

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

MCDR INSPECTION REPORT

Bhubaneshwar regional office

Mine file No : ORI/IRON/SNG/MCDR-11/BBS

Mine code : 30ORI13035

- (i) Name of the Inspecting : U11) DAYANAND UPADHYAY
Officer and ID No.
- (ii) Designation : Sr. Asst. Contrl. Mines
- (iii) Accompanying mine : Shri R. R. Nayak, General Manager
Official with
Designation
- (iv) Date of Inspection : 01/09/2019
- (v) Prev.inspection date : 24/10/2018

PART-I : GENERAL INFORMATION

1. (a) Mine Name : RAIKELA & TANTRA
- (b) Registration NO. : IBM/4124/2011
- (c) Category : A Other than Fully Mech.
- (d) Type of Working : Opencast
- (e) Postal address
- State : ORISSA
- District : SUNDARGARH
- Village : RAIKELA
- Taluka : BONAI
- Post office : DENGULA
- Pin Code : 770048
- FAX No. : 06767-275621
- E-mail : penguinbbl@gmail.com
- Phone : 06767-275621
- (f) Police Station : Koira
- (g) First opening date : 01/08/1991
- (h) Weekly day of rest : SAT
2. Address for : PO.DENGULA
correspondance : VILL: RAIKELA
VIA.KOIRA,TQ.BONAI,DIS.SUNDERGARH,PIN.770048
3. (a) Lease Number : ORI0725
- (b) Lease area : 49.37
- (c) Period of lease : 30
- (d) Date of Expiry : 02/12/2036
4. Mineral worked : IRON ORE Main

5. Name and Address of the

Lessee : PENGUIN TRADING & AGENCIES LTD.
 PENGUIN TRADING AGENCIES
 CHATTERJEE INTER NATIONAL
 18 FLOOR 33AJ.N.ROAD KOLKATA
 WEST BENGAL
 Phone:033-2267866
 FAX :

Owner : PENGUIN TRADING AGENCIES
 CHATTERJEE INTERNATIONAL
 18TH FLOOR, 33A JAWAHARLAL
 NEHRU ROAD KOLKATA WEST
 BENGAL
 Phone: 033-2267866
 FAX : 033-2267866

Agent : S.K.GUPTA
 C/O RAIKELA TANTA IRON MINE
 , M/S PT&A LTD KEONJHAR
 ORISSA
 Phone: 06767 75621
 FAX : 06767 75621

Mining Engineer

Name : K. K. Sahoo, Full Time
 Qualification : AMIE
 Appointment/ : 01/10/2003
 Termination date

Geologist

Name : A K SETHI, Full Time
 Qualification : MSC (GEOLOGY)
 Appointment/ : 14/08/2014
 Termination date

Manager

Name : T. D. Behra
 Qualification : BE (MINING)
 Appointment/ : 14/08/2013
 Termination date

6. Date of approval of Mining Plan/Scheme of Mining	:	Mining Scheme rule 12 MCDR1988	08/02/2002
		Renewal under rule 24 MCR1960	28/04/2006
		Modif.of approved Mining Plan	22/12/2009
		Modif.of approved Mining Plan	28/09/2010
		Mining Scheme rule 12 MCDR1988	17/03/2011
		Modif.approved Mining Scheme	13/06/2012
		Modif.approved Mining Scheme	17/10/2014
		Mining Scheme rule 12 MCDR1988	30/12/2015
		MP modif under 17(3) MCR 2016	18/10/2017
		MP modif under 17(3) MCR 2016	17/01/2019

PART - II : OBSERVATION/COMMENTS OF INSPECTING OFFICERS

Exploration :

Sl.No.	Item	Proposals	Actual work	Remarks
1a	Backlog of previous year	No proposal.	Nil.	There is no backlog. Entire lease area 49.372 ha explored under G1 level of exploration.
1b	Exploration over lease area for geological axis 1 or 2	No proposal	Entire lease area 49.372 ha explored under G1 level of exploration.	Entire lease area 49.372 ha explored under G1 level of exploration.
1c	Exploration Agencies and Expenditure in lakh rupees during the year	Exploration not proposed.	Nil.	Entire lease area 49.372 ha explored under G1 level of exploration.
1d	Balance area to be explored to bring Geological axis in 1 or 2	No proposal.	Entire lease area 49.372 ha explored under G1 level of exploration.	Entire lease area 49.372 ha explored by 72nos. of bore holes of total 3290 meterage of drilling under G1 level of exploration.
1e	Balance reserve as on 01/04/20	As per the approved document, iron ore reserves are under 111: 17.541 million tonnes and resources under 211: 2.473 million tonnes.	Balance reserve as on 01/04/2019 under 111 category 17.07MT of Iron ore and resources 2.473 MT.	Balance reserve as on 01/04/2019 under 111 category 17.07MT of Iron ore and resources 2.473 MT.
1f	General remarks of inspecting officers on geology, exploration etc	No proposal for further exploration.	Entire lease area has been explored under G1 level of exploration.	Entire lease area 49.372 ha explored by 72nos. of bore holes of total 3290 meterage of drilling under G1 level of exploration.

Development :

Sl.No.	Item	Propasals	Actual work	Remarks
2a	Location of development w.r.t.lease area	Raikela Quarry : 230S to 120N and 74 W to 420 E & Tantra Quarry : 120N to 480N and 200E to 300E.	The development is concentrated in Raikela Quarry : 230S to 120N and 74 W to 420 E & Tantra Quarry : 120N to 480N and 200E to 300E.	The development is carried out as per proposal.
2b	Separate benches in topsoil, overburden and minerals (Rule 15)	Separate benches in OB and ore, top soil bench- nil.	Separate benches in OB and ore have been maintained.	Separate benches in OB and ore have been maintained.
2c	Stripping ratio or ore to OB ratio	1:0.470	1:485	Average stripping ratio varies due to encountered of BHJ in mineralized zone.
2d	Quantity of topsoil generation in m ³	Not proposed as the excavation is concentrated in broken up area.	Nil.	There is no top soil generation as the excavation is concentrated in broken up area.
2e	Quantity of overburden generation in m ³	260109 cu.m	306780 cu.m	OB generation is more due to encountered of BHJ in mineralized zone.
2f	General remarks of inspecting officers on development of pit w.r.t. type of deposit etc	The development is proposed in two quarries namely Raikela Quarry & Tantra Quarry.	The development is carried out in two quarries namely Raikela Quarry & Tantra Quarry.	The development is carried out as per proposal.

Exploitation:

Sl.No.	Item	Propasals	Actual work	Remarks
3a	Number of pit proposed for production	Two pits	Working is concentrated in two pit as proposed.	Working is concentrated in two quarries namely Raikela Quarry & Tantra quarry as proposed.

3b	Quantity of ROM mineral production proposed	909933 T	ROM production reported in 2018-19 is 908090T	ROM production reported in 2018-19 is 908090T
3c	Recovery of sailable/usable mineral from ROM production	842431 T	708700T	The reason for deviation is due to the change in recovery percentage of mineral reject and saleable ore in time series data for which less has modified the mining plan which was approved on 17.01.2019.
3d	Quantity of mineral reject generation	67502 T	199390T	Due to change in recovery percentage of mineral reject and saleable ore in time series data for which less has modified the mining plan which was approved on 17.01.2019.
3e	Grade of mineral rejects generation and threshold value declared.	+45%Fe-55% Fe	+45%Fe-55% Fe.	Due to change in recovery percentage of mineral reject and saleable ore in time series data for which less has modified the mining plan which was approved on 17.01.2019.
3f	Quantity of sub grade mineral generation.	67502 T	199390T	Due to change in recovery percentage of mineral reject and saleable ore in time series data for which less has modified the mining plan which was approved on 17.01.2019.

3g	Grade of sub grade mineral generation	+45%Fe-55% Fe	+45%Fe-55% Fe	Due to change in recovery percentage of mineral reject and saleable ore in time series data for which less has modified the mining plan which was approved on 17.01.2019.
3h	Manual / Mechanised method adopted for segregating from ROM	Mechanised	Mechanised	Mechanised method adopted for segregating from ROM.
3i	Any analysis or beneficiation study proposed and carried out for sub grade mineral and rejects.	Not proposed.	Only crushing and screening is being practiced at mines site.	Only crushing and screening is being practiced at mines site.
3j	Provision of drilling and blasting in mineral benches	DTH drilling of 100mm dia. Blast hole with emulsion/slurry explosive as coloumn charge and booster alongwith delay detonator.	Drilling and blasting is carried out with DTH drilling of 100mm dia. Blast hole with emulsion/slurry explosive as coloumn charge and booster alongwith delay detonator.	Drilling and blasting is carried out with DTH drilling of 100mm dia. Blast hole with emulsion/slurry explosive as coloumn charge and booster alongwith delay detonator.
3k	Provision of mining machineris in mineral benches	Shovel and dumper combination	Excavation is carried out from Shovel and dumper combination.	Excavator, Loader and Dumper are equipped to winning out the mineral.
3l	Whether height of benches in overburden and mineral suitable for method of mining proposed in MP/SOM	Bench height- 6m	Bench height is suitably matched with the excavator.	Bench height is suitably matched with the excavator.

3m	Total area covered under excavation/pits	36.770 ha proposed during approved plan period.	About 33.039 ha area has been covered under excavation pits.	About 33.039 ha area has been covered under excavation pits.
3n	Ore to OB ratio for the pit/mine during the year.	1:0.470	1:485	Average stripping ratio varies due to encountered of BHJ in mineralized zone.
3o	Total area put in use under different heads at the end of year	Total area proposed under different heads are Pit- 36.770 ha, waste dump & Backfilling- 9.149 ha, & Mineral storage 0.500 ha.	Area covered under different heads are Pit- 33.039 ha, waste dump- 5.098 ha, roads- 2.403 ha & Mineral storage- 2.604 ha.	Area covered under different heads are Pit- 33.039 ha, waste dump- 5.098 ha, roads- 2.403 ha & Mineral storage- 2.604 ha.
3p	Production of ROM mineral during the last five year period as applicable	2014-15: 945048.000 t 2015-16: 1080144.000 t 2016-17 : 829020.000 t 2017-18: 891518.000 t 2018-19 : 909933 t	2014-15 :876100.000 t 2015-16: 830722.040 t 2016-17 :764020.000 t 2017-18 :858560.000 t 2018-19 :908090.000 t	ROM Production is within the approved proposal.
3q	General remarks of inspecting officers on method of mining etc.	The working is proposed in two quarries namely Raikela Quarry & Tantra Quarry.	The ROM production has been carried out from two quarries namely Raikela Quarry & Tantra Quarry. DTH drilling of 100mm dia. Blast hole with emulsion/ slurry explosive alongwith delay detonator is being practiced for drilling and blasting.	The ROM production has been carried out from two quarries namely Raikela Quarry & Tantra Quarry. DTH drilling of 100mm dia. Blast hole with emulsion/ slurry explosive alongwith delay detonator is being practiced for drilling and blasting.

Solid Waste Management - Dumping:

Sl.No.	Item	Propasals	Actual work	Remarks
4a	Separate dumping of topsoil, OB and mineral rejects (Rule 32,33)	Separate dumping for mineral reject, OB proposed for backfilling, Top soil-nil.	OB generated during mining operation has been utilized for back filling. Mineral reject is stored at designated site.	There is no top soil generation.
4b	Location of topsoil, OB and mineral reject dumps	Mineral reject dump- S400 to S700 & E390 to E510, OB proposed for backfilling, Top soil-nil.	OB generated during mining operation has been utilized for back filling. Mineral reject is dumped at designated site.	There is no proposal of top soil generation.
4c	Number of dumps within lease area and outside of lease area	Mineral reject dump- S400 to S700 & E390 to E510 within lease area.	OB generated during mining operation has been utilized for back filling. Mineral reject is dumped at designated site.	There are one dead waste dump and two mineral reject dump.
4d	Location of dumps w.r.t. ultimate pit limit (Rule 16)	No waste dump proposal as OB proposed for backfilling.	There are one dead waste dump located at S 500 to S700 & E 406 to E 520 and two mineral reject dump located at 430S-500S & 400 E -510 E and 386N-450N & 40E-90E.	There are one dead waste dump located at S 500 to S700 & E 406 to E 520 and two mineral reject dump located at 430S-500S & 400 E -510 E and 386N-450N & 40E-90E.
4e	Number of active and alive dumps.	No waste dump proposal as OB proposed for backfilling.	There are one dead waste dump located at S 500 to S700 & E 406 to E 520 and two mineral reject dump located at 430S-500S & 400 E -510 E and 386N-450N & 40E-90E.	There are one dead waste dump located at S 500 to S700 & E 406 to E 520 and two mineral reject dump located at 430S-500S & 400 E -510 E and 386N-450N & 40E-90E.
4f	Number of dead dumps.	Not specified.	There are one dead waste dump located at S 500 to S700 & E 406 to E 520	There are one dead waste dump located at S 500 to S700 & E 406 to E 520
4g	Number of dumps established.	One dead dump.	Dead dump is stabilized by plantation.	There is one dead dump which is rehabilitated by plantation.

4h	Whether Retaining wall or garland drain all along dumps are there.	Maintenance of retaining wall and a garland drain.	Retaining wall and garland drain are maintained.	Retaining wall and garland drain are maintained.
4i	Length of Retaining wall or garland drain all along dumps	Maintenance of retaining wall and a garland drain.	Retaining wall and garland drain are maintained.	Retaining wall and garland drain are maintained.
4j	Number of settling ponds	Not proposed.	There five settling ponds exist in the lease area.	There five settling ponds exist in the lease area.
4k	Specific comments of inspecting officer on waste dump management	No waste dump proposed for backfilling.	OB generated during mining operation has been utilized for back filling.	The old dead dump is fully stabilised by lessee by coir matting and plantation.

Solid Waste Management - Backfilling:

Sl.No.	Item	Proposals	Actual work	Remarks
5a	Status of part or full extraction of mineral from mined out area before starting backfilling.	Backfilling of south-eastern part of the lease area.	Backfilling of south-eastern part of the lease area is not carried out as per proposal.	Deviation is pointed out through violation letter.
5b	Area under backfilling of mined out area	0.5 ha.	Backfilling of south-eastern part of the lease area is not carried out as per proposal.	Deviation is pointed out through violation letter.
5c	Concurrent use of topsoil for restoration or rehabilitation of mineral out area (Rule 32)	Not proposed.	Nil.	There is no proposal of top soil generation.
5d	Total area fully reclaimed and rehabilitated	0.5 ha.	Reclamation and rehabilitation of south-eastern part of the lease area is not carried out as per proposal.	Deviation is pointed out through violation letter.

5e	General remarks of inspecting officers on backfilling and reclamation etc.	Reclamation and rehabilitation of 0.5 ha in south-eastern part of the lease area.	Reclamation and rehabilitation of south-eastern part of the lease area is not carried out as per proposal.	Deviation is pointed out through violation letter.
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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).	Not specified.	Annual return on PMCP has been submitted.	Annual return on PMCP has been submitted.
6b	Area available for rehabilitation (ha) .	0.5 ha	Backfilling of south-eastern part of the lease area is not carried out as per proposal.	Deviation is pointed out through violation letter.
6c	afforestation done (ha).	0.5 ha	4000 nos of saplings have been planted by lessee in 0.5 ha area.	4000 nos of saplings have been planted by lessee in 0.5 ha area.
6d	No. of saplings planted during the year	1250 saplings.	4000 nos of saplings have been planted by lessee.	In 2018-19, 4000 nos of saplings have been planted by lessee.
6e	Cumulative no .of plants	Not specified.	Cumulative nos. of saplings planted in the lease area is about 88710.	Cumulative nos. of saplings planted in the lease area is about 88710.
6f	Any other method of rehabilitation	Backfilling of south-eastern part of the lease area.	Backfilling of south-eastern part of the lease area is not carried out as per proposal.	Deviation is pointed out through violation letter.
6g	Cost incurred on watch and care during the year	Not specified.	Around Rs 5.7 lakh cost incurred on watch and care.	Around Rs 5.7 lakh cost incurred on watch and care.

6h	Compliance on reclamation and rehabilitation by backfilling (i) Voids available for backfilling (Lx B x D	Backfilling of 0.5 ha area in south-eastern part of the lease.	Backfilling of south-eastern part of the lease area is not carried out as per proposal.	Deviation is pointed out through violation letter.
6i	Compliance on reclamation and rehabilitation by backfilling (ii) Voids filled by waste / tailings	Backfilling of 0.5 ha area in south-eastern part of the lease.	Backfilling of south-eastern part of the lease area is not carried out as per proposal.	Deviation is pointed out through violation letter.
6j	Compliance on reclamation and rehabilitation by backfilling (iii) Afforestation on backfilled area	Backfilling of 0.5 ha area in south-eastern part of the lease.	Backfilling of south-eastern part of the lease area is not carried out as per proposal.	Deviation is pointed out through violation letter.
6k	Compliance on reclamation and rehabilitation by backfilling (iv) Rehabilitation by making water reservoir	Backfilling of 0.5 ha area in south-eastern part of the lease.	Backfilling of south-eastern part of the lease area is not carried out as per proposal.	Deviation is pointed out through violation letter.
6l	Compliance on reclamation and rehabilitation by backfilling (v) any other specific means.	Backfilling of 0.5 ha area in south-eastern part of the lease.	Backfilling of south-eastern part of the lease area is not carried out as per proposal.	Deviation is pointed out through violation letter.
6m	Compliance of rehabilitation of waste land within lease (i) afforestation	Not proposed.	Nil.	There is no waste land proposal.
6n	Compliance of rehabilitation of waste land within lease (ii) Area rehabilitation (ha)	Not proposed.	Nil.	There is no waste land proposal.

6o	Compliance of rehabilitation of waste land within lease (iii)Method of rehabilitation	Not proposed.	Nil.	There is no waste land proposal.
6p	Compliance of environmental monitoring (core zone and buffer zone)	Quarterly monitoring	Quarterly monitoring of air, water and noise level are being carried out.	Quarterly monitoring of air, water and noise level are being carried out.
6q	General remarks of inspecting officers on PMCP compliance and progressive closure operations etc.	Backfilling of 0.5 ha area in south-eastern part of the lease.	Backfilling of south-eastern part of the lease area is not carried out as per proposal.	Deviation is pointed out through violation letter.

Mineral Conservation:

Sl.No.	Item	Propasals	Actual work	Remarks
7a	ROM Mineral dispatch or grade-wise sorting within lease area	Gradewise sorting	Gradewise sorting is being practiced.	Gradewise sorting is being practiced.
7b	Method of grade-wise mineral sorting i.e. manual or mechanical.	Mechanized	Mechanized	Mechanized method is practiced.
7c	Different grade of mineral sorted out at mines.	45% to 55% Fe and +55% Fe	Different grades of minerals sorted out at mines are 45% to 55% Fe and +55% Fe.	Different grades of minerals sorted out at mines are 45% to 55% Fe and +55% Fe.
7d	Any beneficiation process at mines	Not proposed.	Only crushing and screening Of ROM is being practiced.	Only crushing and screening Of ROM is being practiced.
7e	General remarks of inspecting officer on Mineral conservation and beneficiation issues	Different grades sorting of 45% to 55% Fe and +55% Fe.	Different grades of minerals sorted out at mines are 45% to 55% Fe and +55% Fe.	Different grades of minerals sorted out at mines are 45% to 55% Fe and +55% Fe.

Environment:

Sl.No.	Item	Propasals	Actual work	Remarks
8a	Separate removal and utilization of topsoil (Rule 32)	Not proposed.	Nil.	No top top soil generation is proposed.
8b	Concurrent use or storage of topsoil	Not proposed.	Nil.	No top top soil generation is proposed.
8c	Separate dumps for overburden, waste rock, rejects and fines (Rule 33)	Separate dumping mineral reject, OB proposed for backfilling.	OB generated during mining operation has been utilized for back filling. Mineral reject is dumped at designated site.	OB generated during mining operation has been utilized for back filling. Mineral reject is dumped at designated site.
8d	Use of overburden, waste rock, rejects and fines dumps for restoring the land to its original use	Backfilling.	Backfilling of south-eastern part of the lease area is not carried out as per proposal. Deviation is pointed out through violation letter.	About 1.650 ha area has been partly backfilled and rehabilitated by plantation.
8e	Phased restoration, reclamation and rehabilitation of lands affected by mining operations (Pits, dumps etc)	Backfilling.	Backfilling of south-eastern part of the lease area is not carried out as per proposal. Deviation is pointed out through violation letter.	About 1.650 ha area has been partly backfilled and rehabilitated by plantation.
8f	Baseline information on existence of plantation and additional plantation done (Rule 41)	1250 nos. of plantation.	Total 4000 nos. saplings have been planted in 2018-19. Cumulative 88710 nos. have been planted by lessee.	Total 4000 nos. saplings have been planted in 2018-19. Cumulative 88710 nos. have been planted by lessee.
8g	Survival rate	Not specified.	As reported survival rate is 80%.	As reported survival rate is 80%.
8h	Water sprinkling on roads to control airborne dust	Water sprinklers	Water sprinklers are used to control air borne dust.	Water sprinklers are used to control air borne dust.

8i	General remarks of inspecting officer on aesthetic beauty in and around mines area	1250 nos. of plantation.	Aesthetic beauty in and around mine area is maintained plantation. In 2018-19, total 4000 nos. saplings have been planted. Cumulative 88710 nos. have been planted by lessee.	Aesthetic beauty in and around mine area is maintained plantation. In 2018-19, total 4000 nos. saplings have been planted. Cumulative 88710 nos. have been planted by lessee.
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Compliance of Rule 45:

Sl.No.	Item	Propasals	Actual work	Remarks
9a	Status of submission of Monthly and Annual returns	Monthly & Annual returns are being regularly submitted by lessee.	Monthly & Annual returns are being regularly submitted by lessee.	Monthly & Annual returns are being regularly submitted by lessee.
9b	Scrutiny of Annual return for information on Mining Engineer, Geologist and Manager	The employment status of mining engineer, geologist & mine manager has been furnished in the annual return submitted for the year 2018-19.	The employment status of mining engineer, geologist & mine manager has been furnished in the annual return submitted for the year 2018-19.	The employment status of mining engineer, geologist & mine manager has been furnished in the annual return submitted for the year 2018-19.
9c	Scrutiny of Annual return on land use pattern for area under pits, reclaimed area, dumps etc.	Area covered under different heads are Pit-33.039 ha, waste dump- 5.095 ha, Reclaimed & rehabilitated- 1.650 ha & others - 10.796 ha.	Area covered under different heads are Pit-33.039 ha, waste dump- 5.095 ha, Reclaimed & rehabilitated- 1.650 ha & others - 10.796 ha.	Area covered under different heads are Pit-33.039 ha, waste dump- 5.095 ha, Reclaimed & rehabilitated- 1.650 ha & others - 10.796 ha.
9d	Scrutiny of Annual return on afforestation	Total 4000 nos. saplings within lease have been planted.	Total 4000 nos. saplings within lease have been planted.	Total 4000 nos. saplings within lease have been planted.

9e	Scrutiny of Annual return on mineral reject generation (Grade and quantity)	Mineral reject 199390T	Mineral reject 199390T	Mineral reject 199390T
9f	Scrutiny of Annual return on ROM stock and/or graded ore	Closing stock maintained, Below 55%, 55% to below 58%, 58% to below 60%, 60% to below 62%, 62% to below 65%, 65% and above.	Closing stock maintained, Below 55%, 55% to below 58%, 58% to below 60%, 60% to below 62%, 62% to below 65%, 65% and above.	Closing stock maintained, Below 55%, 55% to below 58%, 58% to below 60%, 60% to below 62%, 62% to below 65%, 65% and above.
9g	Scrutiny of Annual return on sale value, Ex. Mine price and production cost	Production cost:Rs: 1433.56	Production cost:Rs: 1433.56	Production cost:Rs: 1433.56
9h	Scrutiny of Annual return on fixed assets	Fixed asset as furnished in AR is Rs 110711324	Fixed asset as furnished in AR is Rs 110711324	Fixed asset as furnished in AR is Rs 110711324
9k	Scrutiny of Annual return on mining machineries	Crusher-150TPH-2, Excavator-1.7/0.9 cu.m-12, Loader-2.5cu.m-6, Dumper-20T-16, Dozer-1, Rockbreaker-2 etc.	Crusher-150TPH-2, Excavator-1.7/0.9 cu.m-12, Loader-2.5cu.m-6, Dumper-20T-16, Dozer-1, Rockbreaker-2 etc.	Crusher-150TPH-2, Excavator-1.7/0.9 cu.m-12, Loader-2.5cu.m-6, Dumper-20T-16, Dozer-1, Rockbreaker-2 etc.

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)	10/09/2019			

Date :

(DAYANAND UPADHYAY)

Indian Bureau of Mines