

I/27679/2024

MCDR inspection REPORT

Bangalore regional office

Mine file No : KNT/BLR/FE/408/BNG

Mine code : 30KAR03101

- (i) Name of the Inspecting : **S006**) **DR.SURESH PRASAD**
Officer and ID No.
- (ii) Designation : Regional Controller Mines
- (iii) Accompanying mine : Mr.Sitaram Kemmannu-General Manger,Mr. Nishant B. N.
Official with
Designation
- (iv) Date of Inspection : 04/12/2023
- (v) Prev.inspection date : 14/03/2023

PART-I : GENERAL INFORMATION

1. (a) **Mine Name** : **RAMANADURGA**
- (b) **Registration NO.** : **IBM/11807/2012**
- (c) **Category** : **A Fully Mechanised**
- (d) **Type of Working** : **Opencast**
- (e) **Postal address**
- State** : **KARNATAKA**
- District** : **BELLARY**
- Village** : **DHARMAPURA**
- Taluka** : **SANDUR**
- Post office** : **SANDUR**
- Pin Code** :
- FAX No.** : **08392-266767 (F),**
- E-mail** : **kumnex@rediffmail.com**
- Phone** : **08392-267484 (O), 94498419**
- (f) **Police Station** : **SANDUR**
- (g) **First opening date** : **17/03/1990**
- (h) **Weekly day of rest** : **SUN**
2. **Address for correspondance** : **Sri Kumaraswamy Mineral Exports Pvt Ltd**
No.39B, 2nd Main, Paravathi Nagar,
BELLARY- 583102
3. (a) **Lease Number** : **KAR0329**
- (b) **Lease area** : **59.36**
- (c) **Period of lease** : **50**
- (d) **Date of Expiry** : **23/01/2042**
4. **Mineral worked** : **IRON ORE** **Main**

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5. Name and Address of the

Lessee : SRI KUMARASWAMY MINERAL EXPORTS
 2 ND CROSS, LINK ROAD,
 PARVATI NAGAR, BELLARY
 KARNATAKA
 Phone:08392-79484
 FAX :

Owner : Shantesh Gureddi Nominated Owner
 516/4, 10th Cross, Rajmahal
 Villas Extension, Sadashiv
 Nagar, BANGALORE BELLARY
 KARNATAKA
 Phone: 9845036556
 FAX :

Agent : Sitaram Kemmannu
 BELLARY KARNATAKA
 Phone: 8826164083
 FAX :

Mining Engineer
 Name : RAGHUNANDAN R B,Full Time
 Qualification : B.E.MINING
 Appointment/ : 26/12/2022
 Termination date

Geologist
 Name : IMRAN KHAN KERIKATTI,Full Time
 Qualification :
 Appointment/ : 05/09/2023
 Termination date

Manager
 Name : NISHANTH BHANUDAS NATIYE
 Qualification : FCC
 Appointment/ : 16/08/2021
 Termination date

6. Date of approval of Mining Plan/Scheme of Mining : Fresh under rule 22 MCR1960 07/03/1990
 Mining Scheme rule 12 MCDR1988 13/05/1999
 Mining Scheme rule 12 MCDR1988 06/06/2003
 Modif.approved Mining Scheme 18/04/2006
 Modif.of approved Mining Plan 17/08/2009
 Renewal under rule 24 MCR1960 18/09/2012
 MP review under 17(1) MCR 2016 08/03/2017
 MP modif under 17(3) MCR 2016 19/02/2018
 MP review under 17(1) MCR 2016 23/08/2018
 MP modif under 17(3) MCR 2016 26/02/2019
 MP review under 17(1) MCR 2016 10/03/2020
 MP review under 17(1) MCR 2016 09/12/2020
 MP review under 17(1) MCR 2016 13/12/2021
 MP modif under 17(3) MCR 2016 01/06/2022
 MP modif under 17(3) MCR 2016 11/07/2023

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PART - II : OBSERVATION/COMMENTS OF INSPECTING OFFICERS

Exploration :

Sl.No.	Item	Proposals	Actual work	Remarks
1a	Backlog of previous year	No Proposals no backlog in 2021-22	-	-
1b	Exploration over lease area for geological axis 1 or 2	10 Trail Pits 39 Core Drilling Boreholes & total meterage of 4030 meters	12 Trail pits and 36 core Drilling Boreholes with total meterage of 3087 meters completed Violation issued for the short fall.	Violation issued for the short fall.
1c	Exploration Agencies and Expenditure in lakh rupees during the year	M/s SKMEPL is exploration agency with drilling agencies - Geotech Exploration Nagpur and Gemco katti exploration Nagpur. Expenditure is not assessed.	Rs.1,79,41,926/-	In Annual Return it is given as Rs.65,50,148/- Lakhs. Pointed out as violation for rectification.
1d	Balance area to be explored to bring Geological axis in 1 or 2	No Proposal as entire lease area 59.36 Ha covered under G1	NA	However, 39 core drilling Boreholes are proposed during the year 2022-23 to know the quality of ore body and depth persistence.
1e	Balance reserve as on 01/04/20	No Proposal	47.722million Tons	As per the AR 2022-23.

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1f	General remarks of inspecting officers on geology, exploration etc	The lease hold area contains banded type of Iron Ore deposit with due strike NW-SE with about 1800m length, width of 150m and depth varying from 100m to 150m. The entire lease area has been explored in G1 level of exploration. However, 39 core drilling Boreholes are proposed during the year 2022-23 to know the quality of ore body and depth persistence.
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Development :

Sl.No.	Item	Propasals	Actual work	Remarks
2a	Location of development w.r.t.lease area	N 1667405 to N1666503 E661675toE662493	N 1667404 to N1666503 E661674 to E662492	Work carried out within the proposed grid intervals.
2b	Separate benches in topsoil, overburden and minerals (Rule 15)	Top Soil-0 Overburden-1 Mineral-8	Top Soil-0 Overburden-1 Mineral-8	No comments
2c	Stripping ratio or ore to OB ratio	1:0.109	1:0.119	-
2d	Quantity of topsoil generation in m3	No Proposal	NIL	-
2e	Quantity of overburden generation in m3	101718 m3 (250509 tonnes)	108824.54m3 (2,39,414tonnes)	Violation issued for not achieving the proposed quantity of over burden removal.

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2f	General remarks of inspecting officers on development of pit w.r.t. type of deposit etc	The Iron ore deposit is being mined by forming one single pit. One top bench in Over burden and 8 benches in the mineral. The mine is also having common boundary working proposals with the adjacent lessee and working here is being carried out in the top benches of the existing pit.
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Exploitation:

Sl.No.	Item	Propasals	Actual work	Remarks
3a	Number of pit proposed for production	1	1	N 1666580-N 1667405, E 661695-E 662450
3b	Quantity of ROM mineral production proposed	2400000 Tonnes	2013000 Tonnes	Reportedly Production & Development is achieved as per Allotted Production Limit of 2.013MTPA by Monitoring Committee vide letter no. MC/R&R/2022-23 dated 27.02.2023. However, Violation is issued.
3c	Recovery of sailable/usable mineral from ROM production	2400000 Tonnes	2013000 Tonnes	Reportedly Production & Development is achieved as per Allotted Production Limit of 2.013MTPA by Monitoring Committee vide letter no. MC/R&R/2022-23 dated 27.02.2023.
3d	Quantity of mineral reject generation	No Proposal	NA	-

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3e	Grade of mineral rejects generation and threshold value declared.	No Proposal	NA	-
3f	Quantity of sub grade mineral generation.	No Proposal	NA	-
3g	Grade of sub grade mineral generation	No Proposal	NA	-
3h	Manual / Mechanised method adopted for segregating from ROM	Fully Mechanized	Fully Mechanized	ROM is only size wise segregated as lumps and fines by engaging crushers and vibratory screens.
3i	Any analysis or beneficiation study proposed and carried out for sub grade mineral and rejects.	No Proposal	NA	-
3j	Provision of drilling and blasting in mineral benches	Drilling & blasting proposed	Drilling & blasting was carried out for hard laterite formed and BHQ by using control blasting technics with the help of NONEL and Slurry Explosives.	
3k	Provision of mining machineries in mineral benches	Epiroc ICM 26 drilling machine - 1 Excavators-16 Wheel loaders-10 Dumpers-23 Extec screens-4 Crushers-2 Water tankers-7	Epiroc ICM 26 drilling machine - 1 Excavators-16 Wheel loaders-10 Dumpers-23 Extec screens-4 Crushers-2 Water tankers-7	The reported mining machineries were found deployed on the day of inspection.
3l	Whether height of benches in overburden and mineral suitable for method of mining proposed in MP/SOM	OB-7.5 M Mineral- 7.5M	OB-7.5 M Mineral- 7.5M	The height of the benches is suitably maintained as proposed in the Mining Plan.
3m	Total area covered under excavation/pits	40.2273 Ha	40.2273 Ha	

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3n Ore to OB ratio 1:0.109 1:0.119
for the pit/mine
during the year.

Reportedly
Production &
Development is
achieved as per
Allotted Revision
of Production
Limit to 2.013
MTPA by Monitoring
Committee vide
letter no.
MC/R&R/2022-23
dated 27.02.2023.
However, violation
is pointed out.

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3o	Total area put in use under different heads at the end of year	(i) Already exploited & abandoned by opencast (O/C) mining 0.00 (ii) Covered under current (O/C) Workings 40.2273 (iii) Reclaimed/Rehabilitated 0.000 (iv) Used for waste disposal buildings 1.310 (v) Other Purpose (Area for Protective Measure, Bunds, Inactive dump stabilized with plantation, Safety Zone, Stocks & for future use) 13.9692 (vii) Work done under progressive mine closure plan during the year 0.000 TOTAL - 59.36	(i) Already exploited & abandoned by opencast (O/C) mining 0.00 (ii) Covered under current (O/C) Workings 40.227 (iii) Reclaimed/Rehabilitated 0.00 (iv) Used for waste disposal 4.670 (v) Occupied by plant, buildings, residential, welfare buildings 1.310 (vi) Other Purpose (Area for Protective Measure, Bunds, Inactive dump stabilized with plantation, Safety Zone, Stocks & for future use) 13.9692 (vii) Work done under progressive mine closure plan during the year 0.000 TOTAL 59.36	Violation issued for not carrying out dump mining as proposed.
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3p	Production of ROM mineral during the last five year period as applicable	2016-17: 0 2017-18: 426000 2018-19: 1480000 2019-20: 1640000 2020-21: 1940000 2021-22: 1940000 2022-23: 2400000 (Intonnes)	2016-17: 0 2017-18: 426000 2018-19: 1480000 2019-20: 1640000 2020-21: 1940000 2021-22: 1898370 2022-23: 2013000 (Intonnes)	a)21-22 production levels are reduced on prorata by Monitoring committee based on sectorial production cap imposed by Hon'ble Supreme Court of India. b)22-23 MPAP revised to 2.013 MTPA by Monitoring Committee.
3q	General remarks of inspecting officers on method of mining etc.			Method of mining is by open pit engaging Shovel-dumper combination with deep hole drilling and blasting as proposed. The single pit consists of One bench in Over burden and 8 benches in the mineral. The mine is also having common boundary working proposals with the adjacent lessee and working here is being carried out in the top benches of the existing pit.

Solid Waste Management - Dumping:

Sl.No.	Item	Propasals	Actual work	Remarks
4a	Separate dumping of topsoil, OB and mineral rejects (Rule 32,33)	Top soil -Nil Mineral Rejects-Nil	NA	--

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4b	Location of topsoil, OB and mineral reject dumps	Waste Dump: N 1667250 N 1666960 to E 662370 TO E 662040 Temp. BHQ Waste Dump: N1667670 to N1667700 & E661316 to E661422	Waste Dump: N 1667250 N 1666960 to E 662370 TO E 662040 Temp. BHQ Waste Dump: N1667670 to N1667700 & E661316 to E661422	Dumping is carried out within the proposed grid intervals.
4c	Number of dumps within lease area and outside of lease area	2 No's -Within the Lease area	2 No's -Within the Lease area	One active dump and one dump with dump mining proposals within ML.
4d	Location of dumps w.r.t. ultimate pit limit (Rule 16)	Dump-1 N1667420 to N1667855 E661580 to E662050 Dump-2 N 1666960 to N 1667250 E 662040 to E 662370 BHQ DUMP N 1667670 N1667700 E 661316 E661422	Dump-1 N1667420 to N1667855 E661580 to E662050 Dump-2 N 1666960 to N 1667250 E 662040 to E 662370 BHQ DUMP N 1667670 N1667700 E 661316 E661422	Both dumps are located outside the UPL. Temporary BHQ dump is within the UPL.
4e	Number of active and alive dumps.	1 No.	1 No.	D2
4f	Number of dead dumps.	1	1	D1
4g	Number of dumps established.	1 No.D1 4 Terraces of D2 are stabilized & One proposed in 2022-23	1 No.D1 5 Terraces of D2 are stabilized including one in 2022-23	D2 DUMP area of around 1.66 Ha stabilized during the 2017-18 to 2022-23
4h	Whether Retaining wall or garland drain all along dumps are there.	Yes	Yes	
4i	Length of Retaining wall or garland drain all along dumps	Proposal of 2022-23: RW - 153 mtr GD - 180 mtr	2022-23: RW - 153 mtr GD - 180 mtr	The proposed length of Retaining wall and garland is constructed.

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4j	Number of settling ponds	No Proposal	Total 11 SST were are Constructed	1,2 and 3 silt settling tanks are reconstructed during the year 2022-23
4k	Specific comments of inspecting officer on waste dump management			There are three waste dumps within the ML area. One dump with dump mining proposal, Temporary BHQ dump within the UPL and the third Active dump which is being systematically managed by stabilization with plantation & geotextiling of the bottom 5 terraces, Retaining wall and garland drains.

Solid Waste Management - Backfilling:

Sl.No.	Item	Propasals	Actual work	Remarks
5a	Status of part or full extraction of mineral from mined out area before starting backfilling.	No Proposal	NA	There is no proposed area for Backfilling in FY 2022-23
5b	Area under backfilling of mined out area	No Proposal	NA	
5c	Concurrent use of topsoil for restoration or rehabilitation of mineral out area (Rule 32)	No Proposal	NA	
5d	Total area fully reclaimed and rehabilitated	No Proposal	NA	
5e	General remarks of inspecting officers on backfilling and reclamation etc.			No part of the Mine pit is matured/ fully mined out for carrying out backfilling.

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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).	Yes.	Submitted online along with Annual return on 28.06.2023.	
6b	Area available for rehabilitation (ha) .	No Proposal	NA	
6c	afforestation done (ha).	0.2115 Ha	0.2115 Ha	Inactive slope of Active Dump D2
6d	No. of saplings planted during the year	700 sampling WML	WML - 768 saplings OML - 95 saplings Total - 863 Saplings	Appears to be correct.
6e	Cumulative no .of plants	--	4,30,272 plants	Out of the cumulative figures of 4,30,272 plants, 5721plants are planted inside the leasearea, safetyzone area and avenue plantation Dump D2 From 2017-18 to 2022-23.
6f	Any other method of rehabilitation	No Proposal	NA	
6g	Cost incurred on watch and care during the year	No Proposal	Rs.9,34,794/-	Appears to be correct.
6h	Compliance on reclamation and rehabilitation by backfilling (i) Voids available for backfilling (Lx B x D	No Proposal	NA	
6i	Compliance on reclamation and rehabilitation by backfilling (ii) Voids filled by waste / tailings	No Proposal	NA	
6j	Compliance on reclamation and rehabilitation by backfilling (iii)Afforestati on on backfilled area	No Proposal	NA	

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6k	Compliance on reclamation and rehabilitation by backfilling (iv) Rehabilitation by making water reservoir	No Proposal	NA	
6l	Compliance on reclamation and rehabilitation by backfilling (v)any other specific means.	No Proposal	NA	
6m	Compliance of rehabilitation of waste land within lease (i)afforestation	No Proposal	NA	
6n	Compliance of rehabilitation of waste land within lease (ii)Area rehabilitation (ha)	No Proposal	NA	
6o	Compliance of rehabilitation of waste land within lease (iii)Method of rehabilitation	No Proposal	NA	
6p	Compliance of environmental monitoring (core zone and buffer zone)	Environmental monitoring proposed in core zone & buffer zone.	Environmental monitoring carried out in core zone & buffer zone on monthly basis by NABL Accredited laboratory	Environmental monitoring is carried out by NABL & DGMS Laboratory Approved -Mineral Engineering Services, Mining & Environmental Engineers, Ballari.
6q	General remarks of inspecting officers on PMCP compliance and progressive closure operations etc.			All the proposed PMCP activities for the reporting year are satisfactorily carried out.

Mineral Conservation:

Sl.No.	Item	Propasals	Actual work	Remarks
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7a	ROM Mineral dispatch or grade-wise sorting within lease area	Grade wise sorting proposed within the lease area.	Grade wise sorting carried within the lease area	ROM is processed and sorted grade wise within the lease before dispatch.
7b	Method of grade-wise mineral sorting i.e. manual or mechanical.	Grade wise sorting proposed Mechanically during excavation & size-wise sorting by using Crusher & Screening plant.	Performed as proposed.	Mineral is sorted mechanically as proposed.
7c	Different grade of mineral sorted out at mines.	0-55% 55-58% 58-60% 60-62% 62-65% +65%	0 -55 % 55-58% 58-60% 60-62% 62-65% Are graded and dispatched.	Grade wise sorting is being carried out as per different IBM slabs.
7d	Any beneficiation process at mines .	No proposal	NIL	Only Dry process by mobile crusher & screening as proposed is being carried out.
7e	General remarks of inspecting officer on Mineral conservation and beneficiation issues			The low-grade mineral encountered during mining is suitably blended with high grade to prepare marketable grades and Mineral conservation aspect is fully taken care without the necessity of beneficiation activity.

Environment:

Sl.No.	Item	Propasals	Actual work	Remarks
8a	Separate removal and utilization of topsoil (Rule 32)	No proposal	N.A	No top soil generated during FY 2022-23.

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8b	Concurrent use or storage of topsoil	No Proposal	NA	
8c	Separate dumps for overburden, waste rock, rejects and fines (Rule 33)	Waste Dump: N 1667250 N 1666960 to E 662370 TO E 662040 Temp. BHQ Waste Dump: N1667670 to N1667700 & E661316 to E661422	Waste Dump: N 1667250 N 1666960 to E 662370 TO E 662040 Temp. BHQ Waste Dump: N1667670 to N1667700 & E661316 to E661422	As proposed separate dumps are maintained for waste and BHQ.
8d	Use of overburden, waste rock, rejects and fines dumps for restoring the land to its original use	No Proposal	NA	
8e	Phased restoration, reclamation and rehabilitation of lands affected by mining operations (Pits, dumps etc)	No Proposal	NA	No part of the Mine pit is matured/ fully mined out for carrying out backfilling.
8f	Baseline information on existence of plantation and additional plantation done (Rule 41)	Plantation proposed Inactive slopes on the Active Dump D-2,	Plantation was done Inactive slopes on the Active Dump D-2, Safety zone area, Gap filling&outside the lease area & maintained regularly.	5721plants are planted inside the lease safety zone area and avenue plantation Dump D2 From 2017-18 to 2022-23
8g	Survival rate	80%	80%	Appears to be correct.
8h	Water sprinkling on roads to control airborne dust	Water sprinkling proposed on roads to control airborne dust	Water sprinklers & water tanks are regularly used on roads to control airborne dust.	70 Water Sprinklers, 7 Water tankers are deployed (6 No.-8 kl & 1 No.-12 KL) for Dust Suppression on haulage roads.

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8i	General remarks of inspecting officer on aesthetic beauty in and around mines area	Aesthetic beauty in and around the mines is good and satisfactorily maintained by way of plantation and existing surrounding natural forest area.
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Compliance of Rule 45:

Sl.No.	Item	Propasals	Actual work	Remarks
9a	Status of submission of Monthly and Annual returns	A.R. Submitted up to 2022-23.		A.R submitted on 28.06.2023
9b	Scrutiny of Annual return for information on Mining Engineer, Geologist and Manager	Sri. Nishant BhanudasNatiye -Mines Manager. Sri. Raghunandan R B -Mining Engineer. Sri. Imran khan kerikatti -Geologist.	All the reported officials were present on the day of inspection.	
9c	Scrutiny of Annual return on land use pattern for area under pits, reclaimed area, dumps etc.	Covered under current (O/C) workings- 40.2273 Ha, Used for waste Disposal- 4.67Ha. Occupied by plant, buildings, residential, welfare buildings- 0.15 Ha Other purpose (Inactive Dump, Roads, Stock yard, green belt, environment production work) - 13.153 Ha	Appears to be in order.	

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9d	Scrutiny of Annual return on afforestation	Within lease area= 768 saplings Outside lease Area = 95 saplings @ 80% survival rate	The reported figures in the AR appears to be correct.
9e	Scrutiny of Annual return on mineral reject generation (Grade and quantity)	NIL	No comments
9f	Scrutiny of Annual return on ROM stock and/or graded ore	NIL	No comments

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9g	Scrutiny of Annual return on sale value, Ex. Mine price and production cost	Cost of Production =Rs.2861.35 /ton, Lumps: Below 45-51 % - 00.00 Rs. 51-55 % - 2806 Rs/ton. 55 to 58% - 2392.667Rs/ton 58 to 60 % - 3321.024Rs/ton 60 % to below 62 % Fe: 4219.84 Rs/ton, 62 % to below 65 % Fe: 4586.112 Rs/ton. 65 % Fe above: 4709.42 Rs/ton. Ex -mine price: Fines: Below 45-51 % - 1046.27 Rs/ton. 51-55 % - 1730.964 Rs/ton. 55 to 58% - 2235 Rs/ton., 58 to 60% - 3116.97 Rs/ton. 60 % to below 62 % Fe: 2579.603 Rs/ton, 62 % to below 65 % Fe: 3448.776 Rs/ton.	Cost of Production appeared to be high due to high Over Head Charges, Violation issued.
9h	Scrutiny of Annual return on fixed assets	Rs.68125637 including plant machinery and transport equipment	Appears to be in order.

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9k	Scrutiny of Annual return on mining machineries	EPIROC ICM 26 DRILLING MACHINE - 1 EXCAVATORS-15 WHEEL LOADERS- 10 DUMPERS-23 EXTEC SCREENS- 4 CRUSHERS-2 WATER TANKERS- 7	The reported machineries were found deployed on the day of inspection.
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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 45(7)(a)	22/12/2023		MCDR17 Rule 45(7)	22/12/2023	

Date :**(DR.SURESH PRASAD)**

Indian Bureau of Mines