

# STAR CEMENT MEGHALAYA LIMITED

Ref: SCML-MLA/EHS/LUM/2024-25/01

Dated: 03/04/2024

To,

The Member Secretary,  
Meghalaya State Pollution Control Board,  
'ARDEN' Lumpyngngad, Shillong – 793014

**Subject** : Submission of Environmental Monitoring Report for the month of March, 2024.

**Reference** : MPCB/ONLINE/RCTO(R-I)/EJHD/2021/2023-2024/30, Dtd: Shillong, the 27<sup>th</sup> September, 2023.

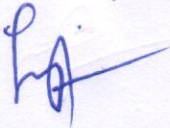
Dear Sir,

This is in reference to above cited subject, we are hereby submitting the monthly Environmental monitoring reports of Ambient Air Quality monitoring including meteorological data, Fugitive Emission, Surface water monitoring reports of **Brishyrnot Limestone Deposit-I (MLA 42.051 Ha)** of **Star Cement Meghalaya Limited** for the month of **March, 2024**.

This is for your kind information, record and kindly acknowledge receipt of the same.

Thanking You,

Yours truly,  
For **STAR CEMENT MEGHALAYA LIMITED**



**Laxmaiah Munjala**  
Unit Head

Enclosed: a/a

**Copy To:** The Regional Director, Central Pollution Control Board (CPCB), North Eastern Zonal Office, 'TUMSIR', Lower Motinagar, Shillong, Meghalaya-790314.



## STAR CEMENT MEGHALAYA LIMITED

Lumshnong, Meghalaya

| Date (DD-MM-YYYY) | Pressure (mmHg) | Relative Humidity (%) | Temp. (C)    | Manual Rain (mm) |
|-------------------|-----------------|-----------------------|--------------|------------------|
| 01-03-2024        | 720.7           | 71.6                  | 18.8         | 0.0              |
| 02-03-2024        | 718.1           | 70.4                  | 18.1         | 0.0              |
| 03-03-2024        | 717.8           | 71.2                  | 19.0         | 0.0              |
| 04-03-2024        | 724.0           | 69.5                  | 18.8         | 0.0              |
| 05-03-2024        | 721.3           | 69.3                  | 18.7         | 0.0              |
| 06-03-2024        | 727.1           | 70.6                  | 18.1         | 0.0              |
| 07-03-2024        | 721.7           | 69.4                  | 20.0         | 0.0              |
| 08-03-2024        | 724.4           | 69.2                  | 19.0         | 0.0              |
| 09-03-2024        | 726.0           | 69.4                  | 18.6         | 0.0              |
| 10-03-2024        | 723.7           | 70.5                  | 19.0         | 0.0              |
| 11-03-2024        | 721.7           | 73.7                  | 19.1         | 0.0              |
| 12-03-2024        | 721.2           | 72.8                  | 20.8         | 0.0              |
| 13-03-2024        | 721.6           | 77.0                  | 18.9         | 0.0              |
| 14-03-2024        | 724.4           | 74.1                  | 19.0         | 0.0              |
| 15-03-2024        | 724.6           | 74.3                  | 19.9         | 4.9              |
| 16-03-2024        | 724.0           | 71.5                  | 19.5         | 0.0              |
| 17-03-2024        | 722.4           | 77.8                  | 16.7         | 10.0             |
| 18-03-2024        | 720.8           | 77.0                  | 15.3         | 0.0              |
| 19-03-2024        | 718.4           | 70.0                  | 17.0         | 0.0              |
| 20-03-2024        | 724.0           | 63.0                  | 16.9         | 0.0              |
| 21-03-2024        | 724.5           | 66.0                  | 18.4         | 2.0              |
| 22-03-2024        | 722.2           | 70.8                  | 18.7         | 13.8             |
| 23-03-2024        | 724.4           | 70.3                  | 18.8         | 4.2              |
| 24-03-2024        | 726.0           | 68.2                  | 20.0         | 0.0              |
| 25-03-2024        | 724.4           | 70.9                  | 18.8         | 8.7              |
| 26-03-2024        | 719.2           | 67.6                  | 18.0         | 5.3              |
| 27-03-2024        | 725.9           | 70.5                  | 18.5         | 3.6              |
| 28-03-2024        | 723.7           | 71.9                  | 19.0         | 5.1              |
| 29-03-2024        | 722.5           | 74.0                  | 15.7         | 0.0              |
| 30-03-2024        | 724.4           | 70.9                  | 18.8         | 0.0              |
| 31-03-2024        | 719.2           | 67.6                  | 18.0         | 27.6             |
|                   |                 |                       | <b>Total</b> | <b>85.2</b>      |

|                                                                                                                                        |                                                                                                                     |                                                                                                 |                                      |                                                                                                    |
|----------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------|--------------------------------------|----------------------------------------------------------------------------------------------------|
|                                                       | <b>STAR CEMENT MEGHALAYA LIMITED</b><br><b>Brishyrot Limestone Deposit - I (MLA 42.051)</b><br>Lumshnong, Meghalaya |                                                                                                 | Reference No.                        | SCML/Env/F - 01                                                                                    |
|                                                                                                                                        |                                                                                                                     |                                                                                                 | Issue No.                            | 1                                                                                                  |
|                                                                                                                                        |                                                                                                                     |                                                                                                 | Date of Issue:                       | 24.08.2013                                                                                         |
|                                                                                                                                        | <b>AMBIENT AIR QUALITY MONITORING REPORT</b>                                                                        |                                                                                                 | Revision No.                         | 5                                                                                                  |
| Date of Rev.                                                                                                                           |                                                                                                                     |                                                                                                 | 01.12.2020                           |                                                                                                    |
| Reference No.: SCML/ENV/AAQM/MONTHLY/2023-24/12                                                                                        |                                                                                                                     |                                                                                                 | Month : March                        |                                                                                                    |
| Location of Sampling: Mines Entrance Haul Road                                                                                         |                                                                                                                     | GPS Coordinate: 25°10'14.88"N 92°24'52.13"E                                                     |                                      |                                                                                                    |
| Sampling Duration:                                                                                                                     | 24 Hrs.                                                                                                             | 24 Hrs.                                                                                         | 24 Hrs.                              | 24 Hrs.                                                                                            |
| Date of Sampling                                                                                                                       | PM <sub>10</sub> (µg/m <sup>3</sup> )                                                                               | PM <sub>2.5</sub> (µg/m <sup>3</sup> )                                                          | SO <sub>2</sub> (µg/m <sup>3</sup> ) | NO <sub>2</sub> (µg/m <sup>3</sup> )                                                               |
| 23.03.2024                                                                                                                             | 75.14                                                                                                               | 48.98                                                                                           | 17.23                                | 24.65                                                                                              |
| NAAQS permissible limits for Rural, Industrial, Residential Area                                                                       | 100 (µg/m <sup>3</sup> )                                                                                            | 60 (µg/m <sup>3</sup> )                                                                         | 80 (µg/m <sup>3</sup> )              | 80 (µg/m <sup>3</sup> )                                                                            |
| Remarks: All the analyzed parameters are well within the permissible limits of NAAQ Standards , Notification dated 18th November 2009. |                                                                                                                     |                                                                                                 |                                      |                                                                                                    |
| <br>Analysed by                                       |                                                                                                                     | <br>Checked By |                                      | <br>Verified By |

|                                                                                                                                        |                                                                                                              |                                                                                                 |                         |                                                                                                    |
|----------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------|-------------------------|----------------------------------------------------------------------------------------------------|
|                                                       | <b>STAR CEMENT MEGHALAYA LIMITED</b><br>Brishyrot Limestone Deposit - I (MLA 42.051)<br>Lumshnong, Meghalaya |                                                                                                 | Reference No.           | SCML/Env/F - 01                                                                                    |
|                                                                                                                                        |                                                                                                              |                                                                                                 | Issue No.               | 1                                                                                                  |
|                                                                                                                                        | <b>AMBIENT AIR QUALITY MONITORING REPORT</b>                                                                 |                                                                                                 | Date of Issue:          | 24.08.2013                                                                                         |
|                                                                                                                                        |                                                                                                              |                                                                                                 | Revision No.            | 5                                                                                                  |
|                                                                                                                                        |                                                                                                              |                                                                                                 | Date of Rev.            | 01.12.2020                                                                                         |
| Reference No.: SCML/ENV/AAQM/MONTHLY/2023-24/12                                                                                        |                                                                                                              |                                                                                                 | Month : March           |                                                                                                    |
| Location of Sampling: ROC Drilling Point                                                                                               |                                                                                                              | GPS Coordinate: 25°10'15.92"N 92°24'55.38"E                                                     |                         |                                                                                                    |
| Sampling Duration:                                                                                                                     | 24 Hrs.                                                                                                      | 24 Hrs.                                                                                         | 24 Hrs.                 | 24 Hrs.                                                                                            |
| Date of Sampling                                                                                                                       | PM <sub>10</sub> (µg/m³)                                                                                     | PM <sub>2.5</sub> (µg/m³)                                                                       | SO <sub>2</sub> (µg/m³) | NO <sub>2</sub> (µg/m³)                                                                            |
| 23.03.2024                                                                                                                             | 68.65                                                                                                        | 45.59                                                                                           | 15.83                   | 20.68                                                                                              |
| NAAQS permissible limits for Rural, Industrial, Residential Area                                                                       | 100 (µg/m³)                                                                                                  | 60 (µg/m³)                                                                                      | 80 (µg/m³)              | 80 (µg/m³)                                                                                         |
| Remarks: All the analyzed parameters are well within the permissible limits of NAAQ Standards , Notification dated 18th November 2009. |                                                                                                              |                                                                                                 |                         |                                                                                                    |
| <br>Analysed by                                       |                                                                                                              | <br>Checked By |                         | <br>Verified By |

|                                                                                                                                        |                                                                                                               |                                                                                                 |                         |                                                                                                    |
|----------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------|-------------------------|----------------------------------------------------------------------------------------------------|
|                                                       | <b>STAR CEMENT MEGHALAYA LIMITED</b><br>Brishyrnot Limestone Deposit - I (MLA 42.051)<br>Lumshnong, Meghalaya |                                                                                                 | Reference No.           | SCML/Env/F - 01                                                                                    |
|                                                                                                                                        |                                                                                                               |                                                                                                 | Issue No.               | 1                                                                                                  |
|                                                                                                                                        |                                                                                                               |                                                                                                 | Date of Issue:          | 24.08.2013                                                                                         |
|                                                                                                                                        | AMBIENT AIR QUALITY MONITORING REPORT                                                                         |                                                                                                 | Revision No.            | 5                                                                                                  |
| Date of Rev.                                                                                                                           |                                                                                                               |                                                                                                 | 01.12.2020              |                                                                                                    |
| Reference No.: SCML/ENV/AAQM/MONTHLY/2023-24/12                                                                                        |                                                                                                               |                                                                                                 | Month : March           |                                                                                                    |
| Location of Sampling: Excavator Point                                                                                                  |                                                                                                               | GPS Coordinate: 25°10'16.34"N 92°24'54.97"E 745 m                                               |                         |                                                                                                    |
| Sampling Duration:                                                                                                                     | 24 Hrs.                                                                                                       | 24 Hrs.                                                                                         | 24 Hrs.                 | 24 Hrs.                                                                                            |
| Date of Sampling                                                                                                                       | PM <sub>10</sub> (µg/m³)                                                                                      | PM <sub>2.5</sub> (µg/m³)                                                                       | SO <sub>2</sub> (µg/m³) | NO <sub>2</sub> (µg/m³)                                                                            |
| 23.03.2024                                                                                                                             | 64.07                                                                                                         | 48.47                                                                                           | 16.30                   | 21.88                                                                                              |
| NAAQS permissible limits for Rural, Industrial, Residential Area                                                                       | 100 (µg/m³)                                                                                                   | 60 (µg/m³)                                                                                      | 80 (µg/m³)              | 80 (µg/m³)                                                                                         |
| Remarks: All the analyzed parameters are well within the permissible limits of NAAQ Standards , Notification dated 18th November 2009. |                                                                                                               |                                                                                                 |                         |                                                                                                    |
| <br>Analysed by                                       |                                                                                                               | <br>Checked By |                         | <br>Verified By |

|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | <b>STAR CEMENT MEGHALAYA LIMITED</b><br>Lumshnong, Meghalaya |                                | Reference No.             | SCML/Env/F – 07 (a)            |
|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------|--------------------------------|---------------------------|--------------------------------|
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |                                                              |                                | Issue No.                 | 1                              |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |                                                              |                                | Date of Issue:            | 01.12.2018                     |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               | <b>FUGITIVE EMISSION REPORT</b>                              |                                | Revision No.              | 2                              |
| Date of Rev.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |                                                              |                                | 01.12.2020                |                                |
| <b>Ref: SCML/ENV/FUGITIVE/MONTHLY/2023-24/12</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |                                                              |                                |                           |                                |
| <b>Brishyrnot Limestone Deposit - I (MLA 42.051)</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |                                                              |                                |                           |                                |
| <b>Month - March</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |                                                              |                                |                           |                                |
| Date                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          | Location                                                     | Fugitive Emission Results      | As per CPCB/BIS Guideline |                                |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |                                                              |                                | Limit                     |                                |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |                                                              | (in $\mu\text{g}/\text{m}^3$ ) |                           | (in $\mu\text{g}/\text{m}^3$ ) |
| 26.03.2024                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    | Near Lime Stone loading area                                 | 1534                           | 5000                      |                                |
| <div style="display: flex; justify-content: space-between; align-items: flex-end; padding-top: 50px;"> <div style="text-align: center;"> <br/> <b>Analyzed By</b> </div> <div style="text-align: center;"> <br/> <b>Checked By</b> </div> <div style="text-align: center;"> <br/> <b>Verified By</b> </div> </div> |                                                              |                                |                           |                                |

|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | <b>STAR CEMENT MEGHALAYA LIMITED</b><br>(42.051 Ha)<br>Lumshnong, Meghalaya |                                                    | Document No.   |      | SCML/EHS/Env/F-03 |  |
|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------|----------------------------------------------------|----------------|------|-------------------|--|
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |                                                                             |                                                    | Effective Date |      | 01-05-2019        |  |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |                                                                             |                                                    | Revision No.   |      | 04                |  |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         | NOISE LEVEL MONITORING REPORT                                               |                                                    | Revision Date  |      | 01-01-2021        |  |
| Ref: SCML(LM)/ENV/NOISE/MONTHLY/2023-24/012 <span style="float: right;">Date:- 23.03.2024</span>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |                                                                             |                                                    |                |      |                   |  |
| <b>Brishyrrnot Limestone Deposit - I (MLA 42.051)</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |                                                                             |                                                    |                |      |                   |  |
| <b>Month - March</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |                                                                             |                                                    |                |      |                   |  |
| S. No.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  | Location                                                                    | Measured Values dB(A) Day time (6:00am to 10:00pm) |                |      | Norms In dB(A)    |  |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |                                                                             | Min.                                               | Max.           | Avg. |                   |  |
| 1                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | <b>Excavator</b>                                                            |                                                    |                |      |                   |  |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         | <b>A) Operator Cabin (Door Open)</b>                                        |                                                    |                |      |                   |  |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         | a) At Low engine RPM                                                        | 57.7                                               | 66.5           | 62.1 | 75                |  |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         | b) At High engine RPM                                                       | 62.5                                               | 71.3           | 66.9 |                   |  |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         | <b>B) Operator Cabin(Door Close)</b>                                        |                                                    |                |      |                   |  |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         | a) At Low engine RPM                                                        | 59.8                                               | 65.8           | 62.8 |                   |  |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         | b) At High engine RPM                                                       | 62.5                                               | 70.1           | 66.3 |                   |  |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         | <b>C) Periphery of the Engine</b>                                           |                                                    |                |      |                   |  |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         | a) At 1 mtr. Distance( At low RPM)                                          | 60.0                                               | 70.7           | 65.4 |                   |  |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         | b) At 1 mtr. Distance (At high RPM)                                         | 61.2                                               | 71.9           | 66.6 |                   |  |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         | c) At 5 mtr. Distance (At low RPM)                                          | 55.6                                               | 68.8           | 62.2 |                   |  |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         | d) At 5 mtr. Distance (At high RPM)                                         | 58.0                                               | 69.9           | 63.9 |                   |  |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         | <b>D) Behind the Engine</b>                                                 |                                                    |                |      |                   |  |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         | a) At 1 mtr. Distance( At low RPM)                                          | 61.6                                               | 67.3           | 64.5 |                   |  |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         | b) At 1 mtr. Distance (At high RPM)                                         | 68.7                                               | 71.3           | 70.0 |                   |  |
| c) At 5 mtr. Distance (At low RPM)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | 59.8                                                                        | 62.8                                               | 61.3           |      |                   |  |
| d) At 5 mtr. Distance (At high RPM)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | 62.5                                                                        | 68.8                                               | 65.7           |      |                   |  |
| 2                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | <b>Rock Breaker</b>                                                         |                                                    |                |      |                   |  |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         | <b>A) Operator Cabin</b>                                                    |                                                    |                |      |                   |  |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         | a) At Low engine RPM                                                        | 63.8                                               | 64.5           | 64.2 | 75                |  |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         | b) At High engine RPM                                                       | 66.1                                               | 71.4           | 68.8 |                   |  |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         | <b>B) Rock Breaker Point (At 5 mtr. Distance)</b>                           |                                                    |                |      |                   |  |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         | a) Left Side                                                                | 57.9                                               | 66.0           | 62.0 |                   |  |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         | b) Right Side                                                               | 54.6                                               | 67.7           | 61.2 |                   |  |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         | c) Front Side                                                               | 57.3                                               | 69.3           | 63.3 |                   |  |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |                                                                             |                                                    |                |      |                   |  |
| <div style="display: flex; justify-content: space-between; align-items: flex-end;"> <div style="text-align: center;"> <br/>             Measured By           </div> <div style="text-align: center;"> <br/>             Checked By           </div> <div style="text-align: center;"> <br/>             Verified By           </div> </div> |                                                                             |                                                    |                |      |                   |  |

|                                                                                                                                                                                                                                                                                                                                                                                                | <b>STAR CEMENT MEGHALAYA LIMITED</b><br>(42.051 Ha)<br>Lumshnong, Meghalaya |                                                    | Document No.   |               | SCML/EHS/Env/F-03 |
|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------|----------------------------------------------------|----------------|---------------|-------------------|
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |                                                                             |                                                    | Effective Date |               | 01-05-2019        |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |                                                                             |                                                    | Revision No.   |               | 04                |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 | <b>NOISE LEVEL MONITORING REPORT</b>                                        |                                                    |                | Revision Date |                   |
| Ref: SCML(LM)/ENV/NOISE/MONTHLY/2023-24/012 <span style="float: right;">Date:- 23.03.2024</span>                                                                                                                                                                                                                                                                                                                                                                                |                                                                             |                                                    |                |               |                   |
| <b>Brishyrrnot Limestone Deposit - I (MLA 42.051)</b>                                                                                                                                                                                                                                                                                                                                                                                                                           |                                                                             |                                                    |                |               |                   |
| <b>Month - March</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                            |                                                                             |                                                    |                |               |                   |
| S. No.                                                                                                                                                                                                                                                                                                                                                                                                                                                                          | Location                                                                    | Measured Values dB(A) Day time (6:00am to 10:00pm) |                |               | Norms in dB(A)    |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |                                                                             | Min.                                               | Max.           | Avg.          |                   |
| 3                                                                                                                                                                                                                                                                                                                                                                                                                                                                               | <b>Drill Machine</b>                                                        |                                                    |                |               | 75                |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 | <b>A) Compressor</b>                                                        |                                                    |                |               |                   |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 | a) At 1 mtr. Distance                                                       | 66.3                                               | 72.8           | 69.6          |                   |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 | b) At 5 mtr. Distance                                                       | 62.2                                               | 71.4           | 66.8          |                   |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 | <b>B) Drilling Point (At 5 mtr. Distance)</b>                               |                                                    |                |               |                   |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 | a) Left Side                                                                | 63.3                                               | 71.4           | 67.3          |                   |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 | b) Right Side                                                               | 62.3                                               | 72.3           | 67.3          |                   |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 | c) Front Side                                                               | 61.3                                               | 71.4           | 66.4          |                   |
| 4                                                                                                                                                                                                                                                                                                                                                                                                                                                                               | <b>Dozer</b>                                                                |                                                    |                |               | 75                |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 | <b>A) Operator Cabin</b>                                                    |                                                    |                |               |                   |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 | a) At Low engine RPM                                                        | 57.7                                               | 63.3           | 60.5          |                   |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 | b) At High engine RPM                                                       | 63.9                                               | 71.6           | 67.8          |                   |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 | <b>B) Periphery of the Engine</b>                                           |                                                    |                |               |                   |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 | a) At 1 mtr. Distance( At low RPM)                                          | 59.6                                               | 67.4           | 63.5          |                   |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 | b) At 1 mtr. Distance (At high RPM)                                         | 63.6                                               | 70.8           | 67.2          |                   |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 | c) At 5 mtr. Distance (At low RPM)                                          | 53.8                                               | 60.1           | 57.0          |                   |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 | d) At 5 mtr. Distance (At high RPM)                                         | 60.3                                               | 68.3           | 64.3          |                   |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 | <b>c) Behind the Engine</b>                                                 |                                                    |                |               |                   |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 | a) At 1 mtr. Distance( At low RPM)                                          | 55.9                                               | 62.3           | 59.1          |                   |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 | b) At 1 mtr. Distance (At high RPM)                                         | 59.6                                               | 66.4           | 63.0          |                   |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 | c) At 5 mtr. Distance (At low RPM)                                          | 53.5                                               | 58.4           | 56.0          |                   |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 | d) At 5 mtr. Distance (At high RPM)                                         | 57.0                                               | 60.4           | 58.7          |                   |
| 5                                                                                                                                                                                                                                                                                                                                                                                                                                                                               | <b>Dumper</b>                                                               |                                                    |                |               |                   |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 | <b>A) Empty Dumper</b>                                                      |                                                    |                |               |                   |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 | a) Open Window                                                              | 64.8                                               | 70.8           | 67.8          |                   |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 | b) Close Window                                                             | 58.8                                               | 64.3           | 61.6          |                   |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 | <b>B) Loaded Dumper</b>                                                     |                                                    |                |               |                   |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 | a) Open Window                                                              | 66.0                                               | 71.3           | 68.7          |                   |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 | b) Close Window                                                             | 61.3                                               | 65.6           | 63.5          |                   |
| <div style="display: flex; justify-content: space-between; align-items: flex-end;"> <div> <br/>       Analyzed by     </div> <div> <br/>       Checked by     </div> <div> <br/>       Verified By     </div> </div> |                                                                             |                                                    |                |               |                   |

