

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

MCDR INSPECTION REPORT

Gandhinagar regional office

Mine file No : RAJ/RJS/LZ-1

Mine code : 34RAJ27002

- (i) Name of the Inspecting : **DJ03**) **DILIP JAIN**
Officer and ID No.
- (ii) Designation : Senior Mining Geologist
- (iii) Accompanying mine : Sh. Sanath Sharma
Official with
Designation
- (iv) Date of Inspection : 19-JUN-19
- (v) Prev.inspection date : 16-MAR-19

PART-I : GENERAL INFORMATION

1. (a) **Mine Name** : **SINDESAR KHURD**
- (b) **Registration NO.** : **IBM/421/2011**
- (c) Category : A Mechanised
- (d) Type of Working : Underground
- (e) Postal address
- State : RAJASTHAN
- District : RAJSAMAND
- Village : SINDSAR KHURD
- Taluka : RAIL MAGRA
- Post office : DARIBA
- Pin Code : 313211
- FAX No. : 02952-265143
- E-mail : sunil.duggal@vedanta.co.in
- Phone : 02952-265275
- (f) Police Station : Dariba
- (g) First opening date : 09-AUG-00
- (h) Weekly day of rest : SUN
2. Address for : RAJSAMAND
correspondance Tehsil - Railmagra
Rajasthan
3. (a) Lease Number : RAJ1749
- (b) Lease area : 199.84
- (c) Period of lease : 30
- (d) Date of Expiry : 19-MAR-29
4. Mineral worked : LEAD & ZINC ORE Main

5. Name and Address of the

Lessee : Hindustan Zinc Ltd.
 Yashad Bhavan Udaipur
 UDAIPUR RAJASTHAN
 Phone:
 FAX :

Owner : SUNIL DUGGAL
 YASHAD BHAWAN UDAIPUR
 UDAIPUR RAJASTHAN
 Phone: 0294-6604120
 FAX : 0294-6604120

Agent : Sanjay Kumar Sharma
 Sindesar Khurd Lead Zinc
 Mine Tehsil-Railmagra
 RAJSAMAND RAJASTHAN
 Phone: 8003097074
 FAX :

Mining Engineer
 Name : Dushyant Tailor, Full Time
 Qualification : BE(Mining) & FCC(U/R)
 Appointment/ : 12-JUL-18
 Termination date

Mining Engineer
 Name : RAM MURARI, Full Time
 Qualification : BE (MINING)
 Appointment/ : 15-NOV-14 11-JUL-18
 Termination date

Geologist
 Name : LALIT CHORDIA, Full Time
 Qualification : MSC.(Geo.)
 Appointment/ : 29-NOV-11 11-JUL-18
 Termination date

Geologist
 Name : Gaurav Mathur, Full Time
 Qualification : MSC(Tech) Applied Geology
 Appointment/ : 12-JUL-18
 Termination date

Manager
 Name : Sanath Kumar
 Qualification : BE(Mining) & FCC(U/R)
 Appointment/ : 09-JUL-18 01-JUL-19
 Termination date

Manager
 Name : RADHA RAMAN
 Qualification : B E Mining
 Appointment/ : 02-JUL-19
 Termination date

Manager

Name : SANJAY KUMAR SHARMA
Qualification : BE (MIN.)
Appointment/ : 23-JAN-14 08-JUL-18
Termination date

6. Date of approval of Mining : Mining Scheme rule 12 MCDR1988 10-JUL-02
Plan/Scheme of Mining Mining Scheme rule 12 MCDR1988 27-JUL-06
Modif.of approved Mining Plan 29-JAN-09
Mining Scheme rule 12 MCDR1988 23-JUL-13
MP modif under 17(3) MCR 2016 01-DEC-17

PART - II : OBSERVATION/COMMENTS OF INSPECTING OFFICERS

Exploration :

Sl.No.	Item	Proposals	Actual work	Remarks
1a	Backlog of previous year	A total of 850 BH have been proposed during the year 2018-19.	A total of 618 BH have been drilled during the year 2018-19.	Violation for less drilling issued vide letter of even number dated 26/07/2019.
1b	Exploration over lease area for geological axis 1 or 2	To convert resource to reserve and explore the Ore Zone in depth, a total of 4125 number of BH from surface and UG have been proposed during the plan period from 2018-19 to 2022-23.	A total of 618 BH have been drilled during the year 2018-19.	Violation for less drilling issued vide letter of even number dated 26/07/2019. Entire lease area has been explored under G1/G2 level of exploration.
1c	Exploration Agencies and Expenditure in lakh rupees during the year	No specific proposal of exploration agency and expenditure.	Hindustan Zinc Limited & Hardrock Rohita Engineering Co. and TDMA Expenditure: Around 25 Crore.	NIL.
1d	Balance area to be explored to bring Geological axis in 1 or 2	As per approved document entire lease explored under G1/G2 level of exploration. Drilling has been proposed to upgrade the resource and in-depth exploration.	Exploratory drilling has been carried out to upgrade resource and to explore ore body in-depth.	NIL.
1e	Balance reserve as on 01/04/20	No specific proposal for reserve and resource on year to year basis.	As on 01/04/2019, the position of reserve and resources are 32.52 and 81.17 million tonnes respectively.	NIL.
1f	General remarks of inspecting officers on geology, exploration etc	Exploration work has been proposed to upgrade the resource and to explore ore zone in depth.	Exploratory drilling has been carried out to upgrade resource and to explore ore body in-depth.	Violation for less drilling in comparison to the proposed drilling has been issued vide letter dated 26/07/2019.

Development :

Sl.No.	Item	Propasals	Actual work	Remarks
2a	Location of development w.r.t.lease area	A total including horizontal and vertical development of 33676 mts has been proposed during the year 2018-19 at different levels.	Against the proposed development, 21410 mts of the development has been achieved.	Violation for less development has been issued on dated 26/07/2019.
2b	Separate benches in topsoil, overburden and minerals (Rule 15)	No proposal of top soil, mineral reject and OB as the operations are being carried out through UG mining method.	Mining operations are being carried out through UG mining method.	NIL.
2c	Stripping ratio or ore to OB ratio	No proposal as the Mineral is being produced through UG mining Method.	Not applicable.	NIL.
2d	Quantity of topsoil generation in m3	No proposal as the Mining is being carried out through UG method.	Not applicable.	NIL.
2e	Quantity of overburden generation in m3	No propasal of OB generation. However, during the year 2018-19, a total of 1627790 tonnes of waste has been proposed to generate.	During the year 2018-19, a total of 587996 tonnes of waste has been generated.	Less generation of waste is in account of less development.
2f	General remarks of inspecting officers on development of pit w.r.t. type of deposit etc	The mine is proposed to be developed through UG mining Method.	Mining operations are being carried out through UG method.	As the deposit is dipping vertical to sub-vertical and occurs at sub-surface. The UG mining method is suitable for exploitation of mineral.

Exploitation:

Sl.No.	Item	Propasals	Actual work	Remarks
3a	Number of pit proposed for production	<p>During the year 2018-19 following stopes have been proposed:</p> <p>Block 425-315 mRL:VP1009,VP110,VP98, VP12, VP23,VP41,VP65 ,VP87, VP76, Block: 290-160mRL: S13,AP14, AP15, B Block: BP01,BP02,BP03 , BP08,BP09,BS03 ,BS05& BS06. Block SKA2: 2AP01,2AP02,2P07,2P06, 2S01,2S02,2A1-3,P01,P02, Block SKA6: 6P01, 6P02, 6P07, 6P08, 6P03, 6P04, 6P05, 6P06, NP01,NP02,NP03 , Block: SKA14-14P4,14P5,14P6 , C Block-CP04B, CP01A-CP02A, CP03A, CP04A, CP07.</p>	<p>During the year 2018-19, production has been carried out from following stopes: Block 425-315-VP41,VP65,VP87,VP76, Block: 290-160-S13,AP14, AP15, B Block-BP01,BP02,BP03,BP08,BS06 ,BP04,BP05,BS03,BS05, SKA2-2AP01,2AP02,2P05,2P06,2P07, SKA6-6P08,6P02,6P07,6P06,6P01 , SKA14- 14P4,14P5,14P6, C Block -CP04B, CP03A, CP02A</p>	NIL.
3b	Quantity of ROM mineral production proposed	2018-19: 60,00,000 MT	2018-19: 53,10,794MT	Geotechnical issues encountered in C-Block and back filling Plant-2 commissioning delayed which had impact on back filling of primary stopes and delay in mining of secondary stopes. Resulting less production.
3c	Recovery of sailable/usable mineral from ROM production	2018-19: 60,00,000MT	2018-19: 53,10,794MT	NIL.

3d	Quantity of mineral reject generation	No proposal of Mineral Reject generation during the year 2018-19.	No mineral reject has been generated mineral excavation. However, mill tailing quantity of 4594548 MT having grade of 0.38% TMC (Pb+Zn) has been considered as mineral reject.	NIL.
3e	Grade of mineral rejects generation and threshold value declared.	No threshold value has been declared in case of Pb and Zn Mineral. No specific proposal of grade i.r.o. Mineral Reject.	Mill tailing quantity of 4594548 MT having grade of 0.38% TMC (Pb+Zn) has been considered as mineral reject.	NIL.
3f	Quantity of sub grade mineral generation.	No proposal of Sub-grade ore generation during the year 2018-19.	No Sub-grade ore has been generated during the year 2018-19.	NIL.
3g	Grade of sub grade mineral generation	No proposal.	Not applicable.	NIL.
3h	Manual / Mechanised method adopted for segregating from ROM	No specific proposal of segregation of ROM. Entire ROM is subject to the beneficiation.	ROM obtained is being beneficiated.	NIL.
3i	Any analysis or beneficiation study proposed and carried out for sub grade mineral and rejects.	No proposal of analysis or beneficiation study. Proposed to beneficiate entire ROM through well-defined process like Crushing, grinding, flotation cell, Pb-Zn concentrate thickening, filtration section, Tailing thickening, dewatering etc.	Beneficiation of ROM is being carried out as per proposal.	NIL.

3j	Provision of drilling and blasting in mineral benches	No proposals as operations are proposed through underground mining method. Under Ground - Drilling pattern in ore- Burn Cut method of development, Drilling pattern in Stopes- Ring/parallel holes drilling.	The drilling and blasting is being carried out as per proposal	NIL.
3k	Provision of mining machineries in mineral benches	Dumper, Laud haul dumper, LPDT, Road grader, Rock Drill, Air Compressor Blast Hole Drill, Other HEM Machinery etc.	LHD, LPDT, Dumper, Explosive Van, Rock Drill, Blast Hole Drill, Water Tanker, Pumps, Air Compressor, Ventilation Fan etc.	NIL.
3l	Whether height of benches in overburden and mineral suitable for method of mining proposed in MP/SOM	No proposals as operations are proposed through underground mining method.	Not applicable as operations are being carried out through UG mining Method.	NIL.
3m	Total area covered under excavation/pits	No proposal.	Not applicable.	As the operations are being carried out through UG mining method.
3n	Ore to OB ratio for the pit/mine during the year.	No proposal.	Not applicable.	As the operations are being carried out through UG mining method.
3o	Total area put in use under different heads at the end of year	As per approved RMP dated 23/01/2018, total area put under different heads at the end of the plan period i.e. 2022-23 is 121.89Ha.	Total area degraded during at the end of the year 2018-19 was 93.10 Ha.	NIL.

3p	Production of ROM mineral during the last five year period as applicable	2014-15- 2.0 mT 2015-16- 2.5 mT 2016-17- 4.5 mT 2017-18- 4.5 mT 2018-19- 6.0 mT	2013-14- 1.72 mT 2014-15-1.91 mT 2015-16-2.96 mT 2016-17- 3.66 mT 2017-18- 4.50 mT 2018-19- 5.31 mT	mT stand for million tonnes. Geotechnical issues encountered in C-Block and back filling Plant-2 commissioning delayed which had impact on back filling of primary stopes and delay in mining of secondary stopes. Resulting less production.
3q	General remarks of inspecting officers on method of mining etc.	Fully mechanised underground method of mining is proposed	Mining method is being in practice as per proposal.	NIL.

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 at existing waste dump.	Top soil and Mineral Reject has not been generated during the reporting year. Waste generated during the year has been dumped at designated place.	Due to less development less waste has been generated.
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 grids E1290-1560 to N7110-7620.	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)	Not applicable as operations are being carried through UG mining method.	Not applicable as operations are being carried through UG mining method.	NIL.
4e	Number of active and alive dumps.	One active dump on North side.	One active dump on North side.	NIL.
4f	Number of dead dumps.	No proposal.	Not applicable.	NIL.
4g	Number of dumps established.	No proposal.	Not applicable.	NIL.
4h	Whether Retaining wall or garland drain all along dumps are there.	No retaining wall and garland drain has been constructed.	No retaining wall and garland drain has been observed. The work of construction of retaining wall and garland drain was under process.	The violation of MCDR has been pointed out the lessee vide letter dated 26/07/2109.
4i	Length of Retaining wall or garland drain all along dumps	Proposed construction of 200 mts of parapet wall along the waste dump.	No retaining wall and garland drain has been observed. The work of construction of retaining wall and garland drain was under process.	The violation of MCDR has been pointed out the lessee vide letter dated 26/07/2109.
4j	Number of settling ponds	No proposal of settling tank.	Not applicable as no proposal.	NIL.
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 10 meters.	Dumping of the waste is being carried out over existing dump as per proposal. Retaining wall and garland drain has not been observed along the dump.	The violation of MCDR has been pointed out the lessee vide letter dated 26/07/2109.

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 of U/G stopes has been proposed.	Underground stopes back filled after extraction of minerals.	NIL.

5b	Area under backfilling of mined out area	During reporting year, Mine out UG stopes has been proposed for backfilling during the year 2018-19.	As per proposal Mine out stopes have been backfilled.	The paste filling plant-2 commissioning was delayed since the civil work was delayed.
5c	Concurrent use of topsoil for restoration or rehabilitation of mineral out area (Rule 32)	No proposal of top soil generation during the year 2018-19.	No top soil has been generated during the reporting year.	NIL.
5d	Total area fully reclaimed and rehabilitated	An area of 2.0 ha has been proposed to rehabilitate by the way of plantation.	Around 2.0 Ha areas has been rehabilitate by the way of plantation within lease area.	NIL.
5e	General remarks of inspecting officers on backfilling and reclamation etc.	General remarks of inspecting officer on backfilling, reclamation etc. Backfilling of U/G stopes has been proposed. No proposal of full reclamation and rehabilitation of any area.	Underground stopes back filled after extraction of minerals.	NIL.

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) .	As per approved document dated 23/01/2018, an area of 4.0 ha was available for rehabilitation .	As per approved document dated 23/01/2018, an area of 2.0 ha was proposed for rehabilitation. During the reporting year 3000 number of plant has been planted over 2.0 Ha. area.	NIL.
6c	afforestation done (ha).	2.0 Ha area was proposed for plantation.	Afforestation has been carried out over 2.0 Ha areas. However, planation has not been carried out over proposed area.	Violation of rule 11(1) for no planation over proposed area has been issued vide letter dated 26/07/2019.
6d	No. of saplings planted during the year	3000 number of saplings have been proposed to plant.	During the reporting year 3000 number of plant has been planted over 2.0 Ha. area.	NIL.
6e	Cumulative no .of plants	As per approved document dated 23/01/2018, cumulatively it is proposed to plant 15000 number of plant during 2018-19 to 2022-23.	During the year 2018-19, a total of 3000 number of plant has been planted.	NIL.
6f	Any other method of rehabilitation	Other than plantation, no specific proposal of any other method of rehabilitation .	Only plantation work has been carried out.	NIL.
6g	Cost incurred on watch and care during the year	No specific proposal for cost incurred on watch and care.	Cost incurred on watch & care During 2018-19 was Rs/-1760355.00	As reported during mine inspection.
6h	Compliance on reclamation and rehabilitation by backfilling (i) Voids available for backfilling (Lx B x D	During reporting year, Mine out UG stopes has been propsoed for backfilling during the year 2018-19.	As per proposal Mine out stopes have been backfilled.	NIL.

6i	Compliance on reclamation and rehabilitation by backfilling (ii) Voids filled by waste / tailings	A quantity of 1330000 CuM has been proposed to backfilled during the year 2018-19.	During the year, a quantity of 1179054 CuM has been backfilled as reported during Mine inspection.	NIL.
6j	Compliance on reclamation and rehabilitation by backfilling (iii) Afforestation on backfilled area	No proposal.	Not applicable.	Not applicable as operations are being carried out through UG mining Method.
6k	Compliance on reclamation and rehabilitation by backfilling (iv) Rehabilitation by making water reservoir	No proposal.	Not applicable.	Not applicable as operations are being carried out through UG mining Method.
6l	Compliance on reclamation and rehabilitation by backfilling (v) any other specific means.	Other than plantation, no specific proposal of any other method of rehabilitation	Only plantation work has been carried out.	NIL.
6m	Compliance of rehabilitation of waste land within lease (i) afforestation	An area 2.0 ha has been proposed to rehabilitate between grids N7690-7840/E1145-1220.	Plantation work has been carried out within the lease area. However, plantation has not been carried out over proposed area.	Violation of rule 11(1) for no plantation over proposed area has been issued vide letter dated 26/07/2019.
6n	Compliance of rehabilitation of waste land within lease (ii) Area rehabilitation (ha)	An area 2.0 ha has been proposed to rehabilitate.	Plantation has been carried out over an area of around 2.0 Ha.	NIL.
6o	Compliance of rehabilitation of waste land within lease (iii) Method of rehabilitation	Plantation.	Plantation.	NIL.

6p	Compliance of environmental monitoring (core zone and buffer zone)	Provision of environment monitoring stations has been given in the Core and Buffer zone.	Environment monitoring parameters are found to be within permissible limit.	NIL.
6q	General remarks of inspecting officers on PMCP compliance and progressive closure operations etc.	Plantation by 3000 saplings has been proposed over the 2.0 ha area of waste land.	Planation has been carried out within the lease area.	NIL.

Mineral Conservation:

Sl.No.	Item	Propasals	Actual work	Remarks
7a	ROM Mineral dispatch or grade-wise sorting within lease area	No proposal of grade wise sorting of ROM. Entire proposed ROM to produce is subject to well-defined beneficiation plant like Crushing, grinding, flotation cell, Pb-Zn concentrate thickening, filtration section, Tailing thickening, dewatering etc.	ROM generated is being beneficiated as per proposal.	NIL.
7b	Method of grade-wise mineral sorting i.e. manual or mechanical.	No proposal.	Not applicable.	NIL.
7c	Different grade of mineral sorted out at mines.	No proposal.	Not applicable.	NIL.

7d	Any beneficiation process at mines .	A well-defined beneficiation plant exists in within the lease area that includes Crushing, grinding, flotation cell, Pb-Zn concentrate thickening, filtration section, Tailing thickening, dewatering etc.	A 6.50mtpa capacity beneficiation plants is in operation at SK mine and the ore produced is processed by milling and sequential froth floatation to obtain lead and zinc concentrate.	NIL.
7e	General remarks of inspecting officer on Mineral conservation and beneficiation issues	Entire ROM is proposed feed to beneficiation plant.	A 6.50mtpa capacity beneficiation plants is in operation at SK mine and the ore produced is processed by milling and sequential froth floatation to obtain lead and zinc concentrate.	No issue related to beneficiation as well defined plant for ore processing is established in the mine.

Environment:

Sl.No.	Item	Propasals	Actual work	Remarks
8a	Separate removal and utilization of topsoil (Rule 32)	No occurrence of top soil has been anticipated due to underground mining operation.	No top soil has been generated during the year 2018-19.	NIL.
8b	Concurrent use or storage of topsoil	No proposals as mining operations are being carried out through UG.	Not applicable.	NIL.
8c	Separate dumps for overburden, waste rock, rejects and fines (Rule 33)	Separate dumping of waste/Ob has been proposed. No proposal of generation of rejects and fines during 2018-19.	Waste has been dumped at its designated place.	NIL.

8d	Use of overburden, waste rock, rejects and fines dumps for restoring the land to its original use	No proposal of use of overburden/ waste rock for restoring the land to its original use. However, waste has been proposed to use in backfilling of stoped out area.	Waste generated during the year has been dumped partially over designated dump and partially disposed of in underground stoped out area.	NIL.
8e	Phased restoration, reclamation and rehabilitation of lands affected by mining operations (Pits, dumps etc)	Waste land of 2.0 Ha areas has been proposed to rehabilitate during the year 2018-19 within lease area by the way of plantation.	Plantation work has been carried out within the lease area. However, planation has not been carried out over proposed area.	Violation of rule 11(1) for no planation over proposed area has been issued vide letter dated 26/07/2019.
8f	Baseline information on existence of plantation and additional plantation done (Rule 41)	No specific information for existing plantation and survival rate. During the year 3000 number saplings have been proposed to plant.	A total of 3000 number of saplings were planted. Survival rate as reported is 82%.	NIL.
8g	Survival rate	No specific proposal.	82%	As per AR 2018-19.
8h	Water sprinkling on roads to control airborne dust	To control the air born dust particle, water sprinkling has been proposed.	Water sprinkling has been observed during the mine inspection.	NIL.

8i	General remarks of inspecting officer on aesthetic beauty in and around mines area	No proposal of top soil generation. Waste rock is proposed to dump over existing waste dump and partially proposed to use in backfilling of stope out area. During the year 3000 number saplings have been proposed to plant.	No top soil has been generated during the year. Waste generated during the year has been dumped partially over designated dump and partially disposed of in underground stoped out area. A total of 3000 number of saplings were planted.	The aesthetic beauty of the mine is being improved through plantation.
----	--	---	---	--

Compliance of Rule 45:

Sl.No.	Item	Propasals	Actual work	Remarks
9a	Status of submission of Monthly and Annual returns	As per rule 45 of MCDR, 2017, holder of mining lease should submit Monthly and Annual return in prescribed format.	Monthly and Annual return of the year 2018-19 has been submitted 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 Mine Manager as per MCDR, 2017 has been appointed at the mine.	NIL.
9c	Scrutiny of Annual return on land use pattern for area under pits, reclaimed area, dumps etc.	Used for waste disposal-6.09 Ha, reclaimed and rehabilitated-25 Ha, Occupied by plant, building, workshop, roads, plantation-50.40 Ha, Other-118.353 Ha, Total-199.843 Ha	At the end of the year 2018-19, area degraded under different heads area as follows: Used for waste disposal-6.09 Ha, Mineral Storage: 07 Ha, reclaimed and rehabilitated-7.11 Ha, Occupied by plant, building, workshop, roads, plantation-50.40 Ha, Other-29.61 Ha, Total-93.10 Ha	Land use furnished is not matching with the approved document. Violation for same has been pointed out and communicated to the lessee vide letter dated 26/07/2018.

9d	Scrutiny of Annual return on afforestation	Information of 3000 number of saplings plantation of 3000 number of saplings has been furnished.	3000 number of saplings have been planted during the year.	NIL.
9e	Scrutiny of Annual return on mineral reject generation (Grade and quantity)	No Mineral Reject generation during the excavation of ore. However, mill tailing quantity of 4594548 MT having grade of 0.38% TMC (Pb+Zn) has been furnished as mineral reject.	No mineral reject has been generated during mineral excavation. Entire ROM is subject to beneficiation. Mill tailing has been furnished as Mineral reject.	NIL.
9f	Scrutiny of Annual return on ROM stock and/or graded ore	ROM closing stock: 18358 tonnes, Closing stock of concentrate: Pb- 2085.50, Zn- 7985.60	The information furnished found to be correct.	NIL.
9g	Scrutiny of Annual return on sale value, Ex. Mine price and production cost	Ex mine price- Rs. 2148.00 per tonne, Production cost per tonne- Rs. 37836.00 per tonne. Sale value-not applicable in case of captive consumption.	As the mine is captive mine, in such cases the cost of production should be the Ex-mine price.	Violation for not matching Cost of production and Ex-mine price has been issued vide letter dated 26/07/2019.
9h	Scrutiny of Annual return on fixed assets	The value of fixed asset furnished is Rs. 30174130061.00	The information furnished appears to be correct.	NIL.
9k	Scrutiny of Annual return on mining machineries	LHD, LPDT, Dumper, Explosive Van, Rock Drill, Blast Hole Drill, Water Tanker, Pumps, Air Compressor, Ventilation Fan etc.	The information furnished in respect of mining machineries appears to be correct.	NIL.

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

Violation observed				Show cause position		
Rule NO.	Issued on	Compliance on		Rule NO.	Issued on	Compliance on
MCDR17 Rule 11(1)	26-JUL-19	24-SEP-19		MCDR17 Rule 45(7)	26-JUL-19	03-DEC-19
MCDR17 Rule 45(7)(a)	26-JUL-19			MCDR17 Rule 54(c)	26-JUL-19	03-DEC-19
MCDR17 Rule 54(c)	26-JUL-19					

Date :

(DILIP JAIN)

Indian Bureau of Mines