

INDIAN BUREAU OF MINES  
MINERALS DEVELOPMENT AND REGULATION DIVISION

MCDR inspection REPORT

Hyderabad regional office

Mine file No : AP/KNL/GOLD-1/HYD

Mine code : 27APR11001

- (i) Name of the Inspecting : KQ07 ) SHAIVAL KARTIKEYA  
Officer and ID No.
- (ii) Designation : Senior Mining Geologist
- (iii) Accompanying mine : Shri C. Karthikeyan, Geologist  
Official with  
Designation
- (iv) Date of Inspection : 24-FEB-22
- (v) Prev.inspection date : 18-MAR-21

PART-I : GENERAL INFORMATION

1. (a) Mine Name : JONNAGIRI (597.82 HA)
- (b) Registration NO. : IBM/18273/2014
- (c) Category : A Fully Mechanised
- (d) Type of Working : Opencast
- (e) Postal address :  
State : ANDHRA PRADESH  
District : KURNOOL  
Village : JONNAGIRI  
Taluka : TUGGALI MANDAL  
Post office : PAGADRAYI  
Pin Code : 518390  
FAX No. :  
E-mail : *reception@geomysore.com*  
Phone :
- (f) Police Station :
- (g) First opening date : 21-OCT-13
- (h) Weekly day of rest : SUN
2. Address for : 627, TRINITY, 3rd CROSS, 3rd BLOCK  
correspondance KORAMANGALA, BANGALURU- 560034
3. (a) Lease Number :  
(b) Lease area : *597.82 Ha.*  
(c) Period of lease : *30 yrs.*  
(d) Date of Expiry : *20/10/2043*
4. Mineral worked : GOLD Main

5. Name and Address of the  
Lessee

: GEOMYSORE SERVICES (INDIA) PVT. LTD.  
627, 3rd CROSS 3rd BLOCK,  
KORAMANGALA BANGALORE  
BANGLORE URBAN KARNATAKA  
Phone:080 40428400  
FAX :080 40428401

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

: MP review under 17(1) MCR 2016

13-APR-18

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

## Exploration :

| Sl.No. | Item   | Proposals   | Actual work   | Remarks   |
|--------|--|---|---|---|
| 1a     | Backlog of previous year                               | <p>F.Y. 2018-19:<br/>Trenches: 12 nos. with cumulative length of 4370.0 meters.<br/>Boreholes: 68 nos. with cumulative depth of 11950.0 meters.</p> <p>F.Y. 2019-20:<br/>Boreholes: 53 nos. with cumulative depth of 13875.0 meters</p> <p>F.Y. 2020-21:<br/>Boreholes: 43 nos. with cumulative depth of 4300.0 meters</p> <p>F.Y. 2021-22:<br/>Boreholes: 103 nos. with cumulative depth of 15450.0 meters</p> | <p>F.Y. 2018-19:<br/>trenches: 02 nos. with cumulative length of 210 meters.<br/>Boreholes: None of the boreholes have been drilled. NIL achievement.</p> <p>F.Y. 2019-20:<br/>Boreholes: None of the boreholes have been drilled. NIL achievement.</p> <p>F.Y. 2020-21:<br/>Trenches: 08 nos. with cumulative length of 595.0 meters.<br/>Boreholes: 25 nos. with cumulative depth of 1716.0 meters.</p> | <p>F.Y. 2021-22:<br/>Boreholes: 07 nos. of core boreholes with cumulative depth of 407.90 meters and 77 nos. of RC boreholes with cumulative depth of 2776.0 meters so far.</p> <p>Violation has been pointed out for the shortfall of exploration.</p> |
| 1b     | Exploration over lease area for geological axis 1 or 2 | G3 Level in to G2 Level: 161.08 Ha.   | F.Y. 2020-21:<br>Through close spacing drilling 1.34 Ha. area has been converted in to G2 Level.  | <p>As on 31/03/2021:<br/>G1 Level: 13.40 Ha.<br/>G2 Level: 12.24 ha.</p> <p>During F.Y. 2021-22 (Up to 28/02/2022):<br/>G1 Level: 0.39 Ha.<br/>G2 Level: 2.02 Ha.</p>   |



|    |   |   |   |  |
|----|---|---|---|--|
| 1c | Exploration Agencies and Expenditure in lakh rupees during the year | M/s Geomysore Services (India) Pvt. Ltd. Expenditure in Rs.: Not mentioned in the approved document.  | M/s Geomysore Services (India) Pvt. Ltd. Expenditure in Rs.: 1.20 Crore.  | -do-   |
| 1d | Balance area to be explored to bring Geological axis in 1 or 2      | G3 Level in to G2 Level: 161.08 Ha.   | Through close spacing drilling 1.34 Ha. area has been converted in to G2 Level.   | -do-   |
| 1e | Balance reserve as on 01/04/20                                      | As on 01/04/2021:<br>(Gold Ore)<br><br>Under (111):<br>2.1473<br>Million<br>Tonnes with<br>avg. Grade<br>1.66 gram per<br>tone<br><br>Under (122):<br>0.0313<br>Million<br>Tonnes with<br>avg. grade<br>1.40 gram per<br>tonne. | As on 01/04/2021:<br><br>Under (111): 2.9661<br>Million Tonnes with av.<br>Grade 1.66 gram per tone<br><br>Under (122): 0.0313<br>Million Tonnes with avg.<br>grade 1.40 gram per<br>tonne. | NIL production reported during F.Y. 2018-19 to 2020-21 |

|    |  |  |  |  |
|----|--|--|--|--|
| 1f | General remarks of inspecting officers on geology, exploration etc | The Jonnagiri greenstone belt is located on the regional structure of Eastern Dharwar Craton contains gold-bearing Kolar greenstone belt in the south and Hutti greenstone belt in the north. The Jonnagiri greenstone belt is a narrow, sigmoidal shape belt, which extends along NW-SE to N-S direction for nearly 25 kms. along strike. | It covers an area of approximately 52 square km and contains metamorphosed mafic and felsic volcanic rocks and psammopelitic sediments, the supracrustal rocks are intruded several phases of granitic rocks, ranging in composition from granitoid to granite. A few subvolcanic mafic intrusive, mainly metagabbro and metaultramafites are also identified. | The mining lease area is located in the southern sector along the contact between the supracrustal and intrusive granitoids. |
|----|--|--|--|--|

#### Development :

| Sl.No. | Item   | Propasals  | Actual work  | Remarks  |
|--------|--|--|--|--|
| 2a     | Location of development w.r.t.lease area                       | F.Y. 2020-21:<br>In between UTM co-ordinates N1687440 to N1686875 and E779270 to E779490 | F.Y. 2020-21:<br>In between UTM co-ordinates N1686585 to N1686700 and E779055 to E779130 | Production has been started from the month of November 2021. |
| 2b     | Separate benches in topsoil, overburden and minerals (Rule 15) | Topsoil: 01 no.<br>Mineral/Ore: 02 nos.  | No development and production have been carried out during F.Y. 2020-21.                 | -  |

|    |   |  |   |  |
|----|---|--|---|--|
| 2c | Stripping ratio or ore to OB ratio  | 1 : 4.0  | NIL, as no development and production have been done during F.Y. 2020-21. | -  |
| 2d | Quantity of topsoil generation in m3  | No topsoil will be generated during F.Y. 2020-21 | -do-  | -  |
| 2e | Quantity of overburden generation in m3   | 358000.0 CuM                                     | -do-  | -  |
| 2f | General remarks of inspecting officers on development of pit w.r.t. type of deposit etc |  |   | Production has been started from the month of November 2021. |

## Exploitation:

| Sl.No. | Item  | Proposals                  | Actual work   | Remarks  |
|--------|---|----------------------------|---|--|
| 3a     | Number of pit proposed for production                             | 01 no.                     | NIL, as no development and production have been done during F.Y. 2020-21. | Production has been started from the month of November 2021. |
| 3b     | Quantity of ROM mineral production proposed                       | 400200.00<br>Metric Tonnes | -do-  | -  |
| 3c     | Recovery of sailable/usable mineral from ROM production           | 1.19 grams per tonne.      | -do-  | -  |
| 3d     | Quantity of mineral reject generation                             | 185200.00<br>Metric Tonnes | -do-  | -  |
| 3e     | Grade of mineral rejects generation and threshold value declared. | 0.43 grams per tone        | -do-  | -  |
| 3f     | Quantity of sub grade mineral generation.                         | No proposal                | NIL   | -  |



|    |   |   |   |   |
|----|---|---|---|---|
| 3g | Grade of sub grade mineral generation   | No proposal   | NIL   | - |
| 3h | Manual / Mechanised method adopted for segregating from ROM                                     | Mechanised crushing and screening has been proposed for segregation of ROM                                | NIL, as no development and production have been done during F.Y. 2020-21. | - |
| 3i | Any analysis or beneficiation study proposed and carried out for sub grade mineral and rejects. | Three stage crushing followed by hydrocyclonic method has been proposed to recover the gold from the ROM. | -do-  | - |
| 3j | Provision of drilling and blasting in mineral benches   | Diameter:<br>115.0 mm<br>Burden: 2.10 m<br>Spacing: 2.50 m<br>Height: 7.50 m<br>Explosive:<br>ANFO/SME    | -do-  | - |

- 3k Provision of mining machineries in mineral benches
1. Drilling machine 01 no. with 115.0 mm diameter bit.
2. Excavator: 05 nos. with 3 CuM bucket size capacity
3. Dumpers: 21 nos. with 25 Metric Tonnes capacity
4. Garder: 01 no. with 12 Feet height.
5. Dozer: 01 no. with 320 HP Capacity
6. Water Tanker: 01 no. with 9000 Liters capacity
7. Wheel Loader: 01 no. with 2.7 CuM bucket capacity
8. Drilling Machine Crawler Mounted: 03 nos. with 4.5 inch bit size
9. Rock Breaker Excavator: 01 no.
- 10 Diesel Bowser: 02 nos. with 10000 Liters capacity
- 31 Whether height of benches in overburden and mineral suitable for method of mining proposed in MP/SOM
- OB/Waste: 7.50 m
- Mineral/Ore: 7.50 m



|    |  |  |  |  |
|----|--|--|--|--|
| 3m | Total area covered under excavation/pits                                 | Pits: 10.01 Ha.  | -do-   | -  |
| 3n | Ore to OB ratio for the pit/mine during the year.                        | 1 : 4.40   | NIL  | -  |
| 3o | Total area put in use under different heads at the end of year           | Pit- 10.01 Ha.<br>Waste/reject- 32.15 Ha.<br>Others- 88.45 Ha.<br>Up to end of F.Y. 2022-23  | Pit- NIL<br>Waste/reject- NIL<br>Others- 12.69 Ha.<br>Up to end of F.Y. 2020-21                  | -  |
| 3p | Production of ROM mineral during the last five year period as applicable | Yr. 2016-17: 50000.00 Metric Tonnes<br>Yr. 2017-18: 50000.00 Metric Tonnes<br>Yr. 2018-19: 226300.00 Metric Tonnes<br>Yr. 2019-20: 192300.00 Metric Tonnes<br>Yr. 2020-21: 400200.00 Metric Tonnes | Yr. 2016-17: NIL<br>Yr. 2017-18: NIL<br>Yr. 2018-19: NIL<br>Yr. 2019-20: NIL<br>Yr. 2020-21: NIL | NIL production reported from last five years. Development and production and development have been started from November 2021. |
| 3q | General remarks of inspecting officers on method of mining etc.          |  |  | NIL  |

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Solid Waste Management - Dumping:

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| Sl.No. | Item | Propasals | Actual work | Remarks |
|--------|------|-----------|-------------|---------|
|--------|------|-----------|-------------|---------|

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- 4a Separate dumping of topsoil, OB and mineral rejects (Rule 32,33) Proposal has been in the approved document for separate dumping of Topsoil, OB/Waste, Mineral and Mineral Reject in the earmarked locations within mining lease area. NIL production and development have been carried out during last five years. -
- 4b Location of topsoil, OB and mineral reject dumps In between UTM -do- co-ordinates  
 Topsoil:  
 N1686381 to  
 N1686515 and  
 E779175 to  
 E779360  
 Mineral  
 reject:  
 N1686535 to  
 N1686662 and  
 E779198 to  
 E779510  
 Mineral/Ore/RO  
 M: N1686785 to  
 N1686820 and  
 E779572 to  
 E779802  
 Waste:  
 N1687440 to  
 N1686875 and  
 E779270 to  
 E779490 -
- 4c Number of dumps within lease area and outside of lease area 01 no. -do- -

|    |  |  |   |     |
|----|--|--|---|-----|
| 4d | Location of dumps w.r.t. ultimate pit limit (Rule 16)              | Proposed temporary dumping within ultimate pit limit.  | -do-  | -   |
| 4e | Number of active and alive dumps.                                  | 01 no.   | -do-  | -   |
| 4f | Number of dead dumps.  | No proposal.   | NIL   | -   |
| 4g | Number of dumps established.                                       | No proposal.   | NIL   | -   |
| 4h | Whether Retaining wall or garland drain all along dumps are there. | Proposal has been given in the approved document for construction of Parapet wall and garland drain along the toe of the waste dump. | Not constructed, as the production and development have not been done during F. Y. 2020-21. | -   |
| 4i | Length of Retaining wall or garland drain all along dumps          | Parapet wall: 350 m.<br>Garland drain: 450 m.  | -do-  | -   |
| 4j | Number of settling ponds   | No proposal  | NIL   | -   |
| 4k | Specific comments of inspecting officer on waste dump management   |  |   | NIL |

#### 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. | No Proposal. | NIL         | -       |



|    |   |   |  |     |
|----|---|---|--|-----|
| 5b | Area under backfilling of mined out area  | No Proposal.  | NIL  | -   |
| 5c | Concurrent use of topsoil for restoration or rehabilitation of mineral out area (Rule 32) | Proposal has been given in the approved document for concurrent use of 2000 CuM of topsoil for the purpose of plantation. | Not achieved as no topsoil has been generated during last five years. Development and production has been started from the month of November 2022. | -   |
| 5d | Total area fully reclaimed and rehabilitated  | No Proposal.  | NIL, as the area not matured for reclamation and rehabilitation.   | -   |
| 5e | General remarks of inspecting officers on backfilling and reclamation etc.                |   |  | NIL |

#### Progressive Mine Clousre Plan:

| Sl.No. | Item   | Proposals                  | Actual work  | Remarks |
|--------|--|----------------------------|--|---------|
| 6a     | Whether Annual report on PMCP submitted on time and correctly. Rule 23 E(2). | Submitted before due date. | Submitted information has been cross verified during inspection. | -       |
| 6b     | Area available for rehabilitation (ha) .                                     | No Proposal.               | NIL  | -       |
| 6c     | afforestation done (ha).   | No Proposal.               | NIL  | -       |
| 6d     | No. of saplings planted during the year                                      | No Proposal.               | NIL  | -       |
| 6e     | Cumulative no .of plants   | No Proposal.               | NIL  | -       |
| 6f     | Any other method of rehabilitation   | No Proposal.               | NIL  | -       |

|    |  |                                  |     |   |
|----|--|----------------------------------|-----|---|
| 6g | Cost incurred on watch and care during the year  | No Proposal.                     | NIL | - |
| 6h | Compliance on reclamation and rehabilitation by backfilling (i) Voids available for backfilling ( Lx B x D | No Proposal.                     | NIL | - |
| 6i | Compliance on reclamation and rehabilitation by backfilling (ii) Voids filled by waste / tailings          | No Proposal.                     | NIL | - |
| 6j | Compliance on reclamation and rehabilitation by backfilling (iii) Afforestation on backfilled area         | No Proposal.                     | NIL | - |
| 6k | Compliance on reclamation and rehabilitation by backfilling (iv) Rehabilitation by making water reservoir  | No Proposal.                     | NIL | - |
| 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 Proposal during F.Y. 2020-21 | NIL | - |

|    |   |  |                             |   |
|----|---|--|-----------------------------|---|
| 6n | Compliance of rehabilitation of waste land within lease (ii)Area rehabilitation (ha)              | No Proposal  | NIL                         | -   |
| 6o | Compliance of rehabilitation of waste land within lease (iii)Method of rehabilitation             | No Proposal  | NIL                         | -   |
| 6p | Compliance of environmental monitoring (core zone and buffer zone)                                | Proposal has been given in the approved document for regular monitoring of the environmental parameters. | Being done as per proposal. | All the parameters are within the permissible limit.  |
| 6q | General remarks of inspecting officers on PMCP compliance and progressive closure operations etc. |  |                             | In the approved document proposal has been given for plantation of 2075 nos. of sapling over an area of 0.80 Ha during F.Y. 2018-19 to 2019-20. Whereas, 400 nos. of saplings have been planted over an area of 0.16 Ha. sofar. Violation has been pointed out. |

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**Mineral Conservation:**


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| Sl.No. | Item | Proposals | Actual work | Remarks |
|--------|------|-----------|-------------|---------|
|--------|------|-----------|-------------|---------|

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|----|---|--|--|---|
| 7a | ROM Mineral dispatch or grade-wise sorting within lease area    | Proposal has been given in the approved document for processing of ROM Ore through cyclonic and floatation method for extraction of gold concentrate and gold metal. | NIL production and development have been carried out during last five years. | - |
| 7b | Method of grade-wise mineral sorting i.e. manual or mechanical. | Mechanized crushing has been proposed.   | -do-   | - |
| 7c | Different grade of mineral sorted out at mines.                 | ROM with and above 0.6 gram per tone of Gold will be segregated for further processing and extraction of Gold.   | -do-   | - |

|    |  |  |      |     |
|----|--|--|------|-----|
| 7d | Any beneficiation process at mines .   | The Gold recovery plant will be a conventional type circuit consisting 3 stage crushing, ball milling and classification , gravity gold recovery, cyanide leaching with Carbon in Leach (CIL), Carbon elution, electro-winning and smelting of dore, tailing detoxification for contained cyanide. | -do- | -   |
| 7e | General remarks of inspecting officer on Mineral conservation and beneficiation issues |  |      | NIL |

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**Environment:**

| Sl.No. | Item  | Proposals                       | Actual work   | Remarks |
|--------|---|---------------------------------|---|---------|
| 8a     | Separate removal and utilization of topsoil (Rule 32) | No proposal during F.Y. 2020-21 | NIL, as no topsoil has been generated during F.Y. 2020-21 | -       |
| 8b     | Concurrent use or storage of topsoil                  | No proposal during F.Y. 2020-21 | NIL, as no topsoil has been generated during F.Y. 2020-21 | -       |



|    |   |  |   |   |
|----|---|--|---|---|
| 8c | Separate dumps for overburden, waste rock, rejects and fines (Rule 33)                                      | Proposal has been given in the approved document for separate stacking in between UTM co-ordinates               | NIL production and development have been done during last five years. | - |
|    |   | Topsoil:<br>N1686381 to<br>N1686515 and<br>E779175 to<br>E779360   |   |   |
|    |   | Mineral<br>reject:<br>N1686535 to<br>N1686662 and<br>E779198 to<br>E779510                                       |   |   |
|    |   | Mineral/Ore/RO<br>M: N1686785 to<br>N1686820 and<br>E779572 to<br>E779802  |   |   |
|    |   | Waste:<br>N1687440 to<br>N1686875 and<br>E779270 to<br>E779490   |   |   |
| 8d | Use of overburden, waste rock, rejects and fines dumps for restoring the land to its original use           | Overburden and waste will be utilized for ground restoration during conceptual stage. Not applicable at present. |   | - |
| 8e | Phased restoration, reclamation and rehabilitation of lands affected by mining operations (Pits, dumps etc) | No proposal  | NIL   | - |



|    |  |  |   |                                 |
|----|--|--|---|---------------------------------|
| 8f | Baseline information on existence of plantation and additional plantation done (Rule 41) | Proposal has been given for plantation of 2075 nos. of sapling over 0.80 Ha during F.Y. 2018-19 to 2019-20.                  | Whereas, 400 nos. of saplings have been planted over 0.16 Ha. area. | Violation has been pointed out. |
| 8g | Survival rate  | No proposal.   | Approx 80%  | -                               |
| 8h | Water sprinkling on roads to control airborne dust                                       | Proposal has been given in the approved document for water sprinkling on road to control airborne dust through water tanker. | Being done as per proposal.   | -                               |
| 8i | General remarks of inspecting officer on aesthetic beauty in and around mines area       |  |   | NIL                             |

#### Compliance of Rule 45:

| Sl.No. | Item   | Proposals   | Actual work   | Remarks |
|--------|--|---|---|---------|
| 9a     | Status of submission of Monthly and Annual returns | M.R. Submitted up to January 2022<br>A. R. Submitted up to F.Y. 2020-21 | M.R. Submitted up to January 2022<br>A. R. Submitted up to F.Y. 2020-21 | NIL     |

|    |   |  |   |     |
|----|---|--|---|-----|
| 9b | Scrutiny of Annual return for information on Mining Engineer, Geologist and Manager           | Manager:<br>Shri M.Masanam Saravanan<br><br>Mining Engineer: Shri M.Masanam Saravanan and Shri Raviteja T.<br><br>Geologist:<br>Shri C.Karthikeyan | Manager:<br>NIL<br><br>Mining Engineer: Shri Raviteja T.<br><br>Geologist: Shri C.Karthikeyan | NIL |
| 9c | Scrutiny of Annual return on land use pattern for area under pits, reclaimed area, dumps etc. | Pit- NIL<br>Waste/reject- NIL<br>Others- 12.69 Ha.   | Pit- NIL<br>Waste/reject- NIL<br>Others- 12.69 Ha.  | NIL |
| 9d | Scrutiny of Annual return on afforestation  | Within Lease area: NIL<br>Outside Lease area: 400 nos. with 80% survival rate.   | Within Lease area: NIL<br>Outside Lease area: 400 nos. with 80% survival rate.                | NIL |
| 9e | Scrutiny of Annual return on mineral reject generation (Grade and quantity)                   | Mineral Reject: NIL<br>Grade NIL   | Mineral Reject: NIL<br>Grade NIL  | NIL |
| 9f | Scrutiny of Annual return on ROM stock and/or graded ore                                      | Closing stock of ROM & Graded Ore: NIL   | Closing stock of ROM & Graded Ore: NIL  | NIL |
| 9g | Scrutiny of Annual return on sale value, Ex. Mine price and production cost                   | Sale value: NIL<br>EX Mine Price: NIL<br>Cost of Production: NIL   | Sale value: NIL<br>EX Mine Price: NIL<br>Cost of Production: NIL                              | NIL |
| 9h | Scrutiny of Annual return on fixed assets   | Rs. 672200791.00   | Rs. 672200791.00  | NIL |



|    |  |                    |     |
|----|--|--------------------|-----|
| 9k | Scrutiny of<br>Annual return on<br>mining<br>machineries | NIL mentioned. NIL | NIL |
|----|--|--------------------|-----|

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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) | 09-MAR-22     |                     |           |               |
| MCDR17             | Rule 27(2) | 09-MAR-22     |                     |           |               |
| MCDR17             | Rule 31(1) | 09-MAR-22     |                     |           |               |
| MCDR17             | Rule 33    | 09-MAR-22     |                     |           |               |
|                    | Rule 45(7) | 09-MAR-22     |                     |           |               |
|                    | Rule 55    | 09-MAR-22     |                     |           |               |

Date :

शैवाल कार्तिकेय  
(SHAIVAL KARTIKEYA) 09/03/2022

Indian Bureau of Mines



2014/01/10  
2014/01/10