 2018. Hence, no fresh generation of top soil and no fresh area have been developed for benches. | NIL. |
| 5d | Total area fully reclaimed and rehabilitated | No proposal of full reclamation and rehabilitation of any area. Part of the waste dump area has been proposed for rehabilitation | Part of the matured waste dump has been rehabilitated by soil capping and plantation. | NIL. |

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| 5e | General remarks of inspecting officers on backfilling and reclamation etc. | No proposal for back filling of open pit. Backfilling of U/G stopes proposed. Part of the waste dump area has been proposed for rehabilitation | No backfilling in mine pit. Back filling of U/G stopes have carried out. Part of the matured waste dump has been rehabilitated by soil capping and plantation. | NIL. |
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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). | As per rule 26 of MCDR, 2017 holder of mining lease shall submit PMCP before 1st day of July every year. | PMCP report for the year 2018-19 has been submitted. | NIL. |
| 6b | Area available for rehabilitation (ha) . | 20.0 Ha area has been proposed to rehabilitate. | Around 20.0 Ha area has been rehabilitated. | NIL. |
| 6c | afforestation done (ha). | 20.0 Ha area has been proposed for afforestation. | Afforestation has been carried out over an area of around 20.0 Ha. | NIL. |
| 6d | No. of saplings planted during the year | 20000 number of saplings have been plan to planted. | 20000 number of saplings have been planted. | NIL. |
| 6e | Cumulative no .of plants | 327464 numbers. | 329464 numbers. | Survival rate is around 90%. |
| 6f | Any other method of rehabilitation | No proposal of any other method of rehabilitation other than plantation. | Not applicable as no proposal. | NIL. |
| 6h | Compliance on reclamation and rehabilitation by backfilling (i) Voids available for backfilling (Lx B x D | 1470588 m3 (backfilling of UG stopes). | 943487 m3 (As repoerted). | Less backfilling of the stopes is due to less production and less development. |

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| 6i | Compliance on reclamation and rehabilitation by backfilling (ii) Voids filled by waste / tailings | 1470588 m3 (backfilling of UG stopes). | 943487 m3 (As repoerted). | Less backfilling of the stopes is due to less production and less development. |
| 6j | Compliance on reclamation and rehabilitation by backfilling (iii)Afforestation on on backfilled area | No proposal. | Not applicable. | NIL. |
| 6k | Compliance on reclamation and rehabilitation by backfilling (iv) Rehabilitation by making water reservoir | No proposal. | Not applicable. | NIL. |
| 6l | Compliance on reclamation and rehabilitation by backfilling (v)any other specific means. | No proposal. | Not applicable. | NIL. |
| 6m | Compliance of rehabilitation of waste land within lease (i)afforestation | No proposal. | Not applicable. | NIL. |
| 6n | Compliance of rehabilitation of waste land within lease (ii)Area rehabilitation (ha) | No proposal. | Not applicable. | NIL. |
| 6o | Compliance of rehabilitation of waste land within lease (iii)Method of rehabilitation | No proposal. | Not applicable. | NIL. |
| 6p | Compliance of environmental monitoring (core zone and buffer zone) | 3 stations in core zone & 3 stations in buffer zone. | 3 stations in core zone & 3 stations in buffer zone. Monitoring parameters are found within permissible limits. | NIL. |

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| 6q | General remarks of inspecting officers on PMCP compliance and progressive closure operations etc. | Plantation by 20000 saplings has been proposed over the 20.0 ha area of waste dump. | Plantation work has been carried out as per proposal. Also coir matting has been carried out at places. | NIL. |
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Mineral Conservation:

| Sl.No. | Item | Propasals | Actual work | Remarks |
|--------|---|---|---|---------|
| 7a | ROM Mineral dispatch or grade-wise sorting within lease area | ROM having grade variability is proposed to stacked separately. | ROM having grade variability has been stacked separately and blended to maximize metal recovery. | NIL. |
| 7b | Method of grade-wise mineral sorting i.e. manual or mechanical. | Mechanical. | Mechanical. | NIL. |
| 7c | Different grade of mineral sorted out at mines. | Different grades of mineral stacked separately at PCH pad and feed optimum grade to beneficiation plant. | Different grades of mineral stacked separately at PCH pad, and blended it to feed optimum grade to beneficiation plant. | NIL. |
| 7d | Any beneficiation process at mines . | 6.5MTPA beneficiation plant has been installed within the lease area. The process includes mainly crushing of ROM, grinding of ROM, Classification , differential flotation cell etc. | Beneficiation has been observed as per proposal. | NIL. |

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| 7e | General remarks of inspecting officer on Mineral conservation and beneficiation issues | Beneficiation of ROM has been proposed and process includes grinding of ROM, Classification , differential flotation cell etc. | Beneficiation has been observed as per proposal. | NIL. |
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Environment:

| Sl.No. | Item | Propasals | Actual work | Remarks |
|--------|--|--|---|---------|
| 8a | Separate removal and utilization of topsoil (Rule 32) | No proposal of top soil generation during 2018-19. However, it is proposed that the top soil will be preserved whenever encountered and will be utilized for rehabilitation purpose. | Open pit mine has been closed since March 2018. Hence, no fresh generation of top soil and no fresh area have been developed. | NIL. |
| 8b | Concurrent use or storage of topsoil | No proposal of top soil generation during 2018-19. However, it is proposed that the top soil will be preserved whenever encountered and will be utilized for rehabilitation purpose. | Open pit mine has been closed since March 2018. Hence, no fresh generation of top soil and no fresh area have been developed. | NIL. |
| 8c | Separate dumps for overburden, waste rock, rejects and fines (Rule 33) | Mineral and Overburden is proposed stacked separately at PCH pad and at proposed waste dump respectively. | Mineral stacked at PCH pad and Overburden has been stacked at waste dumps distance away from each other. | NIL. |

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| 8d | Use of overburden, waste rock, rejects and fines dumps for restoring the land to its original use | No proposal of use of waste rock for restoring the land to its original use. However, waste rock is proposed to backfilled in stopped out area. | U/G stopes back filled after extraction of minerals. | NIL. |
| 8e | Phased restoration, reclamation and rehabilitation of lands affected by mining operations (Pits, dumps etc) | Plantation in 20 Ha area at waste dump to rehabilitate. | Plantation has been observed over the waste dump area. | NIL. |
| 8f | Baseline information on existence of plantation and additional plantation done (Rule 41) | 20000 number of saplings have been proposed to plant. | 20000 saplings have been planted during the reporting year. | NIL. |
| 8g | Survival rate | No specific proposal. | 90% | NIL. |
| 8h | Water sprinkling on roads to control airborne dust | To control the air born dust particle, water sprinkling has been proposed over the roads. | Water sprinkling has been observed with water sprinklers (capacity 40KL) on haul roads to control airborne dust due to mining activity. | NIL. |
| 8i | General remarks of inspecting officer on aesthetic beauty in and around mines area | Proposal of plantation of 20000 sapling over waste dump has been given to improve the aesthetic beauty of the mine. | The area around the mine is very well maintained. The propaganda for safety and environment is well displayed by posters and visual boards. Planation has been carried out as per proposal. | NIL. |

Compliance of Rule 45:

| Sl.No. | Item | Propasals | Actual work | Remarks |
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| 9a | Status of submission of Monthly and Annual returns | As per rule 45 monthly and annual return to be submitted by the lessee. | Monthly and annual return has been filed by the lessee. | NIL. |
| 9b | Scrutiny of Annual return for information on Mining Engineer, Geologist and Manager | Information of Mining Engineer, Geologist and Manager has been furnished. | Mining Engineer, Geologist and Manager has been appointed in the mine. | NIL. |
| 9c | Scrutiny of Annual return on land use pattern for area under pits, reclaimed area, dumps etc. | Opencast working: 175.12 Ha., waste disposal: 307.76 Ha., Occupied by plant, buildings, residential, welfare buildings & roads: 92.64 Ha., Tailing disposal: 181.19 Ha. | The area mentioned under different heads found to be in order. | NIL. |
| 9d | Scrutiny of Annual return on afforestation | 20000 number of saplings have been planted. | Found to be in order. | NIL. |
| 9e | Scrutiny of Annual return on mineral reject generation (Grade and quantity) | No mineral reject generation. | Mineral reject has not been generated. | NIL. |
| 9f | Scrutiny of Annual return on ROM stock and/or graded ore | ROM stock: 6131 tonnes, Closing stocks of concentrates: Pb-424 tonnes, Zn-9794 tonnes. | ROM stock: 6131 tonnes, Closing stocks of concentrates: Pb-424 tonnes, Zn-9794 tonnes. | NIL. |

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| 9g | Scrutiny of Annual return on sale value, Ex. Mine price and production cost | Ex-mine price: 2276.00 per tonne, no sale value as the mine is for captive purpose, Cost of production furnished is: 9529.93 per tonne. | As a captive mine, the cost of production and Ex-mine price should be same. Violation in difference in figure of ex-mine price and Cost of production has been issued vide letter dated 04/07/2019. | NIL. |
| 9h | Scrutiny of Annual return on fixed assets | The value of fixed assets furnished is Rs. 40757258107.00 | The information furnished appears to be correct. | NIL. |
| 9k | Scrutiny of Annual return on mining machineries | BACK HOE, DUMPER, WHEEL LOADER, DOZER, ROCK DRILL, LHD, AIR COMPRESSOR, WINDING ENGINE etc. | The information furnished appears to correct. | NIL. |

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 |
| MCDR17 | Rule 11(1) | 02-JUL-19 | | | |
| MCDR17 | Rule 45(7)(a) | 02-JUL-19 | | | |

Date :

(Kotriwal B.L.)

Indian Bureau of Mines