

MCDR INSPECTION REPORT

1.0 GENERAL

| SN | Particulars | Details |
|----|------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 1 | Name of inspecting office & designation | Shri. Suresh Prasad, Dy. Controller of Mines. |
| 2 | Date of inspection | 23.08.2017 |
| 3 | Name of the Mine | Dignem Iron Ore Mine |
| 4 | Total Lease Area (Ha) with breakup of Non-forest and forest land | 43.1313 Ha, (25.0306 Ha.- Forest land, 18.1007 Ha.- Non Forest land) |
| 5 | Minecode | 30GOA01048 |
| 6 | IBM Registration Number under rule 45 of MCDR, 1988 | IBM/644/2011 |
| 7 | Name of the lessee, Address, phone, email and fax number | Sociedade Timblo Irmaos Limitada Rep by Timblo Pvt. Ltd., P.B.No.34, Kadar Manzil, Margao, 08326410906, admin.mining@timblos.com , - |
| 8 | Village | Cudnem |
| 8 | Taluka/Mandal /District | Bicholim Taluka, North Goa District. |
| 10 | State | Goa |
| 11 | Post office & PIN | Surla, Sanquelim, 403505. |
| 12 | Nearest police station | Bicholim |
| 13 | Nearest Railway station | Thivim |
| 14 | Date of Grant of Mining Lease | 30.09.1957 (Title of Transmission) |
| 15 | Date of Execution | N.A. |
| 16 | Date of opening of Mine | - |
| 17 | Date of first Renewal, if applicable and its period & expiry | Date of 1 st renewal:06.09.1990, Period: 20 years, w.r.t. 21.11.1987 Expiry:21.11.2007 |
| 18 | Date of second Renewal, if applicable and its period & expiry | Date of 2 nd renewal:12.01.2015, Period: 20 years, w.r.t. 22.11.2007 Expiry: 21.11.2027 |
| 19 | Date of submission of renewal application if Mining Operations are continuing under deemed extension | 18.08.2006 |
| 20 | Name of the Nominated Owner with Address, phone, email, fax number and date of appointment | Varun Vishwas Vaingankar P.B.No.34, Kadar Manzil, Margao, Phone no.: 08322720100 Email: admin.mining@timblos.com Fax no.:08322720161 Date of appointment: 11.03.2015 |
| 21 | Name of the Mine Agent with Address, phone, email, fax number and date of appointment | Saroj Kumar, P.B.No.34, Kadar Manzil, Margao, Phone no.: 9225906026 Fax no.: 08322720161 Email: admin.mining@timblos.com Date of appointment:02.11.2009 |
| 22 | Name of the Mines Manager with Address, phone, email, fax number | Shri James Day D'Souza, |

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| | and date of appointment in mines | Add: Village –Cudnem, Bicholim Taluka Phone:9225906045 Fax no.: - Email: admin.dignem@timblos.com Date of appointment: 03.01.2007 |
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| 23 | Name of the Mining Engineer, Qualification and total experience with Address, phone, email, fax number and date of appointment in mine | Shri James Day D’Souza, |
| 24 | Whether Geologist and Mining Engineer appointed in mines satisfy the rule 42 & carrying out their duties as per rule 43 & 44. | Yes. |
| 25 | Date of Approval of Mining Plan/Modified Mining Plan with five-year period and specific condition in approval letter, if any. | MMP/MECH-31/GOA/2015-16 Vol I dtd.26.09.2016 |
| 26 | Date of Approval of Scheme of Mining/Modified Scheme of Mining with five-year period and specific condition in approval letter, if any. | N.A. |
| 27 | Mineral(s) granted in lease and proved for mining | Iron ore. |
| 28 | Method of Mining(Open cast, Underground) | Open cast. |
| 29 | Category (Fully Mechanised, Others or Manual) | Fully Mechanised. |
| 30 | Captive/Non Captive | Non Captive |

Scientific Mining: Compliance of proposals of approved mining plan/scheme of mining. –

Exploration

| SN | Item | Proposals (2016-17) | Actual work (2016-17) | Remarks |
|----|-----------------------------------------------------------------|----------------------------------------------|----------------------------------------------|---------|
| 1a | Backlog of previous year | Nil | Nil | |
| 1b | Exploration over lease area for Geological axis 1 or 2. | 31.7806 Ha. | 31.9309 Ha. | |
| 1c | Exploration Agency & Expenditure in lakh Rupees during the year | Timblo Private Limited, Rs. 5.99 Lac approx. | Timblo Private Limited, Rs. 8.67 Lac approx. | |
| 1d | Balance area to be explored to bring Geological axis in 1 or 2 | Nil | N.A. | |

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|----|--------------------------------------------------------------------|----------------------------------|-------------------|--|
| 1e | Balance reserves as on 01.04.2017 | 7.21 Million Tons | 7.49 Million Tons | |
| 1f | General remarks of inspecting officer on geology, exploration etc. | Form I, submitted on 05.06.2017. | | |

2.0 Development

| SN | Item | Proposals (2016-17) | Actual work (2016-17) | Remarks |
|----|-----------------------------------------------------------------------------------------|-----------------------------------------------------|---------------------------------------------------------------------------|----------------------------------------------------------------------------|
| 2a | Location of development w.r.t. lease area | N1717059-1716822, E396528-396690 | N1717059-1716822, E396528-396690 | |
| 2b | Separate benches in topsoil, overburden and mineral (Rule 15) | Yes | Provided | |
| 2c | Stripping ratio or ore to OB ratio | 1:0.81 | NA, as only 10,076 tons of rejection dozed and lying at the bench. | The rejection so dozed is incorporated in the modified plan dated 26.09.16 |
| 2d | Quantity of topsoil generation in m3 | Nil | Nil | |
| 2e | Quantity of overburden generation in m3 | 44738 | 4580, by dozing, material needs to be handled. | The rejection so dozed is incorporated in the modified plan dated 26.09.16 |
| 2f | General remarks of inspecting officer on development of pit w.r.t. type of deposit etc. | Waste material collected in the mines benches only. | | |

3.0 Exploitation

| SN | Item | Proposals (2016-17) | Actual work (2016-17) | Remarks |
|----|---------------------------------------------|---------------------|-----------------------|---------|
| 3a | Number of pits proposed for production | 1 | 1 | |
| 3b | Quantity of ROM mineral production proposed | 110270 tons | Nil | |

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|----|---------------------------------------------------------------------------------------------|-------------|-------------------------|-----------------------------|
| 3c | Recovery of salable/usable mineral from ROM production | 97% - 100% | NA, as no ROM Produced. | Dry Screening was proposed. |
| 3d | Quantity of mineral reject generation | NIL | NIL | |
| 3e | Grade of mineral reject generation and threshold value declared | NIL | NIL | |
| 3f | Quantity of sub-grade mineral generation | NIL | NIL | |
| 3g | Grade of sub-grade mineral generation | NA | NA | |
| 3h | Manual / Mechanised method adopted for segregating from ROM | Mechanical, | Nil this FY | |
| 3i | Any analysis or beneficiation study proposed & carried out for sub-grade mineral and reject | Nil | Nil | |
| 3j | Provision of drilling & blasting in mineral benches | NA | NA | No drilling & blasting. |
| 3k | Provision of mining machineries in mineral benches | Yes | Yes | |

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|----|------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------|----------------------------------------------------------------------|--------------------------------|
| 3l | Whether height of benches in overburden and mineral suitable for method of mining proposed in MP/SOM | 6m X 9m | N.A. | |
| 3m | Total area covered under excavation/pits | 7.7324 Ha. | 7.7324 Ha. | |
| 3n | Ore to OB ratio for the pit/mine during the year | 1:0.81 | NA | |
| 3o | Total area put in use under different heads at the end of year | Pit-7.7324 Ha Waste/reject-11.5972 Ha Others(roads)-3.2367 Ha, | Pit-7.7324 Ha Waste/reject-11.5972 Ha Others(roads)-3.2367 Ha, | There is no extension of area. |
| 3p | Production of ROM mineral during last five-year period, as applicable | Yr-2012-13 Yr-2013-14 Yr-2014-15 Yr-2015-16 Yr-2016-17 | 169200 0 0 10000 0 | |
| 3q | General remarks of inspecting officer on method of mining etc. | As per the report ROM production for the 2016-17 is nil. | | |

4.0 Solid Waste Management-Dumping

| SN | Item | Proposals (2016-17) | Actual work (2016-17) | Remarks |
|----|-------------------------------------------------------------------|-------------------------------------------------------------|-----------------------------------------------------|---------------------------------------------------------------------------------|
| 4a | Separate dumping of topsoil, OB & mineral reject (Rule 32, 33) | Yes | OB dozed and lying on the bench, yet to be handled. | |
| 4b | Location of topsoil, OB & mineral reject dumps | N1716720-1716542, E 396528-396654 | Nil | overburden |
| 4c | Number of dumps within lease area and outside lease area | Within-1 Outside- nil | Within-1 Outside- nil | old |
| 4d | Location of dumps w.r.t. ultimate pit limit (Rule 16) | N1716720-1716542, E 396528-396654 | Nil | |
| 4e | Number of active & alive dumps | Southern Western part of the existing dump designated as D1 | Nil dumping | |
| 4f | Number of dead dumps | - | - | Part of the existing dump in the Northern Western side designated as D2. |
| 4g | Number of dumps stabilised | Active part of dump | Nil | Except for the proposed active part of the dump rest of the dump is stabilised. |
| 4h | Whether Retaining wall or garland drain all along dumps are there | Yes | Yes | |
| 4i | Length of Retaining wall or garland drain all along dump | 165 m | Nil | 890 m cumulative |
| 4j | Number of settling ponds | Nil | Nil | 5 no WML and 4 no OML. |
| 4k | Specific comments of inspecting officer | Disposal of OB for the reporting year 2016-17 is nil. | | |

5.0 Solid Waste Management-Backfilling

| SN | Item | Proposals (2016-17) | Actual work (2017-18) | Remarks |
|----|----------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------|----------------------------------------------------------------------------------|---------|
| 5a | Status on part or full extraction of mineral from mined out area before starting backfilling | Nil | Nil | |
| 5b | Area under backfilling of mined out area | 10.772 Ha already backfilled, which is envisaged to be re-handled in the future. | 10.772 Ha already backfilled, which is envisaged to be re-handled in the future. | |
| 5c | Concurrent use of topsoil for restoration or rehabilitation of mined out area (Rule 32) | NA | NA | |
| 5d | Total area fully reclaimed & rehabilitated | Nil | Nil | |
| 5e | General remarks of inspecting officer on backfilling, reclamation etc | Old partial backfilled area observed. | | |

6.0 Progressive Mine Closure Plan

| SN | Item | Proposals (2016-17) | Actual work (2016-17) | Remarks |
|----|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------|----------------------------------------------------------------------|---------|
| 6a | Whether Annual report on PMCP submitted on time and correctly - Rule 23E(2). Details should be given in the format as given in Annexure-20. | Yes | Yes | |
| 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 | Nil 0.162 Ha. 1000 saplings 214200 saplings None Nil | NA Nil, gap filling, 645 Nos 214200 Nos of saplings N.A. | |

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| 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 | Nil Nil NA NA | Nil Nil NA NA | |
| 6d | Compliance of Rehabilitation of waste land within lease i) Afforestation ii) Area rehabilitated (ha) iii) Method of rehabilitation | NA NA NA | NA NA NA | |
| 6e | Compliance of Environmental monitoring (core zone & buffer zone) | Environment Monitoring in core & buffer is being carried out by MoEF approved lab i.e. Mineral Engineering Services (MES). | Environment Monitoring in core & buffer is being carried out by MoEF approved lab i.e. Mineral Engineering Services (MES). | |
| 6f | General remarks of inspecting officer on PMCP compliance & progressive | Satisfactory. | | |

7.0 Mineral Conservation

| SN | Item | Proposals (2016-17) | Actual work (2016-17) | Remarks |
|----|-----------------------------------------------------------------|----------------------------------------------------|-----------------------|---------|
| 7a | ROM Mineral dispatch or grade-wise sorting within lease area | Provided | Nil | |
| 7b | Method of grade-wise mineral sorting i.e. manual or mechanical | Mechanical | Nil | |
| 7c | Different grade of mineral sorted out at mines | +54% Fe. | Nil | |
| 7d | Any beneficiation process at mines | Dry screening | Nil | |
| 7e | General remarks of inspecting officer on Mineral conservation & | ROM handling has not reported in the year 2016-17. | | |

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| | beneficiation issues | |
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8.0 Environment

| SN | Item | Proposals (2016-17) | Actual work (2016-17) | Remarks |
|----|-------------------------------------------------------------------------------------------------------------|---------------------|-----------------------|---------------------------------------------------------------|
| 8a | Separate removal and utilization of topsoil (Rule 32) | NA | NA | Top Soil not available |
| 8b | Concurrent use or storage of topsoil | NA | NA | |
| 8c | Separate dumps for overburden, waste rock, rejects and fines (Rule 33) | Yes | Nil | |
| 8d | Use of overburden, waste rock, rejects and fines dumps for restoring the land to its original use | N.A. | Nil | |
| 8e | Phased restoration, reclamation and rehabilitation of lands affected by mining operations (Pits, dumps etc) | N.A. | Nil | |
| 8f | Baseline information on existence of plantation & additional plantation done (Rule 41) | 1000 saplings | 645 saplings | 214200 Nos (cumulative no. of saplings afforested till date.) |
| 8g | Survival rate | 70% | 70% | On average 40-45% survival rate. |
| 8h | Water sprinkling on roads to control airborne dust | Yes | Nil this year | |
| 8i | General remarks of inspecting officer on aesthetic beauty in and around mines are | Satisfactory. | | |

9.0 Compliance of Rule 45

| S. N. | Item | COMMENTS | Remarks |
|-------|----------------------------------------------------|---------------------------------------------------------------|---------|
| | Status of submission of Monthly and Annual returns | M.R. Submitted upto –May 2017 A.R. submitted upto- 2015-16 | |

| 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 | yes | provided | |
| 9c | Scrutiny of Annual return on land use pattern for area under pits, reclaimed area, dumps etc. | yes | | |
| 9d | Scrutiny of Annual return on afforestation | yes | | |
| 9e | Scrutiny of Annual return on mineral reject generation (Grade & quantity) | yes | | |
| 9f | Scrutiny of Annual return on ROM stock and/or graded ore | yes | Material collected at mines only to show production. | |
| 9g | Scrutiny of Annual return on sale value, Ex. Mine price & production cost | yes | | |
| 9i | Scrutiny of Annual return on fixed assets | yes | | |
| 9k | Scrutiny of Annual return on mining machineries | yes | | |

10- Details of violations observed during current inspection and compliance position of earlier violation pointed out:-

Nil, as mines was not operated in the year 2016-17, small quantity overburden was dozed in the benches only.

(S.Prasad)

DCOM