INDIAN BUREAU OF MINES
MINERALS DEVELOPMEMT AND REGULATION DIVISION

MCDR INSPECTION REPORT

Nagpur regional office

Mine file No : MAH/YTL/LST--35/NGPIII **Mine code : 38MSH26009**

(i) Name of the Inspecting Officer and ID No. : **M017) ASHISH MISHRA**

(ii) Designation : Sr. Asst. Contrl. Mines

(iii) Accompaning mine Official with Designation : Shri Kanchan Kumar, Mining Engineer

(iv) Date of Inspection : 19/02/2019

(v) Prev.inspection date : 05/10/2018

PART-I : GENERAL INFORMATION

1. (a) **Mine Name** : **SINDOLA**

(b) Registration NO. : **IBM/256/2011**

(c) Category : A Mechanised

(d) Type of Working : Opencast

(e) Postal address

State : MAHARASHTRA
District : YEOTMAL
Village : SINDOLA
Taluka : WANI
Post office : SINDOLA MINES CEMENTNAGAR
Pin Code : 442502
FAX No. : 07172--75165
E-mail :
Phone : 07172--75026

(f) Police Station :

(g) First opening date : 01/01/1985

(h) Weekly day of rest : WED

2. Address for correspondance :

3. (a) Lease Number : MSH0016
(b) Lease area : 840.83
(c) Period of lease : 64
(d) Date of Expiry : 31/03/2030

4. Mineral worked : LIMESTONE Main

5. Name and Address of the

Lessee	:	M/S CHANDA CEMENT WORKS (ACC) CEMENT NAGAR, DISTT. CHANDRAPUR (MS) - 442 502 CHANDRAPUR MAHARASHTRA Phone:07172 - 75026 FAX :07172 - 75165
Owner	:	Shri M.L.Narula, Director. M/s Associated Cement Co GREATER BOMBAY MAHARASHTRA Phone: FAX :
Agent	:	Shri S.Nandakumar PO- Sindola Mines Distt. Yavatmal (MS) YEOTMAL MAHARASHTRA Phone: 07172- 75178 FAX :
Mining Engineer		
Name	:	Shri S.Natraj Iyer,Full Time
Qualification	:	B.E. Mining
Appointment/ Termination date	:	

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

Mining Scheme rule 12 MCDR1988	08/01/2001
Modif.approved Mining Scheme	02/12/2003
Modif.approved Mining Scheme	10/09/2005
Mining Scheme rule 12 MCDR1988	16/08/2010
Mining Scheme rule 12 MCDR1988	16/10/2015

PART - II : OBSERVATION/COMMENTS OF INSPECTING OFFICERS

Exploration :

Sl.No.	Item	Proposals	Actual work	Remarks
1a	Backlog of previous year	No backlog for exploration	Nil	Last SOM was approved for the period 2015-16 to 2019-20 in which 14 boreholes with 1300 meterage at 200 m X 200 m grid were proposed to be drilled in the year 2015-16. The exploration proposed has already been completed in the year 2015-16.
1b	Exploration over lease area for geological axis 1 or 2	G1, G2 & G3	As per the proposals	G1 has been considered for the area where closed spaced drilling is already completed, G2 has been considered for wide spaced drilled area (more than 200 m X 200 m to 400 m X 400 m grid) and G3 has been considered for the area falling between extreme borehole and lease boundary. It was advised to carry out detailed exploration in terms of Rule 12 of MCDR'2017. It was informed that suitable proposals shall be included in the next plan period and exploration in terms of Rule 12 shall be completed.

1c	Exploration Agencies and Expenditure in lakh rupees during the year	Nil for the year 2017-18	Nil	Till date, exploration has been done in the lease in various stages since grant, which has been done by Raw Materials and Mine Planning Division of M/s ACC Ltd. and expenditure incurred till date is around Rs 2.80 Cr.
1d	Balance area to be explored to bring Geological axis in 1 or 2	No such proposals and approximately complete potentially mineralized part of the area has been proved under G-1 level of exploration along the strike. Depth persistancy is yet to be established due to which, reserves/resources are reported under G-1, G-2 and G-3 axis.	As per the proposals.	The orebody in the area is having a dip of 60 degree to 80 degree and at some places, it is vertical also. Thus, hangwall and footwall contacts have been established through exploration along the strike of the orebody. Approximately, 107 ha area was proved to be potentially mineralized upto 56 m depth (206 mRL to 150 mRL) through exploration.
1e	Balance reserve as on 01/04/20		Balance reserves/resources as on 01.04.2018: 111- 24889096 T 122- 2940000 T 211- 12470000T 221- 17340000 T 222- 74830000 T 333- 3500000 T	

1f	General remarks of inspecting officers on geology, exploration etc	Limestone occuring in the area is sandwiched between waste rock of purple shale and flaggy siliceous Limestone. There are mainly 3 bands of Limestone occuring in the area which are Western (CaO ~46%), Middle (CaO ~46%) and Eastern (CaO ~45.8%). Argillaceous or Flaggy Limestone Band is present between Western and Middle Bands and Siliceous band is between Middle and Eastern Bands. Quality of these two bands is marginal (~34% CaO) as per the threshold value.	Limestone in the lease area is narrow and extends over 11.3 km along its strike. The area has been explored with 174 Core and 67 DTH bore holes. Topography is having mounds and general RL is around 200-206 mRL. The area has been proved upto a depth of 150 mRL. Average grade of Limestone in the area is 46% CaO, 1% MgO and 11.6% SiO2. Western, Flaggy, Middle, Siliceous & Eastern Limestone bands are occurring in sequence having width of 20-30m, 40-100 m & 15-20 m for rest 3 bands respectively.

Development :

Sl.No.	Item	Propasals	Actual work	Remarks

2a	Location of development w.r.t.lease area	Western Shale: ML56 to ML 67 (206-198 mRL Bench & 198-190 mRL Bench) and ML 66 to ML 69 (198-190 mRL Bench) Flaggy Limestone: ML 54 to ML 57 (206-198 mRL Bench & 198-190 mRL Bench) and ML 66 to ML 69 (198-190 mRL Bench) Siliceous Limestone: ML 54 to ML 57 (206-198 mRL Bench & 198-190 mRL Bench)	Development is as per the proposals, but lagging due to the occurrence of orebody which is almost vertical in most of the part of the lease area.	The lease area has been divided into 103 nos. of cross sections at 100 m intervals namely ML-1 to ML-103 from North to South.
2b	Separate benches in topsoil, overburden and minerals (Rule 15)	Yes, separate benches in top soil (wherever occurring), overburden/waste and minerals are proposed.	Yes. Average bench height is 8 m and wherever required, sub-benches are made to avoid mixing of waste into the minerals excavated. Total 3 benches in ore and 2 benches in waste are there with deepest working at around 35 m.	
2c	Stripping ratio or ore to OB ratio	1:0.6	1:0.835 (ROM: 255271 T and Overburden: 213241 cuM)	Stripping ratio was on higher side due to the orientation of orebody.
2d	Quantity of topsoil generation in m3	2017-18: 4365 cuM	Actual generation is about 4000 cuM.	
2e	Quantity of overburden generation in m3	2017-18: 237535 cuM	2017-18: Actual generation is 213241 cuM	

2f	General remarks of inspecting officers on development of pit w.r.t. type of deposit etc		Deposit occuring in the area is geologically disturbed and Limestone is occuring in 3 separate bands lying between shale. Two intermediate bands with high Silica is also occuring which are of marginal grade and being stacked as sub-grade. Hence, pit is developed accordingly to excavate three bands simultaneously so that quality of ROM and graded ore can be maintained as per the requirement of Cement Plant for which the mine is captive.

Exploitation:

Sl.No.	Item	Propasals	Actual work	Remarks
3a	Number of pit proposed for production	One pit	One pit is being worked.	
3b	Quantity of ROM mineral production proposed	2017-18: 600000 T	2017-18: 255271 T	Lower production as the mineral in the area is of inferior grade and is utilized at cement plant after blending with the ore excavated in Govari mine of M/s ACC ltd.

3c	Recovery of sailable/usable mineral from ROM production	60% of the excavated ROM is clean ore and 40% is mineral rejects. (For 2017-18, ROM: 409800 cuM, Ore; 245800 cuM and Mineral rejects: 164000 cuM)	75% (ROM: 255271 T and Mineral Rejects: 64000 T, as per the annual returns)	
3d	Quantity of mineral reject generation	2017-18: 164000 cuM	2017-18: 64000 T	Lower production and generation of mineral rejects as the mineral in the area is of inferior grade and is utilized at cement plant after blending with the ore excavated in Govari mine of M/s ACC ltd.
3e	Grade of mineral rejects generation and threshold value declared.	34%-42% CaO and High Silica	36%-39% CaO, SiO2 14-17%	
3f	Quantity of sub grade mineral generation.	No such proposals	Nil	
3g	Grade of sub grade mineral generation	Not applicable	Nil	
3h	Manual / Mechanised method adopted for segregating from ROM	Separate benches in mineral rejects, hence no requirement for sorting.	ROM is crushed and dispatched to cement plant and mineral rejects are stacked separately.	
3i	Any analysis or beneficiation study proposed and carried out for sub grade mineral and rejects.	Nil	Nil	ACC has a separate division for R & D and no such information was available at the mine regarding any study.

3j	Provision of drilling and blasting in mineral benches	Yes	Yes 1 Rock Drill of IR make (ICM260, non-electric) having 115 mm dia is deployed in the mine for the purpose. Drill holes for 8-9 m are being drilled with 5% subgrade drilling with application of wet drilling methods to avoid any dust. Spacing X Burden is being kept at around 5-6 m X 3-4 m. SME is being used for blasting alongwith NONEL. 70% of the blast holes are being charged with explosives and rest 30% are being filled and stemmed with soil for effective blasting.	
3k	Provision of mining machineries in mineral benches	Yes	Yes One Back hoe with 4.5 cuM capacity Two Dumpers with 65 T capacity One Rock Drill with 115 mm dia One Dozer 320 HP One Wheel Loader with 5.2 cuM capacity with auxilliary equipments like Jeep, Truck, Tractor, Explosive Van and Pumps for dewatering	
3l	Whether height of benches in overburden and mineral suitable for method of mining proposed in MP/SOM	8.0 m Bench height is proposed	Average bench height observed is 8.0 m.	Bench height has been selected as per the mechanization and its suitable as per the method of mining proposed i.e. Category A, Mechanized working.

3m	Total area covered under excavation/pits	As per the Modified Mining Plan approved for the period 2015-16 to 2019-20, Area under pits at the start of plan period was 67.38 ha and additional requirements during the plan period is 5.14 ha.	As per the star rating template for the mine for 2017-18, area put to use for excavation/pits at the start of the year was 70.90 ha. Additional area of 0.90 ha was broken in the year 2017-18. Thus, at the end of the year 2017-18, area under excavation/ pits is 71.80 ha.	
3n	Ore to OB ratio for the pit/mine during the year.	1:0.6	1:0.835 (ROM: 255271 T and Overburden: 213241 cuM)	
3o	Total area put in use under different heads at the end of year		As on 31.03.2018, Area under: Mining/ Pits: 71.80 ha Mineral Storage: 1.90 ha Roads: 4.25 ha Infrastructure: 3.09 ha OB/ Waste Dumps: 25.31 ha Top Soil Stack: 0.80 ha Total Area put to use: 107.15 ha	Out of the waste dump area of 25.31 ha, 6.83 ha area was already reclaimed and rehabilitated between sectional lines ML-90 to ML-99.
3p	Production of ROM mineral during the last five year period as applicable	2016-17: 600000 T 2015-16: 600000 T 2014-15: 600000 T 2013-14: 600000 T 2012-13: 600000 T	2016-17: 564875 T 2015-16: 570758 T 2014-15: 569632 T 2013-14: 366512 T 2012-13: 269336 T	

3q	General remarks of inspecting officers on method of mining etc.			Method of mining is category A mechanized and is as per the mechanization and capital investments as well as requirements of the Cement Plant for which the mine is captive. Further, Production and development in the mine is highly dependent on another mine Govari (558.90 ha) of ACC Ltd as the grade generated at Sindola Mine is inferior to Govari. To maintain the feed to the cement plant with optimum quality & quantity, development & production is being monitored using block modelling softwares.

Solid Waste Management - Dumping:

Sl.No.	Item	Propasals	Actual work	Remarks
4a	Separate dumping of topsoil, OB and mineral rejects (Rule 32,33)	Yes	Yes, separate dumping for top soil (wherever generated), OB/waste and mineral rejects is being practiced.	

4b	Location of topsoil, OB and mineral reject dumps	Top soil dump: In the extreme southern part of the lease area between ML-98 to ML-101 (One Dump) Waste Dumps: In between ML-54 to 58, ML-71 to ML-75 (two locations proposed for dumping of waste during the approved plan period of 2015-16 to 2019-20); Mineral Rejects: ML-66 to ML-70 (one location proposed for the approved plan period)	Existing Dumps as on date of inspection- Top soil dump: In the extreme southern part of the lease area between ML-98 to ML-101 (One Dump) Waste Dumps: In between ML-53 to 55, ML-61 to ML-66, ML-66 to ML-69 (two scattered dumps), ML-75 to ML-79, ML-90 to ML-99 (6 scattered dumps); Mineral Rejects: Between ML-67 to ML-69 (approximately)	
4c	Number of dumps within lease area and outside of lease area	Total 13 dumps (One top soil, One MIneral rejects and rest OB/Wsate dumps); all within lease area.	All dumps are located within the lease area as per the proposals.	
4d	Location of dumps w.r.t. ultimate pit limit (Rule 16)	Shifting of the dumps located within pit limits shall be proposed in the next plan period (as per the approved Modified Mining Plan)	Dumps located between ML-53 to ML-70 are within the pit limits.	
4e	Number of active and alive dumps.	One Top Soil and One Mineral reject dump are active. For OB/ Waste, 5 dumps are active	As per the proposals	Active dumps are located in between ML-53 to ML-80
4f	Number of dead dumps.	6 Waste dumps are dead	As per the proposals, dumps located between ML-90 to ML-99 are dead.	

4g	Number of dumps established.	All 6 dead dumps are already established by plantation	As per the proposals, area covered by these dumps i.e., 6.83 ha is already reclaimed and rehabilitated.	
4h	Whether Retaining wall or garland drain all along dumps are there.	Garland drains are proposed along the toe of the dumps.	No retaining wall was found alon the dumps, only garland drains are there. These drains are constructed along the toe of the dump and as informed, are regularly maintained.	Violation of Rule 37(2) of MCDR'2017 for not having retaining walls along the toe of the dumps.
4i	Length of Retaining wall or garland drain all along dumps	Retaining wall: Nil Garland drain: 800 m for 2017-18	Retaining Wall: Nil Garland drain: 800 m garland drain constructed/ maintained along the dumps located between ML-53 to ML-70. Overall around 2000 m garland drain has been constructed along the toe of the dumps.	
4j	Number of settling ponds	Nil	Nil	
4k	Specific comments of inspecting officer on waste dump management			Waste dump management aspect has been covered as per the proposals. The dumps are both outside and within the pit limits. Dumps within the pit limits are proposed to be shifted after 2019-20. Toe of the dumps are protected with garland drains to avoid land degradation due to wash off. Dumps in the extreme northern part have been stabilized through plantation. As no retaining wall was fount to be present, violation is issued for the compliance.

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 such proposals	Presently no area is exhausted and hence no backfilling is done or proposed. Further, even at the conceptual stage, instead of backfilling, mined out part of the lease area is proposed to be converted into a water reservoir.	
5b	Area under backfilling of mined out area	No such proposals	Nil	
5c	Concurrent use of topsoil for restoration or rehabilitation of mineral out area (Rule 32)	No such proposals	Nil	
5d	Total area fully reclaimed and rehabilitated	No such proposals	Nil	
5e	General remarks of inspecting officers on backfilling and reclamation etc.			As the area has scarcity of water, mined out pit is proposed to be converted into a water reservoir at conceptual stage and no backfilling is proposed.

Progressive Mine Clousre Plan:

Sl.No.	Item	Propasals	Actual work	Remarks
6a	Whether Annual report on PMCP submitted on time and correctly. Rule 23 E(2).	Yes	No	Violation of Rule 26(2) of MCDR'2017
6b	Area available for rehabilitation (ha) .	Nil	0.5 ha area of waste land available within the lease area has been converted into green belt between ML-60 to ML-71. 6.83 ha of Waste dump area already rehabilitated between ML-90 to ML-99.	Area available under waste land is being identified and rehabilitated under Green belt plantation.

6c	afforestation done (ha).	2017-18: 1.2 ha between ML-54 to ML-58 on Waste dump	2017-18: 1.4 ha for Waste dump as well as green belt	
6d	No. of saplings planted during the year	2017-18: 3000 saplings within lease area (over waste dump) and 500 saplings outside the lease area	2017-18: 3500 saplings (3000 over waste dump and 500 over green belt) within lease area and 500 outside the lease area	
6e	Cumulative no .of plants	Not available	190665 saplings within lease area and 7000 saplings outside the lease area	
6f	Any other method of rehabilitation	No such proposals	Nil	No other method of rehabilitation except waste dump stabilization and green belt plantation.
6g	Cost incurred on watch and care during the year	Rs 1.4 Lakh	Rs 1.4 Lakh	
6h	Compliance on reclamation and rehabilitation by backfilling (i) Voids available for backfilling (Lx B x D	No such proposals	Nil	
6i	Compliance on reclamation and rehabilitation by backfilling (ii) Voids filled by waste / tailings	No such proposals	Nil	
6j	Compliance on reclamation and rehabilitation by backfilling (iii)Afforestation on backfilled area	No such proposals	Nil	
6k	Compliance on reclamation and rehabilitation by backfilling (iv) Rehabilitation by making water reservoir	No such proposals	Nil	

6l	Compliance on reclamation and rehabilitation by backfilling (v)any other specific means.	No such proposals	Nil	
6m	Compliance of rehabilitation of waste land within lease (i)afforestation	No specific proposals	Afforestation over approximately 0.5 ha area with 500 saplings has been done.	
6n	Compliance of rehabilitation of waste land within lease (ii)Area rehabilitation (ha)	No specific proposals	2017-18: 0.5 ha	
6o	Compliance of rehabilitation of waste land within lease (iii)Method of rehabilitation	Green belt plantation	As per the proposals	
6p	Compliance of environmental monitoring (core zone and buffer zone)	Yes, monitoring of Air, Water, Noise and Ground Vibrations are being done regularly within the core zone and buffer zone	Water-7 locations, Air-4 loactions, Ground Vibration-4 locations and Noise-5 locations. Apart from this, ground vibration and noise are being analysed during each blasting.	Soil quality is also being monitored at 8 locations as and when required. Real-time monitoring is being done and data is being sent to MoEFCC.

6q	General remarks of inspecting officers on PMCP compliance and progressive closure operations etc.	PMCP operations are well managed, though the operations are a bit lagging from the proposals. Waste dump management and reclamation and rehabilitation of waste dump matured area & waste land available within the lease area are being practiced at satisfactory level. Compliance on environment monitoring in core and buffer zone as well as compliance on submission of annual report over environment monitoring is being done.

Mineral Conservation:

Sl.No.	Item	Propasals	Actual work	Remarks
7a	ROM Mineral dispatch or grade-wise sorting within lease area	ROM mineral after separate stacking of mineral rejects and after crushing is being dispatched through close circuit (belt conveyor) to the cement plant.	As per the proposals.	
7b	Method of grade-wise mineral sorting i.e. manual or mechanical.	No sorting is required as mineral rejects are separately excavated and stacked. Mechanical crushing is practiced for size reduction of Limestone.	As per the proposals.	

7c	Different grade of mineral sorted out at mines.	Cement Grade Limestone (>44% CaO, <12.5% SiO2, <2% MgO)	Cement Grade Limestone (>44% CaO, <12.5% SiO2, <2% MgO) and Mineral Rejects having 34-39% CaO and High Silica i.e. 14-17% SiO2	
7d	Any beneficiation process at mines .	No beneficiation except mechanical size reduction	As per the proposals	
7e	General remarks of inspecting officer on Mineral conservation and beneficiation issues			The only beneficiation process at mine is mechanical size reduction where Limestone is being crushed to a size of -75 mm in a closed circuit. After crushing, complete material is dispatched to Cement Plant. Hence no material loss is there. Also, marginal grade Limestone (36-39% maximum CaO, average ~34% CaO) obtained from Flaggy and Siliceous Bands are considered as Mineral rejects and are separately stacked for future usage. Hence mineral conservation aspect is satisfactory.

Environment:

Sl.No.	Item	Propasals	Actual work	Remarks

8a	Separate removal and utilization of topsoil (Rule 32)	Yes, separate removal of top soil is proposed and utilization is proposed as per the requirement, otherwise stacking of top soil is proposed.	As per the proposals, top soil is being utilized for plantation over waste dumps, if required. Otherwise, it is stacked at top soil dump located in extreme southern part of the lease area.	
8b	Concurrent use or storage of topsoil	Both	As per the proposals, top soil is being utilized for plantation over waste dumps, if required. Otherwise, it is stacked at top soil dump located in extreme southern part of the lease area.	
8c	Separate dumps for overburden, waste rock, rejects and fines (Rule 33)	Yes	Yes	No fines are there. OB/ Waste and Mineral rejects are dumped separately.
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)	Yes, Waste dump reclamation is proposed	Waste dumps that were dead, have already been reclaimed and rehabilitated (in between ML-90 to ML-99). Further, dumps upon recahing maturity are being stabilized through plantation.	

8f	Baseline information on existence of plantation and additional plantation done (Rule 41)	Yes, the information has been furnished in the mining plan for baseline information. Additional plantation is being proposed under progressive closure which is recorded in the Annual Report of PMCP.	Baseline information was furnished in the mining plan for the area. Additionally, around 3000-3500 saplings are being planted in the area per year. Till 2017-18, additional plantation carried out is approximately 190665 saplings.	
8g	Survival rate		Survival rate is around 91%	
8h	Water sprinkling on roads to control airborne dust	Yes	Yes, for the purpose, Water Tanker with 5kL capacity is deployed in the mine.	
8i	General remarks of inspecting officer on aesthetic beauty in and around mines area			The area is having forest cover of more than 190 ha. Lessee has also planted around more than 190000 saplings in the area and most of the plantation done has survived. Around the lease area, there are mostly agricultural fields for Cotton, Tur, Soyabean etc. Thus, apart from normal degradation due to mining activities, overall aesthetic beauty is good in and around the lease area.

Compliance of Rule 45:

Sl.No.	Item	Propasals	Actual work	Remarks

9a	Status of submission of Monthly and Annual returns		Annual Returns submitted online upto: 2017-18 Monthly Returns submitted online upto: March'2019	
9b	Scrutiny of Annual return for information on Mining Engineer, Geologist and Manager	Mining Engineer: Mr. Anilkumar K Ganapurapuwar Geologist: Mr.Gopinath Rangaswamy Manager: Mr. Chandresh Bohra	Correct information has been furnished for the year.	
9c	Scrutiny of Annual return on land use pattern for area under pits, reclaimed area, dumps etc.	Area under: Mining: 71.80 ha Waste Disposal: 25.31 ha Infrastructures, Roads etc: 7.34 ha	Correct information furnished as per available format in the Annual Return.	
9d	Scrutiny of Annual return on afforestation	Plantation within lease: 3000, Survival: 90% Outside lease: 500, Survival: 56%	Greenbelt plantation is not being accounted and is being done as and when the area is identified and found suitable. It was suggested to count and report the green belt plantation also in future.	Outside lease plantation couldn't be verified during the inspection.
9e	Scrutiny of Annual return on mineral reject generation (Grade and quantity)	Mineral Rejects: 64000 T, Quality: 36-39% CaO and 14-17% SiO2	Information furnished was found correct and mineral rejects dump was seen at the site.	
9f	Scrutiny of Annual return on ROM stock and/or graded ore	ROM: Opening and Closing stocks- Zero, Production- 2552710 T Graded Ore: Opening and Closing stocks- Zero, Production and Dispatches- 255271 T (Cement Grade)	The closing stock of ROM is also shown as 'Nil'. Thus, for the justification of the difference value of ROM and graded ore, to the tune of 22,97,439 tonnes, violation was issued.	As on 25.03.2019, necessary corrections have been made in the online returns and ROM prodcution figure has been corrected as 255271 T.

9g	Scrutiny of Annual return on sale value, Ex. Mine price and production cost	Sale value: Nil (Captive Usage) Ex-Mine price and Production Cost- Rs 271.72/- per T	Sale Value: Correct information furnished Ex-Mine price and Production Cost: There were some observations that need suitable correction/justifications.	Violation of Rule 45 of MCDR was observed and issued for justifications/corrections.
9h	Scrutiny of Annual return on fixed assets	Value of fixed Assets: Rs 8106000000/- Apart from this detailed value of fixed assets has been furnished for Land, Infrastructure, Plants and Machineries etc.	Depreciation is reported as Rs 20256000/- under Section 2 of Part III of the Annual Return, whereas it is considered as zero in the table for cost of production.	As mentioned in 9g, violation of Rule 45 of MCDR'2017 was issued for corrections/ justifications.
9k	Scrutiny of Annual return on mining machineries	Detailed information on machineries deployed in the mine has been furnished.	The information is as per the extent of mechanization furnished in the approved mining plan document.	

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 26(2)	13/03/2019				
MCDR17 Rule 33	13/03/2019				
MCDR17 Rule 37(2)	13/03/2019				
Rule 45(7)	13/03/2019				

Date :

(**ASHISH MISHRA**)

Indian Bureau of Mines