

Ref: MSTL/EMD/Solar/EC/MoEFCC/302/24  
Date: 25.05.2024

**To,**  
**Additional Principal Chief Conservator of Forest**  
**Ministry of Environment, Forest and Climate Change**  
Integrated Regional Office, Gandhinagar  
Aranya Bhavan, Fourth Floor, Room No 407  
Sector 10A, Gandhinagar, 382010, Gujarat

**Sub: Six Monthly Compliance Status of Environment Clearance for 31,000 MTPA Polysilicon Manufacturing plant within Notified APSEZ, Mundra, Kutch, Gujarat.**

**Ref:** EC Letter No. **SEIAA/GUJ/EC/3(a)/1277/2019** Dated: 07.09.2019, Transferred EC vide no. SEIAA/GUJ/EC/3(a)/2721/2022 dated 15.11.2022 & Corrigendum in EC vide no. SEIAA/GUJ/EC/3(a)/522/2023 dated: 06.05.2023.

Dear Sir,

With reference to above subject, please find enclosed herewith Six-Monthly Environment Clearances (EC) compliance status report along with monitoring report etc. for the period of **October'2023 to March'2024** in soft (e-mail).

**Poly-silicon manufacturing plant construction work yet to start.**

This is for your kind information & record please.

Thanking You.

Yours faithfully,

for **Mundra Solar Technology Limited**

**(R N Shukla)**

Head – Env. & Forest

Encl: as above

**The Member Secretary**  
**Central Pollution Control Board**  
Parivesh Bhavan, East Arjun Nagar  
Kendriya Paryavaran Bhawan  
New Delhi- 110032

**The Member Secretary**  
**State Level Environment Impact Assessment (SEIAA)**  
Gandhinagar, Gujarat

**The Member Secretary**  
**Gujarat Pollution Control Board**  
Prayavaran Bhawan, Sector- 10 A  
Gandhinagar- 382010

**The Regional Officer**  
**Gujarat Pollution Control Board**  
Gandhidham, Kutch, Gujarat

**Mundra Solar Technology Limited**  
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# **SIX MONTHLY COMPLIANCE REPORT OF ENVIRONMENT CLEARANCE (EC)**

**for**

**31,000 MTPA  
Poly-Silicon Manufacturing Plant**

**At**

**Within Notified APSEZ, MUNDRA TALUKA  
KUTCHH DISTRICT GUJARAT**

***Submitted to:***

**Integrated Regional Office, Gandhinagar  
Ministry of Environment & Forest & Climate Change  
State Level Environment Impact Assessment Authority  
Central Pollution Control Board, New Delhi &  
Gujarat State Pollution Control Board, Gandhinagar**



***Submitted By:***

**Environment Management Department  
Mundra Solar Technology Limited  
Adani Corporate House  
Shantigram, S G Highway  
Ahmedabad, Gujarat**

**Period: October'2023 to March'2024**

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| Sl. No. | Title  | Annexure |
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| 1.      | <b>Compliance Status report on Environment Clearance (EC)</b>  |          |
| 2.      | Environmental Monitoring Reports:<br><b>(October'2023 to March'2024)</b><br>➤ Ambient Air Quality Monitoring | I        |

**Mundra Solar Technology Limited**

**Compliance status on Environmental Clearance**

**("Poly Silicon" manufacturing plant within Notified APSEZ, Mundra, Kutch)**

EC Letter No. SEIAA/GUJ/EC/3(a)/1277/2019 Dated- 07.09.2019 and EC  
Transferred from Mundra Solar Ltd. to Mundra Solar Technology Ltd. on dated 10.11.2022  
& Corrigendum in EC dated 06.05.2023

| SI. NO.     | CONDITIONS   | COMPLIANCE STATUS  |
|-------------|--|--|
| <b>A.</b>   | <b>CONDITIONS:</b>   |  |
| <b>A 1.</b> | <b>SPECIFIC CONDITIONS</b>   |  |
| 1.          | All efforts shall be made to optimize water consumption by exploring Best Available Technology (BAT). The unit shall continuously, strive to reduce, recycle and reuse the treated effluent.                   | Noted & Compliance assured<br>MSTL will make necessary efforts to optimize water consumption.  |
| 2.          | Unit shall have to adhere to the prevailing area specific policies of GPCB with respect to the discharge of pollutants, and shall carry out the project development in accordance & consistence with the same, | Compliance assured once project takes off.   |
| 3.          | Unit shall explore the possibilities for environment friendly methods for disposal of incinerable & land fillable wastes before sending to CHWIF/TSDf sites.   | Compliance assured<br>MSTL will make efforts to explore the possibilities for environment friendly methods for disposal of waste.  |
| 4.          | Flame proof electric fitting shall be provided within premises.  | Agreed.<br>Flame proof electric fitting will be considered during design stage.  |
| 5.          | Safety measures for Hazardous chemical handling as per PESO standards shall be provided.   | Compliance assured<br>Safety measures for Hazardous chemical handling as per PESO standards once project takes off.  |
| 6.          | All measures shall be taken to prevent soil and ground water contamination.  | Compliance assured once project takes off.   |
| 7.          | The project proponent must strictly adhere to the stipulations made by the Gujarat Pollution Control Board, State Government and/or any other statutory authority  | Noted & Agreed<br>MSTL will adhere to the stipulations made by the Gujarat Pollution Control Board, State Government and/or any other statutory authority once project takes off.                              |
| 8.          | The National Ambient Air Quality Emission Standards issued by the Ministry vide G. S. R. No. 826 (E) dated 16 <sup>th</sup> November, 2009 shall be complied with.   | Compliance assured.<br>MSTL has been proposed to be established within the EMC. Environmental monitoring is being carried out by third party (Consultant). Monitoring report is enclosed As <b>Annexure- I</b> |
| 9.          | National Emission Standards for Organic Chemicals Manufacturing Industry issued by the Ministry vide G. S. R. 608 (E) dated 21.07.2010 and amended from time to time shall be followed,                        | Noted.<br>Compliance assured   |
| <b>A 2.</b> | <b>WATER:</b>  |  |

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| 10. | Total Water requirement for the project shall not exceed 20,048 KLD, Unit shall reuse 48 KLD hence freshwater requirement 20,000 KLD and it shall be met through APSEZ water supply only. Prior permission from the concerned authority shall be obtained for withdrawal of water.  | Will be complied once project takes off. Permission for freshwater requirement has already been taken from APSEZ & submitted with compliance report for period Oct'20 to Mar'21 vide letter no MSL/EMD/EC/MoEF/871/21 on dated 19/05/2021. |
| 11. | The industrial effluent generation from the project shall not exceed 13,000 KLD.  | Will be complied once project takes off.   |
| 12. | No ground water shall be tapped for the project requirements.   | Agreed.<br>Ground water will not be extracted.   |
| 13. | Entire effluent generated 12,300 KLD {2,400 KLD from Cooling water blow down (considering 100 KLD as evaporation loss); 5,600 KLD of treated effluent from ETP (considering 500 KLD as evaporation loss) & 4,300 from filtration (considering 200 KLD evaporation loss)} shall be disposed in guard basin of MSTPL and shall be finally discharged into Sea through outfall channel of APSEZ only after conforming discharge norms prescribed by GPCB/ CPCB/ MoEF & CC norms. | Agreed.<br>Compliance assured, during the plant operation.   |
| 14. | Primary Effluent Treatment Plant (ETP) of capacity 7,000 KLD shall be proposed for treating 6,100 KLD wastewater generated from Etching and for Scrubbing.  | Agreed.<br>Compliance assured once project takes off. ETP of capacity 7000 KLD is proposed to treat the generated wastewater.  |
| 15. | 4,500 KLD effluent generated from Cleaning & Slim Rod Cutting shall be Filtered and disposed into Guard Basin of MSTPL and finally discharged into Sea through outfall channel of APSEZ.  | Agreed.<br>Will be complied once project takes off.  |
| 16. | 2,400 KLD effluent generated from cooling tower blow down shall be treated, (Neutralized in Neutralization Pit) and disposed into Guard Basin of MSTPL and finally discharged into Sea through outfall channel of APSEZ.  | Agreed.<br>Will be complied once project takes off.  |
| 17. | Overall water loses in the Poly-silicon Manufacturing Plant shall be 1,200 KLD i.e. (500 KLD evaporation loss in ETP, 150 KLD from etching and scrubbing, 250 loss from cleaning and cutting, 200 KLD. loss from Filtration, 100 KLD loss from Neutralization Pit)  | Noted  |
| 18. | Domestic wastewater generation shall not exceed 48 KL/Day and it shall be treated in proposed STP (Primary, Secondary & Tertiary) and treated sewage shall be reused for Greenbelt development; gardening & Plantation within premises.   | Noted & Agreed.<br>STP will be installed and to treat domestic wastewater and treated domestic water will be reused in gardening and plantation.   |

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| 19.     | Unit shall provideadequate effluent treatment plant (ETP) sewage treatment plant (STP), Neutralization Pit & Filtration System for treatment of industrial effluent and it shall be operated regularly and efficiently so as to achieve the GPCB/ CPCB/ MoEF & CC norms.   | Compliance assured<br>MSTL has proposed establish adequate capacity of ETP & STP for treating effluent and domestic Wastewater respectively.                 |                                  |                             |  |  |                  |                                   |      |                     |                             |     |                  |  |  |                             |      |    |                              |      |  |
|---------|--|--|----------------------------------|-----------------------------|--|--|------------------|-----------------------------------|------|---------------------|-----------------------------|-----|------------------|--|--|-----------------------------|------|----|------------------------------|------|--|
| 20.     | Unit shall provide Continuous Online monitoring System for wastewater discharge and an arrangement shall also be done for reflecting the online monitoring results on the company's server, which can be assessable by the GPCB on real time basis.  | Compliance assured, during the plant operation.<br>Continuous Online monitoring System for wastewater discharge will be establish for real time monitoring.  |                                  |                             |  |  |                  |                                   |      |                     |                             |     |                  |  |  |                             |      |    |                              |      |  |
| 21.     | The unit shall provide metering facility at the inlet and outlet of the ETP, STP, Neutralization Pit & Filtration System and maintain records for the same   | Compliance assured, during the plant operation.<br>Metering facility will be provided at the inlet and outlet of water system and record will be maintained. |                                  |                             |  |  |                  |                                   |      |                     |                             |     |                  |  |  |                             |      |    |                              |      |  |
| 22.     | Proper logbooks of ETP Operation, STP operation, Neutralization pit & Filtration System operations, chemical consumption in treatment facilities, quantities and qualities of effluent discharge to APSEZ outfall channel, reuse for Greenbelt development, gardening & Plantation, power consumption etc. shall be maintained and shall be furnished to the GPCB from time to time.   | Agreed Compliance assured, during the plant operation.<br>Logbooks will be maintained, and reports will be submitted to the GPCB.                            |                                  |                             |  |  |                  |                                   |      |                     |                             |     |                  |  |  |                             |      |    |                              |      |  |
| A. 3.   | AIR:   |  |                                  |                             |  |  |                  |                                   |      |                     |                             |     |                  |  |  |                             |      |    |                              |      |  |
| 23.     | Unit shall not exceed fuel consumption for stand-by DG set as mentioned below:   |  |                                  |                             |  |  |                  |                                   |      |                     |                             |     |                  |  |  |                             |      |    |                              |      |  |
|         | <table><tr><th>Sr. No.</th><th>Source of emission with capacity</th><th>Stack Height in meter</th><th>Type of fuel</th><th>Quantity of Fuel MT/Day</th><th>Type of Emission</th><th>APCM</th></tr><tr><td>1.</td><td>D. G. Set (125 KVA)</td><td>30.00</td><td>HSD</td><td>25 L/hr.</td><td>PM<sub>2.5</sub>, PM<sub>10</sub>, SO<sub>2</sub>, NOx</td><td>Adequate Stack Height, Insulation, Filter and Acoustic Enclosure is proposed</td></tr></table>  | Sr. No.  | Source of emission with capacity | Stack Height in meter       | Type of fuel   | Quantity of Fuel MT/Day  | Type of Emission | APCM                              | 1.   | D. G. Set (125 KVA) | 30.00                       | HSD | 25 L/hr.         | PM <sub>2.5</sub> , PM <sub>10</sub> , SO <sub>2</sub> , NOx | Adequate Stack Height, Insulation, Filter and Acoustic Enclosure is proposed |                             |      |    |                              |      |  |
| Sr. No. | Source of emission with capacity   | Stack Height in meter  | Type of fuel                     | Quantity of Fuel MT/Day     | Type of Emission   | APCM   |                  |                                   |      |                     |                             |     |                  |  |  |                             |      |    |                              |      |  |
| 1.      | D. G. Set (125 KVA)  | 30.00  | HSD                              | 25 L/hr.                    | PM <sub>2.5</sub> , PM <sub>10</sub> , SO <sub>2</sub> , NOx | Adequate Stack Height, Insulation, Filter and Acoustic Enclosure is proposed |                  |                                   |      |                     |                             |     |                  |  |  |                             |      |    |                              |      |  |
| 24.     | Unit shall provide adequate APCM with flue gas generation sources as mentioned above:  | MSTL has considered the proposed APCM and will be implemented once project takes off.  |                                  |                             |  |  |                  |                                   |      |                     |                             |     |                  |  |  |                             |      |    |                              |      |  |
| 25.     | Unit shall provide adequate APCM with process gas generation sources as mentioned below:   | MSTL has considered the proposed APCM and will be implemented once project takes off.  |                                  |                             |  |  |                  |                                   |      |                     |                             |     |                  |  |  |                             |      |    |                              |      |  |
|         | <table><tr><th>Sr. No.</th><th>Specific Source of Emission</th><th>Stack height in meter</th><th>Type of emission</th><th>APCM</th></tr><tr><td>1.</td><td>Hydro-chlorination TCS Production</td><td>30.0</td><td rowspan="4">H2, HCL, CL2, NOx</td><td rowspan="4">Venturi Wet-Scrubber System</td></tr><tr><td>2.</td><td>TCS Purification</td><td>30.0</td></tr><tr><td>3.</td><td>Chlorosilane Waste Recovery</td><td>30.0</td></tr><tr><td>4.</td><td>CVD Reactor Off-Gas recovery</td><td>30.0</td></tr></table> | Sr. No.  | Specific Source of Emission      | Stack height in meter       | Type of emission   | APCM   | 1.               | Hydro-chlorination TCS Production | 30.0 | H2, HCL, CL2, NOx   | Venturi Wet-Scrubber System | 2.  | TCS Purification | 30.0   | 3.   | Chlorosilane Waste Recovery | 30.0 | 4. | CVD Reactor Off-Gas recovery | 30.0 |  |
| Sr. No. | Specific Source of Emission  | Stack height in meter  | Type of emission                 | APCM                        |  |  |                  |                                   |      |                     |                             |     |                  |  |  |                             |      |    |                              |      |  |
| 1.      | Hydro-chlorination TCS Production  | 30.0   | H2, HCL, CL2, NOx                | Venturi Wet-Scrubber System |  |  |                  |                                   |      |                     |                             |     |                  |  |  |                             |      |    |                              |      |  |
| 2.      | TCS Purification   | 30.0   |                                  |                             |  |  |                  |                                   |      |                     |                             |     |                  |  |  |                             |      |    |                              |      |  |
| 3.      | Chlorosilane Waste Recovery  | 30.0   |                                  |                             |  |  |                  |                                   |      |                     |                             |     |                  |  |  |                             |      |    |                              |      |  |
| 4.      | CVD Reactor Off-Gas recovery   | 30.0   |                                  |                             |  |  |                  |                                   |      |                     |                             |     |                  |  |  |                             |      |    |                              |      |  |
| 26.     | Unit shall provide Continuous Emission Monitoring System [CEMS] as per the CPCB guidelines.  | Will be complied once project takes off.<br>MSTL has proposed to install Continuous Emission Monitoring System [CEMS] as per the CPCB guidelines.            |                                  |                             |  |  |                  |                                   |      |                     |                             |     |                  |  |  |                             |      |    |                              |      |  |

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| 27. | Unit shall provide adequate flaring system, If required   | Noted.   |
| 28. | <p>The fugitive emission in the work zone environment shall be monitored. The emission shall conform to the standards prescribed by the concerned authorities from time to time (e.g. Directors of Industrial Safety &amp; Health). Following indicative guidelines shall also be followed to reduce the fugitive emission.</p> <ul style="list-style-type: none"> <li>➤ Internal roads shall be either concreted or asphalted or paved properly to reduce the fugitive emission during vehicular movement.</li> <li>➤ Air borne dust shall be controlled with water sprinklers at suitable locations in the plant.</li> <li>➤ A green belt shall be developed all around the plant boundary and also along the roads to mitigate fugitive &amp; transport dust emission</li> </ul> | <p>Agreed &amp; Compliance assured.</p> <p>MSTL will take appropriate measure to control fugitive emissions.</p> <p>Internal pucca Roads is already constructed to reduce the fugitive emission during vehicular movement.</p> <p>Air borne dust will be controlled with water sprinklers at suitable locations in the plant.</p> <p>A green belt will be developed all around the plant boundary and also along the roads to mitigate fugitive &amp; transport dust emission.</p> |
| 29. | Regular monitoring of Volatile Organic Compounds (VOCs) shall be carried out in the work zone area and ambient air.   | Compliance assured once project takes off.   |
| 30. | <p>For control of fugitive emission, VOCs, following steps shall be followed:</p> <ol style="list-style-type: none"> <li>a. Closed handling and charging system shall be provided for chemicals</li> <li>b. Reflux condenser shall be provided over Reactors / Vessels.</li> <li>c. Pumps shall be provided with mechanical seals to prevent leakages.</li> </ol>   | <p>Noted.</p> <p>MSTL has proposed closed handling and charging system for chemicals &amp; reactors.</p>   |
| 31. | Air borne dust at all transfers operations/ points shall be controlled either by spraying water or providing enclosures.  | <p>Noted.</p> <p>MSTL will make efforts to control air borne dust by taking appropriate measures during operation phase.</p>   |
| 32. | Regular monitoring of ground level concentration of PM2.5, PM10, SO2, NOX, HCl, Cl2, H2 & VOC shall be carried out in the impact zone and its records shall be maintained. Ambient air quality levels shall not exceed the standards stipulated by the GPCB. If at any stage these levels are found to exceed the prescribed limits, necessary additional control measures shall be taken immediately. The location of the stations and frequency of monitoring shall be decided in consultation with the GPCB  | <p>The proposed project is under the Electronic Manufacturing Cluster (EMC) premises within APSEZ a Mundra, Kutch.</p> <p>Regular monitoring of ground level concentration of PM10, PM2.5, SO2, NOX, is being carried out by the consultant and report is enclosed as <b>Annexure- I</b>.</p>  |



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|              |   |                                   |                                      |                 |                            |  |
|--------------|---|-----------------------------------|--------------------------------------|-----------------|----------------------------|--|
| <b>A. 4.</b> | <b>SOLID / HAZARDOUS WASTE</b>  |                                   |                                      |                 |                            |  |
| 33.          | All the hazardous waste management shall be taken care as mentioned below   |                                   |                                      |                 |                            | Agreed.<br>Compliance assured once project takes off.  |
|              | <b>Sr. No</b>   | <b>Types of Hazardous Waste</b>   | <b>Specific Source of generation</b> | <b>Category</b> | <b>Quantity (MT/Annum)</b> | <b>Management of Disposal</b>  |
|              | 1   | Chemical Sludge                   | From process, ETP, Scrubber          | 35.3            | 13870 Ton/Year             | Disposal at the approved Common TSDF site (will explore feasibility to use as Raw material & re-process)   |
|              | 2   | Discarded Containers              | Material Storage and Handling        | 33.1            | 1200 No./Year              | Will be sell to registered recycler for recycling  |
|              | 3   | Used oil                          | Machinery & D.G. Set                 | 5.1             | 20 KL/Year                 | Will be sell to registered recycler for recycling  |
|              | 4   | Oil Soaked Cotton waste & residue | Washing Floor, Machinery maintenance | 33.2            | 1500 kg/Year               | Co-incineration & reuse  |
|              | 5   | Graphite Parts                    | CVD Reactors                         | B2010           | 3.0 MT/Year                | To recycler/re-user as raw material  |
|              | 6   | Waste Silicon                     | Process reactors                     | B1010           | 15 MT/Year                 | TSDF & will explore feasibility to use as Raw material & re-process  |
|              | 7   | Spent Activated Carbon            | H <sub>2</sub> Plant                 | A4160           | 0.25 MT/Year               | TSDF & re-process  |
|              | 8   | Filters                           | Purification Process                 | 36.2            | 0.25 MT/Year               | TSDF & re-user   |
| 34.          | Authorized end-users shall have permissions from the concerned authorities under the Rule 9 of the Hazardous and Other Wastes (Management and Transboundary Movement) Rules 2016.   |                                   |                                      |                 |                            | Agreed<br>MSTL will take due care that Authorized end-users shall have permissions from the concerned authorities.   |
| <b>A. 5.</b> | <b>OTHER:</b>   |                                   |                                      |                 |                            |  |
| 35.          | The project proponent shall allocate the separate fund of Rs. 36.905 Cr i.e. 0.5 % of the capital investment (whichever is applicable) for activities like Educational activities, Public Health and family welfare and Preservation of Environment, rain water harvesting under Corporate Environment Responsibility (CER) in accordance to the MoEF&CC's Office Memorandum No. F.No.22-65/2017-IA.11I dated 01/05/2018. The entire activities proposed under CER shall be monitored and the monitoring report shall be submitted to the regional office of MoEF&CC as a part of half-yearly compliance report and to district collector. The monitoring report shall be posted on the website of the project proponent. |                                   |                                      |                 |                            | MSTL has proposed separate fund of Rs. 36.905 Cr i.e. 0.5 % of the capital investment (whichever is applicable) for activities like educational activities, Public Health and family welfare and Preservation of Environment, rain water harvesting under Corporate Environment Responsibility (CER) in accordance to the MoEF&CC's Office Memorandum No. F.No.22-65/2017-IA.11I dated 01/05/2018. |
| 36.          | All the recommendations, mitigation measures, environmental protection measures and safeguards proposed in the EIA report of the project prepared by Wolchem India Limited and submitted by project proponent and commitments made during presentation before SEAC and proposed in the EIA report shall be strictly adhered to in letter and spirit.  |                                   |                                      |                 |                            | Agreed & Compliance assured  |



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| <b>B.</b>   | <b>GENERAL CONDITIONS</b>   |  |
| <b>B. 1</b> | <b>CONSTRUCTION PHASE</b>   |  |
| 37.         | Water demand during construction shall be reduced by use of curing agents, super plasticizers and other best construction practices.  | Noted.<br>Compliance assured once project takes off.   |
| 38.         | Project proponent shall ensure that surrounding environment shall not be affected due to construction activity. Construction materials shall be covered during transportation and regular water sprinkling shall be done in vulnerable areas for controlling fugitive emission.   | Noted.<br>Will be complied once project takes off.<br>MSTL will take appropriate measure to control fugitive emissions.                                    |
| 39.         | All required sanitary and hygienic measures shall be provided before starting the construction activities and to be maintained throughout the construction phase.   | Noted.<br>Will be complied once project takes off.   |
| 40.         | First Aid Box shall be made readily available in adequate quantity at all the times.  | EMC premises already has well-established First Aid center.  |
| 41.         | The project proponent shall strictly comply with the Building and other Construction Workers' (Regulation of Employment & Conditions of Service) Act 1996 and Gujarat rules made there under and their subsequent amendments. Local byelaws of concern authority shall be complied in letter and spirit.  | Noted<br>Will be complied once project takes off   |
| 42.         | Ambient noise levels shall conform to residential standards both during day and night. Incremental pollution load on the ambient air and noise quality shall be closely monitored during construction phase.  | Noted & will be complied during construction phase.  |
| 43.         | Use of Diesel Generator (DG) sets during construction phase shall be strictly equipped with acoustic enclosure and shall conform to the EPA Rules for air and noise emission standards.   | Will be complied once project takes off  |
| 44.         | Safe disposal of wastewater and municipal solid wastes generated during the construction phase shall be ensured.  | Noted.<br>MSTL will ensure safe disposal of wastewater and municipal solid wastes.   |
| 45.         | All topsoil excavated during construction activity shall be used in horticultural/landscape development within the project site.  | Noted & Compliance assured   |
| 46.         | Excavated earth to be generated during the construction phase shall be utilized within the premises to the maximum extent possible and balance quantity of excavated earth shall be disposed off with the approval of the competent authority after taking the necessary precautions for general safety and health aspects. Disposal of the excavated earth during construction phase shall not create adverse effect neighboring communities | Noted<br>The proposed project area is almost flat. However, MSTL has ensured to utilize excavated earth in filling & surface leveling as well landscaping. |

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| 47.            | Project proponent shall ensure use of eco-friendly building material including fly ash bricks, fly ash paver blocks, Ready Mix Concrete [RMC] and lead free paints in the project.   | Noted.<br>Compliance assured once project takes off.<br>MSTL has considered use of Fly Ash based bricks for its construction purpose.             |
| 48.            | Fly ash shall be used in construction wherever applicable as per provisions of Fly Ash Notification under the E.P. Act, 1986 and its subsequent amendments from time to time.  | Noted and will be followed.   |
| <b>B. 2</b>    | <b>OPERATION PHASE</b>   |   |
| <b>B. 2.1</b>  | <b>WATER</b>   |   |
| 49.            | The water meter shall be installed and records of daily and monthly water consumption shall be maintained.   | Noted.<br>Compliance assured once project takes off   |
| 50.            | All efforts shall be made to optimize water consumption by exploring Best Available Technology (BAT). The unit shall continuously strive to reduce, recycle and reuse the treated effluent.  | Noted.<br>MSTL will make necessary efforts to optimize water consumption.   |
| <b>B. 2.2:</b> | <b>AIR</b>   |   |
| 51.            | In case of use of spray dryer, the unit shall provide the adequate & efficient APCMs with the spray dryer so that there should not be any adverse impact on human health & environment. Unit shall carry out third party monitoring of the proposed Spray dryer & it's APCM through the credible institutes and study report for impacts on Environment and Human Health shall be submitted to GPCB every year along with half yearly compliance report. | MSTL has proposed to install adequate APCM system and will carry out third party monitoring of APCM and report will be sent to GPCB periodically. |
| 52.            | Acoustic Enclosures should be provided DG sets (If applicable) to mitigate the noise pollution and shall conform to the EPA Rules for air emission standards.  | MSTL has proposed to provide Acoustic Enclosures on DG set to mitigate the noise pollution.   |
| 53.            | Stack/Vents (Whichever is applicable) of adequate height shall be provided as per the prevailing norms for flue gas emission/Process gas emission.   | Compliance assured.<br>MSTL has considered adequate height of vents for process emissions.  |
| 54.            | Flue gas emission & process gas emission (If any) shall conform to the standards prescribed by the GPCB/CPCB/MoEF&CC. At no time, emission level should go beyond the stipulated standards.  | Noted and will be complied after proposed project gets operational.   |
| 55.            | All the reactors / vessels used in the manufacturing process shall be closed to reduce the fugitive emission.  | Noted & Agreed,   |
| <b>B. 2.3</b>  | <b>HAZARDOUS / SOLID WASTE</b>   |   |
| 56.            | The company shall strictly comply with the rules and regulations with regards to handling and disposal of Hazardous waste in accordance with the Hazardous and Other Wastes (Management and Transboundary  | Agreed and will be complied once project takes off.   |

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|----------------------|---|---|
|                      | Movement) Rules 2016, as may be amended from time to time. Authorization of the GPCB shall be obtained for collection / treatment / storage / disposal of hazardous wastes.   | Authorization of the GPCB will be obtained for collection / treatment / storage / disposal of hazardous wastes. |
| 57.                  | Hazardous wastes shall be dried, packed and stored in separate designated hazardous waste storage facility with pucca bottom and leachate collection facility, before its disposal.   | Noted.<br>Hazardous Waste Storage Shed will be made to store waste in separate designated place.                |
| 58.                  | The unit shall obtain necessary permission from the nearby TSDF site and CHWIF. (Whichever is applicable)   | Agreed and will be complied once project takes off.,  |
| 59.                  | Trucks/Tankers used for transportation of hazardous waste shall be in accordance with the provisions under the Motor Vehicle Act, 1988, and rules made there under  | Compliance assured once project takes off.  |
| 60.                  | The design of the Trucks/tankers shall be such that there is no spillage during transportation  | Noted.  |
| 61.                  | All possible efforts shall be made for Co-Processing of the Hazardous waste prior to disposal into TSDF/CHWIF.  | MSTL will make efforts to reuse/reutilize Hazardous waste prior to disposal.                                    |
| 62.                  | Management of fly ash (If any) shall be as per the Fly ash Notification 2009 & its amendment time to time and it shall be ensured that there is 100% utilization of fly ash to be generated from the unit.  | Noted.  |
| <b>B. 2.4 SAFETY</b> |   |   |
| 63.                  | The occupier/manager shall strictly comply the provisions under the Factories Act 1948 and the Gujarat Factories Rules 1963.  | Noted & Agreed.   |
| 64.                  | The project authorities shall strictly comply with the provisions made in Manufacture. Storage and Import of Hazardous Chemicals Rules (MSIHC) 1989, as amended time to time and the Public Liability Insurance Act for handling of hazardous chemicals etc. Necessary approvals from the Chief Controller of Explosives and concerned Govt. Authorities shall be obtained before commissioning of the project. Requisite On-site and Off-site Disaster Management Plans have to be prepared and implemented. | Compliance assured once project takes off.  |
| 65.                  | Main entry and exit shall be separate and clearly marked in the facility  | Noted.  |
| 66.                  | Sufficient peripheral open passage shall be kept in the margin area for free movement office tender/emergency vehicle around the premises   | Noted & Agreed  |
| 67.                  | Storage of flammable chemicals shall be sufficiently away from the production area.   | Noted and Agreed.<br>Will be complied once project takes off.   |
| 68.                  | Sufficient number of fire extinguishers shall be provided near the plant and storage area   | Noted and Agreed.<br>Will be complied once project takes off.   |
| 69.                  | All necessary precautionary measures shall be taken to avoid any kind of accident storage and handling of toxic / hazardous chemicals   | Noted and Agreed.   |

### Mundra Solar Technology Limited

|     |  |  |
|-----|--|--|
| 70. | All the toxic/hazardous chemicals shall be stored in optimum quantity and all necessary permissions in this regard shall be obtained before commencing the expansion activities.   | Noted  |
| 71. | The project management shall ensure to comply with all the environment protection measures, risk mitigation measures and safeguards mentioned in the Risk Assessment report.   | Noted & agreed   |
| 72. | Only flame proof electrical fittings shall be provided in the plant premises   | Agreed<br>Flame proof electric fitting will be considered during designing stage.              |
| 73. | Storage of hazardous chemicals shall be minimized and it shall be in multiple small capacity tanks / containers instead of one single large capacity tank / containers.  | Noted and Agreed.  |
| 74. | All the storage tanks shall be fitted with appropriate controls to avoid any leakages. Bund/dyke walls shall be provided for storage tanks for Hazardous chemicals   | Noted & Agreed   |
| 75. | Handling and charging of the chemicals shall be done in closed manner by pumping or by vacuum transfer so that minimal human exposure occurs.  | Noted.<br>MSTL has proposed closed type handling and charging system for chemicals & reactors. |
| 76. | Tie up shall be done with nearby health care unit / doctor for seeking immediate medical attention in the case of emergency.   | Noted & Agreed   |
| 77. | Personal Protective Equipments (PPEs) shall be provided to workers and its usage shall be ensured and supervised.  | Noted & Agreed<br>Appropriative actions will be taken for safety of manpower.                  |
| 78. | First Aid Box and required antidotes for the chemicals used in the unit shall be made readily available in adequate quantity.  | Noted  |
| 79. | Training shall be imparted to all the workers on safety and health aspects of chemicals handling   | Agreed. Compliance assured once project takes off.   |
| 80. | Occupational health surveillance of the workers shall be done and its records shall be maintained. Pre-employment and periodical medical examination for all the workers shall be undertaken as per the Factories Act & Rules. | Noted and agreed.<br>Compliance assured once project takes off.                                |
| 81. | Transportation of hazardous chemicals shall be done as per the provisions of the Motor Vehicle Act & Rules.  | Agreed.  |
| 82. | The company shall implement all preventive and mitigation measures suggested in the Risk Assessment Report.  | Agreed<br>MSTL will implement preventive and mitigation measures as mentioned in Risk Plan.    |
| 83. | Necessary permissions from various statutory authorities like PESO, Factory Inspectorate and others shall be obtained prior to commissioning of the project.   | Compliance assured.  |

**Mundra Solar Technology Limited**

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| <b>B. 2.5</b> | <b>NOISE:</b>   |  |
| 84.           | The overall noise level in and around the plant area shall be kept well within the standards by providing noise control measures including Engineering controls like acoustic insulation hoods, silencers, enclosures, etc. on all sources of noise generation. The ambient noise level shall confirm to the standards prescribed under The Environment (Protection) Act, 1986 & Rules.   | Noted and compliance assured.<br>Adequate noise control measures like acoustic insulation hoods, silencers, enclosures, etc. will be provided. |
| <b>B. 2.6</b> | <b>CLEANER PRODUCTION AND WASTE MINIMIZATION:</b>   |  |
| 85.           | The unit shall undertake the Cleaner Production Assessment study through a reputed institute / organization and shall form a CP team in the company. The recommendations thereof along with the compliance shall be furnished to the GPCB.  | Noted.<br>Compliance assured once project takes off.   |
| 86.           | The company shall undertake various waste minimization measures such as:<br>a. Metering and control of quantities of active ingredients to minimize waste.<br>b. Reuse of by-products from the process as raw materials or as raw materials substitutes.<br>c. Use of automated and close filling to minimize spillages.<br>d. Use of close feed system into batch reactors<br>e. Venting equipment through vapour recovery system<br>f. Use of high-pressure hoses for cleaning to reduce wastewater generation.<br>g. Recycling of washes to subsequent batches<br>h. Recycling of steam condensate<br>i. Sweeping 1 mopping of floor instead of floor washing to avoid effluent generation.<br>j. Regular preventive maintenance for avoiding leakage, spillage etc. | Noted & will be considered during operation phase.   |
| <b>B. 2.7</b> | <b>GREEN BELT AND OTHER PLANTATION:</b>   |  |
| 87.           | The unit shall develop green belt within premises as per the CPCB guidelines. However, if the adequate land is not available within the premises, the unit shall take up adequate plantation on road sides and suitable open areas in GIDC estate or any other open areas in consultation with the GIDC / GPCB and submit an action plan of plantation for next three years to the GPCB.  | Compliance assured once project takes off.<br>Greenbelt will be developed within the plant premises as per CPCB guidelines.                    |
| 88.           | Drip irrigation / low-volume, low-angle sprinkler system shall be used for the green belt development within the premises   | Compliance assured once project takes off.   |
| <b>B. 3</b>   | <b>OTHER CONDITION:</b>   |  |
| 89.           | Unit shall comply all the applicable standard conditions prescribed in Office Memorandum (OM) published by MoEF&CC vide no. F. No. 22-34/2018-IA.III dated 09/08/2018.  | Noted and will be complied once project takes off.   |

**Mundra Solar Technology Limited**

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|-----|---|---|
| 90. | The project proponent shall allocate the separate fund for Corporate Environment Responsibility (CER) in accordance to the MoEFCC's Office Memorandum No. F.No.22-65/2017-IA.III dated 01/05/2018 to carry out the activities under CER in affected area around the project. The entire activities proposed under CER shall be monitored and the monitoring report shall be submitted to the regional office of MOEFCC as part of half-yearly compliance report and to district collector. The monitoring report shall be posted on the website of the project proponent. | Noted & Agreed  |
| 91. | Rainwater harvesting of surface as well as rooftop runoff shall be undertaken and the same water shall be used for the various activities of the project to conserve freshwater as well as recharge ground water. Before recharging the surface runoff, pre-treatment must be done to remove suspended matter.  | Noted<br>Compliance assured once project takes off.                                   |
| 92. | The unit shall join and participate financially and technically for any common environment facility / infrastructure as and when the same is taken up either by the industrial Association or GIDC or any such authority created for this purpose by the Govt. / GIDC   | Noted & Agreed  |
| 93. | Application of solar energy shall be incorporated for illumination of common areas, lighting for gardens and street lighting in addition the provision for solar water heating system shall also be provided.   | Noted<br>MSTL will explore the feasibility of using solar energy within the premises. |
| 94. | The area earmarked as green area shall be used only for plantation and shall not be altered for any other purpose.  | Noted and Agreed.   |
| 95. | All the commitments / undertakings given to the SEAC during the appraisal process for the purpose of environmental protection and management shall be strictly adhered to.  | Noted and Agreed.   |
| 96. | The project proponent shall also comply with any additional condition that may be Imposed by the SEAC or the SEIAA or any other competent authority for the purpose for the environmental protection and management   | Noted and Agreed.   |
| 97. | In the event of failure of any pollution control system adopted by the unit, the unit shall be safely closed down and shall not be restarted until the desired efficiency of the control equipment has been achieved.   | Noted and Agreed.   |
| 98. | The project authorities must strict adhered to the stipulations made by the Gujarat Pollution Control Board (GPCB), State Government and any statutory Authority.   | Noted and Agreed.   |

**Mundra Solar Technology Limited**

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| 99.  | During material transfer there shall be no spillages and garland drain shall be constructed to avoid mixing of accidental spillages with domestic wastewater or storm water.  | Noted and Agreed.  |
| 100. | Pucca flooring / impervious layer shall be provided in the work areas, chemical storage areas and chemical handling areas to minimize soil contamination.   | Compliance assured once project takes off.   |
| 101. | Leakages from pipes, pumps shall be minimal and if occurs, shall be arrested promptly.  | Noted and compliance assured.  |
| 102. | No further expansion or modifications in the plant likely to cause environmental impacts shall be carried out without obtaining prior Environment Clearance from the concerned authority.   | Noted and Agreed.  |
| 103. | The above conditions will be enforced, inter-alia under the provisions of the Water (Prevention & Control of Pollution) Act, 1974, Air (Prevention & Control of Pollution) Act, 1981, the Environment (Protection) Act, 1986, Hazardous Wastes (Management, Handling and Transboundary Movement) Rules, 2008 and the Public Liability Insurance Act, 1991 along with their amendments and rules.  | Agreed and will be complied once project takes off.  |
| 104. | The project proponent shall comply all the conditions mentioned in "The Companies (Corporate Social Responsibility Policy) Rules, 2014" and its amendments from time to time in a letter and spirit.  | Agreed and will be complied once project takes off.  |
| 105. | The project management shall ensure that unit complies with all the environment protection measures, risk mitigation measures and safeguards recommended in the EMP report and Risk Assessment study report as well as proposed by project proponent.   | Agreed and will be complied once project takes off.  |
| 106. | The project authorities shall earmark adequate funds to implement the conditions stipulated by SEIAA as well as GPCB along with the implementation schedule for all the conditions stipulated herein. The funds so provided shall not be diverted for any other purpose.  | Noted and Agreed.  |
| 107. | The applicant shall inform the public that the project has been accorded environmental clearance by the SEIAA and that the copies of the clearance letter are available with the GPCB and may also be seen at the Website of SEIAA/ SEAC/GPCB. This shall be advertised within seven days from the date of the clearance letter, in at least two local newspapers that are widely circulated in the region, one of which shall be in the Gujarati language and the other in English. A copy each of the same shall be forwarded to the concerned Regional Office of the Ministry. | Complied.<br>MSTL has published the advertisement in one English language newspaper "The INDIAN EXPRESS, Ahmedabad" (Page 3) and one local language Gujarati newspaper "KUTCH MITRA, Bhuj" (Page 5) dated 18 <sup>th</sup> September 2019.<br><br>Clippings of newspaper advertisement already submitted in compliance report of October'2019 – March'2020 |
| 108. | It shall be mandatory for the project management to submit half-yearly compliance report in respect of the  | Noted<br>Being Complied.   |



### Mundra Solar Technology Limited

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|      | stipulated prior environmental clearance terms and conditions in soft copies to the regulatory authority concerned, on 1 <sup>st</sup> June and 1 <sup>st</sup> December of each calendar year.  | Half-yearly compliance status report is regularly submitted to MoEF&CC, CPCB & GPCB.<br>Last compliance report for the period of April'2023 to September'2023 submitted vide letter no. MSTL/EMD/Solar/EC/Mecca/1124/23 dated: 23.11.2023. |
| 109. | Concealing factual data or submission of false/fabricated data and failure to comply with any of the conditions mentioned above may result in withdrawal of this clearance and attract action under the provision of Environment (Protection) Act, 1986. | Noted & Agreed   |
| 110. | The project authorities shall also adhere to the stipulations made by the Gujarat Pollution Control Board.   | Noted & Agreed.  |
| 111. | The SEIAA may revoke or suspend the clearance, if implementation of any of the above conditions is not found satisfactory.   | Noted & Agreed.  |
| 112. | The company in a time bound manner shall implement these conditions. The SEIAA reserves the right to stipulate additional conditions, if the same is found necessary.  | Noted & Compliance assured   |
| 113. | The project authorities shall inform the GPCB, Regional Office. MoEF and SEIAA about the date of financial closure and final approval of the project by the concerned authority and date of start of project.  | Noted & will be informed in time.  |
| 114. | This environmental clearance is valid for seven years from, the date of Issue  | Noted & Agreed   |
| 115. | Any appeal against this environmental/clearance shall lie with the National Green tribunal, within a period of 30 days as prescribed under Section 16 of the National Green Tribunal Act, 2010   | Noted & Agreed.  |
| 116. | Submission of any false or misleading information or data which is material to screening or scoping or appraisal or decision on the application makes this environment clearance cancelled.  | Noted & Agreed   |

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# ENVIRONMENTAL MONITORING REPORT

Period: October - 2023

FOR



**M/s. MUNDRA SOLAR PV LIMITED**



**At**

**Village Vandh & Tunda, Taluka Mundra,  
Mundra, Kutch 370 435, Gujarat. India.**



**Monitoring Organization**

White House  
Near G.I.D.C. Office, Char Rasta,  
Vapi - 396 195. Gujarat, India.  
Phone : +91 260 2433966 / 2425610  
Email : [response@uerl.in](mailto:response@uerl.in) Website : [www.uerl.in](http://www.uerl.in)

QCI-NABET Accredited EIA  
Consultant Organization

GPCB Recognized Environmental  
Auditor (Schedule-11)

ISO 9001 : 2015  
Certified Company

ISO 45001 : 2018  
Certified Company

**TEST REPORT**  
**(AMBIENT AIR MONITORING)**

| Discipline.                        | Chemical Testing   | Name of Group        | Atmospheric Pollution    |
|------------------------------------|--|----------------------|--------------------------|
| Test Report No.:                   | URAL/23/10/MSPVL/A-001   | Report Issue Date    | 23/10/2023               |
| Service Request form No.:          | UERL/AIR/SRF/10/A-001  | Service Request Date | 12/10/2023               |
| Sample ID No.:                     | UERL/AIR/ID/10/A-001   | Field Data Sheet No. | UERL/AIR/FDS/A-23/10/001 |
| Name & Add. of Customer            | <b>M/s. Mundra Solar PV Limited</b><br>Village Vandh & Tunda, Taluka Mundra,<br>Mundra, Kutch 370 435, Gujarat. India. |                      |                          |
| Dates of Sampling:                 | 12/10/2023   | Date of Testing      | 15/10/2023               |
| Location of Sampling / Monitoring: | Near Canteen Area.   |                      |                          |
| Sampling Method                    | IS:5182(Part-14) and IS:5182 (Part-5)  |                      |                          |

➤ **Details of Master Instrument Used for Monitoring**

| Instrument Id No. | Instrument Name          | Serial Number                  | Cali. Date | Next Cali. Date |
|-------------------|--------------------------|--------------------------------|------------|-----------------|
| UERL/AIR/RDS/25   | Respirable Dust Sampler  | 1744-DTA-2013<br>1127-DTJ-2012 | 31/03/2023 | 30/03/2024      |
| UERL/AIR/FPS/51   | Fine Particulate Sampler | 137-DTD-2013                   | 31/03/2023 | 30/03/2024      |

➤ **General Sampling / Monitoring Observation as per CPCB Guideline**

| Sr. No. | Description                                 | Unit of measurement | Observation |
|---------|---|---------------------|-------------|
| 1.      | Monitoring Duration                         | H                   | 24.10       |
| 2.      | Flow Rate of PM <sub>10</sub>               | m <sup>3</sup> /min | 1.28        |
| 3.      | Volume of Air Sampled for PM <sub>10</sub>  | m <sup>3</sup>      | 1850.88     |
| 4.      | Volume of Air Sampled for PM <sub>2.5</sub> | m <sup>3</sup>      | 24.14       |

➤ **Test Parameter Results**

| Sr. No. | Test Parameter                       | Unit              | Result | Specific Value (As per NAAQMS) | Test Method       |
|---------|--------------------------------------|-------------------|--------|--------------------------------|-------------------|
| 1.      | Particulate Matter PM <sub>10</sub>  | µg/m <sup>3</sup> | 84     | 100                            | IS 5182 (Part-23) |
| 2.      | Particulate Matter PM <sub>2.5</sub> | µg/m <sup>3</sup> | 24     | 60                             | IS 5182 (Part-24) |
| 3.      | Sulphur Dioxide as SO <sub>2</sub>   | µg/m <sup>3</sup> | 13.6   | 80                             | IS 5182 (Part-22) |
| 4.      | Nitrogen Dioxide as NO <sub>2</sub>  | µg/m <sup>3</sup> | 21.4   | 80                             | IS 5182 (Part-6)  |

\*\*\*\*\* End of Report \*\*\*\*\*

**Checked By:**



**Nikunj D. Patel**  
(Chemist)

**Authorized By:**



**Jaivik S. Tandel**  
(Manager - Operations)

**TEST REPORT**  
**(AMBIENT AIR MONITORING)**

|   |  |                             |                              |
|---|--|-----------------------------|------------------------------|
| <b>Discipline.</b>                        | <b>Chemical Testing</b>  | <b>Name of Group</b>        | <b>Atmospheric Pollution</b> |
| <b>Test Report No.:</b>                   | <b>URAL/23/10/MSPVL/A-002</b>  | <b>Report Issue Date</b>    | 23/10/2023                   |
| <b>Service Request form No.:</b>          | UERL/AIR/SRF/10/A-002  | <b>Service Request Date</b> | 12/10/2023                   |
| <b>Sample ID No.:</b>                     | UERL/AIR/ID/10/A-002   | <b>Field Data Sheet No.</b> | UERL/AIR/FDS/A-23/10/002     |
| <b>Name &amp; Add. of Customer</b>        | <b>M/s. Mundra Solar PV Limited</b><br>Village Vandh & Tunda, Taluka Mundra,<br>Mundra, Kutch 370 435, Gujarat. India. |                             |                              |
| <b>Dates of Sampling:</b>                 | 12/10/2023   | <b>Date of Testing</b>      | 15/10/2023                   |
| <b>Location of Sampling / Monitoring:</b> | <b>Near ETP Guard Basin (MSTPL)</b>  |                             |                              |
| <b>Sampling Method</b>                    | <b>IS:5182(Part-14) and IS:5182 (Part-5)</b>   |                             |                              |

➤ **Details of Master Instrument Used for Monitoring**

| <b>Instrument Id No.</b> | <b>Instrument Name</b>   | <b>Serial Number</b>            | <b>Cali. Date</b> | <b>Next Cali. Date</b> |
|--------------------------|--------------------------|---------------------------------|-------------------|------------------------|
| UERL/AIR/RDS/27          | Respirable Dust Sampler  | 1751-DTA-2013,<br>1142-DTA-2013 | 31/03/2023        | 30/03/2024             |
| UERL/AIR/FPS/42          | Fine Particulate Sampler | 125-DTD-2013                    | 31/03/2023        | 30/03/2024             |

➤ **General Sampling / Monitoring Observation as per CPCB Guideline**

| <b>Sr. No.</b> | <b>Description</b>                          | <b>Unit of measurement</b> | <b>Observation</b> |
|----------------|---|----------------------------|--------------------|
| 1.             | Monitoring Duration                         | H                          | 23.50              |
| 2.             | Flow Rate of PM <sub>10</sub>               | m <sup>3</sup> /min        | 1.31               |
| 3.             | Volume of Air Sampled for PM <sub>10</sub>  | m <sup>3</sup>             | 1847.1             |
| 4.             | Volume of Air Sampled for PM <sub>2.5</sub> | m <sup>3</sup>             | 23.54              |

➤ **Test Parameter Results**

| <b>Sr. No.</b> | <b>Test Parameter</b>                | <b>Unit</b>       | <b>Result</b> | <b>Specific Value (As per NAAQMS)</b> | <b>Test Method</b> |
|----------------|--------------------------------------|-------------------|---------------|---------------------------------------|--------------------|
| 1.             | Particulate Matter PM <sub>10</sub>  | µg/m <sup>3</sup> | 78            | <b>100</b>                            | IS 5182 (Part-23)  |
| 2.             | Particulate Matter PM <sub>2.5</sub> | µg/m <sup>3</sup> | 20            | <b>60</b>                             | IS 5182 (Part-24)  |
| 3.             | Sulphur Dioxide as SO <sub>2</sub>   | µg/m <sup>3</sup> | 14.6          | <b>80</b>                             | IS 5182 (Part-22)  |
| 4.             | Nitrogen Dioxide as NO <sub>2</sub>  | µg/m <sup>3</sup> | 17.2          | <b>80</b>                             | IS 5182 (Part-6)   |

\*\*\*\*\* End of Report \*\*\*\*\*

**Checked By:**



**Nikunj D. Patel**  
(Chemist)

**Authorized By:**



**Jaivik S. Tandel**  
(Manager - Operations)

**TEST REPORT**  
**(AMBIENT AIR MONITORING)**

| Discipline.                        | Chemical Testing   | Name of Group        | Atmospheric Pollution    |
|------------------------------------|--|----------------------|--------------------------|
| Test Report No.:                   | URAL/23/10/MSPVL/A-003   | Report Issue Date    | 23/10/2023               |
| Service Request form No.:          | UERL/AIR/SRF/10/A-003  | Service Request Date | 12/10/2023               |
| Sample ID No.:                     | UERL/AIR/ID/10/A-003   | Field Data Sheet No. | UERL/AIR/FDS/A-23/10/003 |
| Name & Add. of Customer            | <b>M/s. Mundra Solar PV Limited</b><br>Village Vandh & Tunda, Taluka Mundra,<br>Mundra, Kutch 370 435, Gujarat. India. |                      |                          |
| Dates of Sampling:                 | 12/10/2023   | Date of Testing      | 15/10/2023               |
| Location of Sampling / Monitoring: | <b>Near Occupational Health Center.</b>  |                      |                          |
| Sampling Method                    | <b>IS:5182(Part-14) and IS:5182 (Part-5)</b>   |                      |                          |

➤ **Details of Master Instrument Used for Monitoring**

| Instrument Id No. | Instrument Name          | Serial Number                  | Cali. Date | Next Cali. Date |
|-------------------|--------------------------|--------------------------------|------------|-----------------|
| UERL/AIR/RDS/22   | Respirable Dust Sampler  | 1745-DTB-2013<br>1151-DTB-2013 | 31/03/2023 | 30/03/2024      |
| UERL/AIR/FPS/22   | Fine Particulate Sampler | 129-DTB-2013                   | 31/03/2023 | 30/03/2024      |

➤ **General Sampling / Monitoring Observation as per CPCB Guideline**

| Sr. No. | Description                                 | Unit of measurement | Observation |
|---------|---|---------------------|-------------|
| 1.      | Monitoring Duration                         | H                   | 24.01       |
| 2.      | Flow Rate of PM <sub>10</sub>               | m <sup>3</sup> /min | 1.32        |
| 3.      | Volume of Air Sampled for PM <sub>10</sub>  | m <sup>3</sup>      | 1901.59     |
| 4.      | Volume of Air Sampled for PM <sub>2.5</sub> | m <sup>3</sup>      | 24.04       |

➤ **Test Parameter Results**

| Sr. No. | Test Parameter                       | Unit              | Result | Specific Value (As per NAAQMS) | Test Method       |
|---------|--------------------------------------|-------------------|--------|--------------------------------|-------------------|
| 1.      | Particulate Matter PM <sub>10</sub>  | µg/m <sup>3</sup> | 72     | <b>100</b>                     | IS 5182 (Part-23) |
| 2.      | Particulate Matter PM <sub>2.5</sub> | µg/m <sup>3</sup> | 24     | <b>60</b>                      | IS 5182 (Part-24) |
| 3.      | Sulphur Dioxide as SO <sub>2</sub>   | µg/m <sup>3</sup> | 16.2   | <b>80</b>                      | IS 5182 (Part-22) |
| 4.      | Nitrogen Dioxide as NO <sub>2</sub>  | µg/m <sup>3</sup> | 19.6   | <b>80</b>                      | IS 5182 (Part-6)  |

\*\*\*\*\* End of Report \*\*\*\*\*

**Checked By:**



**Nikunj D. Patel**  
(Chemist)

**Authorized By:**



**Jaivik S. Tandel**  
(Manager - Operations)

**TEST REPORT**  
**(AMBIENT AIR MONITORING)**

| Discipline.                        | Chemical Testing   | Name of Group        | Atmospheric Pollution    |
|------------------------------------|--|----------------------|--------------------------|
| Test Report No.:                   | URAL/23/10/MSPVL/A-004   | Report Issue Date    | 23/10/2023               |
| Service Request form No.:          | UERL/AIR/SRF/10/A-004  | Service Request Date | 13/10/2023               |
| Sample ID No.:                     | UERL/AIR/ID/10/A-004   | Field Data Sheet No. | UERL/AIR/FDS/A-23/10/004 |
| Name & Add. of Customer            | <b>M/s. Mundra Solar PV Limited</b><br>Village Vandh & Tunda, Taluka Mundra,<br>Mundra, Kutch 370 435, Gujarat. India. |                      |                          |
| Dates of Sampling:                 | 13/10/2023   | Date of Testing      | 15/10/2023               |
| Location of Sampling / Monitoring: | Near Village Vandh   |                      |                          |
| Sampling Method                    | IS:5182(Part-14) and IS:5182 (Part-5)  |                      |                          |

➤ **Details of Master Instrument Used for Monitoring**

| Instrument Id No. | Instrument Name          | Serial Number                  | Cali. Date | Next Cali. Date |
|-------------------|--------------------------|--------------------------------|------------|-----------------|
| UERL/AIR/RDS/27   | Respirable Dust Sampler  | 1751-DTA-2013<br>1142-DTA-2013 | 31/03/2023 | 30/03/2024      |
| UERL/AIR/FPS/42   | Fine Particulate Sampler | 125-DTD-2013                   | 31/03/2023 | 30/03/2024      |

➤ **General Sampling / Monitoring Observation as per CPCB Guideline**

| Sr. No. | Description                                 | Unit of measurement | Observation |
|---------|---|---------------------|-------------|
| 1.      | Monitoring Duration                         | H                   | 24          |
| 2.      | Flow Rate of PM <sub>10</sub>               | m <sup>3</sup> /min | 1.28        |
| 3.      | Volume of Air Sampled for PM <sub>10</sub>  | m <sup>3</sup>      | 1843.2      |
| 4.      | Volume of Air Sampled for PM <sub>2.5</sub> | m <sup>3</sup>      | 24.04       |

➤ **Test Parameter Results**

| Sr. No. | Test Parameter                       | Unit              | Result | Specific Value (As per NAAQMS) | Test Method       |
|---------|--------------------------------------|-------------------|--------|--------------------------------|-------------------|
| 1.      | Particulate Matter PM <sub>10</sub>  | µg/m <sup>3</sup> | 86     | 100                            | IS 5182 (Part-23) |
| 2.      | Particulate Matter PM <sub>2.5</sub> | µg/m <sup>3</sup> | 28     | 60                             | IS 5182 (Part-24) |
| 3.      | Sulphur Dioxide as SO <sub>2</sub>   | µg/m <sup>3</sup> | 17.2   | 80                             | IS 5182 (Part-22) |
| 4.      | Nitrogen Dioxide as NO <sub>2</sub>  | µg/m <sup>3</sup> | 20.7   | 80                             | IS 5182 (Part-6)  |

\*\*\*\*\* End of Report \*\*\*\*\*

Checked By:



**Nikunj D. Patel**  
(Chemist)

Authorized By:



**Jaivik S. Tandel**  
(Manager - Operations)



# ENVIRONMENTAL MONITORING REPORT

Period: November - 2023

FOR



**M/s. Mundra Solar Energy Limited**



**At**

**Village Vandh & Tunda, Taluka Mundra,  
Mundra, Kutch 370 435, Gujarat. India.**



**Monitoring Organization**

White House  
Near G.I.D.C. Office, Char Rasta,  
Vapi - 396 195. Gujarat, India.  
Phone : +91 260 2433966 / 2425610  
Email : [response@uerl.in](mailto:response@uerl.in) Website : [www.uerl.in](http://www.uerl.in)

QCI-NABET Accredited EIA  
Consultant Organization

GPCB Recognized Environmental  
Auditor (Schedule-11)

ISO 9001 : 2015  
Certified Company

ISO 45001 : 2018  
Certified Company



**TEST REPORT**  
**(AMBIENT AIR MONITORING)**

| Discipline.                        | Chemical Testing   | Name of Group        | Atmospheric Pollution    |
|------------------------------------|--|----------------------|--------------------------|
| Test Report No.:                   | URAL/23/11/MSEL/A-001  | Report Issue Date    | 27/11/2023               |
| Service Request form No.:          | UERL/AIR/SRF/11/A-001  | Service Request Date | 08/11/2023               |
| Sample ID No.:                     | UERL/AIR/ID/11/A-001   | Field Data Sheet No. | UERL/AIR/FDS/A-23/11/001 |
| Name & Add. of Customer            | <b>M/s. Mundra Solar Energy Limited</b><br>Village Vandh & Tunda, Taluka Mundra,<br>Mundra, Kutch 370 435, Gujarat. India. |                      |                          |
| Dates of Sampling:                 | 08/11/2023   | Date of Testing      | 10/11/2023               |
| Location of Sampling / Monitoring: | Near Canteen Area.   |                      |                          |
| Sampling Method                    | IS:5182(Part-14) and IS:5182 (Part-5)  |                      |                          |

➤ **Details of Master Instrument Used for Monitoring**

| Instrument Id No. | Instrument Name          | Serial Number                  | Cali. Date | Next Cali. Date |
|-------------------|--------------------------|--------------------------------|------------|-----------------|
| UERL/AIR/RDS/25   | Respirable Dust Sampler  | 1744-DTA-2013<br>1127-DTJ-2012 | 31/03/2023 | 30/03/2024      |
| UERL/AIR/FPS/51   | Fine Particulate Sampler | 137-DTD-2013                   | 31/03/2023 | 30/03/2024      |

➤ **General Sampling / Monitoring Observation as per CPCB Guideline**

| Sr. No. | Description                                 | Unit of measurement | Observation |
|---------|---|---------------------|-------------|
| 1.      | Monitoring Duration                         | H                   | 24          |
| 2.      | Flow Rate of PM <sub>10</sub>               | m <sup>3</sup> /min | 1.28        |
| 3.      | Volume of Air Sampled for PM <sub>10</sub>  | m <sup>3</sup>      | 1843.2      |
| 4.      | Volume of Air Sampled for PM <sub>2.5</sub> | m <sup>3</sup>      | 24.05       |

➤ **Test Parameter Results**

| Sr. No. | Test Parameter                       | Unit              | Result | Specific Value (As per NAAQMS) | Test Method       |
|---------|--------------------------------------|-------------------|--------|--------------------------------|-------------------|
| 1.      | Particulate Matter PM <sub>10</sub>  | µg/m <sup>3</sup> | 65     | 100                            | IS 5182 (Part-23) |
| 2.      | Particulate Matter PM <sub>2.5</sub> | µg/m <sup>3</sup> | 20     | 60                             | IS 5182 (Part-24) |
| 3.      | Sulphur Dioxide as SO <sub>2</sub>   | µg/m <sup>3</sup> | 14.6   | 80                             | IS 5182 (Part-22) |
| 4.      | Nitrogen Dioxide as NO <sub>2</sub>  | µg/m <sup>3</sup> | 19.2   | 80                             | IS 5182 (Part-6)  |

\*\*\*\*\* End of Report \*\*\*\*\*

**Checked By:**



**Nikunj D. Patel**  
(Chemist)

**Authorized By:**



**Jaivik S. Tandel**  
(Manager - Operations)

**TEST REPORT**  
**(AMBIENT AIR MONITORING)**

|   |  |                             |                              |
|---|--|-----------------------------|------------------------------|
| <b>Discipline.</b>                        | <b>Chemical Testing</b>  | <b>Name of Group</b>        | <b>Atmospheric Pollution</b> |
| <b>Test Report No.:</b>                   | <b>URAL/23/11/MSEL/A-002</b>   | <b>Report Issue Date</b>    | 27/11/2023                   |
| <b>Service Request form No.:</b>          | UERL/AIR/SRF/11/A-002  | <b>Service Request Date</b> | 08/11/2023                   |
| <b>Sample ID No.:</b>                     | UERL/AIR/ID/11/A-002   | <b>Field Data Sheet No.</b> | UERL/AIR/FDS/A-23/11/002     |
| <b>Name &amp; Add. of Customer</b>        | <b>M/s. Mundra Solar Energy Limited</b><br>Village Vandh & Tunda, Taluka Mundra,<br>Mundra, Kutch 370 435, Gujarat. India. |                             |                              |
| <b>Dates of Sampling:</b>                 | 08/11/2023   | <b>Date of Testing</b>      | 10/11/2023                   |
| <b>Location of Sampling / Monitoring:</b> | <b>Near ETP Guard Basin (MSTPL)</b>  |                             |                              |
| <b>Sampling Method</b>                    | <b>IS:5182(Part-14) and IS:5182 (Part-5)</b>   |                             |                              |

➤ **Details of Master Instrument Used for Monitoring**

| <b>Instrument Id No.</b> | <b>Instrument Name</b>   | <b>Serial Number</b>            | <b>Cali. Date</b> | <b>Next Cali. Date</b> |
|--------------------------|--------------------------|---------------------------------|-------------------|------------------------|
| UERL/AIR/RDS/27          | Respirable Dust Sampler  | 1751-DTA-2013,<br>1142-DTA-2013 | 02/04/2022        | 01/04/2023             |
| UERL/AIR/FPS/42          | Fine Particulate Sampler | 125-DTD-2013                    | 02/04/2022        | 01/04/2023             |

➤ **General Sampling / Monitoring Observation as per CPCB Guideline**

| <b>Sr. No.</b> | <b>Description</b>                          | <b>Unit of measurement</b> | <b>Observation</b> |
|----------------|---|----------------------------|--------------------|
| 1.             | Monitoring Duration                         | H                          | 24                 |
| 2.             | Flow Rate of PM <sub>10</sub>               | m <sup>3</sup> /min        | 1.26               |
| 3.             | Volume of Air Sampled for PM <sub>10</sub>  | m <sup>3</sup>             | 1814.4             |
| 4.             | Volume of Air Sampled for PM <sub>2.5</sub> | m <sup>3</sup>             | 24.05              |

➤ **Test Parameter Results**

| <b>Sr. No.</b> | <b>Test Parameter</b>                | <b>Unit</b>       | <b>Result</b> | <b>Specific Value (As per NAAQMS)</b> | <b>Test Method</b> |
|----------------|--------------------------------------|-------------------|---------------|---------------------------------------|--------------------|
| 1.             | Particulate Matter PM <sub>10</sub>  | µg/m <sup>3</sup> | 62            | <b>100</b>                            | IS 5182 (Part-23)  |
| 2.             | Particulate Matter PM <sub>2.5</sub> | µg/m <sup>3</sup> | 25            | <b>60</b>                             | IS 5182 (Part-24)  |
| 3.             | Sulphur Dioxide as SO <sub>2</sub>   | µg/m <sup>3</sup> | 16.1          | <b>80</b>                             | IS 5182 (Part-22)  |
| 4.             | Nitrogen Dioxide as NO <sub>2</sub>  | µg/m <sup>3</sup> | 20.4          | <b>80</b>                             | IS 5182 (Part-6)   |

\*\*\*\*\* End of Report \*\*\*\*\*

**Checked By:**



**Nikunj D. Patel**  
(Chemist)

**Authorized By:**



**Jaivik S. Tandel**  
(Manager - Operations)

**TEST REPORT**  
**(AMBIENT AIR MONITORING)**

|   |  |                             |                                 |
|---|--|-----------------------------|---------------------------------|
| <b>Discipline.</b>                        | <b>Chemical Testing</b>  | <b>Name of Group</b>        | <b>Atmospheric Pollution</b>    |
| <b>Test Report No.:</b>                   | <b>URAL/23/11/MSEL/A-003</b>   | <b>Report Issue Date</b>    | <b>27/11/2023</b>               |
| <b>Service Request form No.:</b>          | <b>UERL/AIR/SRF/11/A-003</b>   | <b>Service Request Date</b> | <b>08/11/2023</b>               |
| <b>Sample ID No.:</b>                     | <b>UERL/AIR/ID/11/A-003</b>  | <b>Field Data Sheet No.</b> | <b>UERL/AIR/FDS/A-23/11/003</b> |
| <b>Name &amp; Add. of Customer</b>        | <b>M/s. Mundra Solar Energy Limited</b><br>Village Vandh & Tunda, Taluka Mundra,<br>Mundra, Kutch 370 435, Gujarat. India. |                             |                                 |
| <b>Dates of Sampling:</b>                 | <b>08/11/2023</b>  | <b>Date of Testing</b>      | <b>10/11/2023</b>               |
| <b>Location of Sampling / Monitoring:</b> | <b>Near Occupational Health Center.</b>  |                             |                                 |
| <b>Sampling Method</b>                    | <b>IS:5182(Part-14) and IS:5182 (Part-5)</b>   |                             |                                 |

➤ **Details of Master Instrument Used for Monitoring**

| <b>Instrument Id No.</b> | <b>Instrument Name</b>   | <b>Serial Number</b>           | <b>Cali. Date</b> | <b>Next Cali. Date</b> |
|--------------------------|--------------------------|--------------------------------|-------------------|------------------------|
| UERL/AIR/RDS/22          | Respirable Dust Sampler  | 1745-DTB-2013<br>1151-DTB-2013 | 31/03/2023        | 30/03/2024             |
| UERL/AIR/FPS/22          | Fine Particulate Sampler | 129-DTB-2013                   | 31/03/2023        | 30/03/2024             |

➤ **General Sampling / Monitoring Observation as per CPCB Guideline**

| <b>Sr. No.</b> | <b>Description</b>                          | <b>Unit of measurement</b> | <b>Observation</b> |
|----------------|---|----------------------------|--------------------|
| 1.             | Monitoring Duration                         | H                          | 24                 |
| 2.             | Flow Rate of PM <sub>10</sub>               | m <sup>3</sup> /min        | 1.31               |
| 3.             | Volume of Air Sampled for PM <sub>10</sub>  | m <sup>3</sup>             | 1886.4             |
| 4.             | Volume of Air Sampled for PM <sub>2.5</sub> | m <sup>3</sup>             | 24.05              |

➤ **Test Parameter Results**

| <b>Sr. No.</b> | <b>Test Parameter</b>                | <b>Unit</b>       | <b>Result</b> | <b>Specific Value (As per NAAQMS)</b> | <b>Test Method</b> |
|----------------|--------------------------------------|-------------------|---------------|---------------------------------------|--------------------|
| 1.             | Particulate Matter PM <sub>10</sub>  | µg/m <sup>3</sup> | 72            | <b>100</b>                            | IS 5182 (Part-23)  |
| 2.             | Particulate Matter PM <sub>2.5</sub> | µg/m <sup>3</sup> | 22            | <b>60</b>                             | IS 5182 (Part-24)  |
| 3.             | Sulphur Dioxide as SO <sub>2</sub>   | µg/m <sup>3</sup> | 15.4          | <b>80</b>                             | IS 5182 (Part-22)  |
| 4.             | Nitrogen Dioxide as NO <sub>2</sub>  | µg/m <sup>3</sup> | 22.1          | <b>80</b>                             | IS 5182 (Part-6)   |

\*\*\*\*\* End of Report \*\*\*\*\*

**Checked By:**



**Nikunj D. Patel**  
(Chemist)

**Authorized By:**



**Jaivik S. Tandel**  
(Manager - Operations)

**TEST REPORT**  
**(AMBIENT AIR MONITORING)**

| Discipline.                        | Chemical Testing   | Name of Group        | Atmospheric Pollution    |
|------------------------------------|--|----------------------|--------------------------|
| Test Report No.:                   | URAL/23/11/MSEL/A-004  | Report Issue Date    | 27/11/2023               |
| Service Request form No.:          | UERL/AIR/SRF/11/A-004  | Service Request Date | 07/11/2023               |
| Sample ID No.:                     | UERL/AIR/ID/11/A-004   | Field Data Sheet No. | UERL/AIR/FDS/A-23/11/004 |
| Name & Add. of Customer            | <b>M/s. Mundra Solar Energy Limited</b><br>Village Vandh & Tunda, Taluka Mundra,<br>Mundra, Kutch 370 435, Gujarat. India. |                      |                          |
| Dates of Sampling:                 | 07/11/2023   | Date of Testing      | 10/11/2023               |
| Location of Sampling / Monitoring: | Near Village Vandh   |                      |                          |
| Sampling Method                    | IS:5182(Part-14) and IS:5182 (Part-5)  |                      |                          |

➤ **Details of Master Instrument Used for Monitoring**

| Instrument Id No. | Instrument Name          | Serial Number                  | Cali. Date | Next Cali. Date |
|-------------------|--------------------------|--------------------------------|------------|-----------------|
| UERL/AIR/RDS/27   | Respirable Dust Sampler  | 1751-DTA-2013<br>1142-DTA-2013 | 31/03/2023 | 30/03/2024      |
| UERL/AIR/FPS/42   | Fine Particulate Sampler | 125-DTD-2013                   | 31/03/2023 | 30/03/2024      |

➤ **General Sampling / Monitoring Observation as per CPCB Guideline**

| Sr. No. | Description                                 | Unit of measurement | Observation |
|---------|---|---------------------|-------------|
| 1.      | Monitoring Duration                         | H                   | 24          |
| 2.      | Flow Rate of PM <sub>10</sub>               | m <sup>3</sup> /min | 1.26        |
| 3.      | Volume of Air Sampled for PM <sub>10</sub>  | m <sup>3</sup>      | 1814.4      |
| 4.      | Volume of Air Sampled for PM <sub>2.5</sub> | m <sup>3</sup>      | 24.05       |

➤ **Test Parameter Results**

| Sr. No. | Test Parameter                       | Unit              | Result | Specific Value (As per NAAQMS) | Test Method       |
|---------|--------------------------------------|-------------------|--------|--------------------------------|-------------------|
| 1.      | Particulate Matter PM <sub>10</sub>  | µg/m <sup>3</sup> | 85     | 100                            | IS 5182 (Part-23) |
| 2.      | Particulate Matter PM <sub>2.5</sub> | µg/m <sup>3</sup> | 24     | 60                             | IS 5182 (Part-24) |
| 3.      | Sulphur Dioxide as SO <sub>2</sub>   | µg/m <sup>3</sup> | 14.1   | 80                             | IS 5182 (Part-22) |
| 4.      | Nitrogen Dioxide as NO <sub>2</sub>  | µg/m <sup>3</sup> | 23.4   | 80                             | IS 5182 (Part-6)  |

\*\*\*\*\* End of Report \*\*\*\*\*

Checked By:



**Nikunj D. Patel**  
(Chemist)

Authorized By:



**Jaivik S. Tandel**  
(Manager - Operations)

# ENVIRONMENTAL MONITORING REPORT

Period: December - 2023

FOR



**M/s. MUNDRA SOLAR PV LIMITED**



**At**

**Village Vandh & Tunda, Taluka Mundra,  
Mundra, Kutch 370 435, Gujarat. India.**



**Monitoring Organization**

White House  
Near G.I.D.C. Office, Char Rasta,  
Vapi - 396 195. Gujarat, India.  
Phone : +91 260 2433966 / 2425610  
Email : [response@uerl.in](mailto:response@uerl.in) Website : [www.uerl.in](http://www.uerl.in)

QCI-NABET Accredited EIA  
Consultant Organization

GPCB Recognized Environmental  
Auditor (Schedule-11)

ISO 9001 : 2015  
Certified Company

ISO 45001 : 2018  
Certified Company



**TEST REPORT**  
**(AMBIENT AIR MONITORING)**

| Discipline.                        | Chemical Testing   | Name of Group        | Atmospheric Pollution    |
|------------------------------------|--|----------------------|--------------------------|
| Test Report No.:                   | URAL/23/12/MSPVL/A-001   | Report Issue Date    | 27/12/2023               |
| Service Request form No.:          | UERL/AIR/SRF/12/A-001  | Service Request Date | 13/12/2023               |
| Sample ID No.:                     | UERL/AIR/ID/12/A-001   | Field Data Sheet No. | UERL/AIR/FDS/A-23/12/001 |
| Name & Add. of Customer            | <b>M/s. Mundra Solar PV Limited</b><br>Village Vandh & Tunda, Taluka Mundra,<br>Mundra, Kutch 370 435, Gujarat. India. |                      |                          |
| Dates of Sampling:                 | 13/12/2023   | Date of Testing      | 14/12/2023               |
| Location of Sampling / Monitoring: | Near Canteen Area.   |                      |                          |
| Sampling Method                    | IS:5182(Part-14) and IS:5182 (Part-5)  |                      |                          |

➤ **Details of Master Instrument Used for Monitoring**

| Instrument Id No. | Instrument Name          | Serial Number                  | Cali. Date | Next Cali. Date |
|-------------------|--------------------------|--------------------------------|------------|-----------------|
| UERL/AIR/RDS/25   | Respirable Dust Sampler  | 1744-DTA-2013<br>1127-DTJ-2012 | 31/03/2023 | 30/03/2024      |
| UERL/AIR/FPS/51   | Fine Particulate Sampler | 137-DTD-2013                   | 31/03/2023 | 30/03/2024      |

➤ **General Sampling / Monitoring Observation as per CPCB Guideline**

| Sr. No. | Description                                 | Unit of measurement | Observation |
|---------|---|---------------------|-------------|
| 1.      | Monitoring Duration                         | H                   | 24          |
| 2.      | Flow Rate of PM <sub>10</sub>               | m <sup>3</sup> /min | 1.25        |
| 3.      | Volume of Air Sampled for PM <sub>10</sub>  | m <sup>3</sup>      | 1800.0      |
| 4.      | Volume of Air Sampled for PM <sub>2.5</sub> | m <sup>3</sup>      | 24.05       |

➤ **Test Parameter Results**

| Sr. No. | Test Parameter                       | Unit              | Result | Specific Value (As per NAAQMS) | Test Method       |
|---------|--------------------------------------|-------------------|--------|--------------------------------|-------------------|
| 1.      | Particulate Matter PM <sub>10</sub>  | µg/m <sup>3</sup> | 68     | 100                            | IS 5182 (Part-23) |
| 2.      | Particulate Matter PM <sub>2.5</sub> | µg/m <sup>3</sup> | 22     | 60                             | IS 5182 (Part-24) |
| 3.      | Sulphur Dioxide as SO <sub>2</sub>   | µg/m <sup>3</sup> | 15.7   | 80                             | IS 5182 (Part-22) |
| 4.      | Nitrogen Dioxide as NO <sub>2</sub>  | µg/m <sup>3</sup> | 20.4   | 80                             | IS 5182 (Part-6)  |

\*\*\*\*\* End of Report \*\*\*\*\*

**Checked By:**



**Nikunj D. Patel**  
(Chemist)

**Authorized By:**



**Jaivik S. Tandel**  
(Manager - Operations)

**TEST REPORT**  
**(AMBIENT AIR MONITORING)**

|   |  |                             |                                 |
|---|--|-----------------------------|---------------------------------|
| <b>Discipline.</b>                        | <b>Chemical Testing</b>  | <b>Name of Group</b>        | <b>Atmospheric Pollution</b>    |
| <b>Test Report No.:</b>                   | <b>URAL/23/12/MSPVL/A-002</b>  | <b>Report Issue Date</b>    | <b>27/12/2023</b>               |
| <b>Service Request form No.:</b>          | <b>UERL/AIR/SRF/12/A-002</b>   | <b>Service Request Date</b> | <b>13/12/2023</b>               |
| <b>Sample ID No.:</b>                     | <b>UERL/AIR/ID/12/A-002</b>  | <b>Field Data Sheet No.</b> | <b>UERL/AIR/FDS/A-23/12/002</b> |
| <b>Name &amp; Add. of Customer</b>        | <b>M/s. Mundra Solar PV Limited</b><br>Village Vandh & Tunda, Taluka Mundra,<br>Mundra, Kutch 370 435, Gujarat. India. |                             |                                 |
| <b>Dates of Sampling:</b>                 | <b>13/12/2023</b>  | <b>Date of Testing</b>      | <b>14/12/2023</b>               |
| <b>Location of Sampling / Monitoring:</b> | <b>Near ETP Guard Basin (MSTPL)</b>  |                             |                                 |
| <b>Sampling Method</b>                    | <b>IS:5182(Part-14) and IS:5182 (Part-5)</b>   |                             |                                 |

➤ **Details of Master Instrument Used for Monitoring**

| <b>Instrument Id No.</b> | <b>Instrument Name</b>   | <b>Serial Number</b>            | <b>Cali. Date</b> | <b>Next Cali. Date</b> |
|--------------------------|--------------------------|---------------------------------|-------------------|------------------------|
| UERL/AIR/RDS/27          | Respirable Dust Sampler  | 1751-DTA-2013,<br>1142-DTA-2013 | 31/03/2023        | 30/03/2024             |
| UERL/AIR/FPS/42          | Fine Particulate Sampler | 125-DTD-2013                    | 31/03/2023        | 30/03/2024             |

➤ **General Sampling / Monitoring Observation as per CPCB Guideline**

| <b>Sr. No.</b> | <b>Description</b>                          | <b>Unit of measurement</b> | <b>Observation</b> |
|----------------|---|----------------------------|--------------------|
| 1.             | Monitoring Duration                         | H                          | 24                 |
| 2.             | Flow Rate of PM <sub>10</sub>               | m <sup>3</sup> /min        | 1.23               |
| 3.             | Volume of Air Sampled for PM <sub>10</sub>  | m <sup>3</sup>             | 1771.2             |
| 4.             | Volume of Air Sampled for PM <sub>2.5</sub> | m <sup>3</sup>             | 24.05              |

➤ **Test Parameter Results**

| <b>Sr. No.</b> | <b>Test Parameter</b>                | <b>Unit</b>       | <b>Result</b> | <b>Specific Value (As per NAAQMS)</b> | <b>Test Method</b> |
|----------------|--------------------------------------|-------------------|---------------|---------------------------------------|--------------------|
| 1.             | Particulate Matter PM <sub>10</sub>  | µg/m <sup>3</sup> | 64            | <b>100</b>                            | IS 5182 (Part-23)  |
| 2.             | Particulate Matter PM <sub>2.5</sub> | µg/m <sup>3</sup> | 26            | <b>60</b>                             | IS 5182 (Part-24)  |
| 3.             | Sulphur Dioxide as SO <sub>2</sub>   | µg/m <sup>3</sup> | 17.2          | <b>80</b>                             | IS 5182 (Part-22)  |
| 4.             | Nitrogen Dioxide as NO <sub>2</sub>  | µg/m <sup>3</sup> | 22.1          | <b>80</b>                             | IS 5182 (Part-6)   |

\*\*\*\*\* End of Report \*\*\*\*\*

**Checked By:**



**Nikunj D. Patel**  
(Chemist)

**Authorized By:**



**Jaivik S. Tandel**  
(Manager - Operations)



**TEST REPORT**  
**(AMBIENT AIR MONITORING)**

|   |  |                             |                              |
|---|--|-----------------------------|------------------------------|
| <b>Discipline.</b>                        | <b>Chemical Testing</b>  | <b>Name of Group</b>        | <b>Atmospheric Pollution</b> |
| <b>Test Report No.:</b>                   | <b>URAL/23/12/MSPVL/A-003</b>  | <b>Report Issue Date</b>    | 27/12/2023                   |
| <b>Service Request form No.:</b>          | UERL/AIR/SRF/12/A-003  | <b>Service Request Date</b> | 13/12/2023                   |
| <b>Sample ID No.:</b>                     | UERL/AIR/ID/12/A-003   | <b>Field Data Sheet No.</b> | UERL/AIR/FDS/A-23/12/003     |
| <b>Name &amp; Add. of Customer</b>        | <b>M/s. Mundra Solar PV Limited</b><br>Village Vandh & Tunda, Taluka Mundra,<br>Mundra, Kutch 370 435, Gujarat. India. |                             |                              |
| <b>Dates of Sampling:</b>                 | 13/12/2023   | <b>Date of Testing</b>      | 14/12/2023                   |
| <b>Location of Sampling / Monitoring:</b> | <b>Near Occupational Health Center.</b>  |                             |                              |
| <b>Sampling Method</b>                    | <b>IS:5182(Part-14) and IS:5182 (Part-5)</b>   |                             |                              |

➤ **Details of Master Instrument Used for Monitoring**

| <b>Instrument Id No.</b> | <b>Instrument Name</b>   | <b>Serial Number</b>           | <b>Cali. Date</b> | <b>Next Cali. Date</b> |
|--------------------------|--------------------------|--------------------------------|-------------------|------------------------|
| UERL/AIR/RDS/22          | Respirable Dust Sampler  | 1745-DTB-2013<br>1151-DTB-2013 | 31/03/2023        | 30/03/2024             |
| UERL/AIR/FPS/22          | Fine Particulate Sampler | 129-DTB-2013                   | 31/03/2023        | 30/03/2024             |

➤ **General Sampling / Monitoring Observation as per CPCB Guideline**

| <b>Sr. No.</b> | <b>Description</b>                          | <b>Unit of measurement</b> | <b>Observation</b> |
|----------------|---|----------------------------|--------------------|
| 1.             | Monitoring Duration                         | H                          | 24                 |
| 2.             | Flow Rate of PM <sub>10</sub>               | m <sup>3</sup> /min        | 1.26               |
| 3.             | Volume of Air Sampled for PM <sub>10</sub>  | m <sup>3</sup>             | 1814.4             |
| 4.             | Volume of Air Sampled for PM <sub>2.5</sub> | m <sup>3</sup>             | 24.05              |

➤ **Test Parameter Results**

| <b>Sr. No.</b> | <b>Test Parameter</b>                | <b>Unit</b>       | <b>Result</b> | <b>Specific Value (As per NAAQMS)</b> | <b>Test Method</b> |
|----------------|--------------------------------------|-------------------|---------------|---------------------------------------|--------------------|
| 1.             | Particulate Matter PM <sub>10</sub>  | µg/m <sup>3</sup> | 75            | <b>100</b>                            | IS 5182 (Part-23)  |
| 2.             | Particulate Matter PM <sub>2.5</sub> | µg/m <sup>3</sup> | 24            | <b>60</b>                             | IS 5182 (Part-24)  |
| 3.             | Sulphur Dioxide as SO <sub>2</sub>   | µg/m <sup>3</sup> | 16.8          | <b>80</b>                             | IS 5182 (Part-22)  |
| 4.             | Nitrogen Dioxide as NO <sub>2</sub>  | µg/m <sup>3</sup> | 23.5          | <b>80</b>                             | IS 5182 (Part-6)   |

\*\*\*\*\* End of Report \*\*\*\*\*

**Checked By:**



**Nikunj D. Patel**  
(Chemist)

**Authorized By:**



**Jaivik S. Tandel**  
(Manager - Operations)

**TEST REPORT**  
**(AMBIENT AIR MONITORING)**

| Discipline.                        | Chemical Testing   | Name of Group        | Atmospheric Pollution    |
|------------------------------------|--|----------------------|--------------------------|
| Test Report No.:                   | URAL/23/12/MSPVL/A-004   | Report Issue Date    | 27/12/2023               |
| Service Request form No.:          | UERL/AIR/SRF/12/A-004  | Service Request Date | 15/12/2023               |
| Sample ID No.:                     | UERL/AIR/ID/12/A-004   | Field Data Sheet No. | UERL/AIR/FDS/A-23/12/004 |
| Name & Add. of Customer            | <b>M/s. Mundra Solar PV Limited</b><br>Village Vandh & Tunda, Taluka Mundra,<br>Mundra, Kutch 370 435, Gujarat. India. |                      |                          |
| Dates of Sampling:                 | 15/12/2023   | Date of Testing      | 16/12/2023               |
| Location of Sampling / Monitoring: | Near Village Vandh   |                      |                          |
| Sampling Method                    | IS:5182(Part-14) and IS:5182 (Part-5)  |                      |                          |

➤ **Details of Master Instrument Used for Monitoring**

| Instrument Id No. | Instrument Name          | Serial Number                  | Cali. Date | Next Cali. Date |
|-------------------|--------------------------|--------------------------------|------------|-----------------|
| UERL/AIR/RDS/27   | Respirable Dust Sampler  | 1751-DTA-2013<br>1142-DTA-2013 | 31/03/2023 | 30/03/2024      |
| UERL/AIR/FPS/42   | Fine Particulate Sampler | 125-DTD-2013                   | 31/03/2023 | 30/03/2024      |

➤ **General Sampling / Monitoring Observation as per CPCB Guideline**

| Sr. No. | Description                                 | Unit of measurement | Observation |
|---------|---|---------------------|-------------|
| 1.      | Monitoring Duration                         | H                   | 24          |
| 2.      | Flow Rate of PM <sub>10</sub>               | m <sup>3</sup> /min | 1.28        |
| 3.      | Volume of Air Sampled for PM <sub>10</sub>  | m <sup>3</sup>      | 1843.2      |
| 4.      | Volume of Air Sampled for PM <sub>2.5</sub> | m <sup>3</sup>      | 24.05       |

➤ **Test Parameter Results**

| Sr. No. | Test Parameter                       | Unit              | Result | Specific Value (As per NAAQMS) | Test Method       |
|---------|--------------------------------------|-------------------|--------|--------------------------------|-------------------|
| 1.      | Particulate Matter PM <sub>10</sub>  | µg/m <sup>3</sup> | 88     | 100                            | IS 5182 (Part-23) |
| 2.      | Particulate Matter PM <sub>2.5</sub> | µg/m <sup>3</sup> | 28     | 60                             | IS 5182 (Part-24) |
| 3.      | Sulphur Dioxide as SO <sub>2</sub>   | µg/m <sup>3</sup> | 15.2   | 80                             | IS 5182 (Part-22) |
| 4.      | Nitrogen Dioxide as NO <sub>2</sub>  | µg/m <sup>3</sup> | 24.6   | 80                             | IS 5182 (Part-6)  |

\*\*\*\*\* End of Report \*\*\*\*\*

Checked By:



**Nikunj D. Patel**  
(Chemist)

Authorized By:



**Jaivik S. Tandel**  
(Manager - Operations)

# ENVIRONMENTAL MONITORING REPORT

Period: January - 2024

FOR



**M/s. Mundra Solar Energy Limited**



**At**

**Village Vandh & Tunda, Taluka Mundra,  
Mundra, Kutch 370 435, Gujarat. India.**



**Monitoring Organization**

White House  
Near G.I.D.C. Office, Char Rasta,  
Vapi - 396 195. Gujarat, India.  
Phone : +91 260 2433966 / 2425610  
Email : [response@uerl.in](mailto:response@uerl.in) Website : [www.uerl.in](http://www.uerl.in)

QCI-NABET Accredited EIA  
Consultant Organization

GPCB Recognized Environmental  
Auditor (Schedule-11)

ISO 9001 : 2015  
Certified Company

ISO 45001 : 2018  
Certified Company

**TEST REPORT**  
**(AMBIENT AIR MONITORING)**

| Discipline.                        | Chemical Testing   | Name of Group        | Atmospheric Pollution    |
|------------------------------------|--|----------------------|--------------------------|
| Test Report No.:                   | URAL/24/01/MSEL/A-001  | Report Issue Date    | 20/01/2024               |
| Service Request form No.:          | UERL/AIR/SRF/01/A-001  | Service Request Date | 10/01/2024               |
| Sample ID No.:                     | UERL/AIR/ID/01/A-001   | Field Data Sheet No. | UERL/AIR/FDS/A-24/01/001 |
| Name & Add. of Customer            | <b>M/s. Mundra Solar Energy Limited</b><br>Village Vandh & Tunda, Taluka Mundra,<br>Mundra, Kutch 370 435, Gujarat. India. |                      |                          |
| Dates of Sampling:                 | 10/01/2024   | Date of Testing      | 11/01/2024               |
| Location of Sampling / Monitoring: | Near Canteen Area.   |                      |                          |
| Sampling Method                    | IS:5182(Part-14) and IS:5182 (Part-5)  |                      |                          |

➤ **Details of Master Instrument Used for Monitoring**

| Instrument Id No. | Instrument Name          | Serial Number                  | Cali. Date | Next Cali. Date |
|-------------------|--------------------------|--------------------------------|------------|-----------------|
| UERL/AIR/RDS/25   | Respirable Dust Sampler  | 1744-DTA-2013<br>1127-DTJ-2012 | 31/03/2023 | 30/03/2024      |
| UERL/AIR/FPS/51   | Fine Particulate Sampler | 137-DTD-2013                   | 31/03/2023 | 30/03/2024      |

➤ **General Sampling / Monitoring Observation as per CPCB Guideline**

| Sr. No. | Description                                 | Unit of measurement | Observation |
|---------|---|---------------------|-------------|
| 1.      | Monitoring Duration                         | H                   | 24          |
| 2.      | Flow Rate of PM <sub>10</sub>               | m <sup>3</sup> /min | 1.26        |
| 3.      | Volume of Air Sampled for PM <sub>10</sub>  | m <sup>3</sup>      | 1814.4      |
| 4.      | Volume of Air Sampled for PM <sub>2.5</sub> | m <sup>3</sup>      | 24.05       |

➤ **Test Parameter Results**

| Sr. No. | Test Parameter                       | Unit              | Result | Specific Value (As per NAAQMS) | Test Method       |
|---------|--------------------------------------|-------------------|--------|--------------------------------|-------------------|
| 1.      | Particulate Matter PM <sub>10</sub>  | µg/m <sup>3</sup> | 63     | 100                            | IS 5182 (Part-23) |
| 2.      | Particulate Matter PM <sub>2.5</sub> | µg/m <sup>3</sup> | 18     | 60                             | IS 5182 (Part-24) |
| 3.      | Sulphur Dioxide as SO <sub>2</sub>   | µg/m <sup>3</sup> | 13.8   | 80                             | IS 5182 (Part-22) |
| 4.      | Nitrogen Dioxide as NO <sub>2</sub>  | µg/m <sup>3</sup> | 18.4   | 80                             | IS 5182 (Part-6)  |

\*\*\*\*\* End of Report \*\*\*\*\*

**Checked By:**



**Nikunj D. Patel**  
(Chemist)

**Authorized By:**



**Jaivik S. Tandel**  
(Manager - Operations)

**TEST REPORT**  
**(AMBIENT AIR MONITORING)**

|   |  |                             |                              |
|---|--|-----------------------------|------------------------------|
| <b>Discipline.</b>                        | <b>Chemical Testing</b>  | <b>Name of Group</b>        | <b>Atmospheric Pollution</b> |
| <b>Test Report No.:</b>                   | <b>URAL/24/01/MSEL/A-002</b>   | <b>Report Issue Date</b>    | 20/01/2024                   |
| <b>Service Request form No.:</b>          | UERL/AIR/SRF/01/A-002  | <b>Service Request Date</b> | 10/01/2024                   |
| <b>Sample ID No.:</b>                     | UERL/AIR/ID/01/A-002   | <b>Field Data Sheet No.</b> | UERL/AIR/FDS/A-24/01/002     |
| <b>Name &amp; Add. of Customer</b>        | <b>M/s. Mundra Solar Energy Limited</b><br>Village Vandh & Tunda, Taluka Mundra,<br>Mundra, Kutch 370 435, Gujarat. India. |                             |                              |
| <b>Dates of Sampling:</b>                 | 10/01/2024   | <b>Date of Testing</b>      | 11/01/2024                   |
| <b>Location of Sampling / Monitoring:</b> | Near ETP Guard Basin (MSTPL)   |                             |                              |
| <b>Sampling Method</b>                    | IS:5182(Part-14) and IS:5182 (Part-5)  |                             |                              |

➤ **Details of Master Instrument Used for Monitoring**

| Instrument Id No. | Instrument Name          | Serial Number                   | Cali. Date | Next Cali. Date |
|-------------------|--------------------------|---------------------------------|------------|-----------------|
| UERL/AIR/RDS/27   | Respirable Dust Sampler  | 1751-DTA-2013,<br>1142-DTA-2013 | 31/03/2023 | 30/03/2024      |
| UERL/AIR/FPS/42   | Fine Particulate Sampler | 125-DTD-2013                    | 31/03/2023 | 30/03/2024      |

➤ **General Sampling / Monitoring Observation as per CPCB Guideline**

| Sr. No. | Description                                 | Unit of measurement | Observation |
|---------|---|---------------------|-------------|
| 1.      | Monitoring Duration                         | H                   | 24          |
| 2.      | Flow Rate of PM <sub>10</sub>               | m <sup>3</sup> /min | 1.23        |
| 3.      | Volume of Air Sampled for PM <sub>10</sub>  | m <sup>3</sup>      | 1771.2      |
| 4.      | Volume of Air Sampled for PM <sub>2.5</sub> | m <sup>3</sup>      | 24.05       |

➤ **Test Parameter Results**

| Sr. No. | Test Parameter                       | Unit              | Result | Specific Value (As per NAAQMS) | Test Method       |
|---------|--------------------------------------|-------------------|--------|--------------------------------|-------------------|
| 1.      | Particulate Matter PM <sub>10</sub>  | µg/m <sup>3</sup> | 60     | <b>100</b>                     | IS 5182 (Part-23) |
| 2.      | Particulate Matter PM <sub>2.5</sub> | µg/m <sup>3</sup> | 23     | <b>60</b>                      | IS 5182 (Part-24) |
| 3.      | Sulphur Dioxide as SO <sub>2</sub>   | µg/m <sup>3</sup> | 15.2   | <b>80</b>                      | IS 5182 (Part-22) |
| 4.      | Nitrogen Dioxide as NO <sub>2</sub>  | µg/m <sup>3</sup> | 19.7   | <b>80</b>                      | IS 5182 (Part-6)  |

\*\*\*\*\* End of Report \*\*\*\*\*

**Checked By:**



**Nikunj D. Patel**  
(Chemist)

**Authorized By:**



**Jaivik S. Tandel**  
(Manager - Operations)



**TEST REPORT**  
**(AMBIENT AIR MONITORING)**

| Discipline.                        | Chemical Testing   | Name of Group        | Atmospheric Pollution    |
|------------------------------------|--|----------------------|--------------------------|
| Test Report No.:                   | URAL/24/01/MSEL/A-003  | Report Issue Date    | 20/01/2024               |
| Service Request form No.:          | UERL/AIR/SRF/01/A-003  | Service Request Date | 10/01/2024               |
| Sample ID No.:                     | UERL/AIR/ID/01/A-003   | Field Data Sheet No. | UERL/AIR/FDS/A-24/01/003 |
| Name & Add. of Customer            | <b>M/s. Mundra Solar Energy Limited</b><br>Village Vandh & Tunda, Taluka Mundra,<br>Mundra, Kutch 370 435, Gujarat. India. |                      |                          |
| Dates of Sampling:                 | 10/01/2024   | Date of Testing      | 11/01/2024               |
| Location of Sampling / Monitoring: | <b>Near Occupational Health Center.</b>  |                      |                          |
| Sampling Method                    | <b>IS:5182(Part-14) and IS:5182 (Part-5)</b>   |                      |                          |

➤ **Details of Master Instrument Used for Monitoring**

| Instrument Id No. | Instrument Name          | Serial Number                  | Cali. Date | Next Cali. Date |
|-------------------|--------------------------|--------------------------------|------------|-----------------|
| UERL/AIR/RDS/22   | Respirable Dust Sampler  | 1745-DTB-2013<br>1151-DTB-2013 | 31/03/2023 | 30/03/2024      |
| UERL/AIR/FPS/22   | Fine Particulate Sampler | 129-DTB-2013                   | 31/03/2023 | 30/03/2024      |

➤ **General Sampling / Monitoring Observation as per CPCB Guideline**

| Sr. No. | Description                                 | Unit of measurement | Observation |
|---------|---|---------------------|-------------|
| 1.      | Monitoring Duration                         | H                   | 24          |
| 2.      | Flow Rate of PM <sub>10</sub>               | m <sup>3</sup> /min | 1.21        |
| 3.      | Volume of Air Sampled for PM <sub>10</sub>  | m <sup>3</sup>      | 1742.4      |
| 4.      | Volume of Air Sampled for PM <sub>2.5</sub> | m <sup>3</sup>      | 24.05       |

➤ **Test Parameter Results**

| Sr. No. | Test Parameter                       | Unit              | Result | Specific Value (As per NAAQMS) | Test Method       |
|---------|--------------------------------------|-------------------|--------|--------------------------------|-------------------|
| 1.      | Particulate Matter PM <sub>10</sub>  | µg/m <sup>3</sup> | 74     | <b>100</b>                     | IS 5182 (Part-23) |
| 2.      | Particulate Matter PM <sub>2.5</sub> | µg/m <sup>3</sup> | 25     | <b>60</b>                      | IS 5182 (Part-24) |
| 3.      | Sulphur Dioxide as SO <sub>2</sub>   | µg/m <sup>3</sup> | 17.3   | <b>80</b>                      | IS 5182 (Part-22) |
| 4.      | Nitrogen Dioxide as NO <sub>2</sub>  | µg/m <sup>3</sup> | 24.1   | <b>80</b>                      | IS 5182 (Part-6)  |

\*\*\*\*\* End of Report \*\*\*\*\*

**Checked By:**



**Nikunj D. Patel**  
(Chemist)

**Authorized By:**



**Jaivik S. Tandel**  
(Manager - Operations)

**TEST REPORT**  
**(AMBIENT AIR MONITORING)**

| Discipline.                        | Chemical Testing   | Name of Group        | Atmospheric Pollution    |
|------------------------------------|--|----------------------|--------------------------|
| Test Report No.:                   | URAL/24/01/MSEL/A-004  | Report Issue Date    | 20/01/2024               |
| Service Request form No.:          | UERL/AIR/SRF/01/A-004  | Service Request Date | 11/01/2024               |
| Sample ID No.:                     | UERL/AIR/ID/01/A-004   | Field Data Sheet No. | UERL/AIR/FDS/A-24/01/004 |
| Name & Add. of Customer            | <b>M/s. Mundra Solar Energy Limited</b><br>Village Vandh & Tunda, Taluka Mundra,<br>Mundra, Kutch 370 435, Gujarat. India. |                      |                          |
| Dates of Sampling:                 | 11/01/2024   | Date of Testing      | 12/01/2024               |
| Location of Sampling / Monitoring: | Near Village Vandh   |                      |                          |
| Sampling Method                    | IS:5182(Part-14) and IS:5182 (Part-5)  |                      |                          |

➤ **Details of Master Instrument Used for Monitoring**

| Instrument Id No. | Instrument Name          | Serial Number                  | Cali. Date | Next Cali. Date |
|-------------------|--------------------------|--------------------------------|------------|-----------------|
| UERL/AIR/RDS/27   | Respirable Dust Sampler  | 1751-DTA-2013<br>1142-DTA-2013 | 31/03/2023 | 30/03/2024      |
| UERL/AIR/FPS/42   | Fine Particulate Sampler | 125-DTD-2013                   | 31/03/2023 | 30/03/2024      |

➤ **General Sampling / Monitoring Observation as per CPCB Guideline**

| Sr. No. | Description                                 | Unit of measurement | Observation |
|---------|---|---------------------|-------------|
| 1.      | Monitoring Duration                         | H                   | 24          |
| 2.      | Flow Rate of PM <sub>10</sub>               | m <sup>3</sup> /min | 1.25        |
| 3.      | Volume of Air Sampled for PM <sub>10</sub>  | m <sup>3</sup>      | 1800.0      |
| 4.      | Volume of Air Sampled for PM <sub>2.5</sub> | m <sup>3</sup>      | 24.05       |

➤ **Test Parameter Results**

| Sr. No. | Test Parameter                       | Unit              | Result | Specific Value (As per NAAQMS) | Test Method       |
|---------|--------------------------------------|-------------------|--------|--------------------------------|-------------------|
| 1.      | Particulate Matter PM <sub>10</sub>  | µg/m <sup>3</sup> | 82     | 100                            | IS 5182 (Part-23) |
| 2.      | Particulate Matter PM <sub>2.5</sub> | µg/m <sup>3</sup> | 23     | 60                             | IS 5182 (Part-24) |
| 3.      | Sulphur Dioxide as SO <sub>2</sub>   | µg/m <sup>3</sup> | 12.8   | 80                             | IS 5182 (Part-22) |
| 4.      | Nitrogen Dioxide as NO <sub>2</sub>  | µg/m <sup>3</sup> | 21.4   | 80                             | IS 5182 (Part-6)  |

\*\*\*\*\* End of Report \*\*\*\*\*

Checked By:



**Nikunj D. Patel**  
(Chemist)

Authorized By:



**Jaivik S. Tandel**  
(Manager - Operations)



# ENVIRONMENTAL MONITORING REPORT

Period: February-2024

FOR



**M/s. MUNDRA SOLAR PV LIMITED**



**At**

**Village Vandh & Tunda, Taluka Mundra,  
Mundra, Kutch 370 435, Gujarat. India.**



**Monitoring Organization**

White House  
Near G.I.D.C. Office, Char Rasta,  
Vapi - 396 195. Gujarat, India.  
Phone : +91 260 2433966 / 2425610  
Email : [response@uerl.in](mailto:response@uerl.in) Website : [www.uerl.in](http://www.uerl.in)

QCI-NABET Accredited EIA  
Consultant Organization

GPCB Recognized Environmental  
Auditor (Schedule-11)

ISO 9001 : 2015  
Certified Company

ISO 45001 : 2018  
Certified Company

**TEST REPORT  
(AMBIENT AIR MONITORING)**

| Discipline.                        | Chemical Testing   | Name of Group        | Atmospheric Pollution    |
|------------------------------------|--|----------------------|--------------------------|
| Test Report No.:                   | URAL/24/02/MSPVL/A-001   | Report Issue Date    | 18/02/2024               |
| Service Request form No.:          | UURL/AIR/SRF/02/A-001  | Service Request Date | 15/02/2024               |
| Sample ID No.:                     | UURL/AIR/ID/02/A-001   | Field Data Sheet No. | UURL/AIR/FDS/A-24/02/001 |
| Name & Add. of Customer            | <b>M/s. Mundra Solar PV Limited</b><br>Village Vandh & Tunda, Taluka Mundra,<br>Mundra, Kutch 370 435, Gujarat. India. |                      |                          |
| Dates of Sampling:                 | 15/02/2024   | Date of Testing      | 16/02/2024               |
| Location of Sampling / Monitoring: | Near Canteen Area.   |                      |                          |
| Sampling Method                    | IS:5182(Part-14) and IS:5182 (Part-5)  |                      |                          |

➤ **Details of Master Instrument Used for Monitoring**

| Instrument Id No. | Instrument Name          | Serial Number                  | Cali. Date | Next Cali. Date |
|-------------------|--------------------------|--------------------------------|------------|-----------------|
| UURL/AIR/RDS/25   | Respirable Dust Sampler  | 1744-DTA-2013<br>1127-DTJ-2012 | 31/03/2023 | 30/03/2024      |
| UURL/AIR/FPS/51   | Fine Particulate Sampler | 137-DTD-2013                   | 31/03/2023 | 30/03/2024      |

➤ **General Sampling / Monitoring Observation as per CPCB Guideline**

| Sr. No. | Description                                 | Unit of measurement | Observation |
|---------|---|---------------------|-------------|
| 1.      | Monitoring Duration                         | H                   | 24          |
| 2.      | Flow Rate of PM <sub>10</sub>               | m <sup>3</sup> /min | 1.30        |
| 3.      | Volume of Air Sampled for PM <sub>10</sub>  | m <sup>3</sup>      | 1872.00     |
| 4.      | Volume of Air Sampled for PM <sub>2.5</sub> | m <sup>3</sup>      | 24.05       |

➤ **Test Parameter Results**

| Sr. No. | Test Parameter                       | Unit              | Result | Specific Value (As per NAAQMS) | Test Method       |
|---------|--------------------------------------|-------------------|--------|--------------------------------|-------------------|
| 1.      | Particulate Matter PM <sub>10</sub>  | µg/m <sup>3</sup> | 72     | 100                            | IS 5182 (Part-23) |
| 2.      | Particulate Matter PM <sub>2.5</sub> | µg/m <sup>3</sup> | 21     | 60                             | IS 5182 (Part-24) |
| 3.      | Sulphur Dioxide as SO <sub>2</sub>   | µg/m <sup>3</sup> | 13.6   | 80                             | IS 5182 (Part-22) |
| 4.      | Nitrogen Dioxide as NO <sub>2</sub>  | µg/m <sup>3</sup> | 21.8   | 80                             | IS 5182 (Part-6)  |

\*\*\*\*\* End of Report \*\*\*\*\*

**Checked By:**



**Nikunj D. Patel**  
(Chemist)

**Authorized By:**



**Jaivik S. Tandel**  
(Manager - Operations)

**TEST REPORT**  
**(AMBIENT AIR MONITORING)**

|   |  |                             |                              |
|---|--|-----------------------------|------------------------------|
| <b>Discipline.</b>                        | <b>Chemical Testing</b>  | <b>Name of Group</b>        | <b>Atmospheric Pollution</b> |
| <b>Test Report No.:</b>                   | <b>URAL/24/02/MSPVL/A-002</b>  | <b>Report Issue Date</b>    | 18/02/2024                   |
| <b>Service Request form No.:</b>          | UERL/AIR/SRF/02/A-002  | <b>Service Request Date</b> | 15/02/2024                   |
| <b>Sample ID No.:</b>                     | UERL/AIR/ID/02/A-002   | <b>Field Data Sheet No.</b> | UERL/AIR/FDS/A-24/02/002     |
| <b>Name &amp; Add. of Customer</b>        | <b>M/s. Mundra Solar PV Limited</b><br>Village Vandh & Tunda, Taluka Mundra,<br>Mundra, Kutch 370 435, Gujarat. India. |                             |                              |
| <b>Dates of Sampling:</b>                 | 15/02/2024   | <b>Date of Testing</b>      | 16/02/2024                   |
| <b>Location of Sampling / Monitoring:</b> | <b>Near ETP Guard Basin (MSTPL)</b>  |                             |                              |
| <b>Sampling Method</b>                    | <b>IS:5182(Part-14) and IS:5182 (Part-5)</b>   |                             |                              |

➤ **Details of Master Instrument Used for Monitoring**

| Instrument Id No. | Instrument Name          | Serial Number                   | Cali. Date | Next Cali. Date |
|-------------------|--------------------------|---------------------------------|------------|-----------------|
| UERL/AIR/RDS/27   | Respirable Dust Sampler  | 1751-DTA-2013,<br>1142-DTA-2013 | 31/03/2023 | 30/03/2024      |
| UERL/AIR/FPS/42   | Fine Particulate Sampler | 125-DTD-2013                    | 31/03/2023 | 30/03/2024      |

➤ **General Sampling / Monitoring Observation as per CPCB Guideline**

| Sr. No. | Description                                 | Unit of measurement | Observation |
|---------|---|---------------------|-------------|
| 1.      | Monitoring Duration                         | H                   | 24          |
| 2.      | Flow Rate of PM <sub>10</sub>               | m <sup>3</sup> /min | 1.26        |
| 3.      | Volume of Air Sampled for PM <sub>10</sub>  | m <sup>3</sup>      | 1814.4      |
| 4.      | Volume of Air Sampled for PM <sub>2.5</sub> | m <sup>3</sup>      | 24.05       |

➤ **Test Parameter Results**

| Sr. No. | Test Parameter                       | Unit              | Result | Specific Value (As per NAAQMS) | Test Method       |
|---------|--------------------------------------|-------------------|--------|--------------------------------|-------------------|
| 1.      | Particulate Matter PM <sub>10</sub>  | µg/m <sup>3</sup> | 78     | <b>100</b>                     | IS 5182 (Part-23) |
| 2.      | Particulate Matter PM <sub>2.5</sub> | µg/m <sup>3</sup> | 24     | <b>60</b>                      | IS 5182 (Part-24) |
| 3.      | Sulphur Dioxide as SO <sub>2</sub>   | µg/m <sup>3</sup> | 15.3   | <b>80</b>                      | IS 5182 (Part-22) |
| 4.      | Nitrogen Dioxide as NO <sub>2</sub>  | µg/m <sup>3</sup> | 23.6   | <b>80</b>                      | IS 5182 (Part-6)  |

\*\*\*\*\* End of Report \*\*\*\*\*

**Checked By:**



**Nikunj D. Patel**  
(Chemist)

**Authorized By:**



**Jaivik S. Tandel**  
(Manager - Operations)

**TEST REPORT**  
**(AMBIENT AIR MONITORING)**

| Discipline.                        | Chemical Testing   | Name of Group        | Atmospheric Pollution    |
|------------------------------------|--|----------------------|--------------------------|
| Test Report No.:                   | URAL/24/02/MSPVL/A-003   | Report Issue Date    | 18/02/2024               |
| Service Request form No.:          | UERL/AIR/SRF/02/A-003  | Service Request Date | 15/02/2024               |
| Sample ID No.:                     | UERL/AIR/ID/02/A-003   | Field Data Sheet No. | UERL/AIR/FDS/A-24/02/003 |
| Name & Add. of Customer            | <b>M/s. Mundra Solar PV Limited</b><br>Village Vandh & Tunda, Taluka Mundra,<br>Mundra, Kutch 370 435, Gujarat. India. |                      |                          |
| Dates of Sampling:                 | 15/02/2024   | Date of Testing      | 16/02/2024               |
| Location of Sampling / Monitoring: | <b>Near Occupational Health Center.</b>  |                      |                          |
| Sampling Method                    | <b>IS:5182(Part-14) and IS:5182 (Part-5)</b>   |                      |                          |

➤ **Details of Master Instrument Used for Monitoring**

| Instrument Id No. | Instrument Name          | Serial Number                  | Cali. Date | Next Cali. Date |
|-------------------|--------------------------|--------------------------------|------------|-----------------|
| UERL/AIR/RDS/22   | Respirable Dust Sampler  | 1745-DTB-2013<br>1151-DTB-2013 | 31/03/2023 | 30/03/2024      |
| UERL/AIR/FPS/22   | Fine Particulate Sampler | 129-DTB-2013                   | 31/03/2023 | 30/03/2024      |

➤ **General Sampling / Monitoring Observation as per CPCB Guideline**

| Sr. No. | Description                                 | Unit of measurement | Observation |
|---------|---|---------------------|-------------|
| 1.      | Monitoring Duration                         | H                   | 24          |
| 2.      | Flow Rate of PM <sub>10</sub>               | m <sup>3</sup> /min | 1.28        |
| 3.      | Volume of Air Sampled for PM <sub>10</sub>  | m <sup>3</sup>      | 1843.2      |
| 4.      | Volume of Air Sampled for PM <sub>2.5</sub> | m <sup>3</sup>      | 24.05       |

➤ **Test Parameter Results**

| Sr. No. | Test Parameter                       | Unit              | Result | Specific Value (As per NAAQMS) | Test Method       |
|---------|--------------------------------------|-------------------|--------|--------------------------------|-------------------|
| 1.      | Particulate Matter PM <sub>10</sub>  | µg/m <sup>3</sup> | 68     | <b>100</b>                     | IS 5182 (Part-23) |
| 2.      | Particulate Matter PM <sub>2.5</sub> | µg/m <sup>3</sup> | 22     | <b>60</b>                      | IS 5182 (Part-24) |
| 3.      | Sulphur Dioxide as SO <sub>2</sub>   | µg/m <sup>3</sup> | 15.4   | <b>80</b>                      | IS 5182 (Part-22) |
| 4.      | Nitrogen Dioxide as NO <sub>2</sub>  | µg/m <sup>3</sup> | 20.6   | <b>80</b>                      | IS 5182 (Part-6)  |

\*\*\*\*\* End of Report \*\*\*\*\*

**Checked By:**



**Nikunj D. Patel**  
(Chemist)

**Authorized By:**



**Jaivik S. Tandel**  
(Manager - Operations)

**TEST REPORT**  
**(AMBIENT AIR MONITORING)**

| Discipline.                        | Chemical Testing   | Name of Group        | Atmospheric Pollution    |
|------------------------------------|--|----------------------|--------------------------|
| Test Report No.:                   | URAL/24/02/MSPVL/A-004   | Report Issue Date    | 18/02/2024               |
| Service Request form No.:          | UERL/AIR/SRF/02/A-004  | Service Request Date | 16/02/2024               |
| Sample ID No.:                     | UERL/AIR/ID/02/A-004   | Field Data Sheet No. | UERL/AIR/FDS/A-24/02/004 |
| Name & Add. of Customer            | <b>M/s. Mundra Solar PV Limited</b><br>Village Vandh & Tunda, Taluka Mundra,<br>Mundra, Kutch 370 435, Gujarat. India. |                      |                          |
| Dates of Sampling:                 | 16/02/2024   | Date of Testing      | 17/02/2024               |
| Location of Sampling / Monitoring: | Near Village Vandh   |                      |                          |
| Sampling Method                    | IS:5182(Part-14) and IS:5182 (Part-5)  |                      |                          |

➤ **Details of Master Instrument Used for Monitoring**

| Instrument Id No. | Instrument Name          | Serial Number                  | Cali. Date | Next Cali. Date |
|-------------------|--------------------------|--------------------------------|------------|-----------------|
| UERL/AIR/RDS/27   | Respirable Dust Sampler  | 1751-DTA-2013<br>1142-DTA-2013 | 31/03/2023 | 30/03/2024      |
| UERL/AIR/FPS/42   | Fine Particulate Sampler | 125-DTD-2013                   | 31/03/2023 | 30/03/2024      |

➤ **General Sampling / Monitoring Observation as per CPCB Guideline**

| Sr. No. | Description                                 | Unit of measurement | Observation |
|---------|---|---------------------|-------------|
| 1.      | Monitoring Duration                         | H                   | 24          |
| 2.      | Flow Rate of PM <sub>10</sub>               | m <sup>3</sup> /min | 1.32        |
| 3.      | Volume of Air Sampled for PM <sub>10</sub>  | m <sup>3</sup>      | 1900.8      |
| 4.      | Volume of Air Sampled for PM <sub>2.5</sub> | m <sup>3</sup>      | 24.05       |

➤ **Test Parameter Results**

| Sr. No. | Test Parameter                       | Unit              | Result | Specific Value (As per NAAQMS) | Test Method       |
|---------|--------------------------------------|-------------------|--------|--------------------------------|-------------------|
| 1.      | Particulate Matter PM <sub>10</sub>  | µg/m <sup>3</sup> | 82     | 100                            | IS 5182 (Part-23) |
| 2.      | Particulate Matter PM <sub>2.5</sub> | µg/m <sup>3</sup> | 21     | 60                             | IS 5182 (Part-24) |
| 3.      | Sulphur Dioxide as SO <sub>2</sub>   | µg/m <sup>3</sup> | 16.4   | 80                             | IS 5182 (Part-22) |
| 4.      | Nitrogen Dioxide as NO <sub>2</sub>  | µg/m <sup>3</sup> | 26.3   | 80                             | IS 5182 (Part-6)  |

\*\*\*\*\* End of Report \*\*\*\*\*

Checked By:



**Nikunj D. Patel**  
(Chemist)

Authorized By:



**Jaivik S. Tandel**  
(Manager - Operations)



# ENVIRONMENTAL MONITORING REPORT

Period: March -2024

FOR



**M/s. Mundra Solar Energy Limited**



**At**

**Village Vandh & Tunda, Taluka Mundra,  
Mundra, Kutch 370 435, Gujarat. India.**



**Monitoring Organization**

White House  
Near G.I.D.C. Office, Char Rasta,  
Vapi - 396 195. Gujarat, India.  
Phone : +91 260 2433966 / 2425610  
Email : [response@uerl.in](mailto:response@uerl.in) Website : [www.uerl.in](http://www.uerl.in)

QCI-NABET Accredited EIA  
Consultant Organization

GPCB Recognized Environmental  
Auditor (Schedule-11)

ISO 9001 : 2015  
Certified Company

ISO 45001 : 2018  
Certified Company



**TEST REPORT**  
**(AMBIENT AIR MONITORING)**

| Discipline.                        | Chemical Testing   | Name of Group        | Atmospheric Pollution    |
|------------------------------------|--|----------------------|--------------------------|
| Test Report No.:                   | URAL/24/03/MSEL/A-001  | Report Issue Date    | 22/03/2024               |
| Service Request form No.:          | UERL/AIR/SRF/03/A-001  | Service Request Date | 16/03/2024               |
| Sample ID No.:                     | UERL/AIR/ID/03/A-001   | Field Data Sheet No. | UERL/AIR/FDS/A-24/03/001 |
| Name & Add. of Customer            | <b>M/s. Mundra Solar Energy Limited</b><br>Village Vandh & Tunda, Taluka Mundra,<br>Mundra, Kutch 370 435, Gujarat. India. |                      |                          |
| Dates of Sampling:                 | 16/03/2024   | Date of Testing      | 18/03/2024               |
| Location of Sampling / Monitoring: | Near Canteen Area.   |                      |                          |
| Sampling Method                    | IS:5182(Part-14) and IS:5182 (Part-5)  |                      |                          |

➤ **Details of Master Instrument Used for Monitoring**

| Instrument Id No. | Instrument Name          | Serial Number                  | Cali. Date | Next Cali. Date |
|-------------------|--------------------------|--------------------------------|------------|-----------------|
| UERL/AIR/RDS/25   | Respirable Dust Sampler  | 1744-DTA-2013<br>1127-DTJ-2012 | 31/03/2023 | 30/03/2024      |
| UERL/AIR/FPS/51   | Fine Particulate Sampler | 137-DTD-2013                   | 31/03/2023 | 30/03/2024      |

➤ **General Sampling / Monitoring Observation as per CPCB Guideline**

| Sr. No. | Description                                 | Unit of measurement | Observation |
|---------|---|---------------------|-------------|
| 1.      | Monitoring Duration                         | H                   | 24          |
| 2.      | Flow Rate of PM <sub>10</sub>               | m <sup>3</sup> /min | 1.25        |
| 3.      | Volume of Air Sampled for PM <sub>10</sub>  | m <sup>3</sup>      | 1800.0      |
| 4.      | Volume of Air Sampled for PM <sub>2.5</sub> | m <sup>3</sup>      | 24.05       |

➤ **Test Parameter Results**

| Sr. No. | Test Parameter                       | Unit              | Result | Specific Value (As per NAAQMS) | Test Method       |
|---------|--------------------------------------|-------------------|--------|--------------------------------|-------------------|
| 1.      | Particulate Matter PM <sub>10</sub>  | µg/m <sup>3</sup> | 74     | 100                            | IS 5182 (Part-23) |
| 2.      | Particulate Matter PM <sub>2.5</sub> | µg/m <sup>3</sup> | 22     | 60                             | IS 5182 (Part-24) |
| 3.      | Sulphur Dioxide as SO <sub>2</sub>   | µg/m <sup>3</sup> | 14.1   | 80                             | IS 5182 (Part-22) |
| 4.      | Nitrogen Dioxide as NO <sub>2</sub>  | µg/m <sup>3</sup> | 22.2   | 80                             | IS 5182 (Part-6)  |

\*\*\*\*\* End of Report \*\*\*\*\*

**Checked By:**



**Nikunj D. Patel**  
(Chemist)

**Authorized By:**



**Jaivik S. Tandel**  
(Manager - Operations)

**TEST REPORT**  
**(AMBIENT AIR MONITORING)**

|   |  |                             |                              |
|---|--|-----------------------------|------------------------------|
| <b>Discipline.</b>                        | <b>Chemical Testing</b>  | <b>Name of Group</b>        | <b>Atmospheric Pollution</b> |
| <b>Test Report No.:</b>                   | <b>URAL/24/03/MSEL/A-002</b>   | <b>Report Issue Date</b>    | 22/03/2024                   |
| <b>Service Request form No.:</b>          | UERL/AIR/SRF/03/A-002  | <b>Service Request Date</b> | 16/03/2024                   |
| <b>Sample ID No.:</b>                     | UERL/AIR/ID/03/A-002   | <b>Field Data Sheet No.</b> | UERL/AIR/FDS/A-24/03/002     |
| <b>Name &amp; Add. of Customer</b>        | <b>M/s. Mundra Solar Energy Limited</b><br>Village Vandh & Tunda, Taluka Mundra,<br>Mundra, Kutch 370 435, Gujarat. India. |                             |                              |
| <b>Dates of Sampling:</b>                 | 16/03/2024   | <b>Date of Testing</b>      | 18/03/2024                   |
| <b>Location of Sampling / Monitoring:</b> | <b>Near ETP Guard Basin (MSTPL)</b>  |                             |                              |
| <b>Sampling Method</b>                    | <b>IS:5182(Part-14) and IS:5182 (Part-5)</b>   |                             |                              |

➤ **Details of Master Instrument Used for Monitoring**

| <b>Instrument Id No.</b> | <b>Instrument Name</b>   | <b>Serial Number</b>            | <b>Cali. Date</b> | <b>Next Cali. Date</b> |
|--------------------------|--------------------------|---------------------------------|-------------------|------------------------|
| UERL/AIR/RDS/27          | Respirable Dust Sampler  | 1751-DTA-2013,<br>1142-DTA-2013 | 31/03/2023        | 30/03/2024             |
| UERL/AIR/FPS/42          | Fine Particulate Sampler | 125-DTD-2013                    | 31/03/2023        | 30/03/2024             |

➤ **General Sampling / Monitoring Observation as per CPCB Guideline**

| <b>Sr. No.</b> | <b>Description</b>                          | <b>Unit of measurement</b> | <b>Observation</b> |
|----------------|---|----------------------------|--------------------|
| 1.             | Monitoring Duration                         | H                          | 24                 |
| 2.             | Flow Rate of PM <sub>10</sub>               | m <sup>3</sup> /min        | 1.22               |
| 3.             | Volume of Air Sampled for PM <sub>10</sub>  | m <sup>3</sup>             | 1756.8             |
| 4.             | Volume of Air Sampled for PM <sub>2.5</sub> | m <sup>3</sup>             | 24.05              |

➤ **Test Parameter Results**

| <b>Sr. No.</b> | <b>Test Parameter</b>                | <b>Unit</b>       | <b>Result</b> | <b>Specific Value (As per NAAQMS)</b> | <b>Test Method</b> |
|----------------|--------------------------------------|-------------------|---------------|---------------------------------------|--------------------|
| 1.             | Particulate Matter PM <sub>10</sub>  | µg/m <sup>3</sup> | 80            | <b>100</b>                            | IS 5182 (Part-23)  |
| 2.             | Particulate Matter PM <sub>2.5</sub> | µg/m <sup>3</sup> | 26            | <b>60</b>                             | IS 5182 (Part-24)  |
| 3.             | Sulphur Dioxide as SO <sub>2</sub>   | µg/m <sup>3</sup> | 16.2          | <b>80</b>                             | IS 5182 (Part-22)  |
| 4.             | Nitrogen Dioxide as NO <sub>2</sub>  | µg/m <sup>3</sup> | 24.5          | <b>80</b>                             | IS 5182 (Part-6)   |

\*\*\*\*\* End of Report \*\*\*\*\*

**Checked By:**



**Nikunj D. Patel**  
(Chemist)

**Authorized By:**



**Jaivik S. Tandel**  
(Manager - Operations)

**TEST REPORT**  
**(AMBIENT AIR MONITORING)**

|   |  |                             |                              |
|---|--|-----------------------------|------------------------------|
| <b>Discipline.</b>                        | <b>Chemical Testing</b>  | <b>Name of Group</b>        | <b>Atmospheric Pollution</b> |
| <b>Test Report No.:</b>                   | <b>URAL/24/03/MSEL/A-003</b>   | <b>Report Issue Date</b>    | 22/03/2024                   |
| <b>Service Request form No.:</b>          | UERL/AIR/SRF/03/A-003  | <b>Service Request Date</b> | 16/03/2024                   |
| <b>Sample ID No.:</b>                     | UERL/AIR/ID/03/A-003   | <b>Field Data Sheet No.</b> | UERL/AIR/FDS/A-24/03/003     |
| <b>Name &amp; Add. of Customer</b>        | <b>M/s. Mundra Solar Energy Limited</b><br>Village Vandh & Tunda, Taluka Mundra,<br>Mundra, Kutch 370 435, Gujarat. India. |                             |                              |
| <b>Dates of Sampling:</b>                 | 16/03/2024   | <b>Date of Testing</b>      | 18/03/2024                   |
| <b>Location of Sampling / Monitoring:</b> | <b>Near Occupational Health Center.</b>  |                             |                              |
| <b>Sampling Method</b>                    | <b>IS:5182(Part-14) and IS:5182 (Part-5)</b>   |                             |                              |

➤ **Details of Master Instrument Used for Monitoring**

| <b>Instrument Id No.</b> | <b>Instrument Name</b>   | <b>Serial Number</b>           | <b>Cali. Date</b> | <b>Next Cali. Date</b> |
|--------------------------|--------------------------|--------------------------------|-------------------|------------------------|
| UERL/AIR/RDS/22          | Respirable Dust Sampler  | 1745-DTB-2013<br>1151-DTB-2013 | 31/03/2023        | 30/03/2024             |
| UERL/AIR/FPS/22          | Fine Particulate Sampler | 129-DTB-2013                   | 31/03/2023        | 30/03/2024             |

➤ **General Sampling / Monitoring Observation as per CPCB Guideline**

| <b>Sr. No.</b> | <b>Description</b>                          | <b>Unit of measurement</b> | <b>Observation</b> |
|----------------|---|----------------------------|--------------------|
| 1.             | Monitoring Duration                         | H                          | 24                 |
| 2.             | Flow Rate of PM <sub>10</sub>               | m <sup>3</sup> /min        | 1.23               |
| 3.             | Volume of Air Sampled for PM <sub>10</sub>  | m <sup>3</sup>             | 1771.2             |
| 4.             | Volume of Air Sampled for PM <sub>2.5</sub> | m <sup>3</sup>             | 24.05              |

➤ **Test Parameter Results**

| <b>Sr. No.</b> | <b>Test Parameter</b>                | <b>Unit</b>       | <b>Result</b> | <b>Specific Value (As per NAAQMS)</b> | <b>Test Method</b> |
|----------------|--------------------------------------|-------------------|---------------|---------------------------------------|--------------------|
| 1.             | Particulate Matter PM <sub>10</sub>  | µg/m <sup>3</sup> | 65            | <b>100</b>                            | IS 5182 (Part-23)  |
| 2.             | Particulate Matter PM <sub>2.5</sub> | µg/m <sup>3</sup> | 21            | <b>60</b>                             | IS 5182 (Part-24)  |
| 3.             | Sulphur Dioxide as SO <sub>2</sub>   | µg/m <sup>3</sup> | 13.6          | <b>80</b>                             | IS 5182 (Part-22)  |
| 4.             | Nitrogen Dioxide as NO <sub>2</sub>  | µg/m <sup>3</sup> | 19.6          | <b>80</b>                             | IS 5182 (Part-6)   |

\*\*\*\*\* End of Report \*\*\*\*\*

**Checked By:**



**Nikunj D. Patel**  
(Chemist)

**Authorized By:**



**Jaivik S. Tandel**  
(Manager - Operations)

**TEST REPORT  
(AMBIENT AIR MONITORING)**

| Discipline.                        | Chemical Testing  | Name of Group        | Atmospheric Pollution    |
|------------------------------------|---|----------------------|--------------------------|
| Test Report No.:                   | URAL/24/03/MSEL/A-004   | Report Issue Date    | 22/03/2024               |
| Service Request form No.:          | UERL/AIR/SRF/03/A-004   | Service Request Date | 16/03/2024               |
| Sample ID No.:                     | UERL/AIR/ID/03/A-004  | Field Data Sheet No. | UERL/AIR/FDS/A-24/03/004 |
| Name & Add. of Customer            | M/s. Mundra Solar Energy Limited<br>Village Vandh & Tunda, Taluka Mundra,<br>Mundra, Kutch 370 435, Gujarat. India. |                      |                          |
| Dates of Sampling:                 | 16/03/2024  | Date of Testing      | 18/03/2024               |
| Location of Sampling / Monitoring: | Near Village Vandh  |                      |                          |
| Sampling Method                    | IS:5182(Part-14) and IS:5182 (Part-5)   |                      |                          |

➤ **Details of Master Instrument Used for Monitoring**

| Instrument Id No. | Instrument Name          | Serial Number                  | Cali. Date | Next Cali. Date |
|-------------------|--------------------------|--------------------------------|------------|-----------------|
| UERL/AIR/RDS/27   | Respirable Dust Sampler  | 1751-DTA-2013<br>1142-DTA-2013 | 31/03/2023 | 30/03/2024      |
| UERL/AIR/FPS/42   | Fine Particulate Sampler | 125-DTD-2013                   | 31/03/2023 | 30/03/2024      |

➤ **General Sampling / Monitoring Observation as per CPCB Guideline**

| Sr. No. | Description                                 | Unit of measurement | Observation |
|---------|---|---------------------|-------------|
| 1.      | Monitoring Duration                         | H                   | 24          |
| 2.      | Flow Rate of PM <sub>10</sub>               | m <sup>3</sup> /min | 1.24        |
| 3.      | Volume of Air Sampled for PM <sub>10</sub>  | m <sup>3</sup>      | 1785.6      |
| 4.      | Volume of Air Sampled for PM <sub>2.5</sub> | m <sup>3</sup>      | 24.05       |

➤ **Test Parameter Results**

| Sr. No. | Test Parameter                       | Unit              | Result | Specific Value (As per NAAQMS) | Test Method       |
|---------|--------------------------------------|-------------------|--------|--------------------------------|-------------------|
| 1.      | Particulate Matter PM <sub>10</sub>  | µg/m <sup>3</sup> | 77     | 100                            | IS 5182 (Part-23) |
| 2.      | Particulate Matter PM <sub>2.5</sub> | µg/m <sup>3</sup> | 23     | 60                             | IS 5182 (Part-24) |
| 3.      | Sulphur Dioxide as SO <sub>2</sub>   | µg/m <sup>3</sup> | 15.3   | 80                             | IS 5182 (Part-22) |
| 4.      | Nitrogen Dioxide as NO <sub>2</sub>  | µg/m <sup>3</sup> | 25.1   | 80                             | IS 5182 (Part-6)  |

\*\*\*\*\* End of Report \*\*\*\*\*

Checked By:



Nikunj D. Patel  
(Chemist)

Authorized By:



Jaivik S. Tandel  
(Manager - Operations)