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**MCDR inspection REPORT**

**Bangalore regional office**

**Mine file No :** KNT/BLR/Fe-499/BNG

**Mine code :** 30KAR03191

- (i) Name of the Inspecting : **S21** ) **H M Shivakumar**  
Officer and ID No.
- (ii) Designation : Assistant Controller Mine
- (iii) Accompanying mine : Mr. A Syed Farooq, Mine Agent, Mr. A Gururaj, Mines M  
Official with  
Designation
- (iv) Date of Inspection : 27/12/2023
- (v) Prev.inspection date : 06/03/2023

**PART-I : GENERAL INFORMATION**

1. (a) **Mine Name** : **JANIKUNTA IRON ORE MINE**
- (b) **Registration NO.** : **IBM/216/2011**
- (c) **Category** : **A Fully Mechanised**
- (d) **Type of Working** : **Opencast**
- (e) **Postal address**
- State** : **KARNATAKA**
- District** : **BELLARY**
- Village** : **JANIKUNTA**
- Taluka** : **BELLARY**
- Post office** : **INFANTRY ROAD,CANTONEMENT**
- Pin Code** :
- FAX No.** : **022-42863000**
- E-mail** : **contact@hothurindia.com,su**
- Phone** : **08392-201853,022-42868128,(**
- (f) **Police Station** : **Deogiri**
- (g) **First opening date** : **08/02/2021**
- (h) **Weekly day of rest** : **SUN**
2. **Address for correspondance** : **JSW Mining Office, Near Talur Cross, Vidyanagar  
Toranagallu, Sandur Taluk, Ballari- 583275,  
Karnataka**
3. (a) **Lease Number** :
- (b) **Lease area** :
- (c) **Period of lease** :
- (d) **Date of Expiry** :
4. **Mineral worked** : **IRON ORE** **Main**

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## 5. Name and Address of the

Lessee : M/S HOTHUR ISPAT PVT LTD  
 Hothur Estates, NH 63,  
 Veniveerapur, Hospet Road  
 Bellary BELLARY KARNATAKA  
 Phone:08392-201853  
 FAX :

Owner : Mohamad Iqbal Hothur, CMD  
 HothurIspat Private  
 Limited, Hothur square,  
 #284, 100 feet road  
 Indiranagar-Bengaluru.-  
 560008 BANGALORE KARNATAKA  
 Phone:  
 FAX :

Agent : A Syed Farooq CEO  
 Hothurgrand 100 feet road ,  
 Indiranagar-Bengaluru.-  
 560008 BANGALORE KARNATAKA  
 Phone: 9448496750  
 FAX :

## Mining Engineer

Name : KIRAN KUMAR P,Full Time  
 Qualification : B.E MINING  
 Appointment/ : 29/10/2021  
 Termination date

## Geologist

Name : VIKAS K P,Full Time  
 Qualification : MSc GEOLOGY  
 Appointment/ : 04/11/2022  
 Termination date

## Manager

Name : GURURAJ  
 Qualification : Diploma in Mining with 2nd Class MM  
 Appointment/ : 01/11/2021  
 Termination date

6. Date of approval of Mining	:	MP under 16(1) of MCR 2016	16/02/2017
Plan/Scheme of Mining	:	Fresh under rule 22 MCR1960	12/09/2019
	:	MP modif under 17(3) MCR 2016	08/07/2022

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## PART - II : OBSERVATION/COMMENTS OF INSPECTING OFFICERS

## Exploration :

Sl.No.	Item	Proposals	Actual work	Remarks
1a	Backlog of previous year	NIL	NIL	
1b	Exploration over lease area for geological axis 1 or 2	22 Nos.(Reverse Circulation Drilling)	22 Nos.(Reverse Circulation Drilling)	
1c	Exploration Agencies and Expenditure in lakh rupees during the year	NIL	34.14 lakh	Exploration carried by Geotech exploration & SUMS techno labs Pvt Ltd.
1d	Balance area to be explored to bring Geological axis in 1 or 2	NIL	NIL	
1e	Balance reserve as on 01/04/20	Iron Ore 3,238,399.00	Iron ore 3,033,364.00	As per the AR-2-22-23.
1f	General remarks of inspecting officers on geology, exploration etc			Lease area consists of two Ore Bodies named as 01 & 02: Ore Body one: Strike length -575 Mtr, Avg Width 35 Mtr, Avg depth 65 M - Ore Body two: Strike length -415 Mtr, Avg Width 16 Mtr, Avg depth -40m, Strike trend: NW-SE, Dip of ore bodies -750-800. The proposed exploration during the reporting year has been carried out. However, the additional reserves established has not been reported in the AR. Violation issued.

## Development :

Sl.No.	Item	Proposals	Actual work	Remarks
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2a	Location of development w.r.t.lease area	N167660 to N1671750 To E 691807 to E 691618	N1671640 to N1671720 To E 691794 to E 691602	Production Sections for 2022-23 S4-S9
2b	Separate benches in topsoil, overburden and minerals (Rule 15)	Top soil-Nil Over Burden-03 Mineral -02	Nil OB-03 Mineral -02	Its pocket type of deposit & it is difficult to nomenclature of OB & Mineral benches.
2c	Stripping ratio or ore to OB ratio	1: 1.47	1:2.63	Working involved in bench height correction therefore increase in stripping ratio.
2d	Quantity of topsoil generation in m3	NA	NIL	
2e	Quantity of overburden generation in m3	456172	541200 MT	
2f	General remarks of inspecting officers on development of pit w.r.t. type of deposit etc			The pit development is suitable for the type of deposit. It is proposed to develop the mining pit with bench height of 7.5m and width of 8m. However, the bench height and width between sections E-E' to G-G' are not maintained as proposed for which violation is issued.

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**Exploitation:**

Sl.No.	Item	Propasals	Actual work	Remarks
3a	Number of pit proposed for production	One pit	One pit	(17.1 Ha) FY-202-23

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3b	Quantity of ROM mineral production proposed	Iron Ore - 309841 MT	Iron Ore-205034.97 MT Mine is reported to be taken under the captive consumption. Only Lumps for the plant requirement is being consumed thereby stacking the entire fines produced. Sale permission for fines (0-5 mm) is not permitted and has occupied lot of space, restricting production on lesser quantity than proposed quantity.	Violation is issued for not achieving the proposed production.
3c	Recovery of sailable/usable mineral from ROM production	100%	85%	It was proposed for 100% mineral recovery from ROM during the plan period. However, a considerable quantity of BHQ with grade range from 35% Fe to 40% Fe is stacked as mineral reject in the mine which is not accounted and reported for in the Annual Report for the year 2022-2023. Violation is issued.
3d	Quantity of mineral reject generation	NIL	NIL	It was proposed for 100% mineral recovery from ROM during the plan period. However, a considerable quantity of BHQ with grade range from 35% Fe to 40% Fe is stacked as mineral reject in the mine which is not accounted and reported for in the Annual Report for the year 2022-2023. Violation is issued.
3e	Grade of mineral rejects generation and threshold value declared.	Threshold value 35 Fe%	Threshold value 35 Fe%	

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3f	Quantity of sub grade mineral generation.	No proposal	NIL	NA
3g	Grade of sub grade mineral generation	No proposal	NIL	NA
3h	Manual / Mechanised method adopted for segregating from ROM	Manual / Mechanized method proposed for segregating from ROM	Mechanized method adopted for segregating from ROM	Approx 90% of ROM generated is crushed and screened mechanically
3i	Any analysis or beneficiation study proposed and carried out for sub grade mineral and rejects.	No proposal	No such beneficiation study carried out during the reporting year.	
3j	Provision of drilling and blasting in mineral benches	Provision was made for drilling & blasting	Deep hole drilling and blasting is carried out.	100mm diaWagon drill is used of, Slurry cartridges of 83 mm is used with shock tube detonation system. Spacing -2.7 to 3 Mtr, Burden 2 to 2.5 Mtr and Sub Gradedrilling-0.7 to 1 Mtr M, Depth-08 M
3k	Provision of mining machineries in mineral benches	Excavator-03 Trucks-06(7.5Cum. Mtr) Wheel loader-2 Drilling unit -1 Water tanker -1 Crusher & Screener -1 Jeep -1	Excavator-03 Trucks-08(7.5Cum. Mtr) Wheel loader-2 Drilling unit -1 Water tanker -1 Crusher & Sc -1(250TPH) Jeep -2	The reported machineries are found deployed on the day of inspection.

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3l	Whether height of benches in overburden and mineral suitable for method of mining proposed in MP/SOM	Proposed 7.5-8 Mts Height 10 Mts Width	Actual 8.5 Mts Height 12 Mts Width	Mines is an auctioned 'C' category mine with irregular bench height and width which the lessee has committed to rectify during the course of mining operation. However few benches b/w sections E-E' to G-G' are still not maintained as proposed for which violation is issued.
3m	Total area covered under excavation/pits	17.1 Ha.	17.1 Ha.	
3n	Ore to OB ratio for the pit/mine during the year.	1 :1.47	1 :2.63	Violation not issued for not maintaining the proposed stripping ratio.
3o	Total area put in use under different heads at the end of year	Mining: 17.1 Ha Mineral Storage: 0.87 Ha. Crushing & Screening: 0.25 Ha Roads: 0.87 Ha Infrastructure : 0.5 Ha OB: 5.7 Ha Others: 2.5 Ha Total area put to use: 27.35 Ha Undisturbed area: 17.32 Ha Total Lease area: 44.42 Ha	Mining: 16.77Ha Mineral Storage: 1.2 Ha Crushing & Screening: 0.25 Ha Roads: 0.87 Ha Infrastructure: 0.5 Ha OB: 5.7 Ha Others: 2.5 Ha Total area put to use: 27.79 Ha Undisturbed area: 16.63 Ha Total Lease area: 44.42 Ha	For the year 2022-23, it was proposed for Mineral Storage over: 0.87 Ha. However, it is stacked over an extent exceeding 1.2 Ha thereby creating hinderance for the pit development as per approved plan. Violation issued.
3p	Production of ROM mineral during the last five year period as applicable	2020-21:200005 2021-22:200060 2022-23:309841 (inMT)	2020-21:69800 2021-22:156700 MT 2022-23:205034.97 MT (inMT)	Mining operations has started in the month of March-2021.

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3q General remarks of inspecting officers on method of mining etc.

Mining is carried out with open pit method with bench height and width 7.5m & 8m respectively. Mines is an auctioned 'C' category mine with irregular bench height and width which the lessee has committed to rectify during the course of mining operation. However few benches b/w sections E-E' to G-G' are still not maintained as proposed for which violation is issued.

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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 OB& Mineral rejects Proposed.	Separate dumping was carried out in as per proposal.	NIL
4b	Location of topsoil, OB and mineral reject dumps	For OB- PD1 N 1671570-1671740 To E 691335 to 691550	For OB- PD1 N 1671570-1671740 To E 691335 to 691550	Top soil nil OB has been dumped as per the proposal area. Mineral Reject (BHQ) is not reported and violation is issued.
4c	Number of dumps within lease area and outside of lease area	Within ML: Inside: 07OB Inactive Dumps (ID-1 to ID-7) Outside Lease: 4 EID(Eid-1 to EID-04) Inside lease: PD-1 Active dump	Within ML: Inside: 07 OB Inactive Dumps (ID-1 to ID-7) Outside Lease: 4 EID(EID-1 to EID-04) Inside lease: PD-1 Active dump	



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4d	Location of dumps w.r.t. ultimate pit limit (Rule 16)	OB dumps proposed outside the UPL-Nill	OB dumping carried out Outside UPL.	
4e	Number of active and alive dumps.	01- active and alive PD-1	01active and alive dumps	
4f	Number of dead dumps.	NIL	NIL	7 Inactive Dumps & 4 External Inactive Dumps are there.
4g	Number of dumps established.	PD-1 dump	PD-1 In-active part of the DUMPis only stabilized.	
4h	Whether Retaining wall or garland drain all along dumps are there.	RW and GD were proposed all along the PD-1 Dump OF 340 & 340 Mtr	RW and GD were CONSTRUCTED all along the PD-1 Dump OF 348 & 343 MTR	
4i	Length of Retaining wall or garland drain all along dumps	RW-340 M GD-340 M	RW-348 M GD-343M	
4j	Number of settling ponds	No proposal	NIL	
4k	Specific comments of inspecting officer on waste dump management			The waste dumps are being systematically maintained with all the proposed engineering structures and plantation for its stabilization.

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Solid Waste Management - Backfilling:

Sl.No.	Item	Propasals	Actual work	Remarks
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5a	Status of part or full extraction of mineral from mined out area before starting backfilling.	Before backfilling ore body No. 03 was excavated till to exhaust level, & it has been proved as exhausted ore body also it has reached UPL, Backfilling has been proposed in the mined-out area from the FY 2022-23 in PD-1 of 50 Mtr Height.	Backfilling is carried out in the proposed mined out area for the FY 2022-23 in PD-1.	Existing dump location in PD-1: N1671570 to N1671740 & E691335 to E691550
5b	Area under backfilling of mined out area	5.7 Ha (For 3 Years i.e 2022-23 to 2024-25)	2.18 Ha (For FY 2022-23)	
5c	Concurrent use of topsoil for restoration or rehabilitation of mineral out area (Rule 32)	No proposal	Nil	The proposed area was broken down by previous lease.
5d	Total area fully reclaimed and rehabilitated	Terracing was proposed up to 50M Height.	Terracing was carried out as per proposal.	Currently there is no proposal for plantation due to backfilling dump is in operation.
5e	General remarks of inspecting officers on backfilling and reclamation etc.			Backfilling of the mined out/broken area by the previous lessee is being backfilled by the present lessee as per the proposal. The inactive part of the backfilled area is being taken up for reclamation by plantation.

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Progressive Mine Clousre Plan:

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Sl.No.	Item	Propasals	Actual work	Remarks
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6a	Whether Annual report on PMCP submitted on time and correctly. Rule 23 E(2).	Annual report on PMCP to be submitted by 1st June every year.	PMCP for the year 22-23 is submitted.	Report submitted on: 07/07/2023
6b	Area available for rehabilitation (ha) .	No proposal	NIL	
6c	afforestation done (ha).	0.5 Ha Safety Zone	2.72covered by plantation on the dump slopes of in active & inactive Dump and Green Belt(Safety Zone)	Plantation carried out to stabilize the dump.
6d	No. of saplings planted during the year	1250 Nos	10298 Nos of saplings planted.	Honge, Kare jaali, Neem
6e	Cumulative no .of plants	14655saplings	21164 saplings	
6f	Any other method of rehabilitation	No proposal	Terracing and Plantation on the slope of dumps.	
6g	Cost incurred on watch and care during the year	1.6 L	1.5 L	
6h	Compliance on reclamation and rehabilitation by backfilling (i) Voids available for backfilling ( Lx B x D	Void Available: for the FY-2022-23 50 Height 55 width 67m Length 1.84 Ha. of area	Void backfilled 50 Depth 55 width 67m Length 2.18 Ha. Out of 5.7 Ha.	
6i	Compliance on reclamation and rehabilitation by backfilling (ii) Voids filled by waste / tailings	5.7 Ha proposed (For 3 Years i.e 2022-23 to 2024-25) 1.84 Ha(2022-23)	Achieved 2.18 Ha of backfilling (For FY 2022-23)	
6j	Compliance on reclamation and rehabilitation by backfilling (iii)Afforestation on on backfilled area	Currently Backfilling is in operation. And no afforestation is proposed till 2024-25.	Currently Backfilling is in operation. And no afforestation is proposed till 2024-25.	

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6k	Compliance on reclamation and rehabilitation by backfilling (iv) Rehabilitation by making water reservoir	No proposal	Nil`	Entire area is proposed for back filling, and no area left for making water reservoir.
6l	Compliance on reclamation and rehabilitation by backfilling (v)any other specific means.	No proposal	NIL	-
6m	Compliance of rehabilitation of waste land within lease (i)afforestation	NIL	NIL	There is no presence of waste land in the Lease area. Only Plantation work is carried out in old EID dumps in around Mine lease
6n	Compliance of rehabilitation of waste land within lease (ii)Area rehabilitation (ha)	NIL	NIL	
6o	Compliance of rehabilitation of waste land within lease (iii)Method of rehabilitation	NIL	NIL	
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. Air monitoring stations Core zone- 3 Buffer -3 Water monitoring Core zone- 1 Buffer -1 Noise monitoring Core zone- 5 Buffer -3	Quarterly monitoring of environmental parameters was carried out by MSV Analytical laboratory, ballari. All the environmental parameters were observed to be within the permissible limits

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6q	General remarks of inspecting officers on PMCP compliance and progressive closure operations etc.	All the proposed PMCP activities and Environmental monitoring in core zone & buffer zone are satisfactorily carried out except for slope stability study of the dumps exceeding 50m height. Violation issued.
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Mineral Conservation:

Sl.No.	Item	Proposals	Actual work	Remarks
7a	ROM Mineral dispatch or grade-wise sorting within lease area	Grade wise and size wise sorting proposed within the lease area.	Grade wise and size wise sorting is carried out within the lease area.	100% Rom by mechanically.
7b	Method of grade-wise mineral sorting i.e. manual or mechanical.	Proposed Mechanical	Mechanically using Crushing and Screening.	1 Nos of Crushing and screening unit (250 TPH).
7c	Different grade of mineral sorted out at mines.	Iron ore Lumps +45 -51 Fe. and Fines 45-51	Iron ore Lumps +35-45 And 45-51 Fe Fines-35-45 And 45-51 Fe.	
7d	Any beneficiation process at mines	No proposal	No such beneficiation is carried out.	Only Dry crushing and screening is done

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7e	General remarks of inspecting officer on Mineral conservation and beneficiation issues	The low grade lump ore are suitably blended with higher grade lumps thereby achieving the captive plant requirement grade. However entire fines awaiting DMG approval for outside sales and BHQ with grade range from 35%-40% Fe is stacked separately for consumption/sales in future there by taking care of mineral conservation aspect.
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## Environment :

Sl.No.	Item	Propasals	Actual work	Remarks
8a	Separate removal and utilization of topsoil (Rule 32)	No Proposal	No generation of top soil	Work is carried out in broken up area.
8b	Concurrent use or storage of topsoil	No proposal	NIL	
8c	Separate dumps for overburden, waste rock, rejects and fines (Rule 33)	Separate Dump for OB Proposed	Separate dump for OB is maintained.	
8d	Use of overburden, waste rock, rejects and fines dumps for restoring the land to its original use	1.84 Ha. Of waste dump area proposed for restoration.	1.84Ha. Waste dump area has been restored for original use.	

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8e	Phased restoration, reclamation and rehabilitation of lands affected by mining operations (Pits, dumps etc)	There was no proposal of plantation in FY 2022-23 Except in Safety zone 0.5 Ha.	All EID and in active ID dumps has been restored and reclaimed by terracing and plantation.	No. of terrace-04 Dump Area EID1-2.9 Ha EID2&3-4.75 Ha EID4A- 0.2 Ha EID4B- 0.17 Ha EID4C- 0.04 Ha
8f	Baseline information on existence of plantation and additional plantation done (Rule 41)	No proposal	Nil	Dump Plantation EID1-28,195 Agave Suckers EID1-3216Nos EID2-1960 Nos EID3-1195 Nos EID4-00 Nos
8g	Survival rate	-	70% in Mining lease area.	70% survival rate
8h	Water sprinkling on roads to control airborne dust	45 M <sup>3</sup> /D	45 M <sup>3</sup> /D	
8i	General remarks of inspecting officer on aesthetic beauty in and around mines area			The aesthetic beauty in & around the mine is satisfactorily maintained by carrying out plantation within the mining lease and outside surrounding the mining lease 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	Monthly returns Submitted up to November 2023-on 16-12-2023 ***** Annual Return Submitted up to 2022-23 On 30-06-2023		

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9b	Scrutiny of Annual return for information on Mining Engineer, Geologist and Manager	Mines Manager-1 Mining Engineer-1 Geologist-1	Mines Manager-1 Mining Engineer-1 Geologist-1
9c	Scrutiny of Annual return on land use pattern for area under pits, reclaimed area, dumps etc.	Open cast workings: 17.1 Ha Used for waste disposal: 7.41 Ha Infrastructure : 3.50 Ha Used for other: 3.37 Ha	Open cast workings: 17.1 Ha Used for waste disposal: 7.41 Ha Infrastructure: 3.50 Ha Used for other: 3.37 Ha
9d	Scrutiny of Annual return on afforestation	10298 Plants were planted during the Year, 21164 Plants were planted at end of the year, survival rate: 75 to 80%	10298 Plants were planted during the Year, 21164 Plants were planted at end of the year, survival rate: 75 to 80%
9e	Scrutiny of Annual return on mineral reject generation (Grade and quantity)	NIL	NIL
9f	Scrutiny of Annual return on ROM stock and/or graded ore	ROM stack-98178.25 MT Lumps-34412 MT Fines-190490 MT	ROM stack-98178.25 MT Lumps-34412 MT Fines-190490 MT
9g	Scrutiny of Annual return on sale value, Ex. Mine price and production cost	Sale value:-00 Iron Ore: Rs.985 Ex Mine price:- Lumps Rs. 985/ton Cost of Production - Rs.985/ton	Sale value:-00 Iron Ore: Rs.985 Ex Mine price:- Lumps Rs. 985/ton Cost of Production - Rs.985/ton
9h	Scrutiny of Annual return on fixed assets	238595820/-	238595820/-



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9k	Scrutiny of	Excavators - 4	Excavators - 3
	Annual return on	Trucks - 10	Trucks - 08
	mining	Rock drills -1	Rock drills -1
	machineries	Wheel loaders	Wheel loaders -2
		-2	Water tanker-1
		Water tanker-1	Crusher -1
		Crusher -1	Drilling - 1

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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 11(1)	17/01/2024		Rule 45(7)(i)	17/01/2024	27/02/2024
Rule 45(7)(i)	17/01/2024	27/02/2024			

**Date :****(H M Shivakumar)**

Indian Bureau of Mines