



# Mahabal Enviro Engineers Pvt. Ltd.

Engineers, Consultants, Environmental Monitoring Laboratory & Contractors

Plot Nos. 13,14,17,18, Grampanchayat Bokhara, 8 km from Nagpur City,

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## Ambient Air Quality Monitoring Report

|                                                       |                                                                                                                                            |                                    |                                                                                                                                                                                                                                                                                                                                        |
|-------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Report No.:</b> ME-NG15837-201202-SA-RIPL-AMRAVATI |                                                                                                                                            | <b>Date:</b> 02.12.2020            |                                                                                                                                                                                                                                                                                                                                        |
| <b>Name and address of Customer</b>                   | <b>RATTANINDIA POWER LIMITED</b><br>Plot No.D-2 & D-2 (PART) at<br>Additional MIDC, Village-Nandgaonpeth,<br>Tal & Dist: Amravati 444 901. | <b>Order Reference:</b>            |                                                                                                                                                                                                                                                                                                                                        |
|                                                       |                                                                                                                                            | SO No. 3382017462<br>Dt.16.08.2019 |                                                                                                                                                                                                                                                                                                                                        |
| <b>Sample Description/Type</b>                        | Ambient Air Quality Monitoring                                                                                                             | <b>Sample Collected by</b>         | Laboratory                                                                                                                                                                                                                                                                                                                             |
| <b>Sampling Location</b>                              | 1) Near Site Office<br>2) Terrace of WTP Plant<br>3) Terrace of Bachelor Guest House                                                       | <b>Sample Quantity/Packing</b>     | Filter Paper (PM <sub>10</sub> ): 3 X 3 No.<br>Filter Paper (PM <sub>2.5</sub> ): 1 X 3 No.<br>SO <sub>2</sub> : 30mL X18 No. PVC Bottle<br>NO <sub>2</sub> : 30mL X18 No. PVC Bottle<br>NH <sub>3</sub> : 10 mL X72 No. PVC Bottle<br>O <sub>3</sub> : 10 mL X 72 No. PVC Bottle<br>3 X 6 No. Charcoal Tubes<br>3 X 3 No. Gas Bladder |
| <b>Date of Sampling</b>                               | 24.11.2020 to 25.11.2020                                                                                                                   | <b>Date of Receipt of Sample</b>   | 25.11.2020                                                                                                                                                                                                                                                                                                                             |
| <b>Sampling Procedure</b>                             | As per Method reference                                                                                                                    |                                    |                                                                                                                                                                                                                                                                                                                                        |
| <b>Date of Start of Analysis</b>                      | 26.11.2020                                                                                                                                 | <b>Date of Receipt of Sample</b>   | 02.12.2020                                                                                                                                                                                                                                                                                                                             |

| Parameter                                                                               | Unit              | Result | #NAAQM Standard | Method Reference                                                                                |
|-----------------------------------------------------------------------------------------|-------------------|--------|-----------------|-------------------------------------------------------------------------------------------------|
| <b>Location</b> 1) Near Site Office                                                     |                   |        |                 | <b>Duration of Survey:</b> 24 hours                                                             |
| <b>Discipline: Chemical Testing; Product Group: Atmospheric Pollution (Ambient Air)</b> |                   |        |                 |                                                                                                 |
| Sulphur Dioxide (SO <sub>2</sub> )                                                      | µg/m <sup>3</sup> | 13.3   | 80              | CPCB Guidelines for the Measurement of Ambient Air Pollutants, Volume I, 2012-13, Page No.1-6   |
| Nitrogen Dioxide (NO <sub>2</sub> )                                                     | µg/m <sup>3</sup> | 17.6   | 80              | CPCB Guidelines for the Measurement of Ambient Air Pollutants, Volume I, 2012-13, Page No.7-10  |
| Particulate Matter (size less than 10µm) or PM <sub>10</sub>                            | µg/m <sup>3</sup> | 53     | 100             | CPCB Guidelines for the Measurement of Ambient Air Pollutants, Volume I, 2012-13, Page No.11-14 |
| Particulate Matter (size less than 2.5µm) or PM <sub>2.5</sub>                          | µg/m <sup>3</sup> | 20     | 60              | CPCB Guidelines for the Measurement of Ambient Air Pollutants, Volume I, 2012-13, Page No.15-30 |
| Ozone (O <sub>3</sub> )                                                                 | µg/m <sup>3</sup> | <19.6  | 180             | CPCB Guidelines for the Measurement of Ambient Air Pollutants, Volume I, 2012-13, Page No.31-34 |



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| Parameter                                                      | Unit                    | Result | #NAAQM Standard | Method Reference                                                                                |
|----------------------------------------------------------------|-------------------------|--------|-----------------|-------------------------------------------------------------------------------------------------|
| Carbon Monoxide (CO)                                           | mg/m <sup>3</sup>       | 0.95   | 4.0             | IS 5182 (Part 10):1999 RA 2003                                                                  |
| Ammonia (NH <sub>3</sub> )                                     | µg/m <sup>3</sup>       | <20    | 400             | CPCB Guidelines for the Measurement of Ambient Air Pollutants, Volume I, 2012-13, Page No.35-39 |
| Benzene (C <sub>6</sub> H <sub>6</sub> )                       | µg/m <sup>3</sup>       | 1.06   | 5.0             | IS 5182 (Part 11): 2006                                                                         |
| Benzo (a) Pyrene (Particulate phase only)                      | ng/m <sup>3</sup>       | <0.5   | 1.0             | CPCB Guidelines for the Measurement of Ambient Air Pollutants, Volume I, 2012-13, Page No.40-47 |
| Arsenic (as As)                                                | ng/m <sup>3</sup>       | 0.32   | 6.0             | CPCB Guidelines for the Measurement of Ambient Air Pollutants, Volume I, 2012-13, Page No.48-55 |
| <b>Location</b>                                                | 2) Terrace of WTP Plant |        |                 | <b>Duration of Survey:</b> 24 hours                                                             |
| Sulphur Dioxide (SO <sub>2</sub> )                             | µg/m <sup>3</sup>       | 13.3   | 80              | CPCB Guidelines for the Measurement of Ambient Air Pollutants, Volume I, 2012-13, Page No.1-6   |
| Nitrogen Dioxide (NO <sub>2</sub> )                            | µg/m <sup>3</sup>       | 16.2   | 80              | CPCB Guidelines for the Measurement of Ambient Air Pollutants, Volume I, 2012-13, Page No.7-10  |
| Particulate Matter (size less than 10µm) or PM <sub>10</sub>   | µg/m <sup>3</sup>       | 55     | 100             | CPCB Guidelines for the Measurement of Ambient Air Pollutants, Volume I, 2012-13, Page No.11-14 |
| Particulate Matter (size less than 2.5µm) or PM <sub>2.5</sub> | µg/m <sup>3</sup>       | 22     | 60              | CPCB Guidelines for the Measurement of Ambient Air Pollutants, Volume I, 2012-13, Page No.15-30 |
| Ozone (O <sub>3</sub> )                                        | µg/m <sup>3</sup>       | <19.6  | 180             | CPCB Guidelines for the Measurement of Ambient Air Pollutants, Volume I, 2012-13, Page No.31-34 |
| Carbon Monoxide (CO)                                           | mg/m <sup>3</sup>       | 1.03   | 4.0             | IS 5182 (Part 10):1999 RA 2003                                                                  |
| Ammonia (NH <sub>3</sub> )                                     | µg/m <sup>3</sup>       | 23.1   | 400             | CPCB Guidelines for the Measurement of Ambient Air Pollutants, Volume I, 2012-13, Page No.35-39 |
| Benzene (C <sub>6</sub> H <sub>6</sub> )                       | µg/m <sup>3</sup>       | 1.05   | 5.0             | IS 5182 (Part 11): 2006                                                                         |
| Benzo(a)Pyrene (Particulate phase only)                        | ng/m <sup>3</sup>       | <0.5   | 1.0             | CPCB Guidelines for the Measurement of Ambient Air Pollutants, Volume I, 2012-13, Page No.40-47 |
| Arsenic (as As)                                                | ng/m <sup>3</sup>       | <0.3   | 6.0             | CPCB Guidelines for the Measurement of Ambient Air Pollutants, Volume I, 2012-13, Page No.48-55 |

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| Parameter                                                                                                                                                                                                                                                                                | Unit                               | Result | #NAAQM Standard | Method Reference                                                                                |
|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------|--------|-----------------|-------------------------------------------------------------------------------------------------|
| <b>Location</b>                                                                                                                                                                                                                                                                          | 3) Terrace of Bachelor Guest House |        |                 | <b>Duration of Survey:</b> 24 hours                                                             |
| Sulphur Dioxide (SO <sub>2</sub> )                                                                                                                                                                                                                                                       | µg/m <sup>3</sup>                  | 9.22   | 80              | CPCB Guidelines for the Measurement of Ambient Air Pollutants, Volume I, 2012-13, Page No.1-6   |
| Nitrogen Dioxide (NO <sub>2</sub> )                                                                                                                                                                                                                                                      | µg/m <sup>3</sup>                  | 17.6   | 80              | CPCB Guidelines for the Measurement of Ambient Air Pollutants, Volume I, 2012-13, Page No.7-10  |
| Particulate Matter (size less than 10µm) or PM <sub>10</sub>                                                                                                                                                                                                                             | µg/m <sup>3</sup>                  | 57     | 100             | CPCB Guidelines for the Measurement of Ambient Air Pollutants, Volume I, 2012-13, Page No.11-14 |
| Particulate Matter (size less than 2.5µm) or PM <sub>2.5</sub>                                                                                                                                                                                                                           | µg/m <sup>3</sup>                  | 19     | 60              | CPCB Guidelines for the Measurement of Ambient Air Pollutants, Volume I, 2012-13, Page No.15-30 |
| Ozone (O <sub>3</sub> )                                                                                                                                                                                                                                                                  | µg/m <sup>3</sup>                  | <19.6  | 180             | CPCB Guidelines for the Measurement of Ambient Air Pollutants, Volume I, 2012-13, Page No.31-34 |
| Carbon Monoxide (CO)                                                                                                                                                                                                                                                                     | mg/m <sup>3</sup>                  | 1.01   | 4.0             | IS 5182 (Part 10):1999 RA 2003                                                                  |
| Ammonia (NH <sub>3</sub> )                                                                                                                                                                                                                                                               | µg/m <sup>3</sup>                  | 21.2   | 400             | CPCB Guidelines for the Measurement of Ambient Air Pollutants, Volume I, 2012-13, Page No.35-39 |
| Benzene (C <sub>6</sub> H <sub>6</sub> )                                                                                                                                                                                                                                                 | µg/m <sup>3</sup>                  | 1.11   | 5.0             | IS 5182 (Part 11): 2006                                                                         |
| Benzo(a)Pyrene Particulate phase only)                                                                                                                                                                                                                                                   | ng/m <sup>3</sup>                  | <0.5   | 1.0             | CPCB Guidelines for the Measurement of Ambient Air Pollutants, Volume I, 2012-13, Page No.40-47 |
| Arsenic (as As)                                                                                                                                                                                                                                                                          | ng/m <sup>3</sup>                  | <0.3   | 6.0             | CPCB Guidelines for the Measurement of Ambient Air Pollutants, Volume I, 2012-13, Page No.48-55 |
| <b>Remarks:</b> TWA - Time Weighted Average., # - NAAQS specified as: 24h. TWA in case of Sulphur Dioxide, Nitrogen Dioxide, PM <sub>10</sub> , PM <sub>2.5</sub> , and Ammonia; 1h. TWA in case of Carbon Monoxide and Ozone; Annual TWA in case of Benzene, Benzo (a) Pyrene, Arsenic. |                                    |        |                 |                                                                                                 |

-END-

FOR MAHABAL ENVIRO ENGINEERS PVT. LTD.

Kishor C. Yeole

**BRANCH MANAGER**

Note:

1. The result listed refers only to the tested sample(s) and applicable parameter(s).
2. This report is not to be reproduced except in full, without written approval of the laboratory.

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## Ambient Air Quality Monitoring Report

|                                                       |                                                                                                                                            |                                  |                                            |
|-------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------|--------------------------------------------|
| <b>Report No.:</b> ME-NG15837-201202-SA-RIPL-AMRAVATI |                                                                                                                                            | <b>Date:</b> 02.12.2020          |                                            |
| <b>Name and address of Customer</b>                   | <b>RATTANINDIA POWER LIMITED</b><br>Plot No.D-2 & D-2 (PART) at<br>Additional MIDC, Village-Nandgaonpeth,<br>Tal & Dist: Amravati 444 901. |                                  | <b>Order Reference:</b>                    |
|                                                       |                                                                                                                                            |                                  | SO No. 3382017462<br>Dt.16.08.2019         |
| <b>Sample Description/Type</b>                        | Ambient Air Quality Monitoring                                                                                                             | <b>Sample Collected by</b>       | Laboratory                                 |
| <b>Sampling Location</b>                              | 1) Near Site Office<br>2) Terrace of WTP Plant<br>3) Terrace of Bachelor Guest House                                                       | <b>Sample Quantity/ Packing</b>  | Filter Paper (PM <sub>10</sub> ): 3 X 3 No |
| <b>Date of Sampling</b>                               | 24.11.2020 to 25.11.2020                                                                                                                   | <b>Date of Receipt of Sample</b> | 25.11.2020                                 |
| <b>Sampling Procedure</b>                             | As per Method reference                                                                                                                    |                                  |                                            |
| <b>Date of Start of Analysis</b>                      | 26.11.2020                                                                                                                                 | <b>Date of Receipt of Sample</b> | 02.12.2020                                 |

| Parameter                                                                                                           | Unit                               | Result | #NAAQM Standard | Method Reference                                                                                             |
|---------------------------------------------------------------------------------------------------------------------|------------------------------------|--------|-----------------|--------------------------------------------------------------------------------------------------------------|
| Location                                                                                                            | 1) Near Site Office                |        |                 | Duration of Survey: 24 hours                                                                                 |
| Discipline: Chemical Testing; Product Group: Atmospheric Pollution (Ambient Air)                                    |                                    |        |                 |                                                                                                              |
| Lead (as Pb)                                                                                                        | µg/m <sup>3</sup>                  | <0.02  | 1.0             | CPCB Guidelines for the Measurement of Ambient Air Pollutants, Volume I, 2012-13, Page No.48-55 (ICP Method) |
| Nickel (as Ni)                                                                                                      | ng/m <sup>3</sup>                  | 4.20   | 20.0            | CPCB Guidelines for the Measurement of Ambient Air Pollutants, Volume I, 2012-13, Page No.48-55 (ICP Method) |
| Location                                                                                                            | 2) Terrace of WTP Plant            |        |                 | Duration of Survey: 24 hours                                                                                 |
| Lead (as Pb)                                                                                                        | µg/m <sup>3</sup>                  | <0.02  | 1.0             | CPCB Guidelines for the Measurement of Ambient Air Pollutants, Volume I, 2012-13, Page No.48-55 (ICP Method) |
| Nickel (as Ni)                                                                                                      | ng/m <sup>3</sup>                  | 5.10   | 20.0            | CPCB Guidelines for the Measurement of Ambient Air Pollutants, Volume I, 2012-13, Page No.48-55 (ICP Method) |
| Location                                                                                                            | 3) Terrace of Bachelor Guest House |        |                 | Duration of Survey: 24 hours                                                                                 |
| Lead (as Pb)                                                                                                        | µg/m <sup>3</sup>                  | <0.02  | 1.0             | CPCB Guidelines for the Measurement of Ambient Air Pollutants, Volume I, 2012-13, Page No.48-55 (ICP Method) |
| Nickel (as Ni)                                                                                                      | ng/m <sup>3</sup>                  | <3     | 20.0            | CPCB Guidelines for the Measurement of Ambient Air Pollutants, Volume I, 2012-13, Page No.48-55 (ICP Method) |
| Remarks: TWA -Time Weighted Average, #- NAAQS specified as: 24h. TWA in case of Lead; Annual TWA in case of Nickel. |                                    |        |                 |                                                                                                              |

-----END-----

FOR MAHABAL ENVIRO ENGINEERS PVT. LTD.

Kishor C. Yeole

**BRANCH MANAGER**



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QF/SALE/03/Issue No 03 Dt 05.12.2019,Amd 00 Dt 00

**Plot No. F-7, Road No. 21, MIDC Wagle Estate, Thane West - 400604, Maharashtra**  
(600 m from Hotel Rukhmini Palace Turn Opp Toyota Show Room. Next to Ashida Electrical - near J B Sawant Bus Stop)  
**Phone: 2582 0658/ 3139/ 1663/ 3154 Fax: 91-22-25823543 [thane@mahabal.com](mailto:thane@mahabal.com)**



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## Ambient Air Quality Monitoring Report

|                                                       |                                                                                                                                           |                                       |                                                                                                                                                                                                                                                                                                                                        |
|-------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Report No.:</b> ME-NG15834-201203-SA-RIPL-AMRAVATI |                                                                                                                                           | <b>Date:</b> 03.12.2020               |                                                                                                                                                                                                                                                                                                                                        |
| <b>Name and address of Customer</b>                   | <b>RATTANINDIA POWER LIMITED</b><br>Plot No.D-2 & D-2 (PART) at<br>Additional MIDC, Village-Nandgaonpeth,<br>Tal & Dist: Amravati 444 901 | <b>Order Reference:</b>               |                                                                                                                                                                                                                                                                                                                                        |
|                                                       |                                                                                                                                           | SO No. 3382017462<br>Dt.16.08.2019    |                                                                                                                                                                                                                                                                                                                                        |
| <b>Sample Description/Type</b>                        | Ambient Air Quality Monitoring                                                                                                            | <b>Sample Collected by</b>            | Laboratory                                                                                                                                                                                                                                                                                                                             |
| <b>Sampling Location</b>                              | 1) Village Kapustalani<br>2) Village Wagholi<br>3) Village Dawargaon                                                                      | <b>Sample Quantity/Packing</b>        | Filter Paper (PM <sub>10</sub> ): 3 X 3 No.<br>Filter Paper (PM <sub>2.5</sub> ): 1 X 3 No.<br>SO <sub>2</sub> : 30mL X18 No. PVC Bottle<br>NO <sub>2</sub> : 30mL X18 No. PVC Bottle<br>NH <sub>3</sub> : 10 mL X72 No. PVC Bottle<br>O <sub>3</sub> : 10 mL X 72 No. PVC Bottle<br>3 X 6 No. Charcoal Tubes<br>3 X 3 No. Gas Bladder |
| <b>Date of Sampling</b>                               | 23.11.2020 to 24.11.2020                                                                                                                  | <b>Date of Receipt of Sample</b>      | 25.11.2020                                                                                                                                                                                                                                                                                                                             |
| <b>Sampling Procedure</b>                             | As per Method reference                                                                                                                   |                                       |                                                                                                                                                                                                                                                                                                                                        |
| <b>Date of Start of Analysis</b>                      | 26.11.2020                                                                                                                                | <b>Date of Completion of Analysis</b> | 02.12.2020                                                                                                                                                                                                                                                                                                                             |

| Parameter                                                                        |                        | Unit              | Result | #NAAQM Standard | Method Reference                                                                                |
|----------------------------------------------------------------------------------|------------------------|-------------------|--------|-----------------|-------------------------------------------------------------------------------------------------|
| Location                                                                         | 1) Village Kapustalani |                   |        |                 | Duration of Survey: 24 hours                                                                    |
| Discipline: Chemical Testing; Product Group: Atmospheric Pollution (Ambient Air) |                        |                   |        |                 |                                                                                                 |
| Sulphur Dioxide (SO <sub>2</sub> )                                               |                        | µg/m <sup>3</sup> | 11.3   | 80              | CPCB Guidelines for the Measurement of Ambient Air Pollutants, Volume I, 2012-13, Page No.1-6   |
| Nitrogen Dioxide (NO <sub>2</sub> )                                              |                        | µg/m <sup>3</sup> | 14.0   | 80              | CPCB Guidelines for the Measurement of Ambient Air Pollutants, Volume I, 2012-13, Page No.7-10  |
| Particulate Matter (size less than 10µm) or PM <sub>10</sub>                     |                        | µg/m <sup>3</sup> | 56     | 100             | CPCB Guidelines for the Measurement of Ambient Air Pollutants, Volume I, 2012-13, Page No.11-14 |
| Particulate Matter (size less than 2.5µm) or PM <sub>2.5</sub>                   |                        | µg/m <sup>3</sup> | 25     | 60              | CPCB Guidelines for the Measurement of Ambient Air Pollutants, Volume I, 2012-13, Page No.15-30 |
| Ozone (O <sub>3</sub> )                                                          |                        | µg/m <sup>3</sup> | 20.1   | 180             | CPCB Guidelines for the Measurement of Ambient Air Pollutants, Volume I, 2012-13, Page No.31-34 |



Report No.15834 Cont...

| Parameter                                                      | Unit               | Result | #NAAQM Standard | Method Reference                                                                                |
|----------------------------------------------------------------|--------------------|--------|-----------------|-------------------------------------------------------------------------------------------------|
| Carbon Monoxide (CO)                                           | mg/m <sup>3</sup>  | 0.85   | 4.0             | IS 5182 (Part 10):1999 RA 2003                                                                  |
| Ammonia (NH <sub>3</sub> )                                     | µg/m <sup>3</sup>  | 20.8   | 400             | CPCB Guidelines for the Measurement of Ambient Air Pollutants, Volume I, 2012-13, Page No.35-39 |
| Benzene (C <sub>6</sub> H <sub>6</sub> )                       | µg/m <sup>3</sup>  | <1     | 5.0             | IS 5182 (Part 11): 2006                                                                         |
| Benzo (a) Pyrene (Particulate phase only)                      | ng/m <sup>3</sup>  | <0.5   | 1.0             | CPCB Guidelines for the Measurement of Ambient Air Pollutants, Volume I, 2012-13, Page No.40-47 |
| Arsenic (as As)                                                | ng/m <sup>3</sup>  | <0.3   | 6.0             | CPCB Guidelines for the Measurement of Ambient Air Pollutants, Volume I, 2012-13, Page No.48-55 |
| <b>Location</b>                                                | 2) Village Wagholi |        |                 | <b>Duration of Survey:</b> 24 hours                                                             |
| Sulphur Dioxide (SO <sub>2</sub> )                             | µg/m <sup>3</sup>  | 8.2    | 80              | CPCB Guidelines for the Measurement of Ambient Air Pollutants, Volume I, 2012-13, Page No.1-6   |
| Nitrogen Dioxide (NO <sub>2</sub> )                            | µg/m <sup>3</sup>  | 14.8   | 80              | CPCB Guidelines for the Measurement of Ambient Air Pollutants, Volume I, 2012-13, Page No.7-10  |
| Particulate Matter (size less than 10µm) or PM <sub>10</sub>   | µg/m <sup>3</sup>  | 59     | 100             | CPCB Guidelines for the Measurement of Ambient Air Pollutants, Volume I, 2012-13, Page No.11-14 |
| Particulate Matter (size less than 2.5µm) or PM <sub>2.5</sub> | µg/m <sup>3</sup>  | 22     | 60              | CPCB Guidelines for the Measurement of Ambient Air Pollutants, Volume I, 2012-13, Page No.15-30 |
| Ozone (O <sub>3</sub> )                                        | µg/m <sup>3</sup>  | <19.6  | 180             | CPCB Guidelines for the Measurement of Ambient Air Pollutants, Volume I, 2012-13, Page No.31-34 |
| Carbon Monoxide (CO)                                           | mg/m <sup>3</sup>  | 0.78   | 4.0             | IS 5182 (Part 10):1999 RA 2003                                                                  |
| Ammonia (NH <sub>3</sub> )                                     | µg/m <sup>3</sup>  | 21.2   | 400             | CPCB Guidelines for the Measurement of Ambient Air Pollutants, Volume I, 2012-13, Page No.35-39 |
| Benzene (C <sub>6</sub> H <sub>6</sub> )                       | µg/m <sup>3</sup>  | 1.03   | 5.0             | IS 5182 (Part 11): 2006                                                                         |
| Benzo(a)Pyrene (Particulate phase only)                        | ng/m <sup>3</sup>  | <0.5   | 1.0             | CPCB Guidelines for the Measurement of Ambient Air Pollutants, Volume I, 2012-13, Page No.40-47 |
| Arsenic (as As)                                                | ng/m <sup>3</sup>  | 0.33   | 6.0             | CPCB Guidelines for the Measurement of Ambient Air Pollutants, Volume I, 2012-13, Page No.48-55 |

ULR- TC748720000015213F



Report No.15834 Cont..

| Parameter                                                                                                                                                                                                                                                                                | Unit                 | Result | #NAAQM Standard | Method Reference                                                                                |
|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------|--------|-----------------|-------------------------------------------------------------------------------------------------|
| <b>Location</b>                                                                                                                                                                                                                                                                          | 3) Village Dawargaon |        |                 | <b>Duration of Survey:</b> 24 hours                                                             |
| Sulphur Dioxide (SO <sub>2</sub> )                                                                                                                                                                                                                                                       | µg/m <sup>3</sup>    | 11.3   | 80              | CPCB Guidelines for the Measurement of Ambient Air Pollutants, Volume I, 2012-13, Page No.1-6   |
| Nitrogen Dioxide (NO <sub>2</sub> )                                                                                                                                                                                                                                                      | µg/m <sup>3</sup>    | 12.6   | 80              | CPCB Guidelines for the Measurement of Ambient Air Pollutants, Volume I, 2012-13, Page No.7-10  |
| Particulate Matter (size less than 10µm) or PM <sub>10</sub>                                                                                                                                                                                                                             | µg/m <sup>3</sup>    | 49     | 100             | CPCB Guidelines for the Measurement of Ambient Air Pollutants, Volume I, 2012-13, Page No.11-14 |
| Particulate Matter (size less than 2.5µm) or PM <sub>2.5</sub>                                                                                                                                                                                                                           | µg/m <sup>3</sup>    | 18     | 60              | CPCB Guidelines for the Measurement of Ambient Air Pollutants, Volume I, 2012-13, Page No.15-30 |
| Ozone (O <sub>3</sub> )                                                                                                                                                                                                                                                                  | µg/m <sup>3</sup>    | <19.6  | 180             | CPCB Guidelines for the Measurement of Ambient Air Pollutants, Volume I, 2012-13, Page No.31-34 |
| Carbon Monoxide (CO)                                                                                                                                                                                                                                                                     | mg/m <sup>3</sup>    | 0.79   | 4.0             | IS 5182 (Part 10):1999 RA 2003                                                                  |
| Ammonia (NH <sub>3</sub> )                                                                                                                                                                                                                                                               | µg/m <sup>3</sup>    | 22.2   | 400             | CPCB Guidelines for the Measurement of Ambient Air Pollutants, Volume I, 2012-13, Page No.35-39 |
| Benzene (C <sub>6</sub> H <sub>6</sub> )                                                                                                                                                                                                                                                 | µg/m <sup>3</sup>    | 1.04   | 5.0             | IS 5182 (Part 11): 2006                                                                         |
| Benzo(a)Pyrene (Particulate phase only)                                                                                                                                                                                                                                                  | ng/m <sup>3</sup>    | <0.5   | 1.0             | CPCB Guidelines for the Measurement of Ambient Air Pollutants, Volume I, 2012-13, Page No.40-47 |
| Arsenic (as As)                                                                                                                                                                                                                                                                          | ng/m <sup>3</sup>    | <0.3   | 6.0             | CPCB Guidelines for the Measurement of Ambient Air Pollutants, Volume I, 2012-13, Page No.48-55 |
| <b>Remarks:</b> TWA - Time Weighted Average., # - NAAQS specified as: 24h. TWA in case of Sulphur Dioxide, Nitrogen Dioxide, PM <sub>10</sub> , PM <sub>2.5</sub> , and Ammonia; 1h. TWA in case of Carbon Monoxide and Ozone; Annual TWA in case of Benzene, Benzo (a) Pyrene, Arsenic. |                      |        |                 |                                                                                                 |

-END-

FOR MAHABAL ENVIRO ENGINEERS PVT. LTD.

Kishor C. Yeole

**BRANCH MANAGER**

Note:

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ULR- TC748720000015213F





# Mahabal Enviro Engineers Pvt. Ltd.

Engineers, Consultants, Environmental Monitoring Laboratory & Contractors

Plot Nos. 13,14,17,18, Grampanchayat Bokhara, 8 km from Nagpur City,

Opp. Patel Petrol Pump, Chhindwara Road, Koradi, Dist.Nagapur-441111

Phone : 91-712-2612162, 2612212 Email: [mahabal.nagpur@gmail.com](mailto:mahabal.nagpur@gmail.com)

## Ambient Air Quality Monitoring Report

|                                                       |                                                                                                                                           |                                       |                                             |
|-------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------|---------------------------------------------|
| <b>Report No.:</b> ME-NG15834-201203-SA-RIPL-AMRAVATI |                                                                                                                                           | <b>Date:</b> 03.12.2020               |                                             |
| <b>Name and address of Customer</b>                   | <b>RATTANINDIA POWER LIMITED</b><br>Plot No.D-2 & D-2 (PART) at<br>Additional MIDC, Village-Nandgaonpeth,<br>Tal & Dist: Amravati 444 901 | <b>Order Reference:</b>               |                                             |
|                                                       |                                                                                                                                           | SO No. 3382017462<br>Dt.16.08.2019    |                                             |
| <b>Sample Description/Type</b>                        | Ambient Air Quality Monitoring                                                                                                            | <b>Sample Collected by</b>            | Laboratory                                  |
| <b>Sampling Location</b>                              | 1) Village Kapustalani<br>2) Village Wagholi<br>3) Village Dawargaon                                                                      | <b>Sample Quantity/Packing</b>        | Filter Paper (PM <sub>10</sub> ): 3 X 3 No. |
| <b>Date of Sampling</b>                               | 23.11.2020 to<br>24.11.2020                                                                                                               | <b>Date of Receipt of Sample</b>      | 25.11.2020                                  |
| <b>Sampling Procedure</b>                             | As per Method reference                                                                                                                   |                                       |                                             |
| <b>Date of Start of Analysis</b>                      | 26.11.2020                                                                                                                                | <b>Date of Completion of Analysis</b> | 02.12.2020                                  |

| Parameter                                                                        |                        | Unit  | Result | #NAAQM Standard | Method Reference                                                                                             |
|----------------------------------------------------------------------------------|------------------------|-------|--------|-----------------|--------------------------------------------------------------------------------------------------------------|
| Location                                                                         | 1) Village Kapustalani |       |        |                 | Duration of Survey: 24 hours                                                                                 |
| Discipline: Chemical Testing; Product Group: Atmospheric Pollution (Ambient Air) |                        |       |        |                 |                                                                                                              |
| Lead (as Pb)                                                                     |                        | µg/m³ | <0.02  | 1.0             | CPCB Guidelines for the Measurement of Ambient Air Pollutants, Volume I, 2012-13, Page No.48-55 (ICP Method) |
| Nickel (as Ni)                                                                   |                        | ng/m³ | <3     | 20.0            | CPCB Guidelines for the Measurement of Ambient Air Pollutants, Volume I, 2012-13, Page No.48-55 (ICP Method) |
| Location                                                                         | 2) Village Wagholi     |       |        |                 | Duration of Survey: 24 hours                                                                                 |
| Lead (as Pb)                                                                     |                        | µg/m³ | <0.02  | 1.0             | CPCB Guidelines for the Measurement of Ambient Air Pollutants, Volume I, 2012-13, Page No.48-55 (ICP Method) |
| Nickel (as Ni)                                                                   |                        | ng/m³ | 4.84   | 20.0            | CPCB Guidelines for the Measurement of Ambient Air Pollutants, Volume I, 2012-13, Page No.48-55 (ICP Method) |
| Location                                                                         | 3) Village Dawargaon   |       |        |                 | Duration of Survey: 24 hours                                                                                 |
| Lead (as Pb)                                                                     |                        | µg/m³ | <0.02  | 1.0             | CPCB Guidelines for the Measurement of Ambient Air Pollutants, Volume I, 2012-13, Page No.48-55 (ICP Method) |
| Nickel (as Ni)                                                                   |                        | ng/m³ | 4.79   | 20.0            | CPCB Guidelines for the Measurement of Ambient Air Pollutants, Volume I, 2012-13, Page No.48-55 (ICP Method) |

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FOR MAHABAL ENVIRO ENGINEERS PVT. LTD.

Kishor C. Yeole

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Page 1 of 1

QF/SALE/03/Issue No 03 Dt 05.12.2019,Amd 01 Dt 01.03.2020

**Plot No. F-7, Road No. 21, MIDC Wagle Estate, Thane West - 400604, Maharashtra**  
(600 m from Hotel Rukhmini Palace Turn Opp Toyota Show Room. Next to Ashida Electrical - near J B Sawant Bus Stop)  
**Phone: 2582 0658/ 3139/ 1663/ 3154 Fax: 91-22-25823543 [thane@mahabal.com](mailto:thane@mahabal.com)**





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Phone : 91-712-2612162,2612212 Email: [mahabal.nagpur@gmail.com](mailto:mahabal.nagpur@gmail.com)

## Water Sample Analysis Report

|                                                |                                                                                                                                      |                                |                                              |
|------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------|--------------------------------|----------------------------------------------|
| Report No.: ME-NG15848-201203-SA-RIPL-AMRAVATI |                                                                                                                                      |                                | Date: 03.12.2020                             |
| Name and Address of Customer                   | RATTANI INDIA POWER LIMITED<br>Plot No.D-2 & D-2 (PART) at<br>Additional MIDC, Village-Nandgaonpeth,<br>Tal & Dist: Amravati 444 901 |                                | Order Reference:                             |
|                                                |                                                                                                                                      |                                | SO No. 3382017462<br>Dt.16.08.2019           |
| Sample Description/Type                        | Ground Water/Grab                                                                                                                    | Sample Collected by            | Laboratory                                   |
| Sampling Location                              | Mr. N. Lomte Farm<br>Back Side of Ash<br>Dyke Area                                                                                   | Sample Quantity/Packing        | 2 L X 1 No. PVC Can<br>500mL X 1 No. PVC Can |
| Date of Sampling                               | 23.11.2020                                                                                                                           | Date of Receipt of Sample      | 25.11.2020                                   |
| Sampling Procedure                             | IS: 3025(Part I): 1987 RA 2003; APHA 23 <sup>rd</sup> Ed. 2017, 1060-B, 1-40;                                                        |                                |                                              |
| Date of Start of Analysis                      | 25.11.2020                                                                                                                           | Date of Completion of Analysis | 03.12.2020                                   |

| Sr. No.                                                           | Parameter                                | Unit  | Result    | Limit for Drinking water as per IS 10500:2012 |                                                      | Method Reference                                             |
|-------------------------------------------------------------------|------------------------------------------|-------|-----------|-----------------------------------------------|------------------------------------------------------|--------------------------------------------------------------|
|                                                                   |                                          |       |           | Acceptable Limit                              | Permissible Limit in the Absence of Alternate Source |                                                              |
| Discipline: Chemical Testing; Product Group: Water (Ground Water) |                                          |       |           |                                               |                                                      |                                                              |
| 1                                                                 | Colour                                   | Hazen | <1        | 5 Max.                                        | 15 Max.                                              | APHA 23 <sup>rd</sup> Ed. 2017, 2120-B, 2-6                  |
| 2                                                                 | Odour                                    | -     | Agreeable | Agreeable                                     | Agreeable                                            | IS 3025 (Part 5):1984, Reaffirmed 2006                       |
| 3                                                                 | Taste                                    | -     | Agreeable | Agreeable                                     | Agreeable                                            | IS 3025 (Part 7 & 8):1984, Reaffirmed 2006                   |
| 4                                                                 | Turbidity                                | NTU   | 0.5       | 1 Max.                                        | 5 Max.                                               | APHA 23 <sup>rd</sup> Ed. 2017, 2130-B, 2-13                 |
| 5                                                                 | pH                                       | -     | 7.4       | 6.5 to 8.5                                    | No relaxation                                        | APHA 23 <sup>rd</sup> Ed. 2017, 4500-H <sup>+</sup> -B, 4-95 |
| 6                                                                 | Residual Free Chlorine                   | mg/L  | <0.05     | 0.2 Min.                                      | 1.0 Max.                                             | APHA 23 <sup>rd</sup> Ed. 2017, 4500-Cl G, 4-72              |
| 7                                                                 | Total Dissolved Solids                   | mg/L  | 543       | 500 Max.                                      | 2000 Max.                                            | IS 3025 (Part 16):1984 RA 2006, Ed.2.1(1999-12)              |
| 8                                                                 | Total Suspended Solids                   | mg/L  | <5        | -                                             | -                                                    | APHA 23 <sup>rd</sup> Ed. 2017, 2540-D, 2-69                 |
| 9                                                                 | Alkalinity Total (as CaCO <sub>3</sub> ) | mg/L  | 304       | 200 Max.                                      | 600 Max.                                             | IS 3025 (Part 23):1986 Reaffirmed 2009 Amds 1                |
| 10                                                                | Total Hardness (as CaCO <sub>3</sub> )   | mg/L  | 390       | 200 Max.                                      | 600 Max.                                             | APHA 23 <sup>rd</sup> Ed. 2017, 2340-C, 2-48                 |
| 11                                                                | Chloride (as Cl)                         | mg/L  | 29.0      | 250 Max.                                      | 1000 Max.                                            | APHA 23 <sup>rd</sup> Ed. 2017, 4500-Cl-B, 4-75              |

Page 1 of 2

QF/SALE/02/Issue No 03 Dt 05.12.2019,Amd 00 Dt 00

Plot No. F-7, Road No. 21, MIDC Wagle Estate, Thane West - 400604, Maharashtra  
(600 m from Hotel Rukhmini Palace Turn Opp Toyota Show Room. Next to Ashida Electrical - near J B Sawant Bus Stop)  
Phone: 2582 0658/ 3139/ 1663/ 3154 Fax: 91-22-25823543 [thane@mahabal.com](mailto:thane@mahabal.com)

ULR- TC748720000015227F



Report No. 15848 cont...

| Sr. No.                                        | Parameter                      | Unit | Result | Limit for Drinking water as per IS 10500:2012 |                                                      | Method Reference                                               |
|------------------------------------------------|--------------------------------|------|--------|-----------------------------------------------|------------------------------------------------------|----------------------------------------------------------------|
|                                                |                                |      |        | Acceptable Limit                              | Permissible Limit in the Absence of Alternate Source |                                                                |
| 12                                             | Sulphate (as SO <sub>4</sub> ) | mg/L | 66.0   | 200 Max.                                      | 400 Max.                                             | APHA 23 <sup>rd</sup> Ed. 2017, 4500-SO <sub>4</sub> -E, 4-199 |
| 13                                             | Nitrate (as NO <sub>3</sub> )  | mg/L | 43.2   | 45 Max.                                       | No relaxation                                        | APHA 23 <sup>rd</sup> Ed. 2017, 4500-NO <sub>3</sub> , E 4-131 |
| 14                                             | Calcium (as Ca)                | mg/L | 103    | 75 Max.                                       | 200 Max.                                             | APHA 23 <sup>rd</sup> Ed. 2017, 3500-Ca-B, 3-69                |
| 15                                             | Magnesium (as Mg)              | mg/L | 32.6   | 30 Max.                                       | 100 Max.                                             | APHA 23 <sup>rd</sup> Ed. 2017, 3500-Mg- B, 3-86               |
| 16                                             | Fluoride (as F)                | mg/L | 0.429  | 1 Max.                                        | 1.5 Max.                                             | APHA 23 <sup>rd</sup> Ed. 2017, 4500-F, D, 4-90                |
| 17                                             | Boron (as B)                   | mg/L | <0.1   | 0.5 Max.                                      | 2.4 Max.                                             | APHA 23 <sup>rd</sup> Ed. 2017, 4500-B B, 4-27                 |
| 18                                             | Dissolved Oxygen               | mg/L | 6.2    | -                                             | -                                                    | APHA 23 <sup>rd</sup> Ed. 2017, 4500-O, B & C, 4-144, 4-146    |
| <b>Residues in water (Trace metal Element)</b> |                                |      |        |                                               |                                                      |                                                                |
| 19                                             | Aluminium (as Al)              | mg/L | <0.025 | 0.03 Max.                                     | 0.2 Max.                                             | APHA 23 <sup>rd</sup> Ed. 2017, 3500-AI-B, 3-63                |
| 20                                             | Arsenic (as As)                | mg/L | N.D.   | 0.01 Max.                                     | No relaxation                                        | IS 3025 (Part 37), 1988 RA 2009                                |
| 21                                             | Mercury (as Hg)                | mg/L | N.D.   | 0.001Max.                                     | No relaxation                                        | APHA 23 <sup>rd</sup> Ed. 2017, 3112-B, 3-25                   |
| <b>Remarks:</b> N.D.: Not Detected             |                                |      |        |                                               |                                                      |                                                                |

END

FOR MAHABAL ENVIRO ENGINEERS PVT. LTD.

Kishor C. Yeole

BRANCH MANAGER



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Phone : 91-712-2612162,2612212 Email: [mahabal.nagpur@gmail.com](mailto:mahabal.nagpur@gmail.com)

## Water Sample Analysis Report

|                                                       |                                                                                                                                             |                                       |                                                                         |
|-------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------|-------------------------------------------------------------------------|
| <b>Report No.:</b> ME-NG15848-201203-SA-RIPL-AMRAVATI |                                                                                                                                             |                                       | <b>Date:</b> 03.12.2020                                                 |
| <b>Name and Address of Customer</b>                   | <b>RATTANIINDIA POWER LIMITED</b><br>Plot No.D-2 & D-2 (PART) at<br>Additional MIDC, Village-Nandgaonpeth,<br>Tal & Dist: Amravati 444 901. |                                       | <b>Order Reference:</b>                                                 |
|                                                       |                                                                                                                                             |                                       | SO No. 3382017462<br>Dt.16.08.2019                                      |
| <b>Sample Description/Type</b>                        | Ground Water/Grab                                                                                                                           | <b>Sample Collected by</b>            | Laboratory                                                              |
| <b>Sampling Location</b>                              | Mr. N. Lomte Farm<br>Back Side of Ash<br>Dyke Area                                                                                          | <b>Sample Quantity/Packing</b>        | 2 L X 1 No. PVC Can<br>500mL X 1 No. PVC Can<br>1L X 1 No. Glass Bottle |
| <b>Date of Sampling</b>                               | 23.11.2020                                                                                                                                  | <b>Date of Receipt of Sample</b>      | 25.11.2020                                                              |
| <b>Sampling Procedure</b>                             | IS: 3025(Part I): 1987 RA 2003; APHA 23 <sup>rd</sup> Ed. 2017, 1060-B, 1-40;                                                               |                                       |                                                                         |
| <b>Date of Start of Analysis</b>                      | 25.11.2020                                                                                                                                  | <b>Date of Completion of Analysis</b> | 03.12.2020                                                              |

| Sr. No.                                                           | Parameter                                                | Unit | Result | Limit for Drinking water as per IS 10500:2012 |                                                      | Method Reference                                            |
|-------------------------------------------------------------------|----------------------------------------------------------|------|--------|-----------------------------------------------|------------------------------------------------------|-------------------------------------------------------------|
|                                                                   |                                                          |      |        | Acceptable Limit                              | Permissible Limit in the Absence of Alternate Source |                                                             |
| Discipline: Chemical Testing; Product Group: Water (Ground Water) |                                                          |      |        |                                               |                                                      |                                                             |
| 1.                                                                | Oil and Grease                                           | mg/L | N.D.   | -                                             | -                                                    | IS 3025 (Part 39): 1991, Reaffirmed 2009, Amds.1            |
| 2.                                                                | Cyanide (as CN)                                          | mg/L | N.D.   | 0.05 Max.                                     | No relaxation                                        | APHA 23 <sup>rd</sup> Ed. 2017, 4500-CN, C & E, 4-44 & 4-46 |
| 3.                                                                | Phenolic Compounds (as C <sub>6</sub> H <sub>5</sub> OH) | mg/L | N.D.   | 0.001 Max.                                    | 0.002 Max.                                           | APHA 23 <sup>rd</sup> Ed. 2017, 5530- B & C, 5-49, 5-50     |
| Residues in water (Trace metal Element)                           |                                                          |      |        |                                               |                                                      |                                                             |
| 4.                                                                | Selenium (as Se)                                         | mg/L | N.D.   | 0.01 Max.                                     | No relaxation                                        | APHA 23 <sup>rd</sup> Ed. 2017, 3500-C, 3-95                |
| 5.                                                                | Iron (as Fe)                                             | mg/L | <0.08  | 0.3 Max.                                      | No relaxation.                                       | IS 3025 (Part-2) 2004, RA 2014                              |
| 6.                                                                | Copper (as Cu)                                           | mg/L | <0.04  | 0.05 Max.                                     | 1.5 Max.                                             | IS 3025 (Part-2) 2004, RA 2014                              |
| 7.                                                                | Chromium Total (as Cr)                                   | mg/L | N.D.   | 0.05 Max.                                     | No relaxation                                        | IS 3025 (Part-2) 2004, RA 2014                              |
| 8.                                                                | Zinc (as Zn)                                             | mg/L | 0.019  | 5 Max.                                        | 15 Max.                                              | IS 3025 (Part-2) 2004, RA 2014                              |
| 9.                                                                | Cadmium (as Cd)                                          | mg/L | N.D.   | 0.003Max.                                     | No relaxation                                        | IS 3025 (Part-2) 2004, RA 2014                              |
| 10.                                                               | Lead (as Pb)                                             | mg/L | N.D.   | 0.01 Max.                                     | No relaxation                                        | IS 3025 (Part-2) 2004, RA 2014                              |

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QF/SALE/02/Issue No 03 Dt 05.12.2019,Amd 00 Dt 00

**Plot No. F-7, Road No. 21, MIDC Wagle Estate, Thane West - 400604, Maharashtra**  
(600 m from Hotel Rukhmini Palace Turn Opp Toyota Show Room. Next to Ashida Electrical - near J B Sawant Bus Stop)  
**Phone: 2582 0658/ 3139/ 1663/ 3154 Fax: 91-22-25823543 [thane@mahabal.com](mailto:thane@mahabal.com)**




Report No. 15846 cont...

| Sr. No.                            | Parameter         | Unit | Result | Limit for Drinking water as per IS 10500:2012 |                                                      | Method Reference               |
|------------------------------------|-------------------|------|--------|-----------------------------------------------|------------------------------------------------------|--------------------------------|
|                                    |                   |      |        | Acceptable Limit                              | Permissible Limit in the Absence of Alternate Source |                                |
| 11.                                | Manganese (as Mn) | mg/L | <0.04  | 0.1 Max.                                      | 0.3 Max.                                             | IS 3025 (Part-2) 2004, RA 2014 |
| <b>Remarks:</b> N.D.: Not Detected |                   |      |        |                                               |                                                      |                                |

-----END-----

FOR MAHABAL ENVIRO ENGINEERS PVT. LTD.

  
Kishor C. Yeole

**BRANCH MANAGER**



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Phone : 91-712-2612162,2612212 Email: [mahabal.nagpur@gmail.com](mailto:mahabal.nagpur@gmail.com)

## Water Sample Analysis Report

|                                                |                                                                                                                                      |                                |                                              |
|------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------|--------------------------------|----------------------------------------------|
| Report No.: ME-NG15842-201203-SA-RIPL-AMRAVATI |                                                                                                                                      |                                | Date: 03.12.2020                             |
| Name and Address of Customer                   | RATTANI INDIA POWER LIMITED<br>Plot No.D-2 & D-2 (PART) at<br>Additional MIDC, Village-Nandgaonpeth,<br>Tal & Dist: Amravati 444 901 |                                | Order Reference:                             |
|                                                |                                                                                                                                      |                                | SO No. 3382017462<br>Dt.16.08.2019           |
| Sample Description/Type                        | Ground Water/Grab                                                                                                                    | Sample Collected by            | Laboratory                                   |
| Sampling Location                              | Well water of Wagholi                                                                                                                | Sample Quantity/Packing        | 2 L X 1 No. PVC Can<br>500mL X 1 No. PVC Can |
| Date of Sampling                               | 23.11.2020                                                                                                                           | Date of Receipt of Sample      | 25.11.2020                                   |
| Sampling Procedure                             | IS: 3025(Part I): 1987 RA 2003; APHA 23 <sup>rd</sup> Ed. 2017, 1060-B, 1-40;                                                        |                                |                                              |
| Date of Start of Analysis                      | 25.11.2020                                                                                                                           | Date of Completion of Analysis | 03.12.2020                                   |

| Sr. No.                                                           | Parameter                                | Unit  | Result    | Limit for Drinking water as per IS 10500:2012 |                                                      | Method Reference                                             |
|-------------------------------------------------------------------|------------------------------------------|-------|-----------|-----------------------------------------------|------------------------------------------------------|--------------------------------------------------------------|
|                                                                   |                                          |       |           | Acceptable Limit                              | Permissible Limit in the Absence of Alternate Source |                                                              |
| Discipline: Chemical Testing; Product Group: Water (Ground Water) |                                          |       |           |                                               |                                                      |                                                              |
| 1                                                                 | Colour                                   | Hazen | <1        | 5 Max.                                        | 15 Max.                                              | APHA 23 <sup>rd</sup> Ed. 2017, 2120-B, 2-6                  |
| 2                                                                 | Odour                                    | -     | Agreeable | Agreeable                                     | Agreeable                                            | IS 3025 (Part 5):1984, Reaffirmed 2006                       |
| 3                                                                 | Taste                                    | -     | Agreeable | Agreeable                                     | Agreeable                                            | IS 3025 (Part 7 & 8):1984, Reaffirmed 2006                   |
| 4                                                                 | Turbidity                                | NTU   | 0.9       | 1 Max.                                        | 5 Max.                                               | APHA 23 <sup>rd</sup> Ed. 2017, 2130-B, 2-13                 |
| 5                                                                 | pH                                       | -     | 7.8       | 6.5 to 8.5                                    | No relaxation                                        | APHA 23 <sup>rd</sup> Ed. 2017, 4500-H <sup>+</sup> -B, 4-95 |
| 6                                                                 | Residual Free Chlorine                   | mg/L  | <0.05     | 0.2 Min.                                      | 1.0 Max.                                             | APHA 23 <sup>rd</sup> Ed. 2017, 4500-Cl G, 4-72              |
| 7                                                                 | Total Dissolved Solids                   | mg/L  | 510       | 500 Max.                                      | 2000 Max.                                            | IS 3025 (Part 16):1984 RA 2006, Ed.2.1(1999-12)              |
| 8                                                                 | Total Suspended Solids                   | mg/L  | <5        | -                                             | -                                                    | APHA 23 <sup>rd</sup> Ed. 2017, 2540-D, 2-69                 |
| 9                                                                 | Alkalinity Total (as CaCO <sub>3</sub> ) | mg/L  | 140       | 200 Max.                                      | 600 Max.                                             | IS 3025 (Part 23):1986 Reaffirmed 2009 Amds 1                |
| 10                                                                | Total Hardness (as CaCO <sub>3</sub> )   | mg/L  | 348       | 200 Max.                                      | 600 Max.                                             | APHA 23 <sup>rd</sup> Ed. 2017, 2340-C, 2-48                 |
| 11                                                                | Chloride (as Cl)                         | mg/L  | 54.0      | 250 Max.                                      | 1000 Max.                                            | APHA 23 <sup>rd</sup> Ed. 2017, 4500-Cl-B, 4-75              |

Page 1 of 2

QF/SALE/02/Issue No 03 Dt 05.12.2019,Amd 00 Dt 00

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Phone: 2582 0658/ 3139/ 1663/ 3154 Fax: 91-22-25823543 [thane@mahabal.com](mailto:thane@mahabal.com)

ULR- TC748720000015221F



Report No. 15842 cont...

| Sr. No.                                        | Parameter                      | Unit | Result | Limit for Drinking water as per IS 10500:2012 |                                                      | Method Reference                                               |
|------------------------------------------------|--------------------------------|------|--------|-----------------------------------------------|------------------------------------------------------|----------------------------------------------------------------|
|                                                |                                |      |        | Acceptable Limit                              | Permissible Limit in the Absence of Alternate Source |                                                                |
| 12                                             | Sulphate (as SO <sub>4</sub> ) | mg/L | 160    | 200 Max.                                      | 400 Max.                                             | APHA 23 <sup>rd</sup> Ed. 2017, 4500-SO <sub>4</sub> -E, 4-199 |
| 13                                             | Nitrate (as NO <sub>3</sub> )  | mg/L | 29.3   | 45 Max.                                       | No relaxation                                        | APHA 23 <sup>rd</sup> Ed. 2017, 4500-NO <sub>3</sub> , E 4-131 |
| 14                                             | Calcium (as Ca)                | mg/L | 89.8   | 75 Max.                                       | 200 Max.                                             | APHA 23 <sup>rd</sup> Ed. 2017, 3500-Ca-B, 3-69                |
| 15                                             | Magnesium (as Mg)              | mg/L | 30.1   | 30 Max.                                       | 100 Max.                                             | APHA 23 <sup>rd</sup> Ed. 2017, 3500-Mg- B, 3-86               |
| 16                                             | Fluoride (as F)                | mg/L | 0.377  | 1 Max.                                        | 1.5 Max.                                             | APHA 23 <sup>rd</sup> Ed. 2017, 4500-F, D, 4-90                |
| 17                                             | Boron (as B)                   | mg/L | <0.1   | 0.5 Max.                                      | 2.4 Max.                                             | APHA 23 <sup>rd</sup> Ed. 2017, 4500-B B, 4-27                 |
| 18                                             | Dissolved Oxygen               | mg/L | 6.6    | -                                             | -                                                    | APHA 23 <sup>rd</sup> Ed. 2017, 4500-O, B & C, 4-144, 4-146    |
| <b>Residues in water (Trace metal Element)</b> |                                |      |        |                                               |                                                      |                                                                |
| 19                                             | Aluminium (as Al)              | mg/L | <0.025 | 0.03 Max.                                     | 0.2 Max.                                             | APHA 23 <sup>rd</sup> Ed. 2017, 3500-Al-B, 3-63                |
| 20                                             | Arsenic (as As)                | mg/L | N.D.   | 0.01 Max.                                     | No relaxation                                        | IS 3025 (Part 37), 1988 RA 2009                                |
| 21                                             | Mercury (as Hg)                | mg/L | N.D.   | 0.001Max.                                     | No relaxation                                        | APHA 23 <sup>rd</sup> Ed. 2017, 3112-B, 3-25                   |
| <b>Remarks:</b> N.D.: Not Detected             |                                |      |        |                                               |                                                      |                                                                |

END

FOR MAHABAL ENVIRO ENGINEERS PVT. LTD.

Kishor C. Yeole

BRANCH MANAGER



Note:

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Engineers, Consultants, Environmental Monitoring Laboratory & Contractors

Plot Nos. 13,14,17,18, Grampanchayat Bokhara, 8 km from Nagpur City,

Opp. Patel Petrol Pump, Chhindwara Road, Koradi, Dist.Nagpur-441111

Phone : 91-712-2612162,2612212 Email: [mahabal.nagpur@gmail.com](mailto:mahabal.nagpur@gmail.com)

## Water Sample Analysis Report

|                                                       |                                                                                                                                            |                                       |                                                                         |
|-------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------|-------------------------------------------------------------------------|
| <b>Report No.:</b> ME-NG15842-201203-SA-RIPL-AMRAVATI |                                                                                                                                            |                                       | <b>Date:</b> 03.12.2020                                                 |
| <b>Name and Address of Customer</b>                   | <b>RATTANINDIA POWER LIMITED</b><br>Plot No.D-2 & D-2 (PART) at<br>Additional MIDC, Village-Nandgaonpeth,<br>Tal & Dist: Amravati 444 901. |                                       | <b>Order Reference:</b>                                                 |
|                                                       |                                                                                                                                            |                                       | SO No. 3382017462<br>Dt.16.08.2019                                      |
| <b>Sample Description/Type</b>                        | Ground Water/Grab                                                                                                                          | <b>Sample Collected by</b>            | Laboratory                                                              |
| <b>Sampling Location</b>                              | Well Water Rasalpur Village                                                                                                                | <b>Sample Quantity/Packing</b>        | 2 L X 1 No. PVC Can<br>500mL X 1 No. PVC Can<br>1L X 1 No. Glass Bottle |
| <b>Date of Sampling</b>                               | 23.11.2020                                                                                                                                 | <b>Date of Receipt of Sample</b>      | 25.11.2020                                                              |
| <b>Sampling Procedure</b>                             | IS: 3025(Part I): 1987 RA 2003; APHA 23 <sup>rd</sup> Ed. 2017, 1060-B, 1-40;                                                              |                                       |                                                                         |
| <b>Date of Start of Analysis</b>                      | 25.11.2020                                                                                                                                 | <b>Date of Completion of Analysis</b> | 03.11.2020                                                              |

| Sr. No.                                                           | Parameter                                                | Unit | Result | Limit for Drinking water as per IS 10500:2012 |                                                      | Method Reference                                            |
|-------------------------------------------------------------------|----------------------------------------------------------|------|--------|-----------------------------------------------|------------------------------------------------------|-------------------------------------------------------------|
|                                                                   |                                                          |      |        | Acceptable Limit                              | Permissible Limit in the Absence of Alternate Source |                                                             |
| Discipline: Chemical Testing; Product Group: Water (Ground Water) |                                                          |      |        |                                               |                                                      |                                                             |
| 1.                                                                | Oil and Grease                                           | mg/L | N.D.   | -                                             | -                                                    | IS 3025 (Part 39): 1991, Reaffirmed 2009, Amds.1            |
| 2.                                                                | Cyanide (as CN)                                          | mg/L | N.D.   | 0.05 Max.                                     | No relaxation                                        | APHA 23 <sup>rd</sup> Ed. 2017, 4500-CN, C & E, 4-44 & 4-46 |
| 3.                                                                | Phenolic Compounds (as C <sub>6</sub> H <sub>5</sub> OH) | mg/L | N.D.   | 0.001 Max.                                    | 0.002 Max.                                           | APHA 23 <sup>rd</sup> Ed. 2017, 5530- B & C, 5-49, 5-50     |
| Residues in water (Trace metal Element)                           |                                                          |      |        |                                               |                                                      |                                                             |
| 4.                                                                | Selenium (as Se)                                         | mg/L | N.D.   | 0.01 Max.                                     | No relaxation                                        | APHA 23 <sup>rd</sup> Ed. 2017, 3500-C, 3-95                |
| 5.                                                                | Iron (as Fe)                                             | mg/L | 0.095  | 0.3 Max.                                      | No relaxation.                                       | IS 3025 (Part-2) 2004, RA 2014                              |
| 6.                                                                | Copper (as Cu)                                           | mg/L | <0.04  | 0.05 Max.                                     | 1.5 Max.                                             | IS 3025 (Part-2) 2004, RA 2014                              |
| 7.                                                                | Chromium Total (as Cr)                                   | mg/L | <0.1   | 0.05 Max.                                     | No relaxation                                        | IS 3025 (Part-2) 2004, RA 2014                              |
| 8.                                                                | Zinc (as Zn)                                             | mg/L | 0.014  | 5 Max.                                        | 15 Max.                                              | IS 3025 (Part-2) 2004, RA 2014                              |
| 9.                                                                | Cadmium (as Cd)                                          | mg/L | N.D.   | 0.003Max.                                     | No relaxation                                        | IS 3025 (Part-2) 2004, RA 2014                              |
| 10.                                                               | Lead (as Pb)                                             | mg/L | N.D.   | 0.01 Max.                                     | No relaxation                                        | IS 3025 (Part-2) 2004, RA 2014                              |

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QF/SALE/02/Issue No 03 Dt 05.12.2019,Amd 00 Dt 00

**Plot No. F-7, Road No. 21, MIDC Wagle Estate, Thane West - 400604, Maharashtra**  
(600 m from Hotel Rukhmini Palace Turn Opp Toyota Show Room. Next to Ashida Electrical - near J B Sawant Bus Stop)  
**Phone: 2582 0658/ 3139/ 1663/ 3154 Fax: 91-22-25823543 [thane@mahabal.com](mailto:thane@mahabal.com)**






Report No. 15842 cont...

| Sr. No.                     | Parameter         | Unit | Result | Limit for Drinking water as per IS 10500:2012 |                                                      | Method Reference               |
|-----------------------------|-------------------|------|--------|-----------------------------------------------|------------------------------------------------------|--------------------------------|
|                             |                   |      |        | Acceptable Limit                              | Permissible Limit in the Absence of Alternate Source |                                |
| 11.                         | Manganese (as Mn) | mg/L | <0.04  | 0.1 Max.                                      | 0.3 Max.                                             | IS 3025 (Part-2) 2004, RA 2014 |
| Remarks: N.D.: Not Detected |                   |      |        |                                               |                                                      |                                |

-----END-----

FOR MAHABAL ENVIRO ENGINEERS PVT. LTD.

  
Kishor C. Yeole**BRANCH MANAGER**

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Opp. Patel Petrol Pump, Chhindwara Road, Koradi, Dist.Nagapur-441111

Phone : 91-712-2612162,2612212 Email: [mahabal.nagpur@gmail.com](mailto:mahabal.nagpur@gmail.com)

## Water Sample Analysis Report

|                                                |                                                                                                                                      |                                |                                              |
|------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------|--------------------------------|----------------------------------------------|
| Report No.: ME-NG15843-201203-SA-RIPL-AMRAVATI |                                                                                                                                      |                                | Date: 03.12.2020                             |
| Name and Address of Customer                   | RATTANI INDIA POWER LIMITED<br>Plot No.D-2 & D-2 (PART) at<br>Additional MIDC, Village-Nandgaonpeth,<br>Tal & Dist: Amravati 444 901 |                                | Order Reference:                             |
|                                                |                                                                                                                                      |                                | SO No. 3382017462<br>Dt.16.08.2019           |
| Sample Description/Type                        | Ground Water/Grab                                                                                                                    | Sample Collected by            | Laboratory                                   |
| Sampling Location                              | Well Water of Talkhanda                                                                                                              | Sample Quantity/Packing        | 2 L X 1 No. PVC Can<br>500mL X 1 No. PVC Can |
| Date of Sampling                               | 23.11.2020                                                                                                                           | Date of Receipt of Sample      | 25.11.2020                                   |
| Sampling Procedure                             | IS: 3025(Part I): 1987 RA 2003; APHA 23 <sup>rd</sup> Ed. 2017, 1060-B, 1-40;                                                        |                                |                                              |
| Date of Start of Analysis                      | 25.11.2020                                                                                                                           | Date of Completion of Analysis | 03.12.2020                                   |

| Sr. No.                                                           | Parameter                                | Unit  | Result    | Limit for Drinking water as per IS 10500:2012 |                                                      | Method Reference                                             |
|-------------------------------------------------------------------|------------------------------------------|-------|-----------|-----------------------------------------------|------------------------------------------------------|--------------------------------------------------------------|
|                                                                   |                                          |       |           | Acceptable Limit                              | Permissible Limit in the Absence of Alternate Source |                                                              |
| Discipline: Chemical Testing; Product Group: Water (Ground Water) |                                          |       |           |                                               |                                                      |                                                              |
| 1                                                                 | Colour                                   | Hazen | <1        | 5 Max.                                        | 15 Max.                                              | APHA 23 <sup>rd</sup> Ed. 2017, 2120-B, 2-6                  |
| 2                                                                 | Odour                                    | -     | Agreeable | Agreeable                                     | Agreeable                                            | IS 3025 (Part 5):1984, Reaffirmed 2006                       |
| 3                                                                 | Taste                                    | -     | Agreeable | Agreeable                                     | Agreeable                                            | IS 3025 (Part 7 & 8):1984, Reaffirmed 2006                   |
| 4                                                                 | Turbidity                                | NTU   | 1.9       | 1 Max.                                        | 5 Max.                                               | APHA 23 <sup>rd</sup> Ed. 2017, 2130-B, 2-13                 |
| 5                                                                 | pH                                       | -     | 7.7       | 6.5 to 8.5                                    | No relaxation                                        | APHA 23 <sup>rd</sup> Ed. 2017, 4500-H <sup>+</sup> -B, 4-95 |
| 6                                                                 | Residual Free Chlorine                   | mg/L  | <0.05     | 0.2 Min.                                      | 1.0 Max.                                             | APHA 23 <sup>rd</sup> Ed. 2017, 4500-Cl G, 4-72              |
| 7                                                                 | Total Dissolved Solids                   | mg/L  | 427       | 500 Max.                                      | 2000 Max.                                            | IS 3025 (Part 16):1984 RA 2006, Ed.2.1(1999-12)              |
| 8                                                                 | Total Suspended Solids                   | mg/L  | <5        | -                                             | -                                                    | APHA 23 <sup>rd</sup> Ed. 2017, 2540-D, 2-69                 |
| 9                                                                 | Alkalinity Total (as CaCO <sub>3</sub> ) | mg/L  | 308       | 200 Max.                                      | 600 Max.                                             | IS 3025 (Part 23):1986 Reaffirmed 2009 Amds 1                |
| 10                                                                | Total Hardness (as CaCO <sub>3</sub> )   | mg/L  | 276       | 200 Max.                                      | 600 Max.                                             | APHA 23 <sup>rd</sup> Ed. 2017, 2340-C, 2-48                 |
| 11                                                                | Chloride (as Cl)                         | mg/L  | 14        | 250 Max.                                      | 1000 Max.                                            | APHA 23 <sup>rd</sup> Ed. 2017, 4500-Cl-B, 4-75              |

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Plot No. F-7, Road No. 21, MIDC Wagle Estate, Thane West - 400604, Maharashtra  
(600 m from Hotel Rukhmini Palace Turn Opp Toyota Show Room. Next to Ashida Electrical - near J B Sawant Bus Stop)  
Phone: 2582 0658/ 3139/ 1663/ 3154 Fax: 91-22-25823543 [thane@mahabal.com](mailto:thane@mahabal.com)

ULR- TC748720000015222F



Report No. 15843 cont...

| Sr. No.                                        | Parameter                      | Unit | Result | Limit for Drinking water as per IS 10500:2012 |                                                      | Method Reference                                               |
|------------------------------------------------|--------------------------------|------|--------|-----------------------------------------------|------------------------------------------------------|----------------------------------------------------------------|
|                                                |                                |      |        | Acceptable Limit                              | Permissible Limit in the Absence of Alternate Source |                                                                |
| 12                                             | Sulphate (as SO <sub>4</sub> ) | mg/L | 25.0   | 200 Max.                                      | 400 Max.                                             | APHA 23 <sup>rd</sup> Ed. 2017, 4500-SO <sub>4</sub> -E, 4-199 |
| 13                                             | Nitrate (as NO <sub>3</sub> )  | mg/L | 17.1   | 45 Max.                                       | No relaxation                                        | APHA 23 <sup>rd</sup> Ed. 2017, 4500-NO <sub>3</sub> , E 4-131 |
| 14                                             | Calcium (as Ca)                | mg/L | 56.1   | 75 Max.                                       | 200 Max.                                             | APHA 23 <sup>rd</sup> Ed. 2017, 3500-Ca-B, 3-69                |
| 15                                             | Magnesium (as Mg)              | mg/L | 33.0   | 30 Max.                                       | 100 Max.                                             | APHA 23 <sup>rd</sup> Ed. 2017, 3500-Mg- B, 3-86               |
| 16                                             | Fluoride (as F)                | mg/L | 0.357  | 1 Max.                                        | 1.5 Max.                                             | APHA 23 <sup>rd</sup> Ed. 2017, 4500-F, D, 4-90                |
| 17                                             | Boron (as B)                   | mg/L | <0.1   | 0.5 Max.                                      | 2.4 Max.                                             | APHA 23 <sup>rd</sup> Ed. 2017, 4500-B B, 4-27                 |
| 18                                             | Dissolved Oxygen               | mg/L | 6.3    | -                                             | -                                                    | APHA 23 <sup>rd</sup> Ed. 2017, 4500-O, B & C, 4-144, 4-146    |
| <b>Residues in water (Trace metal Element)</b> |                                |      |        |                                               |                                                      |                                                                |
| 19                                             | Aluminium (as Al)              | mg/L | <0.025 | 0.03 Max.                                     | 0.2 Max.                                             | APHA 23 <sup>rd</sup> Ed. 2017, 3500-Al-B, 3-63                |
| 20                                             | Arsenic (as As)                | mg/L | N.D.   | 0.01 Max.                                     | No relaxation                                        | IS 3025 (Part 37), 1988 RA 2009                                |
| 21                                             | Mercury (as Hg)                | mg/L | N.D.   | 0.001Max.                                     | No relaxation                                        | APHA 23 <sup>rd</sup> Ed. 2017, 3112-B, 3-25                   |
| <b>Remarks:</b> N.D.: Not Detected             |                                |      |        |                                               |                                                      |                                                                |

END

FOR MAHABAL ENVIRO ENGINEERS PVT. LTD.

Kishor C. Yeole

BRANCH MANAGER



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Phone : 91-712-2612162,2612212 Email: [mahabal.nagpur@gmail.com](mailto:mahabal.nagpur@gmail.com)

## Water Sample Analysis Report

|                                                |                                                                                                                                        |                                |                                                                         |
|------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------|--------------------------------|-------------------------------------------------------------------------|
| Report No.: ME-NG15843-201203-SA-RIPL-AMRAVATI |                                                                                                                                        |                                | Date: 03.12.2020                                                        |
| Name and Address of Customer                   | RATTANINDIA POWER LIMITED<br>Plot No.D-2 & D-2 (PART) at 55<br>Additional MIDC, Village-Nandgaonpeth,<br>Tal & Dist: Amravati 444 901. |                                | Order Reference:                                                        |
|                                                |                                                                                                                                        |                                | SO No. 3382017462<br>Dt.16.08.2019                                      |
| Sample Description/Type                        | Ground Water/Grab                                                                                                                      | Sample Collected by            | Laboratory                                                              |
| Sampling Location                              | Well Water<br>Talkhanda Village                                                                                                        | Sample Quantity/Packing        | 2 L X 1 No. PVC Can<br>500mL X 1 No. PVC Can<br>1L X 1 No. Glass Bottle |
| Date of Sampling                               | 23.11.2020                                                                                                                             | Date of Receipt of Sample      | 25.11.2020                                                              |
| Sampling Procedure                             | IS: 3025(Part I): 1987 RA 2003; APHA 23 <sup>rd</sup> Ed. 2017, 1060-B, 1-40;                                                          |                                |                                                                         |
| Date of Start of Analysis                      | 25.11.2020                                                                                                                             | Date of Completion of Analysis | 03.12.2020                                                              |

| Sr. No.                                                           | Parameter                                                | Unit | Result | Limit for Drinking water as per IS 10500:2012 |                                                      | Method Reference                                            |
|-------------------------------------------------------------------|----------------------------------------------------------|------|--------|-----------------------------------------------|------------------------------------------------------|-------------------------------------------------------------|
|                                                                   |                                                          |      |        | Acceptable Limit                              | Permissible Limit in the Absence of Alternate Source |                                                             |
| Discipline: Chemical Testing; Product Group: Water (Ground Water) |                                                          |      |        |                                               |                                                      |                                                             |
| 1.                                                                | Oil and Grease                                           | mg/L | N.D.   | -                                             | -                                                    | IS 3025 (Part 39): 1991, Reaffirmed 2009, Amds.1            |
| 2.                                                                | Cyanide (as CN)                                          | mg/L | N.D.   | 0.05 Max.                                     | No relaxation                                        | APHA 23 <sup>rd</sup> Ed. 2017, 4500-CN, C & E, 4-44 & 4-46 |
| 3.                                                                | Phenolic Compounds (as C <sub>6</sub> H <sub>5</sub> OH) | mg/L | N.D.   | 0.001 Max.                                    | 0.002 Max.                                           | APHA 23 <sup>rd</sup> Ed. 2017, 5530- B & C, 5-49, 5-50     |
| Residues in water (Trace metal Element)                           |                                                          |      |        |                                               |                                                      |                                                             |
| 4.                                                                | Selenium (as Se)                                         | mg/L | N.D.   | 0.01 Max.                                     | No relaxation                                        | APHA 23 <sup>rd</sup> Ed. 2017, 3500-C, 3-95                |
| 5.                                                                | Iron (as Fe)                                             | mg/L | 0.107  | 0.3 Max.                                      | No relaxation.                                       | IS 3025 (Part-2) 2004, RA 2014                              |
| 6.                                                                | Copper (as Cu)                                           | mg/L | <0.04  | 0.05 Max.                                     | 1.5 Max.                                             | IS 3025 (Part-2) 2004, RA 2014                              |
| 7.                                                                | Chromium Total (as Cr)                                   | mg/L | <0.1   | 0.05 Max.                                     | No relaxation                                        | IS 3025 (Part-2) 2004, RA 2014                              |
| 8.                                                                | Zinc (as Zn)                                             | mg/L | 0.016  | 5 Max.                                        | 15 Max.                                              | IS 3025 (Part-2) 2004, RA 2014                              |
| 9.                                                                | Cadmium (as Cd)                                          | mg/L | N.D.   | 0.003Max.                                     | No relaxation                                        | IS 3025 (Part-2) 2004, RA 2014                              |
| 10.                                                               | Lead (as Pb)                                             | mg/L | N.D.   | 0.01 Max.                                     | No relaxation                                        | IS 3025 (Part-2) 2004, RA 2014                              |

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Phone: 2582 0658/ 3139/ 1663/ 3154 Fax: 91-22-25823543 [thane@mahabal.com](mailto:thane@mahabal.com)

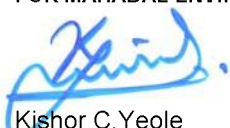


Report No. 15843 cont...

| Sr. No.                            | Parameter         | Unit | Result | Limit for Drinking water as per IS 10500:2012 |                                                      | Method Reference               |
|------------------------------------|-------------------|------|--------|-----------------------------------------------|------------------------------------------------------|--------------------------------|
|                                    |                   |      |        | Acceptable Limit                              | Permissible Limit in the Absence of Alternate Source |                                |
| 11.                                | Manganese (as Mn) | mg/L | <0.04  | 0.1 Max.                                      | 0.3 Max.                                             | IS 3025 (Part-2) 2004, RA 2014 |
| <b>Remarks:</b> N.D.: Not Detected |                   |      |        |                                               |                                                      |                                |

END

FOR MAHABAL ENVIRO ENGINEERS PVT. LTD.



Kishor C. Yeole

**BRANCH MANAGER**



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## Water Sample Analysis Report

|                                                |                                                                                                                                      |                                |                                              |
|------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------|--------------------------------|----------------------------------------------|
| Report No.: ME-NG15844-201203-SA-RIPL-AMRAVATI |                                                                                                                                      |                                | Date: 03.12.2020                             |
| Name and Address of Customer                   | RATTANI INDIA POWER LIMITED<br>Plot No.D-2 & D-2 (PART) at<br>Additional MIDC, Village-Nandgaonpeth,<br>Tal & Dist: Amravati 444 901 |                                | Order Reference:                             |
|                                                |                                                                                                                                      |                                | SO No. 3382017462<br>Dt.16.08.2019           |
| Sample Description/Type                        | Ground Water/Grab                                                                                                                    | Sample Collected by            | Laboratory                                   |
| Sampling Location                              | Well Water of Kapustalni                                                                                                             | Sample Quantity/Packing        | 2 L X 1 No. PVC Can<br>500mL X 1 No. PVC Can |
| Date of Sampling                               | 23.11.2020                                                                                                                           | Date of Receipt of Sample      | 25.11.2020                                   |
| Sampling Procedure                             | IS: 3025(Part I): 1987 RA 2003; APHA 23 <sup>rd</sup> Ed. 2017, 1060-B, 1-40;                                                        |                                |                                              |
| Date of Start of Analysis                      | 25.11.2020                                                                                                                           | Date of Completion of Analysis | 03.12.2020                                   |

| Sr. No.                                                           | Parameter                                | Unit  | Result    | Limit for Drinking water as per IS 10500:2012 |                                                      | Method Reference                                             |
|-------------------------------------------------------------------|------------------------------------------|-------|-----------|-----------------------------------------------|------------------------------------------------------|--------------------------------------------------------------|
|                                                                   |                                          |       |           | Acceptable Limit                              | Permissible Limit in the Absence of Alternate Source |                                                              |
| Discipline: Chemical Testing; Product Group: Water (Ground Water) |                                          |       |           |                                               |                                                      |                                                              |
| 1                                                                 | Colour                                   | Hazen | <1        | 5 Max.                                        | 15 Max.                                              | APHA 23 <sup>rd</sup> Ed. 2017, 2120-B, 2-6                  |
| 2                                                                 | Odour                                    | -     | Agreeable | Agreeable                                     | Agreeable                                            | IS 3025 (Part 5):1984, Reaffirmed 2006                       |
| 3                                                                 | Taste                                    | -     | Agreeable | Agreeable                                     | Agreeable                                            | IS 3025 (Part 7 & 8):1984, Reaffirmed 2006                   |
| 4                                                                 | Turbidity                                | NTU   | 0.6       | 1 Max.                                        | 5 Max.                                               | APHA 23 <sup>rd</sup> Ed. 2017, 2130-B, 2-13                 |
| 5                                                                 | pH                                       | -     | 7.7       | 6.5 to 8.5                                    | No relaxation                                        | APHA 23 <sup>rd</sup> Ed. 2017, 4500-H <sup>+</sup> -B, 4-95 |
| 6                                                                 | Residual Free Chlorine                   | mg/L  | <0.05     | 0.2 Min.                                      | 1.0 Max.                                             | APHA 23 <sup>rd</sup> Ed. 2017, 4500-Cl G, 4-72              |
| 7                                                                 | Total Dissolved Solids                   | mg/L  | 564       | 500 Max.                                      | 2000 Max.                                            | IS 3025 (Part 16):1984 RA 2006, Ed.2.1(1999-12)              |
| 8                                                                 | Total Suspended Solids                   | mg/L  | 6         | -                                             | -                                                    | APHA 23 <sup>rd</sup> Ed. 2017, 2540-D, 2-69                 |
| 9                                                                 | Alkalinity Total (as CaCO <sub>3</sub> ) | mg/L  | 258       | 200 Max.                                      | 600 Max.                                             | IS 3025 (Part 23):1986 Reaffirmed 2009 Amds 1                |
| 10                                                                | Total Hardness (as CaCO <sub>3</sub> )   | mg/L  | 374       | 200 Max.                                      | 600 Max.                                             | APHA 23 <sup>rd</sup> Ed. 2017, 2340-C, 2-48                 |
| 11                                                                | Chloride (as Cl)                         | mg/L  | 76.0      | 250 Max.                                      | 1000 Max.                                            | APHA 23 <sup>rd</sup> Ed. 2017, 4500-Cl-B, 4-75              |

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QF/SALE/02/Issue No 03 Dt 05.12.2019,Amd 00 Dt 00

Plot No. F-7, Road No. 21, MIDC Wagle Estate, Thane West - 400604, Maharashtra  
(600 m from Hotel Rukhmini Palace Turn Opp Toyota Show Room. Next to Ashida Electrical - near J B Sawant Bus Stop)  
Phone: 2582 0658/ 3139/ 1663/ 3154 Fax: 91-22-25823543 [thane@mahabal.com](mailto:thane@mahabal.com)

ULR- TC748720000015223F



Report No. 15844 cont...

| Sr. No.                                        | Parameter                      | Unit | Result | Limit for Drinking water as per IS 10500:2012 |                                                      | Method Reference                                               |
|------------------------------------------------|--------------------------------|------|--------|-----------------------------------------------|------------------------------------------------------|----------------------------------------------------------------|
|                                                |                                |      |        | Acceptable Limit                              | Permissible Limit in the Absence of Alternate Source |                                                                |
| 12                                             | Sulphate (as SO <sub>4</sub> ) | mg/L | 76.5   | 200 Max.                                      | 400 Max.                                             | APHA 23 <sup>rd</sup> Ed. 2017, 4500-SO <sub>4</sub> -E, 4-199 |
| 13                                             | Nitrate (as NO <sub>3</sub> )  | mg/L | 44.0   | 45 Max.                                       | No relaxation                                        | APHA 23 <sup>rd</sup> Ed. 2017, 4500-NO <sub>3</sub> , E 4-131 |
| 14                                             | Calcium (as Ca)                | mg/L | 78.6   | 75 Max.                                       | 200 Max.                                             | APHA 23 <sup>rd</sup> Ed. 2017, 3500-Ca-B, 3-69                |
| 15                                             | Magnesium (as Mg)              | mg/L | 43.2   | 30 Max.                                       | 100 Max.                                             | APHA 23 <sup>rd</sup> Ed. 2017, 3500-Mg- B, 3-86               |
| 16                                             | Fluoride (as F)                | mg/L | 0.487  | 1 Max.                                        | 1.5 Max.                                             | APHA 23 <sup>rd</sup> Ed. 2017, 4500-F, D, 4-90                |
| 17                                             | Boron (as B)                   | mg/L | <0.1   | 0.5 Max.                                      | 2.4 Max.                                             | APHA 23 <sup>rd</sup> Ed. 2017, 4500-B B, 4-27                 |
| 18                                             | Dissolved Oxygen               | mg/L | 5.7    | -                                             | -                                                    | APHA 23 <sup>rd</sup> Ed. 2017, 4500-O, B & C, 4-144, 4-146    |
| <b>Residues in water (Trace metal Element)</b> |                                |      |        |                                               |                                                      |                                                                |
| 19                                             | Aluminium (as Al)              | mg/L | <0.025 | 0.03 Max.                                     | 0.2 Max.                                             | APHA 23 <sup>rd</sup> Ed. 2017, 3500-Al-B, 3-63                |
| 20                                             | Arsenic (as As)                | mg/L | N.D.   | 0.01 Max.                                     | No relaxation                                        | IS 3025 (Part 37), 1988 RA 2009                                |
| 21                                             | Mercury (as Hg)                | mg/L | N.D.   | 0.001Max.                                     | No relaxation                                        | APHA 23 <sup>rd</sup> Ed. 2017, 3112-B, 3-25                   |
| <b>Remarks:</b> N.D.: Not Detected             |                                |      |        |                                               |                                                      |                                                                |

END

FOR MAHABAL ENVIRO ENGINEERS PVT. LTD.

Kishor C. Yeole

BRANCH MANAGER



Note:

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Engineers, Consultants, Environmental Monitoring Laboratory & Contractors

Plot Nos. 13,14,17,18, Grampanchayat Bokhara, 8 km from Nagpur City,

Opp. Patel Petrol Pump, Chhindwara Road, Koradi, Dist.Nagpur-441111

Phone : 91-712-2612162,2612212 Email: [mahabal.nagpur@gmail.com](mailto:mahabal.nagpur@gmail.com)

## Water Sample Analysis Report

|                                                       |                                                                                                                                            |                                       |                                                                         |
|-------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------|-------------------------------------------------------------------------|
| <b>Report No.:</b> ME-NG15844-201203-SA-RIPL-AMRAVATI |                                                                                                                                            |                                       | <b>Date:</b> 03.12.2020                                                 |
| <b>Name and Address of Customer</b>                   | <b>RATTANINDIA POWER LIMITED</b><br>Plot No.D-2 & D-2 (PART) at<br>Additional MIDC, Village-Nandgaonpeth,<br>Tal & Dist: Amravati 444 901. |                                       | <b>Order Reference:</b>                                                 |
|                                                       |                                                                                                                                            |                                       | SO No. 3382017462<br>Dt.16.08.2019                                      |
| <b>Sample Description/Type</b>                        | Ground Water/Grab                                                                                                                          | <b>Sample Collected by</b>            | Laboratory                                                              |
| <b>Sampling Location</b>                              | Well Water<br>Kapustalni Village                                                                                                           | <b>Sample Quantity/Packing</b>        | 2 L X 1 No. PVC Can<br>500mL X 1 No. PVC Can<br>1L X 1 No. Glass Bottle |
| <b>Date of Sampling</b>                               | 23.11.2020                                                                                                                                 | <b>Date of Receipt of Sample</b>      | 25.11.2020                                                              |
| <b>Sampling Procedure</b>                             | IS: 3025(Part I): 1987 RA 2003; APHA 23 <sup>rd</sup> Ed. 2017, 1060-B, 1-40;                                                              |                                       |                                                                         |
| <b>Date of Start of Analysis</b>                      | 25.11.2020                                                                                                                                 | <b>Date of Completion of Analysis</b> | 03.12.2020                                                              |

| Sr. No.                                                           | Parameter                                                | Unit | Result | Limit for Drinking water as per IS 10500:2012 |                                                      | Method Reference                                            |
|-------------------------------------------------------------------|----------------------------------------------------------|------|--------|-----------------------------------------------|------------------------------------------------------|-------------------------------------------------------------|
|                                                                   |                                                          |      |        | Acceptable Limit                              | Permissible Limit in the Absence of Alternate Source |                                                             |
| Discipline: Chemical Testing; Product Group: Water (Ground Water) |                                                          |      |        |                                               |                                                      |                                                             |
| 1.                                                                | Oil and Grease                                           | mg/L | N.D.   | -                                             | -                                                    | IS 3025 (Part 39): 1991, Reaffirmed 2009, Amds.1            |
| 2.                                                                | Cyanide (as CN)                                          | mg/L | N.D.   | 0.05 Max.                                     | No relaxation                                        | APHA 23 <sup>rd</sup> Ed. 2017, 4500-CN, C & E, 4-44 & 4-46 |
| 3.                                                                | Phenolic Compounds (as C <sub>6</sub> H <sub>5</sub> OH) | mg/L | N.D.   | 0.001 Max.                                    | 0.002 Max.                                           | APHA 23 <sup>rd</sup> Ed. 2017, 5530- B & C, 5-49, 5-50     |
| Residues in water (Trace metal Element)                           |                                                          |      |        |                                               |                                                      |                                                             |
| 4.                                                                | Selenium (as Se)                                         | mg/L | N.D.   | 0.01 Max.                                     | No relaxation                                        | APHA 23 <sup>rd</sup> Ed. 2017, 3500-C, 3-95                |
| 5.                                                                | Iron (as Fe)                                             | mg/L | <0.08  | 0.3 Max.                                      | No relaxation.                                       | IS 3025 (Part-2) 2004, RA 2014                              |
| 6.                                                                | Copper (as Cu)                                           | mg/L | <0.04  | 0.05 Max.                                     | 1.5 Max.                                             | IS 3025 (Part-2) 2004, RA 2014                              |
| 7.                                                                | Chromium Total (as Cr)                                   | mg/L | <0.1   | 0.05 Max.                                     | No relaxation                                        | IS 3025 (Part-2) 2004, RA 2014                              |
| 8.                                                                | Zinc (as Zn)                                             | mg/L | 0.015  | 5 Max.                                        | 15 Max.                                              | IS 3025 (Part-2) 2004, RA 2014                              |
| 9.                                                                | Cadmium (as Cd)                                          | mg/L | N.D.   | 0.003Max.                                     | No relaxation                                        | IS 3025 (Part-2) 2004, RA 2014                              |
| 10.                                                               | Lead (as Pb)                                             | mg/L | N.D.   | 0.01 Max.                                     | No relaxation                                        | IS 3025 (Part-2) 2004, RA 2014                              |

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**Plot No. F-7, Road No. 21, MIDC Wagle Estate, Thane West - 400604, Maharashtra**  
(600 m from Hotel Rukhmini Palace Turn Opp Toyota Show Room. Next to Ashida Electrical - near J B Sawant Bus Stop)  
**Phone: 2582 0658/ 3139/ 1663/ 3154 Fax: 91-22-25823543 [thane@mahabal.com](mailto:thane@mahabal.com)**



Report No. 15844 cont...

| Sr. No.                     | Parameter         | Unit | Result | Limit for Drinking water as per IS 10500:2012 |                                                      | Method Reference               |
|-----------------------------|-------------------|------|--------|-----------------------------------------------|------------------------------------------------------|--------------------------------|
|                             |                   |      |        | Acceptable Limit                              | Permissible Limit in the Absence of Alternate Source |                                |
| 11.                         | Manganese (as Mn) | mg/L | <0.04  | 0.1 Max.                                      | 0.3 Max.                                             | IS 3025 (Part-2) 2004, RA 2014 |
| Remarks: N.D.: Not Detected |                   |      |        |                                               |                                                      |                                |

-----END-----

FOR MAHABAL ENVIRO ENGINEERS PVT. LTD.

  
Kishor C. Yeole**BRANCH MANAGER**

Note:

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Phone : 91-712-2612162,2612212 Email: [mahabal.nagpur@gmail.com](mailto:mahabal.nagpur@gmail.com)

## Water Sample Analysis Report

|                                                |                                                                                                                                      |                                |                                              |
|------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------|--------------------------------|----------------------------------------------|
| Report No.: ME-NG15845-201203-SA-RIPL-AMRAVATI |                                                                                                                                      |                                | Date: 03.12.2020                             |
| Name and Address of Customer                   | RATTANI INDIA POWER LIMITED<br>Plot No.D-2 & D-2 (PART) at<br>Additional MIDC, Village-Nandgaonpeth,<br>Tal & Dist: Amravati 444 901 |                                | Order Reference:                             |
|                                                |                                                                                                                                      |                                | SO No. 3382017462<br>Dt.16.08.2019           |
| Sample Description/Type                        | Ground Water/Grab                                                                                                                    | Sample Collected by            | Laboratory                                   |
| Sampling Location                              | Well Water of Rusalpur                                                                                                               | Sample Quantity/Packing        | 2 L X 1 No. PVC Can<br>500mL X 1 No. PVC Can |
| Date of Sampling                               | 23.11.2020                                                                                                                           | Date of Receipt of Sample      | 25.11.2020                                   |
| Sampling Procedure                             | IS: 3025(Part I): 1987 RA 2003; APHA 23 <sup>rd</sup> Ed. 2017, 1060-B, 1-40;                                                        |                                |                                              |
| Date of Start of Analysis                      | 25.11.2020                                                                                                                           | Date of Completion of Analysis | 03.12.2020                                   |

| Sr. No.                                                           | Parameter                                | Unit  | Result    | Limit for Drinking water as per IS 10500:2012 |                                                      | Method Reference                                             |
|-------------------------------------------------------------------|------------------------------------------|-------|-----------|-----------------------------------------------|------------------------------------------------------|--------------------------------------------------------------|
|                                                                   |                                          |       |           | Acceptable Limit                              | Permissible Limit in the Absence of Alternate Source |                                                              |
| Discipline: Chemical Testing; Product Group: Water (Ground Water) |                                          |       |           |                                               |                                                      |                                                              |
| 1                                                                 | Colour                                   | Hazen | <1        | 5 Max.                                        | 15 Max.                                              | APHA 23 <sup>rd</sup> Ed. 2017, 2120-B, 2-6                  |
| 2                                                                 | Odour                                    | -     | Agreeable | Agreeable                                     | Agreeable                                            | IS 3025 (Part 5):1984, Reaffirmed 2006                       |
| 3                                                                 | Taste                                    | -     | N.A.      | Agreeable                                     | Agreeable                                            | IS 3025 (Part 7 & 8):1984, Reaffirmed 2006                   |
| 4                                                                 | Turbidity                                | NTU   | 0.7       | 1 Max.                                        | 5 Max.                                               | APHA 23 <sup>rd</sup> Ed. 2017, 2130-B, 2-13                 |
| 5                                                                 | pH                                       | -     | 7.7       | 6.5 to 8.5                                    | No relaxation                                        | APHA 23 <sup>rd</sup> Ed. 2017, 4500-H <sup>+</sup> -B, 4-95 |
| 6                                                                 | Residual Free Chlorine                   | mg/L  | <0.05     | 0.2 Min.                                      | 1.0 Max.                                             | APHA 23 <sup>rd</sup> Ed. 2017, 4500-Cl G, 4-72              |
| 7                                                                 | Total Dissolved Solids                   | mg/L  | 608       | 500 Max.                                      | 2000 Max.                                            | IS 3025 (Part 16):1984 RA 2006, Ed.2.1(1999-12)              |
| 8                                                                 | Total Suspended Solids                   | mg/L  | 7         | -                                             | -                                                    | APHA 23 <sup>rd</sup> Ed. 2017, 2540-D, 2-69                 |
| 9                                                                 | Alkalinity Total (as CaCO <sub>3</sub> ) | mg/L  | 448       | 200 Max.                                      | 600 Max.                                             | IS 3025 (Part 23):1986 Reaffirmed 2009 Amds 1                |
| 10                                                                | Total Hardness (as CaCO <sub>3</sub> )   | mg/L  | 262       | 200 Max.                                      | 600 Max.                                             | APHA 23 <sup>rd</sup> Ed. 2017, 2340-C, 2-48                 |
| 11                                                                | Chloride (as Cl)                         | mg/L  | 11        | 250 Max.                                      | 1000 Max.                                            | APHA 23 <sup>rd</sup> Ed. 2017, 4500-Cl-B, 4-75              |

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Plot No. F-7, Road No. 21, MIDC Wagle Estate, Thane West - 400604, Maharashtra  
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ULR- TC748720000015224F



Report No. 15845 cont...

| Sr. No.                                        | Parameter                      | Unit | Result | Limit for Drinking water as per IS 10500:2012 |                                                      | Method Reference                                               |
|------------------------------------------------|--------------------------------|------|--------|-----------------------------------------------|------------------------------------------------------|----------------------------------------------------------------|
|                                                |                                |      |        | Acceptable Limit                              | Permissible Limit in the Absence of Alternate Source |                                                                |
| 12                                             | Sulphate (as SO <sub>4</sub> ) | mg/L | 9.5    | 200 Max.                                      | 400 Max.                                             | APHA 23 <sup>rd</sup> Ed. 2017, 4500-SO <sub>4</sub> -E, 4-199 |
| 13                                             | Nitrate (as NO <sub>3</sub> )  | mg/L | 41.6   | 45 Max.                                       | No relaxation                                        | APHA 23 <sup>rd</sup> Ed. 2017, 4500-NO <sub>3</sub> , E 4-131 |
| 14                                             | Calcium (as Ca)                | mg/L | 76.2   | 75 Max.                                       | 200 Max.                                             | APHA 23 <sup>rd</sup> Ed. 2017, 3500-Ca-B, 3-69                |
| 15                                             | Magnesium (as Mg)              | mg/L | 17.5   | 30 Max.                                       | 100 Max.                                             | APHA 23 <sup>rd</sup> Ed. 2017, 3500-Mg- B, 3-86               |
| 16                                             | Fluoride (as F)                | mg/L | 0.409  | 1 Max.                                        | 1.5 Max.                                             | APHA 23 <sup>rd</sup> Ed. 2017, 4500-F, D, 4-90                |
| 17                                             | Boron (as B)                   | mg/L | 0.17   | 0.5 Max.                                      | 2.4 Max.                                             | APHA 23 <sup>rd</sup> Ed. 2017, 4500-B B, 4-27                 |
| 18                                             | Dissolved Oxygen               | mg/L | 5.8    | -                                             | -                                                    | APHA 23 <sup>rd</sup> Ed. 2017, 4500-O, B & C, 4-144, 4-146    |
| <b>Residues in water (Trace metal Element)</b> |                                |      |        |                                               |                                                      |                                                                |
| 19                                             | Aluminium (as Al)              | mg/L | <0.025 | 0.03 Max.                                     | 0.2 Max.                                             | APHA 23 <sup>rd</sup> Ed. 2017, 3500-Al-B, 3-63                |
| 20                                             | Arsenic (as As)                | mg/L | N.D.   | 0.01 Max.                                     | No relaxation                                        | IS 3025 (Part 37), 1988 RA 2009                                |
| 21                                             | Mercury (as Hg)                | mg/L | N.D.   | 0.001Max.                                     | No relaxation                                        | APHA 23 <sup>rd</sup> Ed. 2017, 3112-B, 3-25                   |
| <b>Remarks:</b> N.D.: Not Detected             |                                |      |        |                                               |                                                      |                                                                |

END

FOR MAHABAL ENVIRO ENGINEERS PVT. LTD.

Kishor C. Yeole

BRANCH MANAGER



Certificate Number TC-7487

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ULR- TC748720000015224F



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Phone : 91-712-2612162,2612212 Email: [mahabal.nagpur@gmail.com](mailto:mahabal.nagpur@gmail.com)

## Water Sample Analysis Report

|                                                |                                                                                                                                     |                                |                                                                         |
|------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------|--------------------------------|-------------------------------------------------------------------------|
| Report No.: ME-NG15845-201203-SA-RIPL-AMRAVATI |                                                                                                                                     |                                | Date: 03.12.2020                                                        |
| Name and Address of Customer                   | RATTANINDIA POWER LIMITED<br>Plot No.D-2 & D-2 (PART) at<br>Additional MIDC, Village-Nandgaonpeth,<br>Tal & Dist: Amravati 444 901. |                                | Order Reference:                                                        |
|                                                |                                                                                                                                     |                                | SO No. 3382017462<br>Dt.16.08.2019                                      |
| Sample Description/Type                        | Ground Water/Grab                                                                                                                   | Sample Collected by            | Laboratory                                                              |
| Sampling Location                              | Well Water Rasalpur Village                                                                                                         | Sample Quantity/Packing        | 2 L X 1 No. PVC Can<br>500mL X 1 No. PVC Can<br>1L X 1 No. Glass Bottle |
| Date of Sampling                               | 23.11.2020                                                                                                                          | Date of Receipt of Sample      | 25.11.2020                                                              |
| Sampling Procedure                             | IS: 3025(Part I): 1987 RA 2003; APHA 23 <sup>rd</sup> Ed. 2017, 1060-B, 1-40;                                                       |                                |                                                                         |
| Date of Start of Analysis                      | 25.11.2020                                                                                                                          | Date of Completion of Analysis | 03.12.2020                                                              |

| Sr. No.                                                           | Parameter                                                | Unit | Result | Limit for Drinking water as per IS 10500:2012 |                                                      | Method Reference                                            |
|-------------------------------------------------------------------|----------------------------------------------------------|------|--------|-----------------------------------------------|------------------------------------------------------|-------------------------------------------------------------|
|                                                                   |                                                          |      |        | Acceptable Limit                              | Permissible Limit in the Absence of Alternate Source |                                                             |
| Discipline: Chemical Testing; Product Group: Water (Ground Water) |                                                          |      |        |                                               |                                                      |                                                             |
| 1.                                                                | Oil and Grease                                           | mg/L | N.D.   | -                                             | -                                                    | IS 3025 (Part 39): 1991, Reaffirmed 2009, Amds.1            |
| 2.                                                                | Cyanide (as CN)                                          | mg/L | N.D.   | 0.05 Max.                                     | No relaxation                                        | APHA 23 <sup>rd</sup> Ed. 2017, 4500-CN, C & E, 4-44 & 4-46 |
| 3.                                                                | Phenolic Compounds (as C <sub>6</sub> H <sub>5</sub> OH) | mg/L | N.D.   | 0.001 Max.                                    | 0.002 Max.                                           | APHA 23 <sup>rd</sup> Ed. 2017, 5530- B & C, 5-49, 5-50     |
| Residues in water (Trace metal Element)                           |                                                          |      |        |                                               |                                                      |                                                             |
| 4.                                                                | Selenium (as Se)                                         | mg/L | N.D.   | 0.01 Max.                                     | No relaxation                                        | APHA 23 <sup>rd</sup> Ed. 2017, 3500-C, 3-95                |
| 5.                                                                | Iron (as Fe)                                             | mg/L | <0.08  | 0.3 Max.                                      | No relaxation.                                       | IS 3025 (Part-2) 2004, RA 2014                              |
| 6.                                                                | Copper (as Cu)                                           | mg/L | <0.04  | 0.05 Max.                                     | 1.5 Max.                                             | IS 3025 (Part-2) 2004, RA 2014                              |
| 7.                                                                | Chromium Total (as Cr)                                   | mg/L | <0.1   | 0.05 Max.                                     | No relaxation                                        | IS 3025 (Part-2) 2004, RA 2014                              |
| 8.                                                                | Zinc (as Zn)                                             | mg/L | 0.010  | 5 Max.                                        | 15 Max.                                              | IS 3025 (Part-2) 2004, RA 2014                              |
| 9.                                                                | Cadmium (as Cd)                                          | mg/L | N.D.   | 0.003Max.                                     | No relaxation                                        | IS 3025 (Part-2) 2004, RA 2014                              |
| 10.                                                               | Lead (as Pb)                                             | mg/L | N.D.   | 0.01 Max.                                     | No relaxation                                        | IS 3025 (Part-2) 2004, RA 2014                              |

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Report No. 15845 cont...

| Sr. No.                     | Parameter         | Unit | Result | Limit for Drinking water as per IS 10500:2012 |                                                      | Method Reference               |
|-----------------------------|-------------------|------|--------|-----------------------------------------------|------------------------------------------------------|--------------------------------|
|                             |                   |      |        | Acceptable Limit                              | Permissible Limit in the Absence of Alternate Source |                                |
| 11.                         | Manganese (as Mn) | mg/L | <0.04  | 0.1 Max.                                      | 0.3 Max.                                             | IS 3025 (Part-2) 2004, RA 2014 |
| Remarks: N.D.: Not Detected |                   |      |        |                                               |                                                      |                                |

-----END-----

FOR MAHABAL ENVIRO ENGINEERS PVT. LTD.

  
Kishor C. Yeole**BRANCH MANAGER**

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Phone : 91-712-2612162,2612212 Email: [mahabal.nagpur@gmail.com](mailto:mahabal.nagpur@gmail.com)

## Water Sample Analysis Report

|                                                       |                                                                                                                                             |                                       |                                              |
|-------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------|----------------------------------------------|
| <b>Report No.:</b> ME-NG15846-201203-SA-RIPL-AMRAVATI |                                                                                                                                             |                                       | <b>Date:</b> 03.12.2020                      |
| <b>Name and Address of Customer</b>                   | <b>RATTANI INDIA POWER LIMITED</b><br>Plot No.D-2 & D-2 (PART) at<br>Additional MIDC, Village-Nandgaonpeth,<br>Tal & Dist: Amravati 444 901 |                                       | <b>Order Reference:</b>                      |
|                                                       |                                                                                                                                             |                                       | SO No. 3382017462<br>Dt.16.08.2019           |
| <b>Sample Description/Type</b>                        | Ground Water/Grab                                                                                                                           | <b>Sample Collected by</b>            | Laboratory                                   |
| <b>Sampling Location</b>                              | Well Water of Digargaon                                                                                                                     | <b>Sample Quantity/Packing</b>        | 2 L X 1 No. PVC Can<br>500mL X 1 No. PVC Can |
| <b>Date of Sampling</b>                               | 23.11.2020                                                                                                                                  | <b>Date of Receipt of Sample</b>      | 25.11.2020                                   |
| <b>Sampling Procedure</b>                             | IS: 3025(Part I): 1987 RA 2003; APHA 23 <sup>rd</sup> Ed. 2017, 1060-B, 1-40;                                                               |                                       |                                              |
| <b>Date of Start of Analysis</b>                      | 25.11.2020                                                                                                                                  | <b>Date of Completion of Analysis</b> | 03.12.2020                                   |

| Sr. No.                                                           | Parameter                                | Unit  | Result    | Limit for Drinking water as per IS 10500:2012 |                                                      | Method Reference                                             |
|-------------------------------------------------------------------|------------------------------------------|-------|-----------|-----------------------------------------------|------------------------------------------------------|--------------------------------------------------------------|
|                                                                   |                                          |       |           | Acceptable Limit                              | Permissible Limit in the Absence of Alternate Source |                                                              |
| Discipline: Chemical Testing; Product Group: Water (Ground Water) |                                          |       |           |                                               |                                                      |                                                              |
| 1                                                                 | Colour                                   | Hazen | <1        | 5 Max.                                        | 15 Max.                                              | APHA 23 <sup>rd</sup> Ed. 2017, 2120-B, 2-6                  |
| 2                                                                 | Odour                                    | -     | Agreeable | Agreeable                                     | Agreeable                                            | IS 3025 (Part 5):1984, Reaffirmed 2006                       |
| 3                                                                 | Taste                                    | -     | Agreeable | Agreeable                                     | Agreeable                                            | IS 3025 (Part 7 & 8):1984, Reaffirmed 2006                   |
| 4                                                                 | Turbidity                                | NTU   | 0.8       | 1 Max.                                        | 5 Max.                                               | APHA 23 <sup>rd</sup> Ed. 2017, 2130-B, 2-13                 |
| 5                                                                 | pH                                       | -     | 8.2       | 6.5 to 8.5                                    | No relaxation                                        | APHA 23 <sup>rd</sup> Ed. 2017, 4500-H <sup>+</sup> -B, 4-95 |
| 6                                                                 | Residual Free Chlorine                   | mg/L  | <0.05     | 0.2 Min.                                      | 1.0 Max.                                             | APHA 23 <sup>rd</sup> Ed. 2017, 4500-Cl G, 4-72              |
| 7                                                                 | Total Dissolved Solids                   | mg/L  | 740       | 500 Max.                                      | 2000 Max.                                            | IS 3025 (Part 16):1984 RA 2006, Ed.2.1(1999-12)              |
| 8                                                                 | Total Suspended Solids                   | mg/L  | <5        | -                                             | -                                                    | APHA 23 <sup>rd</sup> Ed. 2017, 2540-D, 2-69                 |
| 9                                                                 | Alkalinity Total (as CaCO <sub>3</sub> ) | mg/L  | 402       | 200 Max.                                      | 600 Max.                                             | IS 3025 (Part 23):1986 Reaffirmed 2009 Amds 1                |
| 10                                                                | Total Hardness (as CaCO <sub>3</sub> )   | mg/L  | 584       | 200 Max.                                      | 600 Max.                                             | APHA 23 <sup>rd</sup> Ed. 2017, 2340-C, 2-48                 |
| 11                                                                | Chloride (as Cl)                         | mg/L  | 92.0      | 250 Max.                                      | 1000 Max.                                            | APHA 23 <sup>rd</sup> Ed. 2017, 4500-Cl-B, 4-75              |





Report No. 15846 cont...

| Sr. No.                                        | Parameter                      | Unit | Result | Limit for Drinking water as per IS 10500:2012 |                                                      | Method Reference                                               |
|------------------------------------------------|--------------------------------|------|--------|-----------------------------------------------|------------------------------------------------------|----------------------------------------------------------------|
|                                                |                                |      |        | Acceptable Limit                              | Permissible Limit in the Absence of Alternate Source |                                                                |
| 12                                             | Sulphate (as SO <sub>4</sub> ) | mg/L | 67.2   | 200 Max.                                      | 400 Max.                                             | APHA 23 <sup>rd</sup> Ed. 2017, 4500-SO <sub>4</sub> -E, 4-199 |
| 13                                             | Nitrate (as NO <sub>3</sub> )  | mg/L | 44.9   | 45 Max.                                       | No relaxation                                        | APHA 23 <sup>rd</sup> Ed. 2017, 4500-NO <sub>3</sub> , E 4-131 |
| 14                                             | Calcium (as Ca)                | mg/L | 155    | 75 Max.                                       | 200 Max.                                             | APHA 23 <sup>rd</sup> Ed. 2017, 3500-Ca-B, 3-69                |
| 15                                             | Magnesium (as Mg)              | mg/L | 48.1   | 30 Max.                                       | 100 Max.                                             | APHA 23 <sup>rd</sup> Ed. 2017, 3500-Mg- B, 3-86               |
| 16                                             | Fluoride (as F)                | mg/L | 0.383  | 1 Max.                                        | 1.5 Max.                                             | APHA 23 <sup>rd</sup> Ed. 2017, 4500-F, D, 4-90                |
| 17                                             | Boron (as B)                   | mg/L | <0.1   | 0.5 Max.                                      | 2.4 Max.                                             | APHA 23 <sup>rd</sup> Ed. 2017, 4500-B B, 4-27                 |
| 18                                             | Dissolved Oxygen               | mg/L | 5.9    | -                                             | -                                                    | APHA 23 <sup>rd</sup> Ed. 2017, 4500-O, B & C, 4-144, 4-146    |
| <b>Residues in water (Trace metal Element)</b> |                                |      |        |                                               |                                                      |                                                                |
| 19                                             | Aluminium (as Al)              | mg/L | <0.025 | 0.03 Max.                                     | 0.2 Max.                                             | APHA 23 <sup>rd</sup> Ed. 2017, 3500-Al-B, 3-63                |
| 20                                             | Arsenic (as As)                | mg/L | N.D.   | 0.01 Max.                                     | No relaxation                                        | IS 3025 (Part 37), 1988 RA 2009                                |
| 21                                             | Mercury (as Hg)                | mg/L | N.D.   | 0.001Max.                                     | No relaxation                                        | APHA 23 <sup>rd</sup> Ed. 2017, 3112-B, 3-25                   |
| <b>Remarks:</b> N.D.: Not Detected             |                                |      |        |                                               |                                                      |                                                                |

END

FOR MAHABAL ENVIRO ENGINEERS PVT. LTD.

Kishor C. Yeole

BRANCH MANAGER



Note:

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Certificate Number TC-7487

ULR- TC748720000015225F



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Engineers, Consultants, Environmental Monitoring Laboratory & Contractors

Plot Nos. 13,14,17,18, Grampanchayat Bokhara, 8 km from Nagpur City,

Opp. Patel Petrol Pump, Chhindwara Road, Koradi, Dist.Nagpur-441111

Phone : 91-712-2612162,2612212 Email: [mahabal.nagpur@gmail.com](mailto:mahabal.nagpur@gmail.com)

## Water Sample Analysis Report

|                                                       |                                                                                                                                              |                                       |                                                                         |
|-------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------|-------------------------------------------------------------------------|
| <b>Report No.:</b> ME-NG15845-201203-SA-RIPL-AMRAVATI |                                                                                                                                              |                                       | <b>Date:</b> 03.12.2020                                                 |
| <b>Name and Address of Customer</b>                   | <b>RATTANI INDIA POWER LIMITED</b><br>Plot No.D-2 & D-2 (PART) at<br>Additional MIDC, Village-Nandgaonpeth,<br>Tal & Dist: Amravati 444 901. |                                       | <b>Order Reference:</b>                                                 |
|                                                       |                                                                                                                                              |                                       | SO No. 3382017462<br>Dt.16.08.2019                                      |
| <b>Sample Description/Type</b>                        | Ground Water/Grab                                                                                                                            | <b>Sample Collected by</b>            | Laboratory                                                              |
| <b>Sampling Location</b>                              | Well Water Rasalpur Village                                                                                                                  | <b>Sample Quantity/Packing</b>        | 2 L X 1 No. PVC Can<br>500mL X 1 No. PVC Can<br>1L X 1 No. Glass Bottle |
| <b>Date of Sampling</b>                               | 23.11.2020                                                                                                                                   | <b>Date of Receipt of Sample</b>      | 25.11.2020                                                              |
| <b>Sampling Procedure</b>                             | IS: 3025(Part I): 1987 RA 2003; APHA 23 <sup>rd</sup> Ed. 2017, 1060-B, 1-40;                                                                |                                       |                                                                         |
| <b>Date of Start of Analysis</b>                      | 25.11.2020                                                                                                                                   | <b>Date of Completion of Analysis</b> | 03.12.2020                                                              |

| Sr. No.                                                           | Parameter                                                | Unit | Result | Limit for Drinking water as per IS 10500:2012 |                                                      | Method Reference                                            |
|-------------------------------------------------------------------|----------------------------------------------------------|------|--------|-----------------------------------------------|------------------------------------------------------|-------------------------------------------------------------|
|                                                                   |                                                          |      |        | Acceptable Limit                              | Permissible Limit in the Absence of Alternate Source |                                                             |
| Discipline: Chemical Testing; Product Group: Water (Ground Water) |                                                          |      |        |                                               |                                                      |                                                             |
| 1.                                                                | Oil and Grease                                           | mg/L | N.D.   | -                                             | -                                                    | IS 3025 (Part 39): 1991, Reaffirmed 2009, Amds.1            |
| 2.                                                                | Cyanide (as CN)                                          | mg/L | N.D.   | 0.05 Max.                                     | No relaxation                                        | APHA 23 <sup>rd</sup> Ed. 2017, 4500-CN, C & E, 4-44 & 4-46 |
| 3.                                                                | Phenolic Compounds (as C <sub>6</sub> H <sub>5</sub> OH) | mg/L | N.D.   | 0.001 Max.                                    | 0.002 Max.                                           | APHA 23 <sup>rd</sup> Ed. 2017, 5530- B & C, 5-49, 5-50     |
| Residues in water (Trace metal Element)                           |                                                          |      |        |                                               |                                                      |                                                             |
| 4.                                                                | Selenium (as Se)                                         | mg/L | N.D.   | 0.01 Max.                                     | No relaxation                                        | APHA 23 <sup>rd</sup> Ed. 2017, 3500-C, 3-95                |
| 5.                                                                | Iron (as Fe)                                             | mg/L | <0.08  | 0.3 Max.                                      | No relaxation.                                       | IS 3025 (Part-2) 2004, RA 2014                              |
| 6.                                                                | Copper (as Cu)                                           | mg/L | <0.04  | 0.05 Max.                                     | 1.5 Max.                                             | IS 3025 (Part-2) 2004, RA 2014                              |
| 7.                                                                | Chromium Total (as Cr)                                   | mg/L | <0.1   | 0.05 Max.                                     | No relaxation                                        | IS 3025 (Part-2) 2004, RA 2014                              |
| 8.                                                                | Zinc (as Zn)                                             | mg/L | 0.010  | 5 Max.                                        | 15 Max.                                              | IS 3025 (Part-2) 2004, RA 2014                              |
| 9.                                                                | Cadmium (as Cd)                                          | mg/L | N.D.   | 0.003Max.                                     | No relaxation                                        | IS 3025 (Part-2) 2004, RA 2014                              |
| 10.                                                               | Lead (as Pb)                                             | mg/L | N.D.   | 0.01 Max.                                     | No relaxation                                        | IS 3025 (Part-2) 2004, RA 2014                              |

Page 1 of 2

QF/SALE/02/Issue No 03 Dt 05.12.2019,Amd 00 Dt 00

**Plot No. F-7, Road No. 21, MIDC Wagle Estate, Thane West - 400604, Maharashtra**  
(600 m from Hotel Rukhmini Palace Turn Opp Toyota Show Room. Next to Ashida Electrical - near J B Sawant Bus Stop)  
**Phone: 2582 0658/ 3139/ 1663/ 3154 Fax: 91-22-25823543 [thane@mahabal.com](mailto:thane@mahabal.com)**



Report No. 15845 cont...

| Sr. No.                     | Parameter         | Unit | Result | Limit for Drinking water as per IS 10500:2012 |                                                      | Method Reference               |
|-----------------------------|-------------------|------|--------|-----------------------------------------------|------------------------------------------------------|--------------------------------|
|                             |                   |      |        | Acceptable Limit                              | Permissible Limit in the Absence of Alternate Source |                                |
| 11.                         | Manganese (as Mn) | mg/L | <0.04  | 0.1 Max.                                      | 0.3 Max.                                             | IS 3025 (Part-2) 2004, RA 2014 |
| Remarks: N.D.: Not Detected |                   |      |        |                                               |                                                      |                                |

-----END-----

FOR MAHABAL ENVIRO ENGINEERS PVT. LTD.

  
Kishor C. Yeole**BRANCH MANAGER**

Note:

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Phone : 91-712-2612162,2612212 Email: [mahabal.nagpur@gmail.com](mailto:mahabal.nagpur@gmail.com)

## Water Sample Analysis Report

|                                                |                                                                                                                                     |                                |                                              |
|------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------|--------------------------------|----------------------------------------------|
| Report No.: ME-NG15846-201203-SA-RIPL-AMRAVATI |                                                                                                                                     |                                | Date: 03.12.2020                             |
| Name and Address of Customer                   | RATTANIINDIA POWER LIMITED<br>Plot No.D-2 & D-2 (PART) at<br>Additional MIDC, Village-Nandgaonpeth,<br>Tal & Dist: Amravati 444 901 |                                | Order Reference:                             |
|                                                |                                                                                                                                     |                                | SO No. 3382017462<br>Dt.16.08.2019           |
| Sample Description/Type                        | Ground Water/Grab                                                                                                                   | Sample Collected by            | Laboratory                                   |
| Sampling Location                              | Well Water of Digargaon                                                                                                             | Sample Quantity/Packing        | 2 L X 1 No. PVC Can<br>500mL X 1 No. PVC Can |
| Date of Sampling                               | 23.11.2020                                                                                                                          | Date of Receipt of Sample      | 25.11.2020                                   |
| Sampling Procedure                             | IS: 3025(Part I): 1987 RA 2003; APHA 23 <sup>rd</sup> Ed. 2017, 1060-B, 1-40;                                                       |                                |                                              |
| Date of Start of Analysis                      | 25.11.2020                                                                                                                          | Date of Completion of Analysis | 03.12.2020                                   |

| Sr. No.                                                           | Parameter                                | Unit  | Result    | Limit for Drinking water as per IS 10500:2012 |                                                      | Method Reference                                             |
|-------------------------------------------------------------------|------------------------------------------|-------|-----------|-----------------------------------------------|------------------------------------------------------|--------------------------------------------------------------|
|                                                                   |                                          |       |           | Acceptable Limit                              | Permissible Limit in the Absence of Alternate Source |                                                              |
| Discipline: Chemical Testing; Product Group: Water (Ground Water) |                                          |       |           |                                               |                                                      |                                                              |
| 1                                                                 | Colour                                   | Hazen | <1        | 5 Max.                                        | 15 Max.                                              | APHA 23 <sup>rd</sup> Ed. 2017, 2120-B, 2-6                  |
| 2                                                                 | Odour                                    | -     | Agreeable | Agreeable                                     | Agreeable                                            | IS 3025 (Part 5):1984, Reaffirmed 2006                       |
| 3                                                                 | Taste                                    | -     | Agreeable | Agreeable                                     | Agreeable                                            | IS 3025 (Part 7 & 8):1984, Reaffirmed 2006                   |
| 4                                                                 | Turbidity                                | NTU   | 0.8       | 1 Max.                                        | 5 Max.                                               | APHA 23 <sup>rd</sup> Ed. 2017, 2130-B, 2-13                 |
| 5                                                                 | pH                                       | -     | 8.2       | 6.5 to 8.5                                    | No relaxation                                        | APHA 23 <sup>rd</sup> Ed. 2017, 4500-H <sup>+</sup> -B, 4-95 |
| 6                                                                 | Residual Free Chlorine                   | mg/L  | <0.05     | 0.2 Min.                                      | 1.0 Max.                                             | APHA 23 <sup>rd</sup> Ed. 2017, 4500-Cl G, 4-72              |
| 7                                                                 | Total Dissolved Solids                   | mg/L  | 740       | 500 Max.                                      | 2000 Max.                                            | IS 3025 (Part 16):1984 RA 2006, Ed.2.1(1999-12)              |
| 8                                                                 | Total Suspended Solids                   | mg/L  | <5        | -                                             | -                                                    | APHA 23 <sup>rd</sup> Ed. 2017, 2540-D, 2-69                 |
| 9                                                                 | Alkalinity Total (as CaCO <sub>3</sub> ) | mg/L  | 402       | 200 Max.                                      | 600 Max.                                             | IS 3025 (Part 23):1986 Reaffirmed 2009 Amds 1                |
| 10                                                                | Total Hardness (as CaCO <sub>3</sub> )   | mg/L  | 584       | 200 Max.                                      | 600 Max.                                             | APHA 23 <sup>rd</sup> Ed. 2017, 2340-C, 2-48                 |
| 11                                                                | Chloride (as Cl)                         | mg/L  | 92.0      | 250 Max.                                      | 1000 Max.                                            | APHA 23 <sup>rd</sup> Ed. 2017, 4500-Cl-B, 4-75              |



Report No. 15846 cont...

| Sr. No.                                        | Parameter                      | Unit | Result | Limit for Drinking water as per IS 10500:2012 |                                                      | Method Reference                                               |
|------------------------------------------------|--------------------------------|------|--------|-----------------------------------------------|------------------------------------------------------|----------------------------------------------------------------|
|                                                |                                |      |        | Acceptable Limit                              | Permissible Limit in the Absence of Alternate Source |                                                                |
| 12                                             | Sulphate (as SO <sub>4</sub> ) | mg/L | 67.2   | 200 Max.                                      | 400 Max.                                             | APHA 23 <sup>rd</sup> Ed. 2017, 4500-SO <sub>4</sub> -E, 4-199 |
| 13                                             | Nitrate (as NO <sub>3</sub> )  | mg/L | 44.9   | 45 Max.                                       | No relaxation                                        | APHA 23 <sup>rd</sup> Ed. 2017, 4500-NO <sub>3</sub> , E 4-131 |
| 14                                             | Calcium (as Ca)                | mg/L | 155    | 75 Max.                                       | 200 Max.                                             | APHA 23 <sup>rd</sup> Ed. 2017, 3500-Ca-B, 3-69                |
| 15                                             | Magnesium (as Mg)              | mg/L | 48.1   | 30 Max.                                       | 100 Max.                                             | APHA 23 <sup>rd</sup> Ed. 2017, 3500-Mg- B, 3-86               |
| 16                                             | Fluoride (as F)                | mg/L | 0.383  | 1 Max.                                        | 1.5 Max.                                             | APHA 23 <sup>rd</sup> Ed. 2017, 4500-F, D, 4-90                |
| 17                                             | Boron (as B)                   | mg/L | <0.1   | 0.5 Max.                                      | 2.4 Max.                                             | APHA 23 <sup>rd</sup> Ed. 2017, 4500-B B, 4-27                 |
| 18                                             | Dissolved Oxygen               | mg/L | 5.9    | -                                             | -                                                    | APHA 23 <sup>rd</sup> Ed. 2017, 4500-O, B & C, 4-144, 4-146    |
| <b>Residues in water (Trace metal Element)</b> |                                |      |        |                                               |                                                      |                                                                |
| 19                                             | Aluminium (as Al)              | mg/L | <0.025 | 0.03 Max.                                     | 0.2 Max.                                             | APHA 23 <sup>rd</sup> Ed. 2017, 3500-Al-B, 3-63                |
| 20                                             | Arsenic (as As)                | mg/L | N.D.   | 0.01 Max.                                     | No relaxation                                        | IS 3025 (Part 37), 1988 RA 2009                                |
| 21                                             | Mercury (as Hg)                | mg/L | N.D.   | 0.001Max.                                     | No relaxation                                        | APHA 23 <sup>rd</sup> Ed. 2017, 3112-B, 3-25                   |
| <b>Remarks:</b> N.D.: Not Detected             |                                |      |        |                                               |                                                      |                                                                |

END

FOR MAHABAL ENVIRO ENGINEERS PVT. LTD.

Kishor C. Yeole

BRANCH MANAGER



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## Water Sample Analysis Report

|                                                       |                                                                                                                                            |                                       |                                                                         |
|-------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------|-------------------------------------------------------------------------|
| <b>Report No.:</b> ME-NG15846-201203-SA-RIPL-AMRAVATI |                                                                                                                                            |                                       | <b>Date:</b> 03.12.2020                                                 |
| <b>Name and Address of Customer</b>                   | <b>RATTANINDIA POWER LIMITED</b><br>Plot No.D-2 & D-2 (PART) at<br>Additional MIDC, Village-Nandgaonpeth,<br>Tal & Dist: Amravati 444 901. |                                       | <b>Order Reference:</b>                                                 |
|                                                       |                                                                                                                                            |                                       | SO No. 3382017462<br>Dt.16.08.2019                                      |
| <b>Sample Description/Type</b>                        | Ground Water/Grab                                                                                                                          | <b>Sample Collected by</b>            | Laboratory                                                              |
| <b>Sampling Location</b>                              | Well Water<br>Digargaon Village                                                                                                            | <b>Sample Quantity/Packing</b>        | 2 L X 1 No. PVC Can<br>500mL X 1 No. PVC Can<br>1L X 1 No. Glass Bottle |
| <b>Date of Sampling</b>                               | 23.11.2020                                                                                                                                 | <b>Date of Receipt of Sample</b>      | 25.11.2020                                                              |
| <b>Sampling Procedure</b>                             | IS: 3025(Part I): 1987 RA 2003; APHA 23 <sup>rd</sup> Ed. 2017, 1060-B, 1-40;                                                              |                                       |                                                                         |
| <b>Date of Start of Analysis</b>                      | 25.11.2020                                                                                                                                 | <b>Date of Completion of Analysis</b> | 03.12.2020                                                              |

| Sr. No.                                                           | Parameter                                                | Unit | Result | Limit for Drinking water as per IS 10500:2012 |                                                      | Method Reference                                            |
|-------------------------------------------------------------------|----------------------------------------------------------|------|--------|-----------------------------------------------|------------------------------------------------------|-------------------------------------------------------------|
|                                                                   |                                                          |      |        | Acceptable Limit                              | Permissible Limit in the Absence of Alternate Source |                                                             |
| Discipline: Chemical Testing; Product Group: Water (Ground Water) |                                                          |      |        |                                               |                                                      |                                                             |
| 1.                                                                | Oil and Grease                                           | mg/L | N.D.   | -                                             | -                                                    | IS 3025 (Part 39): 1991, Reaffirmed 2009, Amds.1            |
| 2.                                                                | Cyanide (as CN)                                          | mg/L | N.D.   | 0.05 Max.                                     | No relaxation                                        | APHA 23 <sup>rd</sup> Ed. 2017, 4500-CN, C & E, 4-44 & 4-46 |
| 3.                                                                | Phenolic Compounds (as C <sub>6</sub> H <sub>5</sub> OH) | mg/L | N.D.   | 0.001 Max.                                    | 0.002 Max.                                           | APHA 23 <sup>rd</sup> Ed. 2017, 5530- B & C, 5-49, 5-50     |
| Residues in water (Trace metal Element)                           |                                                          |      |        |                                               |                                                      |                                                             |
| 4.                                                                | Selenium (as Se)                                         | mg/L | N.D.   | 0.01 Max.                                     | No relaxation                                        | APHA 23 <sup>rd</sup> Ed. 2017, 3500-C, 3-95                |
| 5.                                                                | Iron (as Fe)                                             | mg/L | 0.250  | 0.3 Max.                                      | No relaxation.                                       | IS 3025 (Part-2) 2004, RA 2014                              |
| 6.                                                                | Copper (as Cu)                                           | mg/L | <0.04  | 0.05 Max.                                     | 1.5 Max.                                             | IS 3025 (Part-2) 2004, RA 2014                              |
| 7.                                                                | Chromium Total (as Cr)                                   | mg/L | N.D.   | 0.05 Max.                                     | No relaxation                                        | IS 3025 (Part-2) 2004, RA 2014                              |
| 8.                                                                | Zinc (as Zn)                                             | mg/L | 0.065  | 5 Max.                                        | 15 Max.                                              | IS 3025 (Part-2) 2004, RA 2014                              |
| 9.                                                                | Cadmium (as Cd)                                          | mg/L | N.D.   | 0.003Max.                                     | No relaxation                                        | IS 3025 (Part-2) 2004, RA 2014                              |
| 10.                                                               | Lead (as Pb)                                             | mg/L | N.D.   | 0.01 Max.                                     | No relaxation                                        | IS 3025 (Part-2) 2004, RA 2014                              |

Page 1 of 2

QF/SALE/02/Issue No 03 Dt 05.12.2019,Amd 00 Dt 00

**Plot No. F-7, Road No. 21, MIDC Wagle Estate, Thane West - 400604, Maharashtra**  
(600 m from Hotel Rukhmini Palace Turn Opp Toyota Show Room. Next to Ashida Electrical - near J B Sawant Bus Stop)  
**Phone: 2582 0658/ 3139/ 1663/ 3154 Fax: 91-22-25823543 [thane@mahabal.com](mailto:thane@mahabal.com)**




Report No. 15846 cont...

| Sr. No.                            | Parameter         | Unit | Result | Limit for Drinking water as per IS 10500:2012 |                                                      | Method Reference               |
|------------------------------------|-------------------|------|--------|-----------------------------------------------|------------------------------------------------------|--------------------------------|
|                                    |                   |      |        | Acceptable Limit                              | Permissible Limit in the Absence of Alternate Source |                                |
| 11.                                | Manganese (as Mn) | mg/L | <0.04  | 0.1 Max.                                      | 0.3 Max.                                             | IS 3025 (Part-2) 2004, RA 2014 |
| <b>Remarks:</b> N.D.: Not Detected |                   |      |        |                                               |                                                      |                                |

END

FOR MAHABAL ENVIRO ENGINEERS PVT. LTD.

  
Kishor C. Yeole

**BRANCH MANAGER**



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Phone : 91-712-2612162,2612212 Email: [mahabal.nagpur@gmail.com](mailto:mahabal.nagpur@gmail.com)

## Water Sample Analysis Report

|                                                |                                                                                                                                     |                                |                                              |
|------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------|--------------------------------|----------------------------------------------|
| Report No.: ME-NG15847-201203-SA-RIPL-AMRAVATI |                                                                                                                                     |                                | Date: 03.12.2020                             |
| Name and Address of Customer                   | RATTANIINDIA POWER LIMITED<br>Plot No.D-2 & D-2 (PART) at<br>Additional MIDC, Village-Nandgaonpeth,<br>Tal & Dist: Amravati 444 901 |                                | Order Reference:                             |
|                                                |                                                                                                                                     |                                | SO No. 3382017462<br>Dt.16.08.2019           |
| Sample Description/Type                        | Ground Water/Grab                                                                                                                   | Sample Collected by            | Laboratory                                   |
| Sampling Location                              | Well Water of Pimpalvihergaon                                                                                                       | Sample Quantity/Packing        | 2 L X 1 No. PVC Can<br>500mL X 1 No. PVC Can |
| Date of Sampling                               | 23.11.2020                                                                                                                          | Date of Receipt of Sample      | 25.11.2020                                   |
| Sampling Procedure                             | IS: 3025(Part I): 1987 RA 2003; APHA 23 <sup>rd</sup> Ed. 2017, 1060-B, 1-40;                                                       |                                |                                              |
| Date of Start of Analysis                      | 25.11.2020                                                                                                                          | Date of Completion of Analysis | 03.12.2020                                   |

| Sr. No.                                                           | Parameter                                | Unit  | Result    | Limit for Drinking water as per IS 10500:2012 |                                                      | Method Reference                                             |
|-------------------------------------------------------------------|------------------------------------------|-------|-----------|-----------------------------------------------|------------------------------------------------------|--------------------------------------------------------------|
|                                                                   |                                          |       |           | Acceptable Limit                              | Permissible Limit in the Absence of Alternate Source |                                                              |
| Discipline: Chemical Testing; Product Group: Water (Ground Water) |                                          |       |           |                                               |                                                      |                                                              |
| 1                                                                 | Colour                                   | Hazen | <1        | 5 Max.                                        | 15 Max.                                              | APHA 23 <sup>rd</sup> Ed. 2017, 2120-B, 2-6                  |
| 2                                                                 | Odour                                    | -     | Agreeable | Agreeable                                     | Agreeable                                            | IS 3025 (Part 5):1984, Reaffirmed 2006                       |
| 3                                                                 | Taste                                    | -     | Agreeable | Agreeable                                     | Agreeable                                            | IS 3025 (Part 7 & 8):1984, Reaffirmed 2006                   |
| 4                                                                 | Turbidity                                | NTU   | 0.5       | 1 Max.                                        | 5 Max.                                               | APHA 23 <sup>rd</sup> Ed. 2017, 2130-B, 2-13                 |
| 5                                                                 | pH                                       | -     | 7.9       | 6.5 to 8.5                                    | No relaxation                                        | APHA 23 <sup>rd</sup> Ed. 2017, 4500-H <sup>+</sup> -B, 4-95 |
| 6                                                                 | Residual Free Chlorine                   | mg/L  | <0.05     | 0.2 Min.                                      | 1.0 Max.                                             | APHA 23 <sup>rd</sup> Ed. 2017, 4500-Cl G, 4-72              |
| 7                                                                 | Total Dissolved Solids                   | mg/L  | 431       | 500 Max.                                      | 2000 Max.                                            | IS 3025 (Part 16):1984 RA 2006, Ed.2.1(1999-12)              |
| 8                                                                 | Total Suspended Solids                   | mg/L  | 6         | -                                             | -                                                    | APHA 23 <sup>rd</sup> Ed. 2017, 2540-D, 2-69                 |
| 9                                                                 | Alkalinity Total (as CaCO <sub>3</sub> ) | mg/L  | 332       | 200 Max.                                      | 600 Max.                                             | IS 3025 (Part 23):1986 Reaffirmed 2009 Amds 1                |
| 10                                                                | Total Hardness (as CaCO <sub>3</sub> )   | mg/L  | 282       | 200 Max.                                      | 600 Max.                                             | APHA 23 <sup>rd</sup> Ed. 2017, 2340-C, 2-48                 |
| 11                                                                | Chloride (as Cl)                         | mg/L  | 15.0      | 250 Max.                                      | 1000 Max.                                            | APHA 23 <sup>rd</sup> Ed. 2017, 4500-Cl-B, 4-75              |

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Plot No. F-7, Road No. 21, MIDC Wagle Estate, Thane West - 400604, Maharashtra  
(600 m from Hotel Rukhmini Palace Turn Opp Toyota Show Room. Next to Ashida Electrical - near J B Sawant Bus Stop)  
Phone: 2582 0658/ 3139/ 1663/ 3154 Fax: 91-22-25823543 [thane@mahabal.com](mailto:thane@mahabal.com)

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Report No. 15847 cont...

| Sr. No.                                        | Parameter                      | Unit | Result | Limit for Drinking water as per IS 10500:2012 |                                                      | Method Reference                                               |
|------------------------------------------------|--------------------------------|------|--------|-----------------------------------------------|------------------------------------------------------|----------------------------------------------------------------|
|                                                |                                |      |        | Acceptable Limit                              | Permissible Limit in the Absence of Alternate Source |                                                                |
| 12                                             | Sulphate (as SO <sub>4</sub> ) | mg/L | 17     | 200 Max.                                      | 400 Max.                                             | APHA 23 <sup>rd</sup> Ed. 2017, 4500-SO <sub>4</sub> -E, 4-199 |
| 13                                             | Nitrate (as NO <sub>3</sub> )  | mg/L | 16     | 45 Max.                                       | No relaxation                                        | APHA 23 <sup>rd</sup> Ed. 2017, 4500-NO <sub>3</sub> , E 4-131 |
| 14                                             | Calcium (as Ca)                | mg/L | 59.3   | 75 Max.                                       | 200 Max.                                             | APHA 23 <sup>rd</sup> Ed. 2017, 3500-Ca-B, 3-69                |
| 15                                             | Magnesium (as Mg)              | mg/L | 32.6   | 30 Max.                                       | 100 Max.                                             | APHA 23 <sup>rd</sup> Ed. 2017, 3500-Mg- B, 3-86               |
| 16                                             | Fluoride (as F)                | mg/L | 0.344  | 1 Max.                                        | 1.5 Max.                                             | APHA 23 <sup>rd</sup> Ed. 2017, 4500-F, D, 4-90                |
| 17                                             | Boron (as B)                   | mg/L | <0.1   | 0.5 Max.                                      | 2.4 Max.                                             | APHA 23 <sup>rd</sup> Ed. 2017, 4500-B B, 4-27                 |
| 18                                             | Dissolved Oxygen               | mg/L | 6.1    | -                                             | -                                                    | APHA 23 <sup>rd</sup> Ed. 2017, 4500-O, B & C, 4-144, 4-146    |
| <b>Residues in water (Trace metal Element)</b> |                                |      |        |                                               |                                                      |                                                                |
| 19                                             | Aluminium (as Al)              | mg/L | <0.025 | 0.03 Max.                                     | 0.2 Max.                                             | APHA 23 <sup>rd</sup> Ed. 2017, 3500-Al-B, 3-63                |
| 20                                             | Arsenic (as As)                | mg/L | N.D.   | 0.01 Max.                                     | No relaxation                                        | IS 3025 (Part 37), 1988 RA 2009                                |
| 21                                             | Mercury (as Hg)                | mg/L | N.D.   | 0.001Max.                                     | No relaxation                                        | APHA 23 <sup>rd</sup> Ed. 2017, 3112-B, 3-25                   |
| <b>Remarks:</b> N.D.: Not Detected             |                                |      |        |                                               |                                                      |                                                                |

END

FOR MAHABAL ENVIRO ENGINEERS PVT. LTD.

Kishor C. Yeole

BRANCH MANAGER



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## Water Sample Analysis Report

|                                                       |                                                                                                                                            |                                       |                                                                         |
|-------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------|-------------------------------------------------------------------------|
| <b>Report No.:</b> ME-NG15847-201203-SA-RIPL-AMRAVATI |                                                                                                                                            |                                       | <b>Date:</b> 03.12.2020                                                 |
| <b>Name and Address of Customer</b>                   | <b>RATTANINDIA POWER LIMITED</b><br>Plot No.D-2 & D-2 (PART) at<br>Additional MIDC, Village-Nandgaonpeth,<br>Tal & Dist: Amravati 444 901. |                                       | <b>Order Reference:</b>                                                 |
|                                                       |                                                                                                                                            |                                       | SO No. 3382017462<br>Dt.16.08.2019                                      |
| <b>Sample Description/Type</b>                        | Ground Water/Grab                                                                                                                          | <b>Sample Collected by</b>            | Laboratory                                                              |
| <b>Sampling Location</b>                              | Well Water<br>Pimpalvihergaon<br>Village                                                                                                   | <b>Sample Quantity/Packing</b>        | 2 L X 1 No. PVC Can<br>500mL X 1 No. PVC Can<br>1L X 1 No. Glass Bottle |
| <b>Date of Sampling</b>                               | 23.11.2020                                                                                                                                 | <b>Date of Receipt of Sample</b>      | 25.11.2020                                                              |
| <b>Sampling Procedure</b>                             | IS: 3025(Part I): 1987 RA 2003; APHA 23 <sup>rd</sup> Ed. 2017, 1060-B, 1-40;                                                              |                                       |                                                                         |
| <b>Date of Start of Analysis</b>                      | 25.11.2020                                                                                                                                 | <b>Date of Completion of Analysis</b> | 03.12.2020                                                              |

| Sr. No.                                                           | Parameter                                                | Unit | Result | Limit for Drinking water as per IS 10500:2012 |                                                      | Method Reference                                            |
|-------------------------------------------------------------------|----------------------------------------------------------|------|--------|-----------------------------------------------|------------------------------------------------------|-------------------------------------------------------------|
|                                                                   |                                                          |      |        | Acceptable Limit                              | Permissible Limit in the Absence of Alternate Source |                                                             |
| Discipline: Chemical Testing; Product Group: Water (Ground Water) |                                                          |      |        |                                               |                                                      |                                                             |
| 1.                                                                | Oil and Grease                                           | mg/L | N.D.   | -                                             | -                                                    | IS 3025 (Part 39): 1991, Reaffirmed 2009, Amds.1            |
| 2.                                                                | Cyanide (as CN)                                          | mg/L | N.D.   | 0.05 Max.                                     | No relaxation                                        | APHA 23 <sup>rd</sup> Ed. 2017, 4500-CN, C & E, 4-44 & 4-46 |
| 3.                                                                | Phenolic Compounds (as C <sub>6</sub> H <sub>5</sub> OH) | mg/L | N.D.   | 0.001 Max.                                    | 0.002 Max.                                           | APHA 23 <sup>rd</sup> Ed. 2017, 5530- B & C, 5-49, 5-50     |
| Residues in water (Trace metal Element)                           |                                                          |      |        |                                               |                                                      |                                                             |
| 4.                                                                | Selenium (as Se)                                         | mg/L | N.D.   | 0.01 Max.                                     | No relaxation                                        | APHA 23 <sup>rd</sup> Ed. 2017, 3500-C, 3-95                |
| 5.                                                                | Iron (as Fe)                                             | mg/L | <0.08  | 0.3 Max.                                      | No relaxation.                                       | IS 3025 (Part-2) 2004, RA 2014                              |
| 6.                                                                | Copper (as Cu)                                           | mg/L | <0.04  | 0.05 Max.                                     | 1.5 Max.                                             | IS 3025 (Part-2) 2004, RA 2014                              |
| 7.                                                                | Chromium Total (as Cr)                                   | mg/L | N.D.   | 0.05 Max.                                     | No relaxation                                        | IS 3025 (Part-2) 2004, RA 2014                              |
| 8.                                                                | Zinc (as Zn)                                             | mg/L | 0.017  | 5 Max.                                        | 15 Max.                                              | IS 3025 (Part-2) 2004, RA 2014                              |
| 9.                                                                | Cadmium (as Cd)                                          | mg/L | N.D.   | 0.003Max.                                     | No relaxation                                        | IS 3025 (Part-2) 2004, RA 2014                              |
| 10.                                                               | Lead (as Pb)                                             | mg/L | N.D.   | 0.01 Max.                                     | No relaxation                                        | IS 3025 (Part-2) 2004, RA 2014                              |

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**Plot No. F-7, Road No. 21, MIDC Wagle Estate, Thane West - 400604, Maharashtra**  
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**Phone: 2582 0658/ 3139/ 1663/ 3154 Fax: 91-22-25823543 [thane@mahabal.com](mailto:thane@mahabal.com)**



Report No. 15847 cont...

| Sr. No.                     | Parameter         | Unit | Result | Limit for Drinking water as per IS 10500:2012 |                                                      | Method Reference               |
|-----------------------------|-------------------|------|--------|-----------------------------------------------|------------------------------------------------------|--------------------------------|
|                             |                   |      |        | Acceptable Limit                              | Permissible Limit in the Absence of Alternate Source |                                |
| 11.                         | Manganese (as Mn) | mg/L | <0.04  | 0.1 Max.                                      | 0.3 Max.                                             | IS 3025 (Part-2) 2004, RA 2014 |
| Remarks: N.D.: Not Detected |                   |      |        |                                               |                                                      |                                |

-----END-----

FOR MAHABAL ENVIRO ENGINEERS PVT. LTD.

  
Kishor C. Yeole**BRANCH MANAGER**

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## Effluent Sample Analysis Report

|                                                |                                                                                                                                      |                                |                                                                          |
|------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------|--------------------------------|--------------------------------------------------------------------------|
| Report No.: ME-NG15849-201203-SA-RIPL-AMRAVATI |                                                                                                                                      |                                | Date: 03.12.2020                                                         |
| Name and Address of Customer                   | RATTANI INDIA POWER LIMITED<br>Plot No.D-2 & D-2 (PART) at<br>Additional MIDC, Village-Nandgaonpeth,<br>Tal & Dist: Amravati 444 901 |                                | Order Reference:                                                         |
|                                                |                                                                                                                                      |                                | SO No. 3382017462<br>Dt.16.08.2019                                       |
| Sample Description/Type                        | Industrial Effluent                                                                                                                  | Sample Collected by            | Laboratory                                                               |
| Sampling Location                              | Leachate Water                                                                                                                       | Sample Quantity/Packing        | 2 L X 1 No. PVC Can<br>500mL X 1 No. PVC Can<br>1 L X 1 No. Glass Bottle |
| Date of Sampling                               | 24.11.2020                                                                                                                           | Date of Receipt of Sample      | 25.11.2020                                                               |
| Sampling Procedure                             | IS: 3025(Part I):1987 RA 2003; APHA 23 <sup>rd</sup> Ed. 2017, 1060-B, 1-40;                                                         |                                |                                                                          |
| Date of Start of Analysis                      | 25.11.2020                                                                                                                           | Date of Completion of Analysis | 03.12.2020                                                               |

| Sr. No.                                                                            | Parameter                                | Unit  | Result    | Method Reference                                                |
|------------------------------------------------------------------------------------|------------------------------------------|-------|-----------|-----------------------------------------------------------------|
| Discipline: Chemical Testing; Product Group: Pollution & Environment (Waste Water) |                                          |       |           |                                                                 |
| 1.                                                                                 | Colour                                   | Hazen | < 1       | APHA 23 <sup>rd</sup> Ed. 2017, 2120-B, 2-6                     |
| 2.                                                                                 | Odour                                    | -     | Agreeable | IS 3025 (Part 05):1984, Reaffirmed 2006                         |
| 3.                                                                                 | Turbidity                                | NTU   | 0.3       | APHA 23 <sup>rd</sup> Ed. 2017, 2130-B, 2-13                    |
| 4.                                                                                 | pH                                       | -     | 7.9       | APHA 23 <sup>rd</sup> Ed. 2017, 4500-H <sup>+</sup> -B, 4-95    |
| 5.                                                                                 | Residual Free Chlorine                   | mg/L  | <0.05     | APHA 23 <sup>rd</sup> Ed. 2017, 4500-Cl G, 4-72                 |
| 6.                                                                                 | Total Dissolved Solids                   | mg/L  | 1082      | IS 3025 (Part 16):1984 Reaffirmed 2006, Ed.2.1(1999-12)         |
| 7.                                                                                 | Total Suspended Solids                   | mg/L  | <5        | APHA 23 <sup>rd</sup> Ed. 2017, 2540-D, 2-69                    |
| 8.                                                                                 | Alkalinity Total (as CaCO <sub>3</sub> ) | mg/L  | 208       | IS 3025 (Part 23):1986 Reaffirmed 2009 Amds 1                   |
| 9.                                                                                 | Total Hardness (as CaCO <sub>3</sub> )   | mg/L  | 860       | APHA 23 <sup>rd</sup> Ed. 2017, 2340-C, 2-48                    |
| 10.                                                                                | Chloride (as Cl)                         | mg/L  | 108       | APHA 23 <sup>rd</sup> Ed. 2017, 4500-Cl-B, 4-75                 |
| 11.                                                                                | Sulphate (as SO <sub>4</sub> )           | mg/L  | 498       | APHA 23 <sup>rd</sup> Ed. 2017, 4500- SO <sub>4</sub> -E, 4-199 |


*Report No.15849 Cont...*

| Sr. No.                                        | Parameter                            | Unit | Result | Method Reference                                               |
|------------------------------------------------|--------------------------------------|------|--------|----------------------------------------------------------------|
| 12.                                            | Nitrate (as NO <sub>3</sub> )        | mg/L | 0.917  | APHA 23 <sup>rd</sup> Ed. 2017, 4500-NO <sub>3</sub> , E 4-131 |
| 13.                                            | Calcium (as Ca)                      | mg/L | 249    | APHA 23 <sup>rd</sup> Ed. 2017, 3500-Ca-B, 3-69                |
| 14.                                            | Magnesium (as Mg)                    | mg/L | 57.8   | APHA 23 <sup>rd</sup> Ed. 2017, 3500-Mg- B, 3-86               |
| 15.                                            | Fluoride (as F)                      | mg/L | 0.708  | APHA 23 <sup>rd</sup> Ed. 2017, 4500-F, D, 4-90                |
| 16.                                            | Boron (as B)                         | mg/L | <0.1   | APHA 23 <sup>rd</sup> Ed. 2017, 4500-B B, 4-27                 |
| 17.                                            | Dissolved Oxygen                     | mg/L | 5.9    | APHA 23 <sup>rd</sup> Ed. 2017, 4500-O, B & C, 4-144, 4-146    |
| 18.                                            | Oil and Grease                       | mg/L | N.D.   | IS 3025 (Part 39): 1991, Reaffirmed 2009, Amds.1               |
| <b>Residues in water (Trace metal Element)</b> |                                      |      |        |                                                                |
| 19.                                            | Aluminium (as Al)                    | mg/L | <0.025 | APHA 23 <sup>rd</sup> Ed. 2017, 3500-Al-B, 3-63                |
| 20.                                            | Chromium Hexa (as Cr <sup>6+</sup> ) | mg/L | N.D.   | APHA 23 <sup>rd</sup> Ed. 2017, 3500- Cr-B, 3-71               |
| 21.                                            | Arsenic (as As)                      | mg/L | N.D.   | IS 3025 (Part 37),1988 RA 2009                                 |
| 22.                                            | Mercury (as Hg)                      | mg/L | N.D.   | APHA 23 <sup>rd</sup> Ed. 2017, 3112-B, 3-25                   |
| <b>Remarks:</b> N.D.: Not Detected             |                                      |      |        |                                                                |

-----END-----

FOR MAHABAL ENVIRO ENGINEERS PVT. LTD.

*Kishor C. Yeole*

**BRANCH MANAGER**



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## Effluent Sample Analysis Report

|                                                |                                                                                                                                      |                                |                                                   |
|------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------|--------------------------------|---------------------------------------------------|
| Report No.: ME-NG15849-201203-SA-RIPL-AMRAVATI |                                                                                                                                      |                                | Date: 03.12.2020                                  |
| Name and Address of Customer                   | RATTANI INDIA POWER LIMITED<br>Plot No.D-2 & D-2 (PART) at<br>Additional MIDC, Village-Nandgaonpeth,<br>Tal & Dist: Amravati 444 901 |                                | Order Reference:                                  |
|                                                |                                                                                                                                      |                                | SO No. 3382017462<br>Dt.16.08.2019                |
| Sample Description/Type                        | Industrial Effluent                                                                                                                  | Sample Collected by            | Laboratory                                        |
| Sampling Location                              | Leachate Water                                                                                                                       | Sample Quantity/Packing        | 500mL X 1 No. PVC Can<br>1 L X 1 No. Glass Bottle |
| Date of Sampling                               | 24.11.2020                                                                                                                           | Date of Receipt of Sample      | 25.11.2020                                        |
| Sampling Procedure                             | IS: 3025(Part I):1987 RA 2003; APHA 23 <sup>rd</sup> Ed. 2017, 1060-B, 1-40;                                                         |                                |                                                   |
| Date of Start of Analysis                      | 25.11.2020                                                                                                                           | Date of Completion of Analysis | 03.12.2020                                        |

| Sr. No.                                                                            | Parameter                                                | Unit | Result | Method Reference                                            |
|------------------------------------------------------------------------------------|----------------------------------------------------------|------|--------|-------------------------------------------------------------|
| Discipline: Chemical Testing; Product Group: Pollution & Environment (Waste Water) |                                                          |      |        |                                                             |
| 1.                                                                                 | Cyanide (as CN)                                          | mg/L | N.D.   | APHA 23 <sup>rd</sup> Ed. 2017, 4500-CN, C & E, 4-44 & 4-46 |
| 2.                                                                                 | Phenolic Compounds (as C <sub>6</sub> H <sub>5</sub> OH) | mg/L | N.D.   | APHA 23 <sup>rd</sup> Ed. 2017, 5530- B & C, 5-49, 5-50     |
| Residues in water (Trace metal Element)                                            |                                                          |      |        |                                                             |
| 3.                                                                                 | Iron (as Fe)                                             | mg/L | 0.095  | IS 3025 (Part-2) 2004, RA 2014                              |
| 4.                                                                                 | Manganese (as Mn)                                        | mg/L | 0.090  | IS 3025 (Part-2) 2004, RA 2014                              |
| 5.                                                                                 | Cadmium (as Cd)                                          | mg/L | N.D.   | IS 3025 (Part-2) 2004, RA 2014                              |
| 6.                                                                                 | Copper (as Cu)                                           | mg/L | <0.04  | IS 3025 (Part-2) 2004, RA 2014                              |
| 7.                                                                                 | Lead (as Pb)                                             | mg/L | N.D.   | IS 3025 (Part-2) 2004, RA 2014                              |
| 8.                                                                                 | Zinc (as Zn)                                             | mg/L | 0.024  | IS 3025 (Part-2) 2004, RA 2014                              |
| 9.                                                                                 | Selenium (as Se)                                         | mg/L | N.D.   | APHA 23 <sup>rd</sup> Ed. 2017, 3114-C, 3-40                |
| Remarks: N.D.: Not Detected                                                        |                                                          |      |        |                                                             |

END

FOR MAHABAL ENVIRO ENGINEERS PVT. LTD.

Kishor C.Yeole

BRANCH MANAGER



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## Water Sample Analysis Report

|                                                       |                                                                                                                                           |                                       |                                                                      |
|-------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------|----------------------------------------------------------------------|
| <b>Report No.:</b> ME-NG15840-201203-SA-RIPL-AMRAVATI |                                                                                                                                           | <b>Date:</b> 03.12.2020               |                                                                      |
| <b>Name and Address of Customer</b>                   | <b>RATTANINDIA POWER LIMITED</b><br>Plot No.D-2 & D-2 (PART) at<br>Additional MIDC, Village-Nandgaonpeth,<br>Tal & Dist: Amravati 444 901 | <b>Order Reference:</b>               |                                                                      |
|                                                       |                                                                                                                                           | SO No. 3382017462<br>Dt.16.08.2019    |                                                                      |
| <b>Sample Description/Type</b>                        | Surface Water                                                                                                                             | <b>Sample Collected by</b>            | Laboratory                                                           |
| <b>Sampling Location</b>                              | Malegaon Pond                                                                                                                             | <b>Sample Quantity/Packing</b>        | 2 L X 1 No. PVC Can<br>500mL X 1No. PVC Can<br>1L X 1No.Glass Bottle |
| <b>Date of Sampling</b>                               | 23.11.2020                                                                                                                                | <b>Date of Receipt of Sample</b>      | 25.11.2020                                                           |
| <b>Sampling Procedure</b>                             | IS: 3025(Part I):1987 RA 2003; APHA 23 <sup>rd</sup> Ed. 2017, 1060-B, 1-40;                                                              |                                       |                                                                      |
| <b>Date of Start of Analysis</b>                      | 25.11.2020                                                                                                                                | <b>Date of Completion of Analysis</b> | 03.12.2020                                                           |

| Sr. No.                                                                   | Parameter                                | Unit  | Result    | Method Reference                                                |
|---------------------------------------------------------------------------|------------------------------------------|-------|-----------|-----------------------------------------------------------------|
| <b>Discipline: Chemical Testing; Product Group: Water (Surface Water)</b> |                                          |       |           |                                                                 |
| 1.                                                                        | Colour                                   | Hazen | <1        | APHA 23 <sup>rd</sup> Ed. 2017, 2120-B, 2-6                     |
| 2.                                                                        | Odour                                    | -     | Agreeable | IS 3025 (Part 05):1984, Reaffirmed 2006                         |
| 3.                                                                        | Taste                                    | -     | N.A.      | IS 3025 (Part 7 & 8):1984, Reaffirmed 2006                      |
| 4.                                                                        | Turbidity                                | NTU   | 0.6       | APHA 23 <sup>rd</sup> Ed. 2017, 2130-B, 2-13                    |
| 5.                                                                        | pH                                       | -     | 8.2       | APHA 23 <sup>rd</sup> Ed. 2017, 4500-H <sup>+</sup> -B, 4-95    |
| 6.                                                                        | Residual Free Chlorine                   | mg/L  | <0.05     | APHA 23 <sup>rd</sup> Ed. 2017, 4500-Cl G, 4-72                 |
| 7.                                                                        | Total Dissolved Solids                   | mg/L  | 260       | IS 3025 (Part 16):1984 Reaffirmed 2006, Ed.2.1(1999-12)         |
| 8.                                                                        | Total Suspended Solids                   | mg/L  | <5        | APHA 23 <sup>rd</sup> Ed. 2017, 2540-D, 2-69                    |
| 9.                                                                        | Alkalinity Total (as CaCO <sub>3</sub> ) | mg/L  | 176       | IS 3025 (Part 23):1986 Reaffirmed 2009 Amds 1                   |
| 10.                                                                       | Total Hardness (as CaCO <sub>3</sub> )   | mg/L  | 196       | APHA 23 <sup>rd</sup> Ed. 2017, 2340-C, 2-48                    |
| 11.                                                                       | Chloride (as Cl)                         | mg/L  | 24        | APHA 23 <sup>rd</sup> Ed. 2017, 4500-Cl-B, 4-75                 |
| 12.                                                                       | Sulphate (as SO <sub>4</sub> )           | mg/L  | 16.3      | APHA 23 <sup>rd</sup> Ed. 2017, 4500- SO <sub>4</sub> -E, 4-199 |
| 13.                                                                       | Nitrate (as NO <sub>3</sub> )            | mg/L  | 0.456     | APHA 23 <sup>rd</sup> Ed. 2017, 4500-NO <sub>3</sub> , E 4-131  |
| 14.                                                                       | Calcium (as Ca)                          | mg/L  | 40.1      | APHA 23 <sup>rd</sup> Ed. 2017, 3500-Ca-B, 3-69                 |
| 15.                                                                       | Magnesium (as Mg)                        | mg/L  | 23.3      | APHA 23 <sup>rd</sup> Ed. 2017, 3500-Mg- B, 3-86                |
| 16.                                                                       | Fluoride (as F)                          | mg/L  | 0.344     | APHA 23 <sup>rd</sup> Ed. 2017, 4500-F, D, 4-90                 |
| 17.                                                                       | Boron (as B)                             | mg/L  | <0.1      | APHA 23 <sup>rd</sup> Ed. 2017, 4500-B B, 4-27                  |



Report No.15840 Cont...

| Sr. No.                                                | Parameter         | Unit | Result | Method Reference                                            |
|--------------------------------------------------------|-------------------|------|--------|-------------------------------------------------------------|
| 18.                                                    | Dissolved Oxygen  | mg/L | 6.7    | APHA 23 <sup>rd</sup> Ed. 2017, 4500-O, B & C, 4-144, 4-146 |
| <b>Residues in water (Trace metal Element)</b>         |                   |      |        |                                                             |
| 19.                                                    | Aluminium (as Al) | mg/L | <0.025 | APHA 23 <sup>rd</sup> Ed. 2017, 3500-Al-B, 3-63             |
| 20.                                                    | Mercury (as Hg)   | mg/L | N.D.   | APHA 23 <sup>rd</sup> Ed. 2017, 3112-B, 3-25                |
| <b>Remarks:</b> N.D.: Not Detected; NA: Not Applicable |                   |      |        |                                                             |

-----END-----

FOR MAHABAL ENVIRO ENGINEERS PVT. LTD.

Kishor C.Yeole

**BRANCH MANAGER**



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## Water Sample Analysis Report

|                                                       |                                                                                                                                           |                                       |                                                                      |                                    |
|-------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------|----------------------------------------------------------------------|------------------------------------|
| <b>Report No.:</b> ME-NG15840-201030-SA-RIPL-AMRAVATI |                                                                                                                                           |                                       | <b>Date:</b> 30.10.2020                                              |                                    |
| <b>Name and Address of Customer</b>                   | <b>RATTANINDIA POWER LIMITED</b><br>Plot No.D-2 & D-2 (PART) at<br>Additional MIDC, Village-Nandgaonpeth,<br>Tal & Dist: Amravati 444 901 |                                       |                                                                      | <b>Order Reference:</b>            |
|                                                       |                                                                                                                                           |                                       |                                                                      | SO No. 3382017462<br>Dt.16.08.2019 |
| <b>Sample Description/Type</b>                        | Surface Water                                                                                                                             | <b>Sample Collected by</b>            | Laboratory                                                           |                                    |
| <b>Sampling Location</b>                              | Malegaon Pond                                                                                                                             | <b>Sample Quantity/Packing</b>        | 2 L X 1 No. PVC Can<br>500mL X 1No. PVC Can<br>1L X 1No.Glass Bottle |                                    |
| <b>Date of Sampling</b>                               | 23.11.2020                                                                                                                                | <b>Date of Receipt of Sample</b>      | 25.11.2020                                                           |                                    |
| <b>Sampling Procedure</b>                             | IS: 3025(Part I): 1987 RA 2003; APHA 23 <sup>rd</sup> Ed. 2017, 1060-B, 1-40;                                                             |                                       |                                                                      |                                    |
| <b>Date of Start of Analysis</b>                      | 25.11.2020                                                                                                                                | <b>Date of Completion of Analysis</b> | 03.12.2020                                                           |                                    |

| Sr. No.                                                                   | Parameter                                                | Unit | Result | Method Reference                                            |
|---------------------------------------------------------------------------|----------------------------------------------------------|------|--------|-------------------------------------------------------------|
| <b>Discipline: Chemical Testing; Product Group: Water (Surface Water)</b> |                                                          |      |        |                                                             |
| 1.                                                                        | Oil and Grease                                           | mg/L | N.D.   | IS 3025 (Part 39): 1991, Reaffirmed 2009, Amds.1            |
| 2.                                                                        | Cyanide (as CN)                                          | mg/L | N.D.   | APHA 23 <sup>rd</sup> Ed. 2017, 4500-CN, C & E, 4-44 & 4-46 |
| 3.                                                                        | Phenolic Compounds (as C <sub>6</sub> H <sub>5</sub> OH) | mg/L | N.D.   | APHA 23 <sup>rd</sup> Ed. 2017, 5530- B & C, 5-49, 5-50     |
| <b>Residues in water (Trace metal Element)</b>                            |                                                          |      |        |                                                             |
| 4.                                                                        | Selenium (as Se)                                         | mg/L | N.D.   | APHA 23 <sup>rd</sup> Ed. 2017, 3500-C, 3-95                |
| 5.                                                                        | Iron (as Fe)                                             | mg/L | 0.099  | IS 3025 (Part-2) 2004, RA 2014                              |
| 6.                                                                        | Manganese (as Mn)                                        | mg/L | <0.04  | IS 3025 (Part-2) 2004, RA 2014                              |
| 7.                                                                        | Cadmium (as Cd)                                          | mg/L | N.D.   | IS 3025 (Part-2) 2004, RA 2014                              |
| 8.                                                                        | Chromium Toal (as Cr)                                    | mg/L | N.D.   | IS 3025 (Part-2) 2004, RA 2014                              |
| 9.                                                                        | Copper (as Cu)                                           | mg/L | <0.04  | IS 3025 (Part-2) 2004, RA 2014                              |
| 10.                                                                       | Lead (as Pb)                                             | mg/L | N.D.   | IS 3025 (Part-2) 2004, RA 2014                              |
| 11.                                                                       | Zinc (as Zn)                                             | mg/L | 0.022  | IS 3025 (Part-2) 2004, RA 2014                              |
| 12.                                                                       | Arsenic (as As)                                          | mg/L | N.D.   | IS 3025 (Part 37): 1988, RA 2009                            |
| <b>Remarks:</b> N.D.: Not Detected;                                       |                                                          |      |        |                                                             |

-----END-----

FOR MAHABAL ENVIRO ENGINEERS PVT. LTD.

Kishor C. Yeole  
**BRANCH MANAGER**



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(600 m from Hotel Rukhmini Palace Turn Opp Toyota Show Room. Next to Ashida Electrical - near J B Sawant Bus Stop)  
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## Water Sample Analysis Report

|                                                       |                                                                                                                                           |                                       |                                                                      |
|-------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------|----------------------------------------------------------------------|
| <b>Report No.:</b> ME-NG15841-201203-SA-RIPL-AMRAVATI |                                                                                                                                           | <b>Date:</b> 03.12.2020               |                                                                      |
| <b>Name and Address of Customer</b>                   | <b>RATTANINDIA POWER LIMITED</b><br>Plot No.D-2 & D-2 (PART) at<br>Additional MIDC, Village-Nandgaonpeth,<br>Tal & Dist: Amravati 444 901 | <b>Order Reference:</b>               |                                                                      |
|                                                       |                                                                                                                                           | SO No. 3382017462<br>Dt.16.08.2019    |                                                                      |
| <b>Sample Description/Type</b>                        | Surface Water                                                                                                                             | <b>Sample Collected by</b>            | Laboratory                                                           |
| <b>Sampling Location</b>                              | Wagholi Pond                                                                                                                              | <b>Sample Quantity/Packing</b>        | 2 L X 1 No. PVC Can<br>500mL X 1No. PVC Can<br>1L X 1No.Glass Bottle |
| <b>Date of Sampling</b>                               | 23.11.2020                                                                                                                                | <b>Date of Receipt of Sample</b>      | 25.11.2020                                                           |
| <b>Sampling Procedure</b>                             | IS: 3025(Part I):1987 RA 2003; APHA 23 <sup>rd</sup> Ed. 2017, 1060-B, 1-40;                                                              |                                       |                                                                      |
| <b>Date of Start of Analysis</b>                      | 25.11.2020                                                                                                                                | <b>Date of Completion of Analysis</b> | 03.12.2020                                                           |

| Sr. No.                                                                   | Parameter                                | Unit  | Result    | Method Reference                                                |
|---------------------------------------------------------------------------|------------------------------------------|-------|-----------|-----------------------------------------------------------------|
| <b>Discipline: Chemical Testing; Product Group: Water (Surface Water)</b> |                                          |       |           |                                                                 |
| 1.                                                                        | Colour                                   | Hazen | <1        | APHA 23 <sup>rd</sup> Ed. 2017, 2120-B, 2-6                     |
| 2.                                                                        | Odour                                    | -     | Agreeable | IS 3025 (Part 05):1984, Reaffirmed 2006                         |
| 3.                                                                        | Taste                                    | -     | N.A.      | IS 3025 (Part 7 & 8):1984, Reaffirmed 2006                      |
| 4.                                                                        | Turbidity                                | NTU   | 0.5       | APHA 23 <sup>rd</sup> Ed. 2017, 2130-B, 2-13                    |
| 5.                                                                        | pH                                       | -     | 8.0       | APHA 23 <sup>rd</sup> Ed. 2017, 4500-H <sup>+</sup> -B, 4-95    |
| 6.                                                                        | Residual Free Chlorine                   | mg/L  | <0.05     | APHA 23 <sup>rd</sup> Ed. 2017, 4500-Cl G, 4-72                 |
| 7.                                                                        | Total Dissolved Solids                   | mg/L  | 375       | IS 3025 (Part 16):1984 Reaffirmed 2006, Ed.2.1(1999-12)         |
| 8.                                                                        | Total Suspended Solids                   | mg/L  | <5        | APHA 23 <sup>rd</sup> Ed. 2017, 2540-D, 2-69                    |
| 9.                                                                        | Alkalinity Total (as CaCO <sub>3</sub> ) | mg/L  | 118       | IS 3025 (Part 23):1986 Reaffirmed 2009 Amds 1                   |
| 10.                                                                       | Total Hardness (as CaCO <sub>3</sub> )   | mg/L  | 272       | APHA 23 <sup>rd</sup> Ed. 2017, 2340-C, 2-48                    |
| 11.                                                                       | Chloride (as Cl)                         | mg/L  | 36        | APHA 23 <sup>rd</sup> Ed. 2017, 4500-Cl-B, 4-75                 |
| 12.                                                                       | Sulphate (as SO <sub>4</sub> )           | mg/L  | 123       | APHA 23 <sup>rd</sup> Ed. 2017, 4500- SO <sub>4</sub> -E, 4-199 |
| 13.                                                                       | Nitrate (as NO <sub>3</sub> )            | mg/L  | N.D.      | APHA 23 <sup>rd</sup> Ed. 2017, 4500-NO <sub>3</sub> , E 4-131  |
| 14.                                                                       | Calcium (as Ca)                          | mg/L  | 55.3      | APHA 23 <sup>rd</sup> Ed. 2017, 3500-Ca-B, 3-69                 |
| 15.                                                                       | Magnesium (as Mg)                        | mg/L  | 32.6      | APHA 23 <sup>rd</sup> Ed. 2017, 3500-Mg- B, 3-86                |
| 16.                                                                       | Fluoride (as F)                          | mg/L  | 0.377     | APHA 23 <sup>rd</sup> Ed. 2017, 4500-F, D, 4-90                 |
| 17.                                                                       | Boron (as B)                             | mg/L  | <0.1      | APHA 23 <sup>rd</sup> Ed. 2017, 4500-B B, 4-27                  |



Report No.15841 Cont...

| Sr. No.                                                | Parameter         | Unit | Result | Method Reference                                            |
|--------------------------------------------------------|-------------------|------|--------|-------------------------------------------------------------|
| 18.                                                    | Dissolved Oxygen  | mg/L | 6.8    | APHA 23 <sup>rd</sup> Ed. 2017, 4500-O, B & C, 4-144, 4-146 |
| <b>Residues in water (Trace metal Element)</b>         |                   |      |        |                                                             |
| 19.                                                    | Aluminium (as Al) | mg/L | <0.025 | APHA 23 <sup>rd</sup> Ed. 2017, 3500-Al-B, 3-63             |
| 20.                                                    | Mercury (as Hg)   | mg/L | N.D.   | APHA 23 <sup>rd</sup> Ed. 2017, 3112-B, 3-25                |
| <b>Remarks:</b> N.D.: Not Detected; NA: Not Applicable |                   |      |        |                                                             |

-----END-----

FOR MAHABAL ENVIRO ENGINEERS PVT. LTD.

Kishor C.Yeole

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## Water Sample Analysis Report

|                                                |                                                                                                                                      |                                |                                                                      |  |
|------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------|--------------------------------|----------------------------------------------------------------------|--|
| Report No.: ME-NG15841-201030-SA-RIPL-AMRAVATI |                                                                                                                                      |                                | Date: 30.10.2020                                                     |  |
| Name and Address of Customer                   | RATTANI INDIA POWER LIMITED<br>Plot No.D-2 & D-2 (PART) at<br>Additional MIDC, Village-Nandgaonpeth,<br>Tal & Dist: Amravati 444 901 |                                | Order Reference:                                                     |  |
|                                                |                                                                                                                                      |                                | SO No. 3382017462<br>Dt.16.08.2019                                   |  |
| Sample Description/Type                        | Surface Water                                                                                                                        | Sample Collected by            | Laboratory                                                           |  |
| Sampling Location                              | Wagholi Pond                                                                                                                         | Sample Quantity/Packing        | 2 L X 1 No. PVC Can<br>500mL X 1No. PVC Can<br>1L X 1No.Glass Bottle |  |
| Date of Sampling                               | 23.11.2020                                                                                                                           | Date of Receipt of Sample      | 25.11.2020                                                           |  |
| Sampling Procedure                             | IS: 3025(Part I):1987 RA 2003; APHA 23 <sup>rd</sup> Ed. 2017, 1060-B, 1-40;                                                         |                                |                                                                      |  |
| Date of Start of Analysis                      | 25.11.2020                                                                                                                           | Date of Completion of Analysis | 03.12.2020                                                           |  |

| Sr. No.                                                            | Parameter                                                | Unit | Result | Method Reference                                            |
|--------------------------------------------------------------------|----------------------------------------------------------|------|--------|-------------------------------------------------------------|
| Discipline: Chemical Testing; Product Group: Water (Surface Water) |                                                          |      |        |                                                             |
| 1.                                                                 | Oil and Grease                                           | mg/L | N.D.   | IS 3025 (Part 39): 1991, Reaffirmed 2009, Amds.1            |
| 2.                                                                 | Cyanide (as CN)                                          | mg/L | N.D.   | APHA 23 <sup>rd</sup> Ed. 2017, 4500-CN, C & E, 4-44 & 4-46 |
| 3.                                                                 | Phenolic Compounds (as C <sub>6</sub> H <sub>5</sub> OH) | mg/L | N.D.   | APHA 23 <sup>rd</sup> Ed. 2017, 5530- B & C, 5-49, 5-50     |
| Residues in water (Trace metal Element)                            |                                                          |      |        |                                                             |
| 4.                                                                 | Selenium (as Se)                                         | mg/L | N.D.   | APHA 23 <sup>rd</sup> Ed. 2017, 3500-C, 3-95                |
| 5.                                                                 | Iron (as Fe)                                             | mg/L | <0.08  | IS 3025 (Part-2) 2004, RA 2014                              |
| 6.                                                                 | Manganese (as Mn)                                        | mg/L | <0.04  | IS 3025 (Part-2) 2004, RA 2014                              |
| 7.                                                                 | Cadmium (as Cd)                                          | mg/L | N.D.   | IS 3025 (Part-2) 2004, RA 2014                              |
| 8.                                                                 | Chromium Toal (as Cr)                                    | mg/L | N.D.   | IS 3025 (Part-2) 2004, RA 2014                              |
| 9.                                                                 | Copper (as Cu)                                           | mg/L | <0.04  | IS 3025 (Part-2) 2004, RA 2014                              |
| 10.                                                                | Lead (as Pb)                                             | mg/L | N.D.   | IS 3025 (Part-2) 2004, RA 2014                              |
| 11.                                                                | Zinc (as Zn)                                             | mg/L | <0.01  | IS 3025 (Part-2) 2004, RA 2014                              |
| 12.                                                                | Arsenic (as As)                                          | mg/L | N.D.   | IS 3025 (Part 37): 1988, RA 2009                            |

|                              |
|------------------------------|
| Remarks: N.D.: Not Detected; |
|------------------------------|

END

FOR MAHABAL ENVIRO ENGINEERS PVT. LTD.

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(600 m from Hotel Rukhmini Palace Turn Opp Toyota Show Room. Next to Ashida Electrical - near J B Sawant Bus Stop)  
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## Effluent Sample Analysis Report

|                                                       |                                                                                                                                           |                                       |                                              |
|-------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------|----------------------------------------------|
| <b>Report No.:</b> ME-NG15851-201203-SA-RIPL-AMRAVATI |                                                                                                                                           | <b>Date:</b> 03.12.2020               |                                              |
| <b>Name and Address of Customer</b>                   | <b>RATTANINDIA POWER LIMITED</b><br>Plot No.D-2 & D-2 (PART) at<br>Additional MIDC, Village-Nandgaonpeth,<br>Tal & Dist: Amravati 444 901 |                                       | <b>Order Reference:</b>                      |
|                                                       |                                                                                                                                           |                                       | SO No. 3382017462<br>Dt.16.08.2019           |
| <b>Sample Description/Type</b>                        | Domestic Effluent                                                                                                                         | <b>Sample Collected by</b>            | Laboratory                                   |
| <b>Sampling Location</b>                              | 1.STP Plant Outlet<br>2.STP Colony Outlet                                                                                                 | <b>Sample Quantity/Packing</b>        | 2 L X 2 No. PVC Can<br>100mL X 2 No. PVC Can |
| <b>Date of Sampling</b>                               | 23.11.2020                                                                                                                                | <b>Date of Receipt of Sample</b>      | 25.11.2020                                   |
| <b>Sampling Procedure</b>                             | IS:3025(Part I):1987 RA 2003; APHA 23 <sup>rd</sup> Ed. 2017, 1060-B, 1-40;                                                               |                                       |                                              |
| <b>Date of Start of Analysis</b>                      | 25.11.2020                                                                                                                                | <b>Date of Completion of Analysis</b> | 03.12.2020                                   |

| Sr. No.                                                                            | Parameter                               | Unit | Result |     | Limit as per MPCB Consent | Method Reference                                             |
|------------------------------------------------------------------------------------|-----------------------------------------|------|--------|-----|---------------------------|--------------------------------------------------------------|
|                                                                                    |                                         |      | 1      | 2   |                           |                                                              |
| Discipline: Chemical Testing; Product Group: Pollution & Environment (Waste Water) |                                         |      |        |     |                           |                                                              |
| 1                                                                                  | pH                                      | -    | 7.8    | 7.1 | 5.5 to 9.0                | APHA 23 <sup>rd</sup> Ed. 2017, 4500-H <sup>+</sup> -B, 4-95 |
| 2                                                                                  | Biochemical Oxygen Demand (3 days 27°C) | mg/L | 7.3    | 8.7 | 30 Max.                   | IS 3025 (Part 44): 1993, Reaffirmed 2009                     |
| 3                                                                                  | Chemical Oxygen Demand                  | mg/L | 24     | 28  | 100 Max.                  | APHA 23 <sup>rd</sup> Ed. 2017, 5220-B, 5-18                 |
| Remarks:                                                                           |                                         |      |        |     |                           |                                                              |

END

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ULR- TC748720000015230F





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## Noise Level Monitoring Report

|                                                       |                                                                                                                                            |                                    |
|-------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------|
| <b>Report No.:</b> ME-NG15853-201203-SA-RIPL-AMRAVATI |                                                                                                                                            | <b>Date:</b> 03.12.2020            |
| <b>Name and Address of Customer</b>                   | <b>RATTANINDIA POWER LIMITED</b><br>Plot No.D-2 & D-2 (PART) at<br>Additional MIDC, Village-Nandgaonpeth,<br>Tal & Dist: Amravati 444 901. | <b>Order Reference:</b>            |
|                                                       |                                                                                                                                            | SO No. 3382017462<br>Dt.16.08.2019 |
| <b>Sample Description/Type</b>                        | Noise Level Monitoring                                                                                                                     | <b>Sample Collected by</b>         |
|                                                       |                                                                                                                                            | NA                                 |
| <b>Date of Sampling</b>                               | 23.11.2020 to 24.11.2020                                                                                                                   |                                    |
| <b>Sampling Procedure</b>                             | IS 9876:1981 & manufacturer Manual                                                                                                         |                                    |

| Discipline: Chemical Testing; Product Group: Atmospheric Pollution Source Noise (Excluding Vibrations) |       |                                     |      |
|--------------------------------------------------------------------------------------------------------|-------|-------------------------------------|------|
| Location                                                                                               | Unit  | Result                              |      |
|                                                                                                        |       | Max.                                | Min. |
| Near Main Gate                                                                                         | dB(A) | 64.2                                | 57.2 |
| Near Compressor Room                                                                                   | dB(A) | 65.2                                | 62.1 |
| Near CHP Crusher House                                                                                 | dB(A) | 63.2                                | 60.8 |
| Near Colony                                                                                            | dB(A) | 61.4                                | 58.8 |
| Turbine area No. 3 & 4                                                                                 | dB(A) | 68.4                                | 64.1 |
| Limit as per The Factories Act, 1948, The Maharashtra Factory Rules, 1963, Schedule XXIV               |       |                                     |      |
| Total time of exposure per day, in hours.                                                              |       | Max. Sound pressure level in dB (A) |      |
| 8                                                                                                      |       | 90                                  |      |
| 6                                                                                                      |       | 92                                  |      |
| 4                                                                                                      |       | 95                                  |      |
| 3                                                                                                      |       | 97                                  |      |
| 2                                                                                                      |       | 100                                 |      |
| 1 ½                                                                                                    |       | 102                                 |      |
| 1                                                                                                      |       | 105                                 |      |
| 3/4                                                                                                    |       | 107                                 |      |
| 1/2                                                                                                    |       | 110                                 |      |
| 1/4                                                                                                    |       | 115                                 |      |
| Remark :                                                                                               |       |                                     |      |

-----END-----  
FOR MAHABAL ENVIRO ENGINEERS PVT. LTD.

  
Kishor Yeole

**BRANCH MANAGER**



Note:

1. The result listed refers only to the tested sample(s) and applicable parameter(s).
2. This report is not to be reproduced except in full, without written approval of the laboratory.