

MCDR INSPECTION REPORT**1.0 GENERAL**

SN	Particulars	Details
1	Name of inspecting office & designation	Rajesh Kumar Das, Sr. ACOM, Indian Bureau of Mines, Raipur
2	Accompanying Mine Official with Designation	1. D.K.Mahanta, G.M.(Geology & Mining) 2. B.R.Banjare, Mining Engineer.
3	Date of inspection	26.10.2021
4	Name of the Mine	Shri Bajrang Iron Ore Mines
5	Total Lease Area (Ha) with breakup of Non-forest and forest land	Forest : 75.00 Non-Forest : 0.00 Total : 75.00
6	Mine Code	30CHG08007
7	IBM Registration Number under rule 45 of MCDR, 1988	IBM/4393/2011
8	Name of the lessee, Address, phone, email and fax number	M/s. Shri Bajrang Power & Ispat Ltd Village: Borjhara, Urla-Guma Road Urla Growth Center Raipur- 493221 Chhattisgarh. Phone: 0771-4288019/29/39 Fax: 0771-4288123/2323601 Email: mining@goelgroup.co.in
9	Village	Hahaladdi & Chahchad
10	Taluka / Mandal / District	Forest Compartment: No 641(P) & 642(P) Forest Division: East Bhanupratappur Taluka: Durgukondal Dist.: Uttar Bastar Kanker
11	State	Chhattisgarh
12	Post office & PIN	Durgukondal
13	Nearest police station	Durgukondal
14	Nearest Railway station	Kewati
15	Date of Grant of Mining Lease	21/11/2014
16	Date of Execution	21/11/2014
17	Date of opening of Mine	09/02/2015
18	Date of first Renewal, if applicable and its period & expiry	Not Applicable
19	Date of second Renewal, if applicable and its period & expiry	Not Applicable
20	Date of submission of renewal application if Mining Operations are continuing under deemed extension	Not Applicable

21	Name of the Nominated Owner with Address, phone, email, fax number and date of appointment	Shri Shravan Kumar Goyal, Director Village -Borjhara, Urla-Guma Road, Urla Growth Center, Raipur (Chhattisgarh) – 492 221 Email: skgoyal@goelgroup.co.in Phone: 0771 – 4288019/ 29/ 39 Fax: 0771 – 4288123/ 2323601 Date of Appointment: 15/11/2014
22	Name of the Mine Agent with Address, phone, email, fax number and date of appointment	Shri D. K. Mahanta , GM (Geology & Mining) Village -Borjhara, Urla-Guma Road, Urla Growth Center, Raipur (Chhattisgarh) – 492 221 Phone: 0771 – 4288019/ 29/ 39 Mobile No. 9826422310 Email: dk.mahanta@goelgroup.co.in Fax: 0771 – 4288123/ 2323601 Date of Appointment: 17/11/2020
23	Name of the Mines Manager with Address, phone, email, fax number and date of appointment in mines	Shri D. N. Mohanta Kothari Vatshalya, Bhanupratappur, Kanker, Chhattisgarh - Email: debenranath1966@gmail.com Mobile No. – 6264354643 Phone: 0771 – 4288019/ 29/ 39 Fax: 0771 – 4288123/ 2323601 Date of Appointment: 03/04/2015
24	Name of the Mining Engineer, Qualification and total experience with Address, phone, email, fax number and date of appointment in mine	Shri Bhojram Banjare Qualification: B.E. (Mining) Experience: More than 13 Years Near Police Station, Durgukondal, Kanker (Chhattisgarh) - 494669 Email: banjare_br@rediffmail.com Phone: 0771 – 4288019/ 29/ 39 Fax: 0771 – 4288123/ 2323601 Date of Appointment: 25/03/2015
25	Whether Geologist and Mining Engineer appointed in mines satisfy the rule 55 & carrying out their duties as per rule 56 & 57.	Yes, Name of geologist Shri R. K. Gupta Qualification: M.Sc (Geology) Experience: More than 9 Years Kothari Vatsalya, Salihapara, Near Hospital, Banupratappur, District Kanker, (Chhattisgarh) - 494669 Email: rggeologist06@gmail.com Phone: 0771 – 4288019/ 29/ 39 Fax: 0771 – 4288123/ 2323601 Date of Appointment: 25/03/2015
26	Date of Approval of Mining Plan/Modified/ Review of Mining Plan with five-year period and specific condition, if any.	1st Mining Plan approved on dated 11/07/2008 vide letter no. KNK/FE/MPLN-995/NGP Nagpur Proposal Period: 2014-15 to 2018-19 Modified Mining Plan approved on dated 30/03/2016 vide letter no. KNK/FE/MPLN-995/NGP/2015 Nagpur Proposal Period: 2014-15 to 2018-19 No specific condition in approval letter.
27	Date of Approval of Scheme of Mining/Modified Scheme of Mining with five-year period and specific condition in approval letter, if any.	Review of Mining Plan approved on Dated – 28/02/2019 vide letter no. KNK/Fe/ MP/1191/2018/ RAIPUR/1460, Proposal Period: in approval letter 2019-20 to 2023-24 Modification in the Approved Review of Mining Plan approved on Dated – 21/04/2021 vide letter no. KNK/Fe/ MP-1270/2020-RAIPUR Proposal Period: in approval letter 2021-22 to 2023-24 No specific condition in approval letter.
28	Mineral(s) granted in lease and proved for mining	Iron Ore

29	Method of Mining(Open cast, Underground)	Open cast
30	Category (Fully Mechanised, Others or Manual)	Fully Mechanised
31	Captive/Non Captive	Captive
32	Existing EC Limit and validity	MoEF & EC Govt. of India, vide letter No. 248/EC/Kanker/795 Naya Raipur Atal Nagar, dated 18.05.2020 for production of 1.2 MTPA {1.0 MTPA(Above Threshold Value,+45%Fe) and 0.2 MTPA (Below Threshold Value,-45%Fe which is part of overburden)}
33	Status of Financial Assurance as per rule 27 of MCDR, 2017	BG No. 0853619BG0000028 , Date- 20/02/2019 Amount – 5032000/- BG. No. 3074IGPER000519, Date-27/02/2019 Amount - 9800000/- BG No. 0853621BG0000040 , Date- 09/04/2021 Amount – 1626000/- Total = 1,64,58,000/- & Valid up to 31.03.2024

Scientific Mining: 2020-21

Compliance of proposals of approved mining plan/scheme of mining. –

1.0 Exploration (2020-21)

SN	Item	Proposals	Actual work	Remarks
1a	Backlog of previous year (2019-20)	5 No of Borehole	9 No of Borehole	More than the proposal.
1b	Exploration over lease area for Geological axis 1 or 2.	Under G1 Category: 41.61 Ha Under G2 category: Ha Under G3 category: Ha Under G4 Category: Ha Non- Mineralised: 33.39 Ha	Under G1 Category: 41.61 Ha Under G2 category: Ha Under G3 category: Ha Under G4 Category: Ha Non- Mineralised: 33.39 Ha	Entire potential mineralised area has been explored under G-1
1c	Exploration Agency & Expenditure in lakh Rupees during the year	No Specific Proposal	In 2020-21 no exploration done.	
1d	Balance area to be explored to bring Geological axis in 1 or 2	5 nos bore holes	4 nos bore holes proposed in 2019-20 & 5 bore holes proposed in 2020-21 but total 9 nos bore holes completed in 2019-20	Entire potential mineralised area has been explored under G-1
1e	Balance reserves as on 01.04.2021 (in Million Tonnes)	Under (111): 4.09 Million Tonnes Under (221): 0.98 Million Tonnes	Under (111): 4.09 Million tonnes Under (221): 0.98 Million tonnes	
1f	General remarks of inspecting officer on geology, exploration etc.	The reserve has been updated & incorporated in Modification in the Approved Review of Mining Plan approved on dt.21.4.2021.		

2.0 Development (2020-21)

SN	Item	Proposals	Actual work	Remarks
2a	Location of development	N 2233122 to 2233499	N2232690 to 2233500	

	w.r.t. lease area (Range in UTM/Local Coordinate/Plot No./Location)	E 489825 to 489992 N 2232738 to 2232858 E 489710 to 489846	E 489734 to 490062	
2b	Separate benches in topsoil, overburden and mineral (Rule 13)	Separate benches were proposed for Ore & OB OB= 4 bench Ore =7 bench	Ore & OB benches are made separately OB= 4 bench Ore =7 bench	
2c	Stripping ratio or ore to OB ratio (T/m ³)	1:0.21	1:0.22	
2d	Quantity of topsoil generation in m ³	3328m ³	1134.2 m ³	Generally Morrums mixed soil is found within the lease area. & Total Quantity has been utilised in plantation purpose
2e	Quantity of overburden generation in m ³	211923.00 m ³	204152.82 m ³	
2f	General remarks of inspecting officer on development of pit w.r.t. type of deposit etc.	The development in 2020-21 is not as per proposal and there is gap between proposal and actual but same has been incorporated in Modification in the Approved Review of Mining Plan approved on dt.21.4.2021.		

3.0 Exploitation (2020-21)

SN	Item	Proposals	Actual work	Remarks
3a	Number of pits proposed for production	One	One	
3b	Quantity of ROM mineral production proposed	1000000 Tonne	932829.97 Tonne	
3c	Recovery of salable/usable mineral from ROM production	1000000 Tonne	932829.97 Tonne	
3d	Quantity of mineral reject generation	Nil	Nil	
3e	Grade of mineral reject generation and threshold value declared	Threshold value is 45% of Fe content.	Threshold value is 45% of Fe content.	
3f	Quantity of sub-grade mineral generation	Nil	Nil	
3g	Grade of sub-grade mineral generation	Nil	Nil	
3h	Manual / Mechanised method adopted for segregating from ROM	Mechanised	Mechanised	
3i	Any analysis or beneficiation study proposed & carried out for sub-grade mineral and reject	-45 Fe material (Below threshold Value) proposed for utilisation @200000 Tonne/year	Permission for the same still awaited from state Govt.	
3j	Provision of drilling & blasting in mineral benches	Deep Hole drilling was proposed keeping	Controlled blasting technique with depth	

		depth up to 6m , spacing 2.5m , burden 2.0m & blasting was proposed and rock breaker will be used for hard Ore breaking.	6 m, spacing 2.5 m & burden 2.0m has been adopted. The rock breakers have been used for hard Ore breaking.																																																																															
3k	Provision of mining machineries in mineral benches	<table border="1"> <thead> <tr> <th>Type of machinery</th> <th>Capacity of each unit</th> <th>No. of units</th> </tr> </thead> <tbody> <tr> <td>DTH Drill & Compressor</td> <td>110 mm & 450 cfm</td> <td>2</td> </tr> <tr> <td>Hydraulic Excavator</td> <td>1.67M³</td> <td>5</td> </tr> <tr> <td>Hydraulic Excavator</td> <td>1.0-1.2 M³</td> <td>2</td> </tr> <tr> <td>Dumper</td> <td>14 M³</td> <td>15</td> </tr> <tr> <td>Dozer</td> <td></td> <td>1</td> </tr> <tr> <td>Loader</td> <td>300hp</td> <td>4</td> </tr> <tr> <td>Rock Breaker</td> <td>125HP</td> <td>1</td> </tr> <tr> <td>Mobile Screening Plant</td> <td>200-250 TPH</td> <td>3</td> </tr> <tr> <td>Stationary crusher Plant</td> <td>250 TPH</td> <td>1</td> </tr> <tr> <td>Mobile crusher Plant</td> <td>150 TPH</td> <td>2</td> </tr> <tr> <td>Water Tanker</td> <td>10KL</td> <td>2</td> </tr> <tr> <td>Hydra Crane</td> <td>12T</td> <td>1</td> </tr> </tbody> </table>	Type of machinery	Capacity of each unit	No. of units	DTH Drill & Compressor	110 mm & 450 cfm	2	Hydraulic Excavator	1.67M ³	5	Hydraulic Excavator	1.0-1.2 M ³	2	Dumper	14 M ³	15	Dozer		1	Loader	300hp	4	Rock Breaker	125HP	1	Mobile Screening Plant	200-250 TPH	3	Stationary crusher Plant	250 TPH	1	Mobile crusher Plant	150 TPH	2	Water Tanker	10KL	2	Hydra Crane	12T	1	<table border="1"> <thead> <tr> <th>Type of machinery</th> <th>Capacity of each unit</th> <th>No. of units</th> </tr> </thead> <tbody> <tr> <td>DTH Drill & Compressor</td> <td>100 mm & 450 cfm</td> <td>2</td> </tr> <tr> <td>Hydraulic Excavator</td> <td>1.67M³</td> <td>5</td> </tr> <tr> <td>Hydraulic Excavator</td> <td>1.2 M³</td> <td>6</td> </tr> <tr> <td>Dumper</td> <td>25T</td> <td>29</td> </tr> <tr> <td>Dozer</td> <td>160 hP</td> <td>2</td> </tr> <tr> <td>Loader</td> <td>2.0 M³</td> <td>8</td> </tr> <tr> <td>Rock Breaker</td> <td>125HP</td> <td>2</td> </tr> <tr> <td>Mobile Screening Plant</td> <td>200-250 TPH</td> <td>3</td> </tr> <tr> <td>Stationary crusher Plant</td> <td>250 TPH</td> <td>1</td> </tr> <tr> <td>Mobile crusher Plant</td> <td>150 TPH</td> <td>2</td> </tr> <tr> <td>Water Tanker</td> <td>10KL</td> <td>2</td> </tr> <tr> <td>Hydra Crane</td> <td>12T</td> <td>1</td> </tr> </tbody> </table>	Type of machinery	Capacity of each unit	No. of units	DTH Drill & Compressor	100 mm & 450 cfm	2	Hydraulic Excavator	1.67M ³	5	Hydraulic Excavator	1.2 M ³	6	Dumper	25T	29	Dozer	160 hP	2	Loader	2.0 M ³	8	Rock Breaker	125HP	2	Mobile Screening Plant	200-250 TPH	3	Stationary crusher Plant	250 TPH	1	Mobile crusher Plant	150 TPH	2	Water Tanker	10KL	2	Hydra Crane	12T	1	
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3l	Whether height of benches in overburden and mineral suitable for method of mining proposed in MP/SOM	Yes, it is proposed to keep the bench height up to 6mtr for both Ore & OB benches.	The bench height is broadly as per proposal but some places benches are collapsed and two three benches merged together.																																																																															
3m	Total area covered under excavation/pits	33.560 Ha. up to the end of plan period	12.650 Ha.																																																																															
3n	Ore to OB ratio for the pit/mine during the year	1:0.21	1:0.22																																																																															
3o	Total area put in use under different heads at the end of year	Area after plan period: Area under Mining – 33.56 Ha Waste Dump Site – 15.90 Ha Mineral Storage – 3.10 Ha Infrastructure, Workshop, Administrative building etc – 0.29 Ha Road – 2.70 Ha Mineral Separation Plants – 0.51 Ha.	Area under Mining – 12.65 Ha Waste Dump Site – 7.38 Ha Mineral Storage – 3.10 Ha Infrastructure, Workshop, Administrative building etc – 0.29 Ha Road – 2.70 Ha Mineral Separation Plants – 0.51 Ha.																																																																															
3p	Production of ROM mineral during last five-year period, as applicable (in Metric Tonnes)	2016-17: 499012 MT 2017-18: 600000 MT 2018-19: 600000 MT 2019-20: 800000 MT 2020-21:1000000 MT	2016-17: 249998.80 MT 2017-18: 331787.11 MT 2018-19: 593100.00 MT 2019-20: 599996.87 MT 2020-21: 932829.97 MT																																																																															

3q	General remarks of inspecting officer on method of mining etc.	The method of mining is broadly as per proposal open cast by using shovel- Dumper combination and deep hole drilling blasting.
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4.0 Solid Waste Management-Dumping (2020-21)

SN	Item	Proposals	Actual work	Remarks
4a	Separate dumping of topsoil, OB & mineral reject (Rule 36, 37)	Separate dumping for Topsoil &OB are proposed in different location. No mineral reject generation is proposed.	Mostly the top soil are utilized for afforestation and waste dumping is br	Entire Quantity of Top soil has been utilised in plantation purpose
4b	Location of topsoil, OB & mineral reject dumps (Range in UTM/Local Coordinate/Plot No./Location)	OB Dump Proposed Location: N2232180 to 2232520, E 489632 to 489800 No mineral reject dump proposed.	OB Dump Actual Location: N2232180 to 2232462, E 489680 to 489998 No mineral reject dump generated.	
4c	Number of dumps within lease area and outside lease area	01 no of dumps within the lease area	01 Nos of Major Dumps within Lease area	
4d	Location of dumps w.r.t. ultimate pit limit (Rule 14)	Proposed beyond ultimate pit limit.	Situated beyond ultimate pit limit.	
4e	Number of active & alive dumps	01 No	01 No	
4f	Number of dead dumps	Nil	Nil	
4g	Number of dumps stabilised	Nil	Nil	
4h	Whether Retaining wall or garland drain all along dumps are there	Yes,	During mine visit it was observed that some places on toe of dump still retaining wall not constructed.	.
4i	Length of Retaining wall or garland drain all along dump	Not mentioned specifically	Total 620 m retaining wall & 684 m of Garland drain has been constructed around dump	
4j	Number of settling ponds	Nil	Nil	
4k	Specific comments of inspecting officer on waste Dump Management	The Dump management is not proper and some places retaining wall and stabilisation of dump is not proper.		

5.0 Solid Waste Management-Backfilling (2020-21)

SN	Item	Proposals	Actual work	Remarks
5a	Status on part or full extraction of mineral from mined out area before starting backfilling	Backfilling has not been proposed during plan period.	Backfilling has not been started because the part or full mineralised area has not been mined out completely& not	

			matured for backfilling	
5b	Area under backfilling of mined out area	No Such Proposal	Not applicable.	
5c	Concurrent use of topsoil for restoration or rehabilitation of mined out area (Rule 36)	No Such Proposal	Not applicable.	Very less lateritic soil has been found and same has been utilised for plantation.
5d	Total area fully reclaimed & rehabilitated	No Such Proposal	Not applicable.	
5e	General remarks of inspecting officer on backfilling, reclamation etc	The area is still not matured for backfilling		

6.0 Progressive Mine Closure Plan (2020-21)

SN	Item	Proposals	Actual work	Remarks
6a	Whether Annual report on PMCP submitted on time and correctly - Rule 23. Details should be given in the format as given in Annexure-20.	To be submitted on or before 1 st July,2021	Annual report on PMCP for the year 2020-21 has been submitted on time i.e. 15.06.2021.	
6b	Management of worked/mined out benches i) Area available for rehabilitation (ha) ii) Afforestation done (ha) iii) No. of saplings planted during the year iv) Cumulative no. of plants v) Any other specific method of rehabilitation vi) Cost incurred on watch & care during the year	No proposal No proposal No proposal No proposal No proposal	No work done No work done No work done No work done No work done	
6c	Compliance on reclamation and rehabilitation by backfilling i) Voids available for backfilling (L X B X D) ii) Void filled by waste/tailings iii) Afforestation on the backfilled area iv) Rehabilitation by making water reservoir v) Any other specific means	No proposal No proposal No proposal No proposal No proposal	No work done No work done No work done No work done No work done	Area not matured for reclamation and rehabilitation.
6d	Compliance of Rehabilitation of waste land within lease i) Afforestation ii) Area rehabilitated (ha) iii) Method of rehabilitation	1000 Nos No proposal By plantation	1300 Nos 0.25 Hect By plantation	M.L. boundary SZ Area Gap plantation & Waste dump plantation.

6e	Compliance of Environmental monitoring (core zone & buffer zone)	Regular Environmental monitoring has been proposed	Regular Environmental monitoring at 5 locations for ambient air quality & fugitive; 5 locations for water quality; Noise level survey at 5 locations along with 3 nos CAAQMS established.	Monitoring of Environmental parameters in Core as well as buffer zone has been carried out.
6f	General remarks of inspecting officer on PMCP compliance & progressive	Nil		

7.0 Mineral Conservation (2020-21)

SN	Item	Proposals	Actual work	Remarks
7a	ROM Mineral dispatch or grade-wise sorting within lease area	Grade-wise & Size-wise sorting within lease area	Grade-wise & Size-wise sorting within lease area	
7b	Method of grade-wise mineral sorting i.e. manual or mechanical	Mechanical	Mechanical	Mechanised Crushing and Screening.
7c	Different grade of mineral sorted out at mines	+45% Fe= 1000000.000MT	ROM mineral Processed Lumps(Tons) 500.00 (60-62%) 37077.55 (58-60%) 236098.94 (55-58%) 57077.64 (<55%) Fines 1000.00 (60-62%) 26200.00 (58-60%) 384940.00 (55-58%) 211220.00 (<55%)	
7d	Any beneficiation process at mines	Dry Crushing/Screening of ROM through crushing/Screening plants has been proposed to be carried out.	Dry Screening of ROM through crushing / Screening plants is being carried out.	
7e	General remarks of inspecting officer on Mineral conservation & beneficiation issues	No beneficiation is done within lease area except crushing & Screening for sizing of ore.		

8.0 Environment (2020-21)

SN	Item	Proposals	Actual work	Remarks
8a	Separate removal and utilization of topsoil (Rule 36)	No Top Soil. 3328m ³ Lateritic soil to be generated & utilised	1134.2 m ³ Morrum mixed lateritic soil generated & utilised in plantation.	Total Quantity has been utilised in plantation purpose

File No.

8b	Concurrent use or storage of topsoil	Storage & Utilisation	Concurrent use of topsoil is being done.	No deviation.
8c	Separate dumps for overburden, waste rock, rejects and fines (Rule 37)	Separate dumps for overburden and mineral reject stacks, waste rocks are proposed.	Separate dumps for overburden and mineral stacks and other waste rocks like BHQ/Shale are stacked separately..	No deviation.
8d	Use of overburden, waste rock, rejects and fines dumps for restoring the land to its original use	No proposal	Coir matting is started	
8e	Phased restoration, reclamation and rehabilitation of lands affected by mining operations (Pits, dumps etc)	No proposal	No work done I waste dump	Area is not matured for reclamation and rehabilitation.
8f	Baseline information on existence of plantation & additional plantation done (Rule 44)	1000 nos. of saplings has been proposed for plantation during 2020-21.	1300 nos. of plants have been plantation during 2020-21.	
8g	Survival rate	No specific proposal,	80%	
8h	Water sprinkling on roads to control airborne dust	Water sprinkling has been proposed to control airborne dust.	Regular Water sprinkling through 2 nos Water tanker (10KL each) is being used to control airborne dust.	
8i	General remarks of inspecting officer on aesthetic beauty in and around mines are	Broadly as per proposal		

9.0 Compliance of Rule 45 (2020-21)

S. N.	Item	COMMENTS	Remarks
	Status of submission of Monthly and Annual returns	Annual return H-1 has been submitted within due time i.e. on 29.06.2021 Monthly return F-1 has been submitted on due time i.e. on 07.10.2021 for the month of Sept.'21	

S. N.	Item	Details given in A.R.	Observation of I/Officer	Remarks
9b	Scrutiny of Annual return for information on Mining Engineer, Geologist and Manager	Manager: Shri D.N.Mohanta Geologist: Shri Rajkumar Gupta, Mining Engineer: Shri B.R.Banjare	Manager: Shri D.N.Mohanta Geologist: Shri Rajkumar Gupta, Mining Engineer: Shri B.R.Banjare	

	Scrutiny of Annual return on land use pattern for area under pits, reclaimed area, dumps etc.	Covered under current working 12.65 ha., waste disposal 7.38 ha., Infrastructure & roads 3.50 ha., mineral storage 3.10																																																																																
9d	Scrutiny of Annual return on Afforestation	Plantation of 1100 nos. of saplings has been reported within lease																																																																																
9e	Scrutiny of Annual return on mineral reject generation (Grade & quantity)	Nil	Nil																																																																															
9f	Scrutiny of Annual return on ROM stock and/or graded ore	ROM: 10778.00 MT Graded Ore (Lump): Below 55%: 1421 T 55% to 58%: 14102 T 58% to 60%: 1353 T Graded Ore (Fines): Below 55%: 31806 T 55% to 58%: 12240 T 58% to 60%: 201 T																																																																																
9g	Scrutiny of Annual return on sale value, Ex. Mine price & production cost	Ex. Mine price & Production cost: Rs 797.12 Per Tonne	Ex. Mine price & Production cost: Rs 797.12 Per Tonne	This mine is a captive mine & there is no sale of iron ore.																																																																														
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10- Details of violations observed during current inspection and compliance position of earlier violation pointed out:-

The earlier violation already taken compliance and during present mine inspection Rule 11(1) and 37(1) of MCDR, 2017 found violated.

(Rajesh Kumar Das,

Senior Assistant Controller of Mines)