

# **DEENDAYAL PORT AUTHORITY** **(Erstwhile: DEENDAYAL PORT TRUST)**

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EG/WK/4751/Part (Ro-Pax)/65

Dated: 08 / 05 / 2025

To,  
The Director (Environment) & Member Secretary,  
Gujarat Coastal Zone Management Authority,  
Forest & Environment Department,  
Govt. of Gujarat,  
Block No. 14, 8<sup>th</sup> floor,  
Sachivalaya,  
**Gandhinagar – 382 010**

**Sub:** Bifurcation (600 mt waterfront out of total 4800 mt) of Environmental and CRZ clearance issued to M/s Essar Bulk Terminal Limited for Expansion of Port Facility at Hazira, Surat, Gujarat – **Submission of Compliance Report of Stipulated Conditions in CRZ recommendation req.**

- Ref.:**
1. Bifurcation (600 mt water front out of total 4800 mt) of Environmental and CRZ Clearance issued to M/s Essar Bulk Terminal Limited for expansion of port facility at Hazira, Surat, Gujarat by the MoEF&CC, GoI vide letter F.No. 11-46/2011 - IA III dated 4/4/2022
  2. Environmental and CRZ Clearance for the expansion of port facility at Hazira, Surat, Gujarat by M/s Essar Bulk Terminal Ltd by the MoEF&CC, GoI vide letter F.No. 11-46/2011 - IA III dated 06/05/2014
  3. CRZ Recommendation issued by GCZMA, GoG vide letter dated 01/06/2013 to M/s Essar Bulk Terminal
  4. DPA letter no. EG/WK/4751/Part (Ro-Pax)/346 dated 07/08/2023
  5. DPA letter no. EG/WK/4751/Part (Ro-Pax)/36 dated 18/03/2024
  6. DPA letter no. EG/WK/4751/Part (Ro-Pax)/181 dated 02/12/2024

Sir,

It is requested to kindly refer above cited reference for the said subject.

In this regard, it is to state that, the MoEF&CC, GoI, New Delhi vide above mentioned letter dated 4/4/2022 cited at Reference 1 had issued Bifurcation of Environmental and CRZ Clearance accorded to M/s Essar Bulk Terminal Limited vide letter of even number dated 6th May, 2014 in the name of Deendayal Port Trust (Now Deendayal Port Authority) for **"Development of 600 m Waterfront and 24 ha. Back up Area at Hazira, Surat by Deendayal Port Trust (Now: Deendayal Port Authority)".**

In the said letter dated 4/4/2022, the MoEF&CC, GoI under Para 8 has mentioned that, Deendayal Port Authority shall comply with all the specific & general conditions stipulated in the EC & CRZ Clearance of even no. dated 6<sup>th</sup> May, 2014 cited at Reference 2.

.....Cont.....

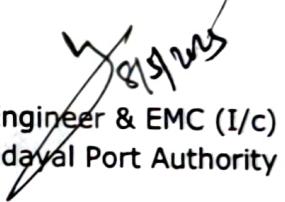
Accordingly, as directed under Specific Condition no. (xv) stipulated in the EC & CRZ Clearance dated 6<sup>th</sup> May, 2014 i.e. All the conditions/ recommendations stipulated by Gujarat Coastal Zone Management Authority (GCZMA) No. ENV 10-2011-877-E dated 01.06.2013 shall be complied with, kindly find enclosed herewith compliance report of stipulated conditions in the CRZ recommendation for the period up to September, 2024 (**Annexure I**) along with necessary annexures, for kind information and record please.

Further, as per the MoEF&CC, Notification S.O.5845 (E) dated 26.11.2018, which stated that "In the said notification, in paragraph 10, in sub-paragraph (ii), **for the words "hard and soft copies" the words "soft copy" shall be substituted**". Accordingly, we are submitting herewith soft copy of the same via e-mail ID [gczma.crz@gmail.com](mailto:gczma.crz@gmail.com) & [direnv@gujarat.gov.in](mailto:direnv@gujarat.gov.in)

This has the approval of Chief Engineer, Deendayal Port Authority.

Yours faithfully,

Encl.: As above

  
Dy. Chief Engineer & EMC (I/c)  
Deendayal Port Authority

**Copy to:**

Shri Amardeep Raju,  
Scientist E, Ministry of Environment, Forest and Climate Change,  
& Member Secretary (EAC-Infra.1),  
Indira Paryavaran Bhawan,  
3rd Floor, Vayu Wing, Jor Bagh Road, Aliganj,  
New Delhi- 110 003;  
**E-mail: [ad.raju@nic.in](mailto:ad.raju@nic.in)**

# **Annexure -I**

## **Annexure I**

### **Compliance report (up to September, 2024)**

**Project: Development of Ro-Ro/Ro-Pax Facility at Hazira by Deendayal Port Authority (600 m water front – 170 m berthing jetty and other allied structure viz. approach jetty, pontoons, link span etc. and 5 Ha. area (onshore facility).**

**Status of Project:** Under Operation Stage (RoRo/RoPax facility: 170 m berthing jetty and other allied structure viz. approach jetty, pontoons, link span etc. and 5 Ha. area (onshore facility)). As per bifurcated EC & CRZ Clearance dated 4/4/2022 issued by the MoEF&CC, GoI, DPA has obtained CCA (PCB Id: 88242) from GPCB vide Order dated 10/07/2023 with validity up to 26/07/2027.

#### **Reference:**

- MoEF&CC, GoI, vide letter dated 4/4/2022 issued Bifurcation of EC&CRZ Clearance accorded to M/s Essar Bulk Terminal Limited vide letter dated 6th May, 2014 by MoEF&CC, GoI in the name of Deendayal Port Trust (Now Deendayal Port Authority).
- Condition no. (xv) under Specific Conditions "*All the conditions/recommendations stipulated by Gujarat Coastal Zone Management Authority (GZCMA) No. ENV 10-2011-877-E dated 01/06/2013*" of Environmental and CRZ Clearance accorded to M/s Essar Bulk Terminal Limited vide letter dated 6<sup>th</sup> May, 2014 by MoEF&CC, GoI.

#### **Status of compliance of conditions stipulated in the CRZ Recommendation dated 01/06/2013:**

<b>Sl. No.</b>	<b>EC Condition</b>	<b>Compliance</b>
1.	The provisions of the CRZ Notification of 2011 shall be strictly adhered to by M/s EBTL. No activity in contradiction to the provisions of the CRZ Notification shall be carried out by M/s EBTL.	With regard to Ro-Ro/Ro-Pax Facility developed by DPA, the provisions of the CRZ Notification of 2011 are being strictly adhered to by DPA and no activity in contradiction to the provisions of the CRZ Notification is being carried out.
2.	Natural drainage system shall be designed in such a way that there shall be no damage to the existing mangrove patches nearby site.	The GMB had allotted land of 24 Hectares to Deendayal Port Authority devoid of Mangroves.  However, due care is being taken so that Natural Drainage System will be maintained.
3.	The Essar Bulk Terminal Limited shall take up mangrove plantation in 500 ha of land in consultation with GEC/Forest department.	As per the directions of the GCZMA and MoEF&CC, GoI, to date, DPA has undertaken a Mangrove Plantation in an area of 1600 Hectares since the year 2005. The details have already been communicated with the earlier compliance reports submitted.

		<p>For regular monitoring of mangroves, DPA engaged M/s GUIDE, Bhuj during the year 2017 &amp; subsequently, vide work order dated 3/5/2021. The final report submitted by M/s GUIDE has already been communicated with the compliance report dated 05/08/2022.</p> <p>Further DPA has assigned work to M/s GUIDE, Bhuj vide work order dated 10/06/2024 for "Monitoring of Mangrove Plantation 1600 Ha carried out by DPA" for the Period of 10/06/2024 to 09/06/2025. The work order is attached herewith as <b>Annexure 1</b>.</p>
4.	Coal, ore and other material handling shall be done through totally closed system.	<p>N/A.</p> <p>DPA developed Ro-Ro/Ro-Pax facility which is being used for public conveyance and also for trailer, trucks, cars etc.</p>
5.	All necessary permissions from different Government Departments/agencies, including GMB, shall be obtained by M/s EBTL, before commencing the activities.	<p>The Ministry of Ports, Shipping &amp; Waterways, Government of India appointed Deendayal Port Authority (Erstwhile: DPT) as its nominee to take over the Project assets under the Concession Agreement (at Ghogha and Dahej terminals and the maintenance dredging at Dahej terminal) and also the assets at Hazira for the Ro-Pax ferry service. For the purpose, the 600m waterfront along with 24 ha backup land is allotted to Deendayal Port Authority by the Gujarat Maritime Board, GoG at Hazira for developing Ro-Ro/Ro-Pax Facility at Hazira Copy of GMB has already been communicated along with last compliance report.</p> <p>As directed in the Bifurcated EC &amp; CRZ Clearance issued to DPA by the MoEF&amp;CC, GoI dated 4/4/2022 , DPA has obtained the CCA from the Gujarat Pollution Control Board (under Water Act 1974 and Air Act 1981) in the name of DPA for development of 600 m waterfront and 24 ha back up area vide GPCB letter no. GPCB/CCA-SRT-2458/ID-88242/74790 dated 13/07/2023 (<b>Copy – Annexure 2</b>).</p>

6.	All the recommendations and suggestions given by WAPCOS in their Environmental Impact Assessment reports for conservation/ protection and betterment of environment shall be implemented strictly by M/s EBTL.	Point noted.
7.	The construction and operational activities shall be carried out in such a way that there is no negative impact on mangroves, if any, and other important coastal / marine habitats.  Construction activity shall be carried out only under the guidance/ supervision of the reputed institute / organization.	The GMB had allotted land of 24 Hectares to Deendayal Port Authority devoid of Mangroves.  However, due care is being taken so that there is no negative impact on mangroves, if any, and other important coastal/ marine habitat.  The Ro-Ro/Ro-pax facility is under operation.
8.	M/s EBTL shall strictly ensure that no rivers are blocked due to any activity at the proposed site.	It is assured that; due care is being taken by DPA so that no rivers are blocked due to any activity at the project site.
9.	The construction debris and / or any other type of waste shall not be disposed of in to the sea, creek or in the CRZ area. The debris shall be removed from the construction site immediately after construction is over.	Currently, the Ro-Ro/Ro-pax facility is under operation.
10.	The construction camps shall be located outside the CRZ area and the construction labour shall be provided with the necessary amenities, including sanitation, water supply and fuel and it shall be ensured that the environmental conditions are not deteriorated by the construction labours.	Currently, the Ro-Ro/Ro-pax facility is under operation.
11.	M/s EBTL shall bear the cost of the external agency that may be appointed by this department for supervision / monitoring of proposed activities and the environmental impacts of the proposed activities.	Currently, the Ro-Ro/Ro-pax facility is under operation.
12.	The groundwater shall not be tapped within the CRZ areas by the EBTL to meet with the water requirements in any case.	Water requirements are met through private tankers.

13.	M/s EBTL shall take up massive greenbelt developmental activities in consultation with Forest Department / GEER Foundation / Gujarat Ecology Commission. A comprehensive plan for this purpose has to be submitted to the Forest and Environment Department.	DPA had already developed required plantation ( <b>area of about 7000 m<sup>2</sup></b> ) within the Ro-Ro/Ro-Pax Terminal area .
14.	The EBTL shall have to take up bio-shielding development programme as part of CSR in consultation with Forest Department / PCCF and an action plan in this regard shall have to be submitted to the MoEF, GoI and this department.	Not Applicable.  DPA developed Ro-Ro/Ro-Pax facility which is being used for public conveyance and also for trailer, trucks, cars etc.
15.	The EBTL shall have to contribute financially for taking up the socio-economic upliftment activities in this region in consultation with the Forest and Environment Department and the District Collector / District Development Officer.	As per the CSR Guidelines issued from time to time by the MoPSW,GoI, DPA since the year 2011-12 had carried out various CSR activities ( <b>Annexure 3</b> ).
16.	A separate budget shall be earmarked for environmental management and socio-economic activities including the greenbelt/ mangrove plantation and details thereof shall be furnished to this Department as well as the MoEF, GoI. The details with respect to the expenditure from this budget head shall also be furnished along with the compliance report.	The allocation made under the scheme of "Environmental Services & Clearance thereof other related Expenditure" during BE 2024-2025 is Rs. 657 Lakhs.  The expenditure made under the scheme of "Environmental Services & Clearance thereof other related Expenditure" is Rs. Approx. Rs. 172 Lakhs from May, 2024 to September 2024.
17.	A separate Environmental Management Cell with qualified personnel shall be created for environmental monitoring and management during construction and operational phases of the project.	DPA is already having dedicated EMC. In this regard, DPA has also appointed expert agency for providing Environmental Experts from time to time. Currently, DPA appointed M/s Precitech Laboratories Pvt. Ltd., Vapi for three years vide work order dated 5/2/2021 ( <b>Copy of work order has already been communicated with the compliance report dated 05/08/2022</b> ).  In addition, DPA has also appointed Manager (Environment) on contractual basis for a period of 3 years & further

		<p>extendable for 2 years (<b>Copy of offer of appointment has already been communicated with the compliance report dated 05/08/2022.</b>)</p> <p>Further, DPA had assigned the work of monthly environmental monitoring to M/s A 2 Z Envirotech vide Work Order dated 15/09/2022. The copy of the monitoring report has already been communicated with the earlier compliance report submitted.</p> <p>Recently, DPA has assigned the work of monthly environmental monitoring to GEMI, Gandhinagar for a period of 3 years vide letter dated 18/04/2023. The work is in progress and the latest monitoring report submitted by GEMI is attached herewith as <b>Annexure 4</b>.</p>
18.	Environmental Audit report indicating the changes, if any, with respect to the baseline environmental quality in the coastal and marine environment shall be submitted every year by M/s EBTL to this department as well as to the MoEF, GoI.	Point noted for compliance.
19.	A six monthly report on compliance of the conditions mentioned in this letter shall have to be furnished by M/s EBTL on a regular basis to this Department as well as to the Ministry of Environment and Forest, Government of India.	It is assured that w.r.t. subject project, six monthly report on compliance of the conditions mentioned in this letter will be furnished by DPA on a regular basis to GCZMA as well as to the Regional Office, MoEF&CC, GoI.
20.	Any other condition that may be stipulated by this Department / Ministry of Environment and Forest, Government of India from time to time for Environmental Protection / management purpose shall also have to be complied with by M/s EBTL.	Point noted.

# **ANNEXURE- 1**

# DEENDAYAL PORT AUTHORITY



[www.deendayalport.gov.in](http://www.deendayalport.gov.in)

Administrative Office Building  
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Ph.: (02836) 220038

NO.EG/WK/4751/Part (Marine Ecology Monitoring)/70 Dated : 10/06/2024

To,  
The Gujarat Institute of Desert Ecology,  
P.O.Box No. 83,  
Opp. Changleshwar Temple, Mundra Road,  
Bhuj (Kachchh)- 370 001,Gujarat (India).  
Tel.: 02832-329408, 235025.  
Tele/Fax: 02832-235027  
**Email: desert\_ecology@yahoo.com**

Kind Attn.: Dr.V.Vijay Kumar, Director, GUIDE, Bhuj.

**Sub:** Monitoring of Mangrove Plantation 1600 Hectares carried out by DPA (Statutory Requirement) reg.

- Ref.:1)** DPA request vide letter no. EG/WK/4751/Part (Marine Ecology Monitoring)/23 dated 12/2/2024.  
**2)** Offer submitted by GUIDE, Bhuj vide letter no. GUIDE/DPA/Offer/ Mang. Plant/13 dated 4/4/2024.

Sir,

Your offer for the subject work submitted vide above referred letter dated 4/4/2024 (**Copy attached – Annexure A**) amounting to Rs. 33,60,000.00 + 18% GST (Rupees Thirty-Three Lakhs and Sixty Thousand only plus eighteen percent GST) with all terms & conditions mentioned in the offer letter, has been accepted by the competent authority in DPA.

## **2. Scope of work :**

Monitoring of Mangrove Plantation (1600 Hectares) carried out by DPA (statutory requirement). The monitoring study will cover components such as density, diversity and abundance. Other variables such as canopy cover, GBH, height, along with the recruitment and regeneration classes will also be investigated. Additionally, carbon sequestration potential of the plantation will also be studied in view of Climate Change mitigation measures.

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**3. The terms of payment:**

- i) 50 % of the project budget should be paid within 15 days from the date of Submission of Inception Report by GUIDE, Bhuj.
- ii) 25% of the project budget should be paid within 15 days from the date of submission of Draft report by GUIDE, Bhuj.
- iii) 25% of the project budget should be paid within 15 days from the date of submission of Final report by GUIDE, Bhuj.

**4. Obligation of DPA :**

- Assistance regarding the statutory clearance from concerned authorities to be rendered by DPA for field visits.
- Study area map along with GPS co-ordinates is to be provided by the DPA.

**5. Time Period:** One year (One time monitoring in a year) i.e. from **10/6/2024** to **09/6/2025**.

**6.** Kindly send the acknowledgement of this work order & start the work immediately.

Thanking you.

Yours faithfully,

Dy. Chief Engineer & EMC (I/c)  
Deendayal Port Authority

**Copy To :** 1) A.O.(W/A) - The proposal has been concurred in by the FA&CAO (under e note no. 11) and approved by the Chairman, under e note no. 13, in the E office file no. Civil Engineering/Pipeline/3125/Regular Monitoring Marine Ecology/2024.

The expenditure shall be charged to the scheme Environmental Services & Clearance thereof (Allocation: 841/587/9744 WC – 5-13001).

2) TPA to CE for kind information of the Chief Engineer, please.

3) RAO, DPA

4) M/s Precitech Laboratorie ,Vapi, Environmental Management Cell to coordinate with GUIDE, Bhuj.

5) Sr. DD (EDP) for hoisting of Work Order on the website of DPA.

# **ANNEXURE- 2**



# GUJARAT POLLUTION CONTROL BOARD

PARYAVARAN BHAVAN, SECTOR 10-A,  
GANDHINAGAR - 382010,  
(T) 079-23232152

By R.P.A.D

In exercise of the power conferred under section-25 of the Water (Prevention and Control of Pollution) Act-1974, under section-21 of the Air (Prevention and Control of Pollution)-1981 and Authorization under rule 3(3) & 6 of the Hazardous Waste (Management and Handling & Trans boundary Movement) Rules,2016 framed under the Environmental (Protection) Act-1986. This Board is empowered to Grant CC&A.

And whereas Board has received consolidated consent application Inward no. **261148** dated **27/07/2022** for the **Consolidated Consent and Authorization** (CC & A) of this Board under the provisions / rules of the aforesaid Acts. Consents & Authorization are hereby granted as under:

## CONSENTS AND AUTHORISATION:

(Under the provisions /rules of the aforesaid environmental acts)

To,

M/s. Deendayal Port Authority

✓ Essar Bulk Terminal Ltd, Adani Hazira Port Road,  
Hazira Gam, Suvali - 394270,  
Tal: Chorasi, Dist: Surat.

1. **Consent Order No. AWII-127510 Date of issue: 10/07/2023.**

2. The consents shall be valid upto 26/07/2027 for the use of outlet for the discharge of treated effluent and emission due to operation facility of the following activity:

Sr. No.	Facility
1	"600 Meter water front including berthing Jetty of 170 meter and 5 Ha back up area for Ro-Ro/Ro-Pax Facility"

## SUBJECT TO SPECIFIC CONDITION:

- I. Industry shall strictly comply with EC issued by Central Authority vide their letter No: F. No. 11-46/2011-IA.III dated: 04/04/2022.
- II. Industry shall manage Solid Wastes generated from industrial activities as per Solid Waste Management Rules-2016 (solid waste as defined in Rule-3(46)).
- III. As per Provisions of Rule 18 of Solid Waste Management Rules-2016 you are directed to make an arrangement in Utilities to replace at least five percent (5%) of your solid fuel requirement by 'refused derived fuel'.
- IV. To do retrofitting at D.G. Sets for emission control and unit shall submit compliance with respect to Board circular No. GPCB/Air Action – 03 (1)(E)/599145, dated 27/08/2021 in the matter of NGT O.A. No. 681/2018.
- V. Unit shall abide by any decision/order in the NGT matter OA No: 59/2022 (WZ)

## 3. CONDITIONS UNDER THE WATER ACT:

- 3.1. Source of Water: Gujarat Water Supply & Sewerage Board (GWSSB).

M/s. Deendayal Port Authority (ID: 88242)

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Clean Gujarat Green Gujarat

Website : <https://gpcb.gujarat.gov.in>

- 3.2. The quantity of the fresh water consumption for industrial purpose shall be NIL.
- 3.3. The quantity of the fresh water consumption for domestic purpose shall not exceed 12 KL/Day.
- 3.4. There shall be no industrial waste water generation from the manufacturing process and other ancillary industrial operations.
- 3.5. The quantity of domestic waste water shall not exceed 8 KL/Day.
- 3.6. Domestic waste water shall be disposed through septic tank/soak pit system.

#### **4. CONDITIONS UNDER THE AIR ACT:**

- 4.1. The following shall be used as a fuel in D.G. Set.

Sr. No.	Fuel	Quantity
1	Diesel	50 Liter/Ihr.

- 4.2. The applicant shall install & operate comprehensive adequate air pollution control system in order to achieve prescribed norms.
- 4.3. The flue gas emission through stack attached to D.G. Set shall conform to the following standards:

Stack No.	Stack Attached to	Stack Height in Meter	Air Pollution Control System	Parameters	Permissible Limit
1	D.G. Set (300 KVA) Stand by	11	Acoustic Enclosure	Particulate Matter SO <sub>2</sub> NO <sub>x</sub>	150 mg /Nm <sup>3</sup> 100 ppm 50 ppm

- 4.4. There shall be no process emission from the manufacturing process as well as any other ancillary process.
- 4.5. Applicant shall comply with National Ambient Air Quality Standards notified by Central Pollution Control Board, New Delhi time to time under the provision of the Environment (Protection) Act-1986 for all the parameters. The concentration of all parameters in the ambient air within the premises of the industry and a distance of 10 meters from the sources (other than the stack/vent) shall not exceed than the permissible limit.

Parameters	Permissible Limit ( $\mu\text{g}/\text{m}^3$ )	
	Annual	24 Hrs Average
Particulate Matter-10 (PM <sub>10</sub> )	60	100
Particulate Matter-2.5 (PM <sub>2.5</sub> )	40	60
SO <sub>2</sub>	50	80
NO <sub>x</sub>	40	80

- 4.6. The applicant shall provide portholes, ladder, platform etc at chimney(s) for monitoring the air emissions and the same shall be open for inspection to/and for use of Board's staff. The chimney(s) vents attached to various sources of emission shall be designed by numbers such as S-1, S-2, etc. and these shall be painted/ displayed to facilitate identification.
- 4.7. The industry shall take adequate measures for control of noise levels from its own sources within the premises so as to maintain ambient air quality standards in respect of noise to less than 75 dB (A) during day time and 70 dB (A) during night time. Daytime is reckoned in between 6 a.m. and 10 p.m. and nighttime is reckoned between 10 p.m. and 6 a.m.

Outward Notice dated 20/03/2023



# GUJARAT POLLUTION CONTROL BOARD

PARYAVARAN BHAVAN, SECTOR 10-A,  
GANDHINAGAR - 382010,  
(T) 079-23232152

## 5. D. G. Sets Conditions:

The D. G. Set shall have acoustic enclosure and shall comply with the standards specified at sr. no. 95 of Schedule-I of the rule-3 of E.P. Rules - 1986 and Noise pollution level as per the Air Act - 1981.

### D. G. Set Standards:

- a. The flue gas emission through stack attached to D. G. Sets shall conform to the following standards.
- b. The minimum height of stack to be provided with each of the generator set shall be  $H = h + 0.2$  (KVA) $^{1/2}$ , where H = Total stack height in meter, h = height of the building in meters where or by the side of which the generator set is installed.
- c. Noise from DG set shall be controlled by providing an acoustic enclosure or by treating the room acoustically, at the users end.
- d. The acoustic enclosure or acoustic treatment of the room shall be designed for minimum 25 dB (A) insertion loss or for meeting the ambient noise standards, whichever is on the higher side (if the actual ambient noise is on the higher side, it may be possible to check the performance of the acoustic enclosure / acoustic treatment, under such circumstances the performance may be checked for noise reduction up to actual ambient noise level preferably, in the night time). The measurement for insertion loss may be done at different points at 0.5 m from the acoustic enclosure/room, and the averaged.
- e. The D.G set shall be provided with proper exhaust muffler with insertion loss of minimum 25 dB (A).
- f. All efforts shall be made to bring down the noise level due to the D. G. Set, outside the premises, within the ambient noise requirements by proper siting and control measures.
- g. Installation of a D. G. Sets must be strictly in compliance with the recommendations of the D. G. Set manufacturer.
- h. A proper routine and preventive maintenance procedure for the D. G. Set should be set and followed in consultation with the DG Sets manufacture which would help prevent noise levels of the DG Set from deteriorating with use.

## 6. AUTHORIZATION as per HAZARDOUS AND OTHER WASTE (MANAGEMENT AND TRANSBoundary) RULES, 2016 Form-2 [See rule 6 (2)]

Form for grant of authorization for occupier or operator handling Hazardous waste

6.1. Authorization order No: AWH-127510 of Issue: 10/07/2023.

6.2. M/s. Deendayal Port Authority is hereby granted an authorization to operate facility for following hazardous wastes on the premises situated at Essar Bulk Terminal Ltd., Adani Hazira Port Road, Hazira Gam, Suvali - 394270, Tal: Chorasi, Dist: Surat.

Sr. No.	Waste (Schedule-I/ Category)	Quantity MT/Year	Facility
1	Used Oil (I/S/I)	0.010	Collection, storage, & sale out to MOEF registered recyclers through online xgn generated manifest system and vehicle registered with VLTS system only.

6.3. The authorization shall be valid up to 26/07/2027.

6.4. The authorization is subject to the conditions stated below and such other conditions as may be specified in the rules from time to time under the Environment (Protection) Act-1986.

M/s. Deendayal Port Authority (ID: 88242)

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Clean Gujarat Green Gujarat

Website : <https://gpcb.gujarat.gov.in>

Outward No: 747490320183

6.5. The authorization is granted to operate a facility for collection, storage within factory premises transportation and ultimate disposal of Hazardous wastes as per condition no.6.2 to the industry having valid CCA of this Board.

## **7. TERMS AND CONDITIONS OF AUTHORISATION**

- 7.1 The applicant shall comply with the provisions of the Environment (Protection) Act-1986 and the rules made there under.
- 7.2 The authorization or its renewal shall be produced for inspection at the request of an officer authorized by the Gujarat Pollution Control Board.
- 7.3 The persons authorized shall not rent, lend, sell, and transfer or otherwise transport the hazardous wastes without obtaining prior permission of the Gujarat Pollution Control Board.
- 7.4 Any unauthorized change in personnel, equipment or working conditions as mentioned in the authorization order by the persons authorized shall constitute a breach of this authorization.
- 7.5 The person authorized shall implement Emergency Response Procedure (ERP) for which this authorization is being granted considering all site specific possible scenarios such as spillages, leakages, fire etc. and their possible impacts and also carry out mock drill in this regard at regular interval of time;
- 7.6 The person authorized shall comply with the provisions outlined in the Central Pollution Control Board guidelines on “Implementing Liabilities for Environmental Damages due to Handling and Disposal of Hazardous Wastes and Penalty”
- 7.7 It is the duty of the authorized person to take prior permission of the Gujarat Pollution Control Board to close down the facility.
- 7.8 An application for the renewal of an authorization shall be made as laid down in rules 6(2) under Hazardous Waste and Other Waste Rules, 2016.
- 7.9 The imported hazardous and other wastes shall be fully insured for transit as well as for any accidental occurrence and its clean-up operation.
- 7.10 The record of consumption and fate of the imported hazardous and other wastes shall be maintained.
- 7.11 The hazardous and other wastes which gets generated during recycling or reuse or recovery or pre-processing or utilization of imported hazardous or other wastes shall be treated and disposed of as per specific conditions of authorization.
- 7.12 The importer or exporter shall bear the cost of import or export and mitigation of damages if any.
- 7.13 Any other conditions for compliance as per the Guidelines issued by the Ministry of Environment, Forest and Climate Change or Central Pollution Control Board from time to time.
- 7.14 The waste generator shall be totally responsible for (i.e. collection, storage, transportation and ultimate disposal) the wastes generated.
- 7.15 Records of waste generation, its management and annual return shall be submitted to Gujarat Pollution Control Board in Form-4 by 30<sup>th</sup> day of June of every year for the preceding period April to March.
- 7.16 In case of any accident, details of the same shall be submitted on Form-11 to Gujarat Pollution Control Board.
- 7.17 As per “Public Liability Insurance Act-91” company shall get Insurance Policy, if applicable.
- 7.18 Empty drums and containers of toxic and hazard material shall be treated as per guideline published for “Management & Handling of discarded containers”. Records of the same shall be maintained and forwarded to Gujarat Pollution Control Board regularly.

Outward Note No. 00000000000000000000000000000000



# GUJARAT POLLUTION CONTROL BOARD

PARYAVARAN BHAVAN, SECTOR 10-A,  
GANDHINAGAR - 382010,  
(T) 079-23232152

- 7.19 In case of transport of hazardous wastes to a facility for (i.e. treatment, storage and disposal) existing in a State other than the State where hazardous wastes are generated, the occupier shall obtain 'No Objection Certificate' from the State Pollution Control Board or Committee of the concerned State of Union Territory Administration where the facility exists.
- 7.20 Unit shall take all concrete measures to show tangible results in waste generation, reduction, avoidance, reuse and recycle. Actions taken in this regard shall be submitted within three months and also along with Form-4.
- 7.21 Industry shall have to display the relevant information with regards to hazardous waste as indicated in the Hon. Supreme Court's Order in W.P. No.657 of 1995 dated 14<sup>th</sup> October, 2003.
- 7.22 Industry shall have to display on-line data outside the main factory gate with regard to quantity and nature of hazardous chemicals being handled in the plant, including wastewater and air emissions and solid hazardous wastes generated within the factory premises.

## 8. GENERAL CONDITIONS:

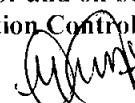
- 8.1 Any change in personnel, equipment or working conditions as mentioned in the consents form/order should immediately be intimated to this Board.
- 8.2 Applicant shall also comply with the general conditions given in annexure I.
- 8.3 Whenever due to accident or other unforeseen act or ever, such emissions occur or is apprehended to occur in excess of standards laid down such information shall be forthwith reported to Board, concerned Police Station, Office of Directorate of Health Service, Department of Explosives, Inspectorate of Factories and local body.
- 8.4 In case of failure of pollution control equipments, the production process connected to it shall be stopped. Remedial actions/measures shall be implemented immediately to bring entire situation normal.
- 8.5 The Environmental Management Unit/Cell shall be setup to ensure implementation on and monitoring of environmental safeguards and other conditions stipulated by statutory authorities. The Environmental Management Cell/Unit shall directly report to the Chief Executive of the organization and shall work as a focal point for internalizing environmental issues. These cells/units also coordinate the exercise of environmental audit and preparation of environmental statements.
- 8.6 The Environmental audit shall be carried out yearly and the environmental statements pertaining to the previous year shall be submitting to this State Board latest by 30th September every year.
- 8.7 The Board reserves the right to review and/or revoke the consent and/or make variations in the conditions, which the Board deems, fit in accordance with Section 27 of the Act.
- 8.8 In case of change of ownership/management the name and address of the new owners/partners/directors/proprietor should immediately be intimated to the Board.
- 8.9 Industry shall have to display the relevant information with regard to hazardous waste as indicated in the Hon. Supreme order in w.p. no. 657 of 1995 dated 14<sup>th</sup> October 2003.

## 9. SPECIFIC CONDITIONS:

- 9.1 The authorized actual user of hazardous and other wastes shall maintain records of hazardous and other wastes purchased in a passbook issued by the State Pollution Control Board along with the authorization.

- 9.2 Handling over of the hazardous and other wastes to the authorized actual user shall be only after making the entry in the passbook of the actual user.
- 9.3 In case of renewal of authorization, a self-certified compliance report in respect of effluent, emission standards and the conditions specified in the authorization for hazardous and other wastes shall be submitted to SPCB.
- 9.4 The occupier of the facility shall comply Standard operating procedure/guidelines published by MOEF&CC or CPCB or GPCB from time to time.
- 9.5 Unit shall comply provisions of E-Waste Management Rules-2016.
- 9.6 The disposal of Hazardous Waste shall be carried out as per the waste Management hierarchy.
- 9.7 The occupiers of facilities shall not store the hazardous and other wastes for a period not exceeding ninety days. Prior permission of the Board shall be obtained for extension of the storage period.
- 9.8 The occupier shall maintain the records of generation, sale, storage, transport, recycling, co processing and disposal of hazardous waste and make available during the inspection.
- 9.9 The transportation of the hazardous waste shall be carried out in GPS mounted dedicated vehicles.

For and on behalf of  
Gujarat Pollution Control Board



(M. R. Macwana)  
Unit Head, Surat

NO: GPCB/CCA-SRT-2458/ID-88242/

Date:

Issued to:

✓ M/s. Deendayal Port Authority  
Essar Bulk Terminal Ltd, Adani Hazira Port Road,  
Hazira Gam, Suvali - 394270,  
Tal: Chorasi, Dist: Surat.

Outward No:747490,13/07/2023

# **ANNEXURE- 3**

**YEAR WISE ACTUAL WORK COSTING OF CSR WORKS APPROVED BY BOARD**

**1) CSR Works executed during the year 2011 – 2012 and year 2012 – 2014. (Upto Dec'21)**

<b>Sr. no</b>	<b>Name of work</b>	<b>Actual cost (Rs in Lakhs)</b>
1.	(a).Road from Dr. Baba Saheb Ambedkar Circle to N.H. 8-A (Via Ganesh Nagar).	Rs.482.65 Lakhs
	(b)Road from S.T. Bus Stand (N.H. 8 – A) to Sunderpuri Cross Road Via Collector Road.	
	(C)Road from N.H. 8 –A Railway Crossing to Maninagar (Along Rly Track).	
	(d)Road from Khanna Market Road (Collector Road) to Green Palace Hotel.	
2.	Construction of Internal Roads at "Shri Ram" Harijan Co-op. Housing Society Ltd. (Nr. Kidana).	
3.	(a)Construction of Cremation Ground and kabristan with other facilities at Vadinar.	Rs 19.44 (Lakhs)
4.	(b)Providing Cement Concrete internal roads in village Vadinar Stage -I.	Rs 16.16 (Lakhs)
	(a)Approach Road provided for developing the Tourism at village Veera near Harsidhi Mata Temple where lot of tourists & Pilgrims visit.	Rs. 4.65 (Lakhs)
	(b)Water Tank along with R.O. provided near by developing Tourism area.	Rs. 30,000 (Thousand)
	(c)Creating facility of flooring and steps surrounding the lake to stop the soil erosion and attract the tourists, at Village Veera.	Rs. 4.80 (Lakhs)
	<b>Total Rs</b>	<b>528 Lakhs</b>

**2) CSR Works for the year 2014-2015.**

<b>Sr. no</b>	<b>Name of work</b>	<b>Actual cost (Rs in Lakhs)</b>
1.	Construction of Community Hall-cum school at Maheshwari Nagar, G'dham	Rs 51.90 Lacs
2.	Renovation of "Muktidham" at Kandla	Rs 10.65 Lacs
3.	Sunderpuri-1 valmiki community hall	Rs 5.00 Lacs
	Sunderpuri-2 valmiki community hall	Rs 5.00 Lacs
	Ganeshnagar Community Hall	Rs 10.00 Lacs
	JagjivanMaheshwari community hall	Rs 10.00 Lacs
	Various works of Road of Sapanagar	Rs 99.19 Lac
4.	Construction of compound wall in the Dam of Jogninar village	Rs 14.48 lacs
5.	In addition above 30 Lakhs as committed in Public Hearing meeting held on 18/12/2013 an amount Rs 30 Lakhs shall also be contributed for the CSR works to be carry out at villages Tuna, Vandi , Rampar, Veera etc.	Rs 30.00 Lacs
	<b>Total Rs.</b>	<b>Rs 236.22 Lacs</b>

**3) CSR Works for the year 2015-2016.**

<b>Sr. no</b>	<b>Name of work</b>	<b>Actual cost (Rs in Lakhs)</b>
1.	Construction of toilets for Girls / Ladies at Khari Rohar village	<b>Rs. 3.00 Lakhs</b>
2.	Construction of Toilets for Girls manatMathak Primary School, Mathak Village	<b>Rs. 3.00 Lakhs</b>
	<b>Total</b>	<b>Rs.6.00 Lakhs</b>

**4) CSR Works for the year 2016-2017.**

<b>Sr. no</b>	<b>Name of work</b>	<b>Actual cost (Rs in Lakhs)</b>
1.	RCC Community Hall at Harshidhi Mata Temple, Veera village, AnjarTaluka	Rs.19.00 Lakhs
2.	Fabricated Community Hall at Sanghad village, AnjarTaluka	Rs.21.00 Lakhs
3.	CSR Works for Shri MaheshwariMeghvadSamaj, Gandhidham at Grave Yard , Behind Redison Hotel.	Rs.8.00 Lakhs
4.	CSR works for ShirDhanrajMatiyadevMuktiDham, Sector-14 , Rotary Nagar, Gandhidham	Rs. 30.50 Lakhs
5.	CSR works for NirvasitHarijan Co-operative Housing Society, Gandhidham.(Health Cum Education Centre)	Rs. 41.00 Lakhs
6.	CSR works for Shri Rotary Nagar Primary school, Gandhidham.	Rs. 2.80 Lakhs
7.	CSR works at NU -4 , NU-10(B) Sapnanagar& Saktinagar, Golden Jubilee Park, at Gandhidham	Rs. 18.00 Lakhs
	<b>Total</b>	<b>Rs 140.30 Lakhs</b>

**5) CSR Works for the year 2017-2018.**

<b>Sr. no</b>	<b>Name of work</b>	<b>Actual cost (Rs in Lakhs)</b>
1.	CSR works at Shri Ganesh Nagar Govt High School, Gandhidham	38.30
2.	Grant Financial contribution for facility of Army cantonment for 50 air coolers at Kutch Border Area.	15.00
3.	CSR works at Tuna & Vandi villages (providing drainage lines under Swachh Bharat Abhiyan)	39.80
4.	CSR works for S.H.N Academy English School ( Managed by Indian Institute of Sindhology -Bharati Sindhu Vidyapeeth), Adipur	40.00
5.	Construction of Internal Road at Bhaktinagar Society, Kidana	
	<b>Total</b>	<b>148.10</b>

**6) CSR Works for the year 2018-19**

<b>Sr. no</b>	<b>Name of work</b>	<b>Actual cost (Rs in Lakhs)</b>
1.	CSR work to Donate 100 Nos of Computers to Daughters of Martyred Soldiers in the country under the "BETI BACHAO BETI PADHAO" program by Atharva Foundation, Mumbai	Rs 24.00 Lakhs
2.	CSR work to Donate ONE (40 Seater) School Bus for Deaf Children Students for the Institute of Mata Lachmi Rotary Society, Adipur	Rs 18.00 Lakhs
3.	CSR work to Providing One R.O Plant with Cooler at Panchyat Prathmik Sala, Galpadar Village for the ANARDE Foundation, Kandla & Gandhidham Center.	Rs 1.50 Lakhs
4.	CSR work for Providing Drainage Line at Meghpar Borichi village, Anjar Taluka	Rs 25.00 Lakhs
5.	CSR work for Construction of Health Centre at Kidana Village	Rs 13.00 Lakhs
6.	CSR work to provide 4 Nos. of Big Dust Bin for Mithi Rohar Juth Gram Panchayat	Rs 3.40 Lakhs
7.	CSR work for Renovation & construction of shed at Charan Samaj, Gandhidham -Adipur.	Rs 10.00 Lakhs
8.	CSR Work for Renovation/Repairing of Ceiling of School Building at A. P Vidhyalay, Kandla	Rs 10.00 Lakhs
9.	CSR work for Construction of Over Head Tank & Providing 10 Nos of Computers (for students) of Navjivan Viklang Sevashray, Bhachau, Kutch	Rs 9.50 Lakhs
10.	CSR work to Provide Books & Tuition fees for Educational facilities to weaker section children of ValmikiSamaj, Kutch	Rs 2.00 lakhs
11.	CSR work to provide Water Purifier & Cooler for the ST. Joseph's Hospital, Gandhidham	Rs 1.50 Lakhs
12.	CSR work for Construction of Second Floor (Phase – I) for Training Centre of "GarbhSanskran Kendra" "Samarth Bharat Abhiyan" of Kutch KalyanSangh, Gandhidham	Rs 37.00 Lakhs
<b>Total cost</b>		<b>Rs 154.90 Lakhs</b>

### **7) CSR Works for the year 2019-20**

<b><u>Sr. no</u></b>	<b><u>Name of work</u></b>	<b><u>Actual cost (Rs in Lakhs)</u></b>
1.	CSR activities for Providing Drainage line at Nani Nagalpar village.	3.00
2.	CSR activities for Development of ANGANWADI Building at School no- 12 at Ward no 3 & 6 at Anjar.	7.00
3.	CSR activities for Improving the facilities of Garden at Sapna Nagar(NU-4) & (NU-10 B),Gandhidham.	18.00
4.	CSR activities for development of School premises of Shri Guru Nanak Edu. Society, Gim.	30.00
5.	CSR activities for the improvement of the facilities at St JOSEPH Hospital &Shantisadan at Gandhidham	20.00
6.	Consideration of Expenditure for running of St Ann's High School at Vadinar of last five years 2014 to 2019 under CSR.	825.00
7.	CSR activities for development of school premises of Shri Adipur Group Kanya Sala no-1 at Adipur	6.50
8.	CSR activities for development of school premises of Shri Jagjivan Nagar PanchyatPrathmiksala, Gandhidham	16.50
9.	CSR activities for development of school premises of Ganeshnagar Government high school, Gandhidham	9.00
10.	CSR activities for improving greenery, increase carbon sequestration and beat Pollution at Kandla, DPA reg.	352.32
11.	CSR activities for providing infrastructures facilities at "Bhiratna Sarmas Kanya Chhatralaya" under the Trust of SamajNav- Nirman at Mirjapur highway, Ta Bhuj.	46.50
<b><u>Total cost</u></b>		<b><u>1333.82</u></b>

### **8) CSR Works for the year 2020-21**

<b><u>Sr. no</u></b>	<b><u>Name of work</u></b>	<b><u>Actual cost (Rs in Lakhs)</u></b>
1.	CSR Proposal for earmarking of 15% Funds for National Maritime Heritage Complex, Lothal, Gujarat (NMHC) from allocated CSR Fund of Rs 3.46 Cr	51.90
	<b><u>Total</u></b>	<b><u>51.90</u></b>

## **9) CSR Works for the year 2021-22**

<b>Sr. no</b>	<b>Name of work</b>	<b>Actual cost (Rs in Lakhs)</b>
1.	CSR Activities for providing Water supply pipe line for drinking water facilities for poor people & Fishermen at VANDI Village.	20
2.	CSR activities for providing facilities in Girls Hostel of Kasturba Gandhi Balika Vidhyalay, Gandhidham. Cost for Construction of compound wall, entrance gate, girls toilets )	30
3.	CSR works for Construction of Auditorium Hall at RSETI (Rural Self Employment Training Institute) at Bhujodi-Bhuj.	16
4.	CSR works for the providing of SOLAR POWER SYSTEM and other facilities for Othe JEEV SEVA SAMITI at Gandhidham.	9.3
5.	CSR Activities for providing HD projector for KANYA MAHA VIDYALAYA, Adipur	1.5
6.	CSR works for Construction of New Building for Setting up of skill development centre at Rajkot (Sewa Gujarat).	250
7.	CSR Works for Ladies Environment Action Foundation (LEAF) Trust for providing infrastructure to the primary school at Gandhinagar District	46.5
8.	CSR works for Providing of Furniture for the School "Shri Galpadar Panchayat Prathmic Kumar group Sala" at Galpadar village,Taluka:Gim	5
<b>Total Cost</b>		<b>378.3</b>

## **10) CSR Works for the year 2022-23**

<b>Sr. no</b>	<b>Name of work</b>	<b>Actual cost (Rs in Lakhs)</b>
1.	CSR work for providing One Bore hole with construction one room along with Motor pump at Village MOTI NAGALPAR, Anjar.	18
2.	CSR work for Construction of Shamashan bhoomi (Crematorium) at Gandhidham.	49.5
3.	CSR work for providing metallic sheet DOME in Community Hall at Old Sunderpuri for Shri Juni Sundarpuri Maheshwari Samaj at Gandhidham.	15
4.	CSR Activities for construction of Samajwadi at village: Rampar,Taluka:Anjar.	15
5.	Financial assistance under CSR for providing basic facilities at Gandhidham GSRTC bus station.	25
6.	CSR Activities for construction of School Building for physically disabled, deaf & mute children, Shri & Shrimati Chhaganlal Shyamjibhai Virani Behera Munga Shala Trust, Virani Deaf School at Rajkot.	5
7.	CSR work for construction of new Administrative staff block for the Maitri Maha Vidhyalaya, Adipur.	64.65
8.	Financial support under CSR for providing 60 seater school bus for "Aadhaar Sankul", Manav Seva Trust,Gandhidham.	25
9.	CSR work for extension of Night shelter cum old age home for "DADA BHAGWANDAS ADVANI TRUST" Adipur.	78
10.	Financial assistance under CSR for Rooftop Solar System & Afforestation under clean energy & sustainable development in 10 villages around DPA	63.72
<b>Total Cost</b>		<b>358.87</b>

**11) CSR Works for the year 2023-24 till September**

<b>Sr. no</b>	<b>Name of work</b>	<b>Actual cost (Rs in Lakhs)</b>
1.	CSR works for Shree Kachchh Mahila Kalyan Kendra, Bhuj-Kutch	55
2.	CSR Activities for Installation of 125 no. Sanitary Pad Vending Machines at Women Hostels,NGOs etc, in Kutch District	15
3.	CSR Fund for Vadinar Village & surrounding	128.54
4.	CSR Activities for Girls Hostel at Kasturba Gandhi Balika Vidhyalaya At Shinay, Taluka:Gim.	33.25
5.	CSR request for Allotment of fund for construction of Community hall at Adipur for Maheshwari Meghval Samaj.	25
6.	CSR Request for requirement of funds for renovation work in Sector-7, Gandhidham (Aryasamaj Gandhidham)	30
7.	CSR Request for providing "Antim Yatra Bus" & Mortuary Cabinet Morgue" for Adipur-Gandhidham from CSR Funds,	25
8.	CSR Request for creation of a Children park at Gandhidham Military Station, Gandhidham	15
9.	CSR Request for construction of Toilet block units for Girls & Boys NAV JIVAN VIKLANG SEVA SHREY Bhachau	3.04
10.	CSR Request for laying Synthetic Athletic track in Galpadar and to Provide One E-Kart facility for Conveyance of youths at BSF Campus, Gandhidham	75
11.	CSR request for submitted by AAS, Indore for solid waste Management at Gandhidham & Kandla.	49.93
12.	CSR request from Trikamsaheb Manav Seva Trust at Madhapar Near Bhuj for grant for Construction of Community Hall, Compound Wall etc.	40
13.	CSR Request for construction of Dome shaped shed at Rampar Village Prathmik Shala,Rampar	24
14.	CSR Fund for development of School premises of Shri Guru Nanak Education	4.5
15.	CSR Request for conducting Awareness campaigns on T.B. Prevention & treatment, Mumbai	60
16.	CSR Request for fund under CSR for Railway Institute, Gandhidham, Western	5
17.	CSR Proposal project for Sanitary Pad Making Machine for School Girls, Anjar	12.39
18	CSR Funds for Building Construction of girl's hostel (Kanya Chhatralay) @Luni,Akhil Kutch Ganesh Sevak Sarvajanik Trust-Luni	₹ 50.00
19	CSR request for amenities for Development of sports facilities Through CSR Funds, Navy Head Quarter Porbandar,NAVYat Navy Head Quarter, Porbandar	₹ 47.18
20	CSR request for financial support under CSR for " Organizing Programs on Skill Development",Gandhidham Collegiate Board, Adipur	₹ 98.76
21	CSR fund for construction work for Community hall(samajvadi for cause of human services).Kidana,Kutch Andhra Seva Trust, Gandhidham	₹ 20.00
22	CSR funds for Karam Educational Complex@mirapar,Bhuj,Akhil Kutch MAheshwari Vikas Sangh, Bhuj(Karam Sankul EDU)	₹ 50.00
23	CSR fund for vadinar village & surrounging for prathmik shala,Vadinar prathmik shala managed by dist. Panchayat	₹ 28.47
24	CSR fund for repairing of construction for school,Shree vadinar vadi school vadinar	₹ 16.04
25	CSR Project proposal for Outdoor flooring and laundry Construction for mentally Disturbed women, St. Joseph's Hospital Trust-Gandhidham ,St, Joseph's Hospital trust-Gandhidham	₹ 29.16
26	CSR request for creation of Bio Diversity Miyawaki Forest at Gandhidham Military Station, Gandhidham	₹ 57.64

27	CSR Funds request for the Construction of Hall/Dome for Indoor games at Gandhidham,Shri kutch Deshiya Saraswat Brahmin mahasthan trust-Gandhidham.	₹ 20.00
28	CSR Request for repairing of School shed, R.O. Plant, School Colour Work at Ganeshnagar Panchayat Prathmik kumar shala At Gandhidham-Kutch.,Shri Ganeshnagar Panchayat Prathmik Kumar Shala Gandhidham	₹ 8.00
29	CSR request for livelihoods Development of rural women at Kutch Area, ,BAIF Institute for Sustainable Livelihoods and development, pune	₹ 8.71
30	Improvement of village pond at Kidana, Taluka: Gandhidham.,Deputy collector & sub divisional magistrate office , anjar	₹ 72.90
31	CSR request for construction of Gym and Indoor Badminton Court as well as Synthetic Tennis Court,Anjar	₹ 77.90
32	Sanik Kaleyán Board bhuj and Jamnagar	₹ 44.00
33	NMHC Projects	₹ 605.80
	<b><u>Total Cost</u></b>	<b><u>Rs.1835.21 Lakh</u></b>

# **ANNEXURE- 4**



Forests & Environment Department  
Government of Gujarat

## Monthly Environmental Monitoring Plan (EMP report)

For

**“Preparing and Monitoring of Environmental Monitoring and Management Plan for Deendayal Port Authority at Dahej-Hazira-Ghogha for a period of 3 years”**

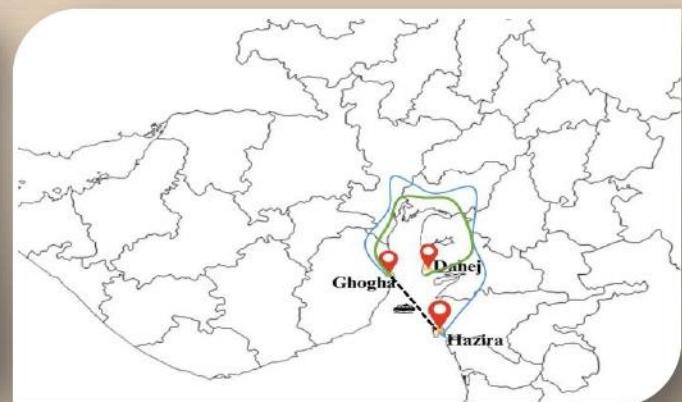
***(13<sup>th</sup> July to 12<sup>th</sup> August 24)***

***(Final Report)***

Report Issue No: GEMI/835(7)/2024/122

Submitted to:

**Deendayal Port Authority (DPA), Kandla**



**Gujarat Environment Management Institute (GEMI)**

**(An Autonomous Institute of Government of Gujarat)**



GEMI Bhavan, 246-247, GIDC Electronic Estate, Sector-25, Gandhinagar-382025

**“An ISO 9001:2015, ISO 14001:2015 and ISO 45001:2018 Certified Institute”**



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## ABOUT THIS DOCUMENT

Gujarat Environment Management Institute (GEMI) has been assigned with the project **“Preparing and Monitoring of Environmental Monitoring and Management Plan for Deendayal Port Authority at Dahej-Hazira-Ghogha for a period of 3 years” (Final EMP report for 13<sup>th</sup> July to 12<sup>th</sup> August 24) by Deendayal Port Authority, Kandla.** Under the said project the report titled “Monthly Environmental Monitoring Plan Report (*Final EMP report for 13<sup>th</sup> July to 12<sup>th</sup> August 24*)” is prepared.

Name of the Report: Monthly Environmental Monitoring Plan (EMP report) for “Preparing and Monitoring of Environmental Monitoring and Management Plan for Deendayal Port Authority at Dahej-Hazira-Ghogha for a period of 3 years”  
*(Final EMP report for 13<sup>th</sup> July to 12<sup>th</sup> August 24)*

Version: 1.0

Report Issue No: GEMI/835(7)/2024/122

Report Issue Date: 13/09/2024

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## Chapter 1. Introduction

## 1.1 Introduction

Deendayal Port Authority (DPA), Erstwhile Kandla Port Trust, is one of the 13<sup>th</sup> major ports in India and is located on the west coast of India, in the Gulf of Kutch at 23°00'1"N and 70°01'3"E in the state of Gujarat in India. DPA has commissioned Ro-Ro/Ro-Pax facilities at Hazira and Ghogha, Gujarat. This waterfront is proposed to be operated for berthing and unberthing of ROPAX Ferry vessels to load and unload vehicles along with embarking and disembarking passengers. The travel time between Ghogha and Hazira has reduced from 10 hours to 3.15 hours with the start of the Ro-Ro ferry service. The road distance from Surat to Bhavnagar is 360 kilometers. Whereas the sea route distance is 67 nautical miles only. So, Ro-Ro/Ro-Pax vessels are deployed to reduce travel time and thereby, reduce carbon emission. In compliance with the conditions stipulated in statutory clearances viz. Environmental/CRZ Clearance from the Ministry of Environment & Forest, CRZ recommendations from the state Forest & Environment Department, and NOC from the State Pollution Control Board (SPCB), and to ensure implementation of the project in an environmentally sustainable manner in & around the project site, it is important to monitor the environmental status and prepare an effective environmental monitoring and management plan of the port facility for sustainable development.

In this regard, DPA proposes to formulate a detailed and effective environmental monitoring and management plan by conducting monthly environmental monitoring for its onward submission to the statutory bodies.

Under the said study, monitoring of the various aspects of the environment such as Ambient air, DG stack emissions, meteorology, drinking water, soil, noise, and marine environment- Water, Sediment & Ecological characteristics for the locations at Hazira, Dahej & Ghogha for 3 years needs to be carried out.

**This report includes the monthly Environmental Monitoring Plan (EMP) report for monitoring carried out for the month of “13<sup>th</sup> July to 12<sup>th</sup> August 24”.**

## 1.2 Locations for environmental monitoring

Finalized monitoring locations as per the preliminary site visit report are shown in **Table 1** and **Figures 1 to 3**. The monitoring photographs are shown in **Figure 4**.

**Table 1: Locations of environmental monitoring components**

Locations	Sample code	Latitude	Longitude
<b>Ambient Air Monitoring</b>			
Admin building at Ghogha Ro-Ro ferry	AM-G	21.673483	72.284497
Terminal building at Hazira Ro-Ro ferry	AM-H1	21.077458	72.657147
Staff accommodation at Ro-Ro ferry at Hazira	AM-H2	21.0775717	72.6551994
Admin building at Ro-Ro ferry service at Dahej	AM-D	21.666383	72.561889
<b>Drinking Water Monitoring</b>			
Canteen building at Ghogha Ro-Ro ferry	DW-G	21.677216	72.283060
Terminal building at Hazira Ro-Ro ferry	DW-H	21.077399	72.657189
Canteen building at Ro-Ro ferry service at Dahej	DW-D	21.66435	72.563489
<b>Noise Monitoring</b>			
Admin building at Ghogha Ro-Ro ferry	N-G	21.673481	72.284464
Terminal building at Hazira Ro-Ro ferry	N-H1	21.077458	72.657147
Staff accommodation at Ro-Ro ferry at Hazira	N-H2	21.0775717	72.6551994
Admin building at Ro-Ro Ferry Service at Dahej	N-D	21.666383	72.5561889
<b>Meteorological Data Monitoring</b>			
Admin building at Ghogha Ro-Ro ferry	M-G	21.673483	72.284497
Terminal building at Hazira Ro-Ro ferry	M-H	21.077458	72.657147
Admin building at Ro-Ro Ferry Service at Dahej	M-D	21.666383	72.561889
<b>Soil Quality Monitoring</b>			
Terminal building at Ghogha Ro-Ro ferry	S-G	21.67496	72.284388
Near Terminal building at Hazira Ro-Ro ferry	S-H	21.076353	72.657294
Ro-Ro ferry service at Dahej	S-D	21.666037	72.563489
<b>Marine Water, Ecology and Sediment Monitoring</b>			
Near Ro-Ro ferry terminal at Ghogha	MA-G1	21.67954	72.29433
Away from Ro-Ro ferry terminal at Ghogha and along the ferry route from Ghogha to Hazira	MA-G2	21.665054	72.336313
Near Ro-Ro ferry terminal at Hazira	MA-H1	21.07577	72.65839
Away from Ro-Ro ferry terminal at Hazira and along the ferry route from Hazira to Ghogha	MA-H2	21.072114	72.657794
Near Ro-Ro ferry Service at Dahej	MA-D	21.65988	72.56365
<b>DG stack emission Monitoring</b>			
Near substation-3 at Ghogha Ro-Ro ferry	DG-G	21.6739638	72.2835000
Generator Room near Terminal building at Hazira Ro-Ro ferry	DG-H	21.0775041	72.6563279
Near Substation-1 at Dahej Ro-Ro ferry	DG-D	21.665902	72.562056

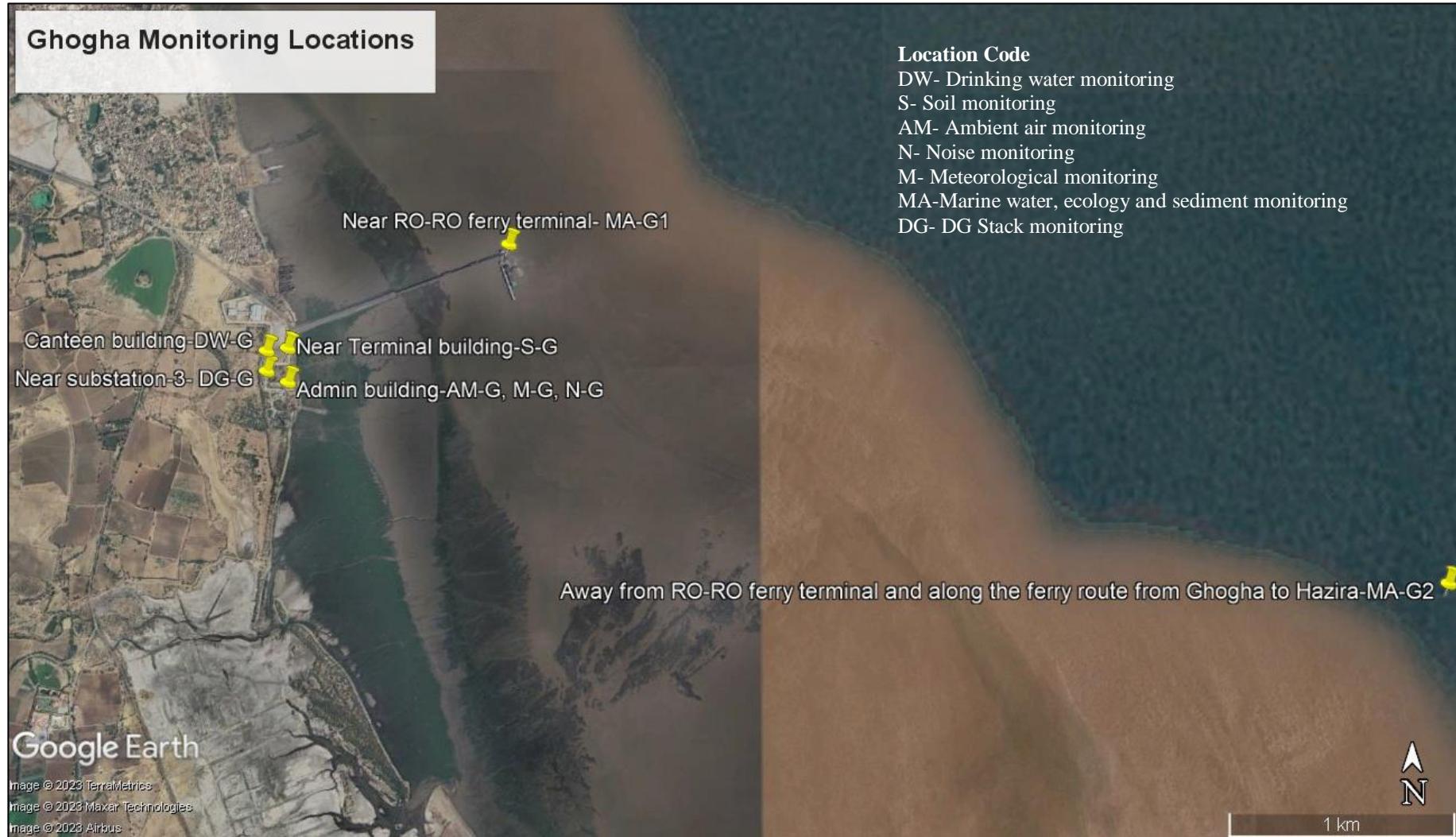


Fig. 1: Sampling locations at Ghogha



**Fig. 2: Sampling locations at Hazira**



Fig. 3: Sampling locations at Dahej



Fig. 4: Photographs of environmental monitoring

### **1.3 Details of environmental monitoring components**

Detailed plan of environmental monitoring components and its parameters is shown in **Table 2.**

**Table 2: Detailed plan of environmental monitoring components**

<b>Sr. No</b>	<b>Parameter</b>	<b>No. of locations</b>	<b>Frequency</b>	<b>Parameters</b>
1.	Ambient air quality monitoring (4 locations)	1 at Ghogha, 2 at Hazira and 1 at Dahej	Twice a week	PM <sub>10</sub> , PM <sub>2.5</sub> , Sulphur dioxide, Oxides of nitrogen, Carbon monoxide
			Once in a month	Hydrocarbons, Benzene, Volatile Organic Compound, Non-methane VOC
2.	Drinking water monitoring (3 locations)	1 at Ghogha, 1 at Hazira and 1 at Dahej	Once in a month	Odor, Color, pH, Turbidity, TDS, TSS, Conductivity, Chloride, Calcium as Ca, Magnesium, Total hardness, Sulphate as SO <sub>4</sub> , Nitrate as NO <sub>3</sub> , Nitrite as NO <sub>2</sub> , Fluoride as F, Sodium as Na, Iron as Fe, Potassium as K, Manganese, Total chromium, Hexavalent chromium, Copper, Cadmium, Arsenic, Lead, Zinc, Mercury, Salinity, Free residual chlorine, Microbiological (MPN)
3.	Noise level monitoring (4 locations)	1 at Ghogha, 2 at Hazira and 1 at Dahej	24 hrs period once in a month	Leq (Day) & (Night)
4.	Soil quality monitoring (3 locations)	1 at Ghogha, 1 at Hazira and 1 at Dahej	Once in a month	Total Organic Matter, Organic Carbon, Inorganic Phosphate, Texture, pH, Conductivity, Particle size distribution & Silt content, SAR, Water holding capacity, Aluminum, Chromium, Nickel, Copper, Zinc, Cadmium, Lead, Arsenic, Mercury
5.	Meteorological data monitoring (3 locations)	1 at Ghogha, 1 at Hazira and 1 at Dahej	Daily	Wind speed, Wind direction, Rainfall, Humidity, Temperature, Solar radiation
6.	DG emissions (3 locations)	1 at Ghogha, 1 at Hazira and 1 at Dahej	Once in a month	Particulate Matter, Sulphur dioxide, Oxides of nitrogen, Carbon monoxide, Carbon dioxide
7.	Marine water quality (5 locations)	2 at Ghogha, 2 at Hazira	Once in a month	Odor, Color, pH, Turbidity, TDS, TSS, Conductivity, DO, Particulate organic carbon, COD, BOD, Silica,

<b>Sr. No</b>	<b>Parameter</b>	<b>No. of locations</b>	<b>Frequen cy</b>	<b>Parameters</b>
		and 1 at Dahej		Phosphate, Sulphate as SO <sub>4</sub> <sup>-</sup> , Nitrate as NO <sub>3</sub> , Nitrite as NO <sub>2</sub> , Sodium as Na, Potassium as K, Manganese, Iron as Fe, Total chromium, Hexavalent chromium, Copper, Cadmium, Arsenic, Lead, Zinc, Mercury, Oil & grease, Floating material (scum), Microbiological (MPN), Density
8.	Marine water quality for biological monitoring (5 locations)	2 at Ghogha, 2 at Hazira and 1 at Dahej	Once in a month	Chlorophyll-a, Pheophytin, Productivity (Net & Gross), Biomass; Relative abundance, species composition and diversity of phytoplankton; Relative abundance, species composition and diversity of zooplankton; Relative abundance, species composition and diversity of benthic invertebrates; (Meio, Micro and Macro benthos), Particulate oxidizable organic carbon, Secchi disk depth
9.	Sediments quality (5 locations)	2 at Ghogha, 2 at Hazira and 1 at Dahej	Once in a month	Texture, Organic Matter, Inorganic Phosphate, Silica, Phosphate, Sulphate, Nitrite, Nitrate, Calcium, Magnesium, Sodium, Potassium, Aluminum, Copper, Chromium, Nickel, Zinc, Cadmium, Lead, Arsenic, Mercury

#### **1.4 Sample collection, preservation, storage and transportation to GEMI's Laboratory**

Sampling of water and wastewater samples was carried out by 'GEMI's sampling protocol for water and wastewater' approved by the Government of Gujarat vide letter no. ENV-102013-299-E dated 24-04-2014 under the provision of the Water (Preservation and control of pollution) Act 1974. Soil sampling was conducted as per the 'Soil sampling manual by GEMI' published in November 2016. Whereas, for the other components of the environment such as ambient air, noise, & marine ecology, the guidelines/manuals brought out by CPCB were followed. The sampling was carried out by GEMI's trained manpower. The details of the environmental samples and their respective standards are summarized in **Table 3.**

**Table 3: Details of sample collection and analysis method for each environmental component**

Sr. No.	Type of sample	Manual/ Standards and Protocols	Instruments
1.	Ambient air	IS 5182 (Part 23): 2006	PM <sub>10</sub>
		IS:5182 (Part:24):2019	PM <sub>2.5</sub>
		IS:5182 (Part-2):2001	SO <sub>x</sub>
		IS:5182 (Part-6):2006	NO <sub>x</sub>
		GEMI/SOP/AAQM/11; Issue no 01, Issue date 17.01.2019: 2019	Carbon monoxide
		IS 5182 (Part 11): 2006	Benzene
		IS 5182 (Part 11): 2006	VOC
		IS: 5182 (Part 17): 1979	Hydrocarbon
		IS: 5182 (Part 17): 1979	Non-methane VOC
2.	DG emissions	IS: 11255 and USEPA Method	Sensor based flue gas analyzer (Make: TESTO, Model 350) Stack Monitoring Kit
3.	Meteorological data	Installation of automatic weather stations to get periodic meteorological data as per the requirement	Automatic Weather Stations (AWS)

4.	Water (Drinking water, Surface water)	Sampling protocol for water & wastewater approved by the Government of Gujarat vide letter no. ENV-102013-299-E dated 24-04-2014 under the provision of Water (Preservation and Control of Pollution) Act 1974.	For drinking water- Titration apparatus, pH meter and conductivity meter Sample collection method: Grab sampling For marine water - Niskin sampler
5.	Soil and Marine sediments	Soil sampling manual by GEMI published in November 2016	For sediment sample collection –Van veen grab sampler
6.	Noise	IS 9989:2014	Noise meter
7.	Marine ecology	Technical guidance book – An introduction to aquatic biomonitoring using macro-invertebrates,2021 by CPCB	The sampling of the benthic invertebrates will be carried out with the help of D-frame nets, whereas the sampling of zooplankton and phytoplankton shall be carried out with the help of plankton nets (60 micron and 20 micron).

## **1.5 Environmental monitoring plan for 13<sup>th</sup> July to 12<sup>th</sup> August 2024**

The Environmental monitoring was carried out for Ambient air, Soil, Drinking water, Noise, Meteorology, DG stack, and Marine environment – water, sediment and ecology. The detailed environmental monitoring plan for month of 13<sup>th</sup> July to 12<sup>th</sup> August'24 is given in **Table 4**.

**Table 4: Environmental monitoring plan for Dahej, Hazira, and Ghogha for 13<sup>th</sup> July to 12<sup>th</sup> August 24**

<b>Sampling and Monitoring Team</b>		Mr. Ashish Patat- Project manager (Ghogha), Mr. Pritish Shrimali- Project manager (Hazira), Mr. Jash Patel - Project manager (Dahej)			
<b>Task</b>	<b>Actual Monitoring Dates</b>				<b>Project sites</b>
	<b>Dahej</b>	<b>Hazira-1</b>	<b>Hazira-2</b>	<b>Ghogha</b>	
<b>Monitoring of Drinking water, Soil, Noise, Marine Water, Sediments and ecology</b>					
Soil monitoring	18-07-24	18-07-24	-	23-07-24	
Drinking water	18-07-24	18-07-24	-	23-07-24	
Marine water and marine sediments and marine ecology	18-07-24	18-07-24	18-07-24	23-07-24	
Noise monitoring	20-07-24	18-07-24	19-07-24	20-07-24	
<b>Monitoring of DG stack</b>	25-07-2024	16-07-2024	-	02-08-2024	
<b>Monitoring of ambient air</b>	15-07-2024	15-07-2024	15-07-2024	15-07-2024	
	18-07-2024	19-07-2024	19-07-2024	19-07-2024	
	23-07-2024	23-07-2024	23-07-2024	22-07-2024	
	25-07-2024	25-07-2024	25-07-2024	30-07-2024	
	30-07-2024	30-07-2024	30-07-2024	01-08-2024	
	01-08-2024	01-08-2024	01-08-2024	05-08-2024	
	05-08-2024	05-08-2024	05-08-2024	07-08-2024	
<b>Meteorological monitoring</b>	13 <sup>th</sup> July to 12 <sup>th</sup> August '24				

## Chapter 2. Results and observations of environmental monitoring at Dahej, Hazira & Ghogha

## 2.0 Monitoring of various environmental components

Monitoring of various environment components was carried out at the locations listed in **Table 1** above. Details of each component have been mentioned below.

### 2.1 Ambient air monitoring

Air monitoring was carried out at four locations, 1 at Dahej, 2 at Hazira, and 1 at Ghogha. The monitoring cycle was twice a week for 24-hour sampling. Sampling for benzene, hydrocarbon, non-methane VOC, and VOC was done once in a month. **Table 5** shows the results of ambient air monitoring.

**Table 5: Result of ambient air quality monitoring**

Sr. No.	Parameters	NAAQ Standards, 2009 (Industrial, Residential, Rural & Other areas) for 24 hours	Location code: (AM-D)							
			Sampling Date							
			15-07-2024	18-07-2024	23-07-2024	25-07-2024	30-07-2024	01-08-2024	05-08-2024	07-08-2024
1	PM <sub>10</sub> ( $\mu\text{g}/\text{m}^3$ )	100 ( $\mu\text{g}/\text{m}^3$ )	120.78	42.11	52.18	76.67	129.28	93.39	72.48	101.13
2	PM <sub>2.5</sub> ( $\mu\text{g}/\text{m}^3$ )	60 ( $\mu\text{g}/\text{m}^3$ )	29.06	11.41	9.47	11.45	13.99	20.95	14.07	18.05
3	SO <sub>2</sub> ( $\mu\text{g}/\text{m}^3$ )	80 ( $\mu\text{g}/\text{m}^3$ )	<5	<5	<5	<5	<5	<5	18.82	14.02
4	NO <sub>x</sub> ( $\mu\text{g}/\text{m}^3$ )	80 ( $\mu\text{g}/\text{m}^3$ )	21.82	6.28	7.14	6.34	8.80	<6	6.98	<.6
5	CO ( $\mu\text{g}/\text{m}^3$ )	2000 ( $\mu\text{g}/\text{m}^3$ )	470	490	490	480	510	480	500	470

Sr. No.	Parameters	NAAQ Standards, 2009 (Industrial, Residential, Rural & Other areas) for 24 hours	Location code: (AM-H1)							
			Sampling Date							
			15-07-2024	19-07-2024	22-07-2024	25-07-2024	30-07-2024	01-08-2024	05-08-2024	07-08-2024
1	PM <sub>10</sub> ( $\mu\text{g}/\text{m}^3$ )	100 ( $\mu\text{g}/\text{m}^3$ )	146.56	86.80	92.58	72.62	98.86	76.81	52.01	54.00
2	PM <sub>2.5</sub> ( $\mu\text{g}/\text{m}^3$ )	60 ( $\mu\text{g}/\text{m}^3$ )	24.46	21.81	19.56	22.47	18.37	19.29	22.14	20.75
3	SO <sub>2</sub> ( $\mu\text{g}/\text{m}^3$ )	80 ( $\mu\text{g}/\text{m}^3$ )	<5	<5	<5	<5	<5	<5	7.51	11.80
4	NO <sub>x</sub> ( $\mu\text{g}/\text{m}^3$ )	80 ( $\mu\text{g}/\text{m}^3$ )	<6	<6	<6	<6	<6	6.15	<6	<6
5	CO ( $\mu\text{g}/\text{m}^3$ )	2000 ( $\mu\text{g}/\text{m}^3$ )	510	520	490	510	490	470	470	520

Sr. No.	Parameters	NAAQ Standards, 2009 (Industrial, Residential, Rural& Other areas) for 24 hours	Location code: (AM-H2)							
			Sampling Date							
			15-07-2024	19-07-2024	22-07-2024	25-07-2024	30-07-2024	01-08-2024	05-08-2024	07-08-2024
1	PM <sub>10</sub> ( $\mu\text{g}/\text{m}^3$ )	100 ( $\mu\text{g}/\text{m}^3$ )	132.25	93.63	84.43	74.59	88.94	79.48	59.67	63.28
2	PM <sub>2.5</sub> ( $\mu\text{g}/\text{m}^3$ )	60 ( $\mu\text{g}/\text{m}^3$ )	32.49	19.36	21.26	20.31	22.57	24.06	19.17	23.42
3	SO <sub>2</sub> ( $\mu\text{g}/\text{m}^3$ )	80 ( $\mu\text{g}/\text{m}^3$ )	<5	<5	<5	<5	<5	<5	<5	<5
4	NO <sub>x</sub> ( $\mu\text{g}/\text{m}^3$ )	80 ( $\mu\text{g}/\text{m}^3$ )	<6	<6	<6	<6	<6	8.78	<6	<6
5	CO ( $\mu\text{g}/\text{m}^3$ )	2000 ( $\mu\text{g}/\text{m}^3$ )	490	530	520	480	510	490	480	540

Sr. No.	Parameters	NAAQ Standards, 2009 (Industrial, Residential, Rural& Other areas) for 24 hours	Location code: (AM-G)							
			Sampling Date							
			15-07-2024	19-07-2024	22-07-2024	30-07-2024	01-08-2024	05-08-2024	07-08-2024	11-08-2024
1	PM <sub>10</sub> ( $\mu\text{g}/\text{m}^3$ )	100 ( $\mu\text{g}/\text{m}^3$ )	61.63	41.24	24.86	27.68	22.58	12.75	12.73	24.43
2	PM <sub>2.5</sub> ( $\mu\text{g}/\text{m}^3$ )	60 ( $\mu\text{g}/\text{m}^3$ )	10.26	26.61	8.76	17.50	13.62	5.24	5.77	12.68
3	SO <sub>2</sub> ( $\mu\text{g}/\text{m}^3$ )	80 ( $\mu\text{g}/\text{m}^3$ )	<5	<5	5.31	<5	<5	14.25	11.82	17.29
4	NO <sub>x</sub> ( $\mu\text{g}/\text{m}^3$ )	80 ( $\mu\text{g}/\text{m}^3$ )	<6	16.67	<6	14.53	<6	<6	<6	<6
5	CO ( $\mu\text{g}/\text{m}^3$ )	2000 ( $\mu\text{g}/\text{m}^3$ )	470	480	490	460	480	480	490	460

Sr. No.	Parameters	NAAQ Standards, 2009 (Industrial, Residential, Rural & Other Areas) for 24 hours	Location Code: (AM-D)	Location Code: (AM-H1)	Location Code: (AM-H2)	Location Code: (AM-G)
			Sampling Date			
			15-07-2024	19-07-2024	19-07-2024	19-07-2024
1	Benzene ( $\mu\text{g}/\text{m}^3$ )	5 ( $\mu\text{g}/\text{m}^3$ )	<4.0	<4.0	<4.0	<4.0
2	Hydrocarbons ( $\mu\text{g}/\text{m}^3$ )	-	<4.0	<4.0	<4.0	<4.0
3	Non-methane VOC ( $\mu\text{g}/\text{m}^3$ )	-	<4.0	<4.0	<4.0	<4.0
4	VOC ( $\mu\text{g}/\text{m}^3$ )	-	<4.0	<4.0	<4.0	<4.0

### Observations:

- The results of ambient air quality were compared with the National Ambient Air Quality Standards (NAAQS), 2009 specified by the Central Pollution Control Board (CPCB).
- Dahej:
  - The concentration of PM<sub>2.5</sub>, SO<sub>2</sub>, NO<sub>x</sub>, CO, Benzene, Hydrocarbons, Non-methane VOC, and VOC were observed within the standard limit.
  - PM<sub>10</sub> was found to be higher than the standard concentration of 100  $\mu\text{g}/\text{m}^3$  in three samples.
- Hazira:
  - The concentration of PM<sub>2.5</sub>, SO<sub>2</sub>, NO<sub>x</sub>, CO, Benzene, Hydrocarbons, Non-methane VOC, and VOC were observed within the standard limit.
  - PM<sub>10</sub> was slightly higher than the standard acceptable limit of 100  $\mu\text{g}/\text{m}^3$  only in one sample, while it was within the limit for the rest of the samples.

- Ghogha:
  - The concentration of PM<sub>10</sub>, PM<sub>2.5</sub>, SO<sub>2</sub>, NO<sub>x</sub>, CO, Benzene, Hydrocarbons, Non-methane VOC, and VOC were observed within the standard limit in all the samples.
- The high concentration of PM<sub>10</sub> could be attributed to vehicular movement in the port area, and surrounding road dust, causing the dispersion of emitted particulate matter in the ambient air.

**Preventive measures:**

- Water sprinkling on roads should be practiced to reduce dust suspension and its emission during vehicular movement.
- Practice should be initiated by using a mask as a preventative measure, to avoid the health risk associated with the inhalation of dust particles to the person working in the port area.

## 2.2 Drinking water monitoring

Drinking water sampling was carried out once a month at three locations i.e., 1 at Dahej, 1 at Hazira, and 1 at Ghogha. The analysis results were compared with the stipulated standards as per IS 10500:2012 and mentioned in **Table 6** below.

**Table 6: Results of drinking water quality monitoring**

Sr. No.	Parameters	Unit	Acceptable limit	Permissible limit	Location Code and Sampling Date		
			Standards IS 10500:2012		DW-D	DW-H	DW-G
			18-07-24	18-07-24	23-07-24		
1	pH	-	6.5-8.5	No Relaxation	7.2	7.6	7.8
2	EC	µS/cm	-	-	256	199.7	733
3	TDS	mg/L	500	2000	134	108	380
4	Chloride	mg/L	250	1000	15.88	30.77	96.58
5	Total Hardness	mg/L	200	600	100	20	155
6	Calcium as Ca	mg/L	75	200	55	10	75
7	Magnesium as Mg	mg/L	30	100	45	10	80
8	Turbidity	NTU	1.00	5.00	BQL● (QL=0.5)	BQL● (QL=0.5)	0.90
9	Fluoride as F	mg/L	1	1.5	BQL● (QL=0.3)	BQL● (QL=0.3)	0.701
10	SO <sub>4</sub>	mg/L	200	400	BQL● (QL=10)	BQL● (QL=10)	47.16
11	Na	mg/L	-	-	15.89	28.92	90.80
12	K	mg/L	-	-	BQL● (QL=5)	BQL● (QL=5)	BQL● (QL=5)

Sr. No.	Parameters	Unit	Acceptable limit	Permissible limit	Location Code and Sampling Date		
			Standards IS 10500:2012		DW-D	DW-H	DW-G
					18-07-24	18-07-24	23-07-24
13	NO <sub>3</sub>	mg/L	45	No relaxation	1.783	5.105	5.199
14	NO <sub>2</sub>	mg/L	-	-	BQL• (QL=0.1)	BQL• (QL=0.1)	BQL• (QL=0.1)
15	Odour	TON	Agreeable	Agreeable	1	1	1
16	Hg	mg/L	0.001	No relaxation	BQL• (QL=0.0005)	BQL• (QL=0.0005)	BQL• (QL=0.0005)
17	Salinity	PSU	-	-	0.12	0.10	0.36
18	Free Residual Cl <sup>-</sup>	mg/L	0.2	1	BQL• (QL=2)	BQL• (QL=2)	BQL• (QL=2)
19	Pb	mg/L	0.01	No relaxation	BQL• (QL=0.002)	BQL• (QL=0.002)	BQL• (QL=0.002)
20	Cd	mg/L	0.003	No relaxation	BQL• (QL=0.002)	BQL• (QL=0.002)	BQL• (QL=0.002)
21	Fe	mg/L	0.3	No relaxation	BQL• (QL=0.1)	BQL• (QL=0.1)	0.12
22	Total Cr	mg/L	0.05	No relaxation	BQL• (QL=0.005)	BQL• (QL=0.005)	BQL• (QL=0.005)
23	Hexavalent Cr	mg/L	-	-	BQL• (QL=0.01)	BQL• (QL=0.01)	BQL• (QL=0.01)
24	Cu	mg/L	0.05	1.5	BQL• (QL=0.005)	BQL• (QL=0.005)	0.01
25	Zn	mg/L	5.00	15.00	BQL• (QL=0.5)	BQL• (QL=0.5)	BQL• (QL=0.5)
26	As	mg/L	0.01	0.05	BQL• (QL=0.005)	BQL• (QL=0.005)	BQL• (QL=0.005)
27	Color	Hazen	5.00	15.00	1	1	1
28	TSS	mg/L	-	-	BQL• (QL=2)	BQL• (QL=2)	BQL• (QL=2)
29	Microbiological (MPN) (Total Coliforms)	CFU/ 100 ml	Shall not be detectable in any 100 ml sample		25	30	925
30	Mn	mg/L	0.1	0.3	BQL• (QL =0.04)	BQL• (QL =0.04)	BQL• (QL =0.04)

BQL – Below Quantification Limit, QL – Quantification Limit

### Observations:

- The samples were collected from the respective RO system at the monitored locations. The following were observed from the analysis of drinking water samples.
- At all three locations, Dahej, Hazira, and Ghogha, the concentration of all the parameters was within the standard acceptable limit, except the total coliform concentration.
- The concentration of total coliform content at Dahej, Hazira, and Ghogha was detected as

25, 30, and 925 CFU/100 ml respectively.

#### **Preventive measures:**

- The presence of the Total Coliforms in all samples indicates microbiological contamination. Therefore, regular cleaning and maintenance of the RO system is recommended. It is required to ensure an efficient operation of the disinfection system to prevent the contamination of water from coliform.

#### **2.3 Noise level monitoring**

Noise monitoring was conducted at all four locations, i.e., 1 at Dahej, 2 at Hazira, and 1 at Ghogha. The monitoring was conducted once a month at all the locations for 24 hours. The results of the noise monitoring are mentioned in **Table 7**. The results were compared with the prescribed limit of noise level as per the noise standards of Environment Protection Rules,2000 as given in **Table 8**.

**Table 7: Results of noise monitoring**

Sr. No.	Location Code	Date of Monitoring	Day Time			Night Time		
			Max.	Min.	Leq.	Max.	Min.	Leq.
1	N-D	20-Jul-24	59.3	38.0	49.1	47.2	38.6	43.1
2	N-H1	18-Jul-24	53.1	33.6	49.1	54.0	31.0	47.1
3	N-H2	19-Jul-24	59.3	41.4	54.2	57.8	44.0	53.0
4	N-G	20-Jul-24	44.3	35.7	41.5	39.2	35.6	38.0

**Table 8: Ambient air quality norms with respect of noise**

Area Code	Type of area	Noise dB(A) Leq	
		Day time	Night time
A	Industrial area	75	70
B	Commercial area	65	55
C	Residential area	55	45
D	Silent zone	50	40

#### **Observations:**

- Average Leq noise levels, for Day-time and Night-time at all locations, Dahej, Hazira, and Ghogha, were found below the maximum permissible limits defined for “Industrial area”.

#### **2.4 Soil quality monitoring**

Soil quality monitoring was carried out at all three locations, 1 at Dahej, 1 at Hazira, and 1 at Ghogha once a month. **Table 9** shows the analysis results of soil quality.

**Table 9: Results of soil quality monitoring**

Sr. No.	Parameters	Unit	Location Code & Date of Sampling		
			S-D	S-H	S-G
			18-07-24	18-07-24	23-07-24
1	<b>Organic Carbon</b>	%	0.24	0.10	0.49
2	<b>Total Organic Matter</b>	%	0.41	0.17	0.84
3	<b>Inorganic Phosphate (Av. Phosphorous)</b>	kg/Ha	1.25	0.95	0.30
4	Particle size distribution & silt content	Sand %	-	9.58	47.56
5		Silt %	-	71.39	31.41
6		Clay %	-	19.03	31.57
7	<b>Texture</b>	Type of soil	-	Silt Loam	loam
8	<b>pH</b>	-	9.83	9.79	8.71
9	<b>Conductivity</b>	dS/m	0.65	0.75	0.22
10	<b>SAR</b>	meq/L	5.23	5.05	0.12
11	<b>Water Holding Capacity</b>	%	73.97	69.67	59.87
12	<b>Al</b>	mg/kg	15657.75	17287.33	13237.26
13	<b>Cr</b>	mg/kg	80.79	94.88	60.62
14	<b>Ni</b>	mg/kg	33.71	32.32	10.86
15	<b>Cu</b>	mg/kg	61.82	50.76	70.20
16	<b>Zn</b>	mg/kg	63.69	69.20	71.58
17	<b>Cd</b>	mg/kg	BQL• (QL=1)	BQL• (QL=1)	BQL• (QL=1)
18	<b>Pb</b>	mg/kg	3.14	2.97	3.75
19	<b>As</b>	mg/kg	1.87	3.47	6.12
20	<b>Hg</b>	mg/kg	BQL• (QL=0.005)	BQL• (QL=0.005)	BQL• (QL=0.005)

BQL – Below Quantification Limit QL- Quantification Limit

To classify the soil quality, the soil quality standards- “Soil fertility class by Soil Health card 2015” & “Standard limit EU 2002” were adopted and shown in **Table 10** below.

**Table 10: Soil quality standard**

Soil fertility class by Soil Health Card (SHC 2015)				
Sr. No.	Parameter	Range & Interpretation of Result		
1	<b>pH</b>	Acidic <6.5	Normal 6.5-8.2	Alkaline >8.2
2	<b>Electrical Conductivity (dS/m)</b>	Normal <1	Medium 1-3	Harmful >3
3	<b>Available Phosphorus (kg/Ha)</b>	Low < 28	Medium 28-56	High >56
4	<b>Organic Carbon (%)</b>	Low < 0.5	Medium 0.5-0.75	High > 0.75
5	<b>Zinc (mg/kg)</b>	Low < 0.5	Medium 0.5-1.0	High >1.0
6	<b>Copper (mg/kg)</b>	Low < 0.2	Medium 0.2-0.4	High >0.4

Standard limit EU 2002		
7	Chromium (mg/kg)	150
8	Lead (mg/kg)	300
9	Cadmium (mg/kg)	3.0
10	Nickel (mg/kg)	75

### **Observations:**

- The soil texture was identified as Silt Loam type at Dahej, loam type at Hazira and Clay loam type at Ghogha.
- The pH value in soil was found ‘Alkaline’ class in nature at Dahej, Hazira and Ghogha.
- Electrical Conductivity at Dahej, Hazira and Ghogha was found to be in the ‘Normal’ category.
- Available phosphorus falls under the ‘Low fertility’ quality class at all three locations.
- The Organic carbon content in the soil was found in the ‘Low Fertility’ class at Dahej, Hazira and Ghogha.
- The values of Zn and Cu were found higher and were in the ‘High fertility’ class at all three locations.
- The heavy metals including Cr, Pb, Cd, and Ni were detected within permissible limits at all three locations.
- The overall quality of soil at all three locations was found to have low essential nutrients, hence less suitable for plant growth.

### **2.5 Marine Water, Sediment & Ecology Monitoring**

Marine water, sediment, and ecology monitoring was carried out at five locations, 1 at Dahej, 2 at Hazira, and 2 at Ghogha. The results and observations are mentioned below.

#### **2.5.1 Marine Water Quality Monitoring**

The analysis results of the marine water are presented in **Table 11** below. The results of marine water quality were compared with the water quality criteria for the designated best use for the coastal water stipulated by the ‘Environment (Protection) Act, 1986’ shown in **Table 12**.

**Table 11: Result of marine water quality monitoring**

Sr. No.	Parameters	Unit	Location code & date of sampling				
			MA-D	MA-H1	MA-H2	MA-G1	MA-G2
			18-07-24	18-07-24	18-07-24	23-07-24	23-07-24
1	EC	µS/cm	27,000	29,200	29,100	48,100	48,200
2	DO	mg/L	7.1	7.0	7.1	5.9	7.6
3	pH	-	7.8	7.6	7.6	7.8	7.9
4	Color	Hazen	5	10	10	5	5
5	Odor	TON	1	1	1	1	1
6	Turbidity	NTU	300	331	290	>500 (QL=500)	>500 (QL=500)
7	TDS	mg/L	17,624	18,486	18,432	31,384	31,974
8	TSS	mg/L	188	302	232	854	922
9	Particulate Organic Carbon	mg/L	1.54	1.76	2.59	4.81	6.31
10	COD	mg/L	36.4	40.9	43.6	54.6	57.3
11	BOD	mg/L	4.55	5.11	5.45	5.46	5.73
12	Silica	mg/L	>5 (QL=5)	>5 (QL=5)	>5 (QL=5)	>5 (QL=5)	>5 (QL=5)
13	PO <sub>4</sub>	mg/L	BQL● (QL=0.5)	0.79	BQL● (QL=0.5)	BQL● (QL=0.5)	1.45
14	SO <sub>4</sub>	mg/L	1385.45	1474.25	1485.1	2614.05	2486.8
15	NO <sub>3</sub>	mg/L	6.24	8.25	8.33	4.71	5.70
16	NO <sub>2</sub>	mg/L	0.126	0.586	0.599	BQL● (QL=0.1)	BQL● (QL=0.1)
17	Na	mg/L	4944	5084	5544	9854	>10,000 (QL=10,000)
18	K	mg/L	197	202	204	366	352
19	Mn	mg/L	0.23717	0.17255	0.14132	0.43305	0.52517

Sr. No.	Parameters	Unit	Location code & date of sampling				
			MA-D	MA-H1	MA-H2	MA-G1	MA-G2
			18-07-24	18-07-24	18-07-24	23-07-24	23-07-24
20	Fe	mg/L	3.614	2.982	2.888	4.068	4.749
21	Total Cr	mg/L	BQL● (QL=0.005)	BQL● (QL=0.005)	BQL● (QL=0.005)	BQL● (QL=0.005)	0.00615
22	Hexavalent Cr	mg/L	BQL● (QL=0.01)	BQL● (QL=0.01)	BQL● (QL=0.01)	BQL● (QL=0.01)	BQL● (QL=0.01)
23	Cu	mg/L	0.00706	BQL● (QL=0.005)	BQL● (QL=0.005)	0.01224	0.01724
24	Cd	mg/L	BQL● (QL=0.002)	BQL● (QL=0.002)	BQL● (QL=0.002)	BQL● (QL=0.002)	BQL● (QL=0.002)
25	As	mg/L	BQL● (QL=0.005)	BQL● (QL=0.005)	BQL● (QL=0.005)	BQL● (QL=0.005)	BQL● (QL=0.005)
26	Pb	mg/L	BQL● (QL=0.002)	BQL● (QL=0.002)	BQL● (QL=0.002)	BQL● (QL=0.002)	BQL● (QL=0.002)
27	Zn	mg/L	BQL● (QL=0.5)	BQL● (QL=0.5)	BQL● (QL=0.5)	BQL● (QL=0.5)	BQL● (QL=0.5)
28	Hg	mg/L	BQL● (QL=0.0005)	BQL● (QL=0.0005)	BQL● (QL=0.0005)	BQL● (QL=0.0005)	BQL● (QL=0.0005)
29	Oil & grease	mg/L	BQL● (QL=1)	BQL● (QL=1)	BQL● (QL=1)	BQL● (QL=1)	BQL● (QL=1)
30	Microbiological (MPN) (Total Coliforms)	100 ml/MPN	17	90	23	280	170
31	Density	kg/m <sup>3</sup>	>1000 (QL=1000)	>1000 (QL=1000)	>1000 (QL=1000)	>1000 (QL=1000)	>1000 (QL=1000)
32	Microbiological (MPN) (Fecal Coliforms)	100 ml/MPN	2	90	8	170	170
33	Floating material (Scum, Petroleum products)	-	ND	ND	ND	ND	ND

BQL – Below Quantification Limit, QL- Quantification Limit, ND- Not detected

**Table 12: Water quality criteria: Primary water quality criteria for designated best uses for coastal waters [As per “The Environment (Protection) Act, 1986]**

Parameters	SW-I	SW-II	SW-III	SW-IV	SW-V
pH	6.5 – 8.5	6.5 – 8.5	6.5 – 8.5	6.0 – 9.0	6.0 – 9.0
Dissolved oxygen (as O <sub>2</sub> ), mg/l, min	5 or 60% of saturation value, whichever is higher	4 or 50% of saturation value, whichever is higher	3 or 40% of saturation value, whichever is higher	3 or 40% of saturation value, whichever is higher	3 or 40% of saturation value, whichever is higher
Color & Odour	No noticeable color or offensive odour	No noticeable color or offensive odour	No noticeable color or offensive odour	No noticeable color or offensive odour	None in such concentrations that would impair any usages specifically assigned to this class
Floating matters	No visible, obnoxious floating debris, oil slick, scum	Nothing obnoxious or detrimental for use purpose	No visible, obnoxious floating debris, oil slick, scum	10 mg/l max. (including Oil & grease & scum / petroleum products)	-
Oil & grease, mg/L max. (including petroleum products)	0.1	-	-		-
Suspended solids	None from sewage & industrial origin	-	-	-	-
Heavy metals					
• Mercury, mg/L (as Hg)	• 0.001	-	-	-	-
• Lead, mg/L (as Pb)	• 0.001				
• Cadmium, mg/L (as Cd)	• 0.01				
Turbidity, NTUmax.	-	30	30	-	-

Parameters	SW-I	SW-II	SW-III	SW-IV	SW-V
Fecal coliforms, MPN/100ml, max	-	100	500	500	500
BOD, mg/L, 3 days at 27°C, max	-	3	-	5	-
Dissolved iron, mg/L max (as Fe)	-	-	0.5	-	-
Dissolved manganese, mg/L max (as Mn)	-	-	0.5	-	-
Sludge deposits, solid refuse, floating solids, oil & grease, scum	-	-	-	-	None except for such a small amount that may result from discharge of appropriately treated sewage & or industrial waste
SW-I: Salt pans, shell fishing, mariculture, and ecologically sensitive zone SW-II: Bathing, contact water sports, and commercial fishing SW-III: Industrial cooling, recreation (non-contact), and aesthetics SW-IV: Harbor waters SW-V: Navigation and controlled waste disposal					

### Observations:

The analysis results of the marine water samples collected from the various locations are suitable for Harbour Waters. There were no oil slicks or floating trash at the sampling locations.

## 2.5.2 Marine sediment quality monitoring

The quality of the marine sediment samples collected from Dahej, Hazira & Ghogha from 13<sup>th</sup> July to 12<sup>th</sup> August'24 has been summarized in **Table 13**.

**Table 13: Result of Marine Sediment Quality Monitoring**

Sr. No.	Parameters	Unit	Location code and sampling date				
			MA-D	MA-H1	MA-H2	MA-G1	MA-G2
			18-07-24	18-07-24	18-07-24	23-07-24	23-07-24
1	Texture	-	Clay Loam	Clay Loam	Clay Loam	Silt Clay Loam	Clay
2	Organic matter	%	0.63	0.87	0.74	1.27	1.31
3	Inorganic phosphate (Av. phosphorus)	kg/Ha	1.03	1.63	1.14	0.67	0.73
4	Silica	g/kg	551.26	564.02	533.17	529.68	518.18
5	Phosphate (Total phosphorous)	mg/kg	246.19	257.38	223.32	273.72	265.09
6	Sulphate	mg/kg	22.17	29.75	26.21	129.3	131.34
7	NO <sub>2</sub>	mg/kg	0.18	0.17	0.13	0.20	0.25
8	NO <sub>3</sub>	mg/kg	8.50	5.62	5.99	7.33	7.12
9	Ca	mg/kg	2600	2300	2400	4600	4300
10	Mg	mg/kg	1525	1647	1647	976	915
11	Na	mg/kg	2974	3730	8048	14594	18,624
12	K	mg/kg	4873	5459	3899	6791	7191
13	Al	mg/kg	21,824.11	22,625.49	17,504.86	14,131.12	13,124.93
14	Cr	mg/kg	113.31	119.59	93.51	54.76	49.11
15	Ni	mg/kg	42.52	43.96	37.29	17.43	11.56
16	Zn	mg/kg	97.79	88.02	80.23	72.69	68.44
17	Cd	mg/kg	BQL• (QL=1)	BQL• (QL=1)	BQL• (QL=1)	BQL• (QL=1)	BQL• (QL=1)
18	Pb	mg/kg	4.55	4.03	3.87	2.08	1.89
19	As	mg/kg	5.34	4.13	3.67	3.96	3.59
20	Hg	mg/kg	BQL• (QL=0.005)	BQL• (QL=0.005)	BQL• (QL=0.005)	BQL• (QL=0.005)	BQL• (QL=0.005)
21	Cu	mg/kg	102.63	90.48	79.33	100.12	93.74

BQL – Below Quantification Limit QL- Quantification Limi

### Observations:

The marine sediment quality at Dahej, Hazira, and Ghogha was compared based on the obtained results, and the following were observed.

- Organic matter in sediment consists of carbon and nutrients in the form of carbohydrates, proteins, fats, and nucleic acids. Sediment organic matter is derived from plant and animal

detritus, bacteria, or plankton formed in situ, or derived from natural and anthropogenic sources in catchments. Organic matter was found to be 0.63 % at Dahej, 0.74 to 0.87% at Hazira and 1.27 to 1.31 % at Ghogha.

- Inorganic phosphate was found to be 1.03 kg/Ha at Dahej, 1.14 to 1.63 kg/Ha at Hazira and 0.67 to 0.73 kg/Ha at Ghogha. The capacity of sediment to retain or release phosphorus is one of the important factors, which influence the concentration of inorganic/organic phosphorus in the overlying waters (Saravanakumar, Rajkumar, Serebiah, & Thivakaran, 2008).
- The texture of the sediments was found to be ‘Clay Loam’ type at Dahej And Hazira, and ‘Silt Clay Loam’ to ‘Clay’ type at Ghogha locations.
- The concentration of Sulphate was found to be 22.17 mg/kg at Dahej, 26.21 to 29.75 mg/kg at Hazira and 129.3 to 131.34 mg/kg at Ghogha. The sulphate concentrations in marine sediment can vary naturally based on geological and hydrological factors.
- Nitrite concentration was found 0.18 mg/kg at Dahej, 0.13 to 0.17 mg/kg at Hazira, and 0.20 to 0.25 mg/kg Ghogha.
- Nitrate concentration was found to be 8.50 mg/kg at Dahej, 5.62 to 5.99 mg/kg at Hazira, and 7.12 to 7.33 mg/kg at Ghogha.
- Ca was found to be 2600 mg/kg at Dahej, 2300 to 2400 mg/kg Hazira, and 4300 to 4600 mg/kg at Ghogha. The source of Ca accumulation in marine sediment may be because of its naturally occurring element and its concentration can vary widely from local geological, hydrological conditions and environmental factors. It depends on various factors, including the composition of the underlying rocks, and the presence of calcareous organisms like coral reefs.
- Mg was observed to be 1525 mg/kg at Dahej, 1647 mg/kg at Hazira and 915 to 976 mg/kg at Ghogha. Magnesium is an essential component of marine sediments and plays a significant role in marine ecosystem dynamics. The concentration of magnesium in marine sediments can depend on various factors, including the composition of the underlying rocks, sediment type, and local hydrological conditions.
- The values for Sodium in marine sediment were found to be 2974 mg/kg at Dahej, 3730 to 8048 mg/kg at Hazira and 14,594 to 18,624 mg/kg at Ghogha. Sodium concentrations in marine sediments are often correlated with salinity levels. It is an essential component of marine ecosystems.
- The value for Potassium was found to be 4873 mg/kg at Dahej, 3899 to 5459 mg/kg at Hazira, and 6791 to 7191 mg/kg at Ghogha. Potassium is an essential nutrient for plants and the composition of parent materials, sediment types, weathering processes, and local hydrological

conditions.

- The Silica in marine sediment was found to be 551.26 g/kg at Dahej, 533.17 to 564.02 g/kg at Hazira and 518.18 to 529.68 g/kg at Ghogha. Its presence in marine sediments can be attributed to both natural geological processes and biological contributions such as mineral weathering, biogenic silica, aquatic plants, and oceanographic processes.
- The Total phosphorus concentration was found to be 246.19 mg/kg at Dahej, 223.32 to 257.37 mg/kg at Hazira and 265.09 to 273.72 mg/kg at Ghogha. Phosphorus is an essential nutrient for marine ecosystems, playing a crucial role in biological processes. Its presence in marine sediments can have significant implications for nutrient cycling and ecosystem health. It can accumulate on the seafloor due to land runoff, natural weathering, decomposition of organic matter, local geology, etc.
- The sediment quality for the trace metals concentration was compared to the sediment quality guidelines (US Environmental Protection Agency, 1977; Augustynowicz, et al., 2013; B., X., X., & S., 2018; Saravanakumar, Rajkumar, Serebiah, & Thivakaran, 2008; Sanyal, Anilava, & Subrata, 2017; Tokatli, 2017; Perin, Bonardi, & Scotto, 1997; Onjefu & Kwaambwa, 2020; Pazi, 2011), as shown in **Table 14**.

**Table 14: Sediment Quality Guidelines (SQG) of the US Environmental Protection Agency (EPA) 1977**

Metals	Sediment quality (mg/kg)		
	Not Polluted	Moderately Polluted	Heavily Polluted
As	<3	3-8	>8
Cu	<25	25-50	>50
Cr	<25	25-75	>75
Ni	<20	20-50	>50
Pb	<40	40-60	>60
Zn	<90	90-200	>200
Al	ND	ND	ND
Cd	-	<6	>6
ND- Not detected			

- As per the comparison of the metals to this guideline, a variation in the concentration of the metals was found. The concentration of Pb was in the 'Not polluted' quality class. Zn was in the 'Not Polluted' class at Hazira & Ghogha location, whereas it was in the 'Moderately Polluted' class at Dahej. As and Cd concentration were in the 'Moderately polluted' class. The concentration of Cr was in the 'Moderately Polluted' class at the Ghogha location and the 'Heavily Polluted' class at the Dahej & Hazira location. Cu and Al were in the 'Heavily polluted' quality class. Ni was in the 'Not Polluted' class at Ghogha and the 'Moderately Polluted' class at Dahej & Hazira location. Sediments are highly dynamic, constantly being deposited and carried away by water currents (Labenua, et al., 2023). The possible reasons for the higher concentration of some heavy metals may be attributed to the high sedimentation rate and due to various natural and anthropogenic factors.

## 2.5.3 Marine ecological monitoring

The various parameters monitored for Marine ecological monitoring are mentioned in **Table 15** and **Table 16** as follows:

**Table 15: Results of marine ecological monitoring for Biomass, NPP, GPP, Pheophytin, Chlorophyll-a, Secchi depth & Particulate oxidizable organic carbon**

Location code	Sampling date	Biomass	Net Primary Productivity (NPP)	Gross Primary Productivity (GPP)	Pheophytin	Chlorophyll-a	Secchi Depth	Particulate oxidizable organic carbon
		mg/L	mg/L/hr	mg/L/hr	mg/m <sup>3</sup>	mg/m <sup>3</sup>	meter	mg/L
MA-D	18-07-24	124	BQL	0.01	BQL	2.348	0.09	1.54
MA-H1	18-07-24	148	BQL	0.02	BQL	1.841	0.08	1.76
MA-H2	18-07-24	46	BQL	BQL	BQL	1.535	0.09	2.59
MA-G1	23-07-24	130	BQL	BQL	BQL	4.737	0.06	4.81
MA-G2	23-07-24	156	BQL	BQL	BQL	0.849	0.06	6.31

BQL – Below Quantification Limit

**Table 16: Results of marine ecological monitoring for Benthic macroinvertebrates, Phytoplankton, and Zooplankton**

Location code	Sampling date	Benthic macroinvertebrates (Counts/L)		Phytoplankton (Counts/L)		Zooplankton (Counts/L)	
		Observation	Individual count	Genera	Individual count	Observation	Individual count
MA-D	18-07-24	-	-	Nil	Nil	Nil	Nil
MA-H1	18-07-24	-	-	Nil	Nil	Nil	Nil
MA-H2	18-07-24	-	-	Navicul	1	Nil	Nil
MA-G1	23-07-24	Nil	Nil	Nil	Nil	Nil	Nil
MA-G2	23-07-24	-	-	Odontella	1	Nil	Nil

**Observations and Interpretation:**

- Biomass content ranged from 46 to 156 mg/L; this is an indication of low to moderate population of organisms in the sampling stations. This could be due to the presence of a mixed population including chlorophyll-containing organisms as well as chlorophyll-lacking organisms. This implies the lower Secchi depth values.
- Phytoplankton and Zooplankton counts were negligible; The main growth factors behind algae include mainly phosphorus and nitrogen. The phosphorus concentration was BQL to 1.45 mg/L, whereas the nitrate concentrations ranged from 4.71 to 8.25 mg/L. These values are likely to show nutrient-limited environments in the water that are insufficient for promoting the growth of phytoplankton. (Elser, et al., 1990)
- When there is an availability of adequate light and favorable temperature, nutrient unavailability can result in limited or no growth of phytoplankton species. (Hecky, R. E., & P., 1988)
- Rapid fluctuations in the level of salinity are likely to retard the growth of stenohaline plankters (The Oceans, Their Physics, Chemistry, and General Biology.). Hence, the resultant productivity levels were found to be almost negligible.
- Low benthic macroinvertebrate count: Fluctuations in salinity levels are also responsible for limited or no growth of benthic macroinvertebrate species.

## 2.6 Meteorological monitoring

To determine the prevailing micro-meteorological conditions at the project site the Automatic Weather Monitoring Stations (AWS) have been installed at the sites of Dahej, Hazira, and Ghogha at 10 m above the ground.

The summary of hourly meteorological observations recorded at the observatory, Dahej, Hazira, and Ghogha for 13<sup>th</sup> July to 12<sup>th</sup> August 2024 for the significant parameters has been mentioned in **Table 17**.

**Table 17: Results of meteorological monitoring**

Sr. No.	Location	Month	Wind direction	Wind speed (m/s)			Rain (mm/hr)	Relative humidity (%)			Temperature (°C)			Solar radiation (W/m <sup>2</sup> )
				Mean	Max	Min		Mean	Max	Min	Mean	Max	Min	
1	M-D	July-August 24	From South-South-East	2.53	7.78	0.35	0.49	83.52	85.59	81.37	29.29	29.83	28.77	61.97
2	M-H		From West-South-West	4.89	12.44	2.21	0.66	88.23	90.06	86.33	30.76	31.30	30.24	53.83
3	M-G		From West-South-West	1.33	5.51	0.14	0.27	80.56	82.89	78.26	29.66	30.29	29.00	58.17

## Observations:

The monthly average of maximum and minimum daily observed values summarized in **Table 17** have been discussed as follows.

### • Temperature

Dahej: The ambient temperature varied from 28.77-29.83°C, with an average temperature of 29.29°C.

Hazira: The ambient temperature varied from 30.24-31.30°C, with an average temperature of 30.76°C.

Ghogha: The ambient temperature varied from 29.00-30.29°C, with an average temperature of 29.66°C.

### • Relative humidity

Dahej: The Relative Humidity varied from 81.37-85.59%, with an average humidity of 83.52 %.

Hazira: The Relative Humidity varied from 86.33-90.06%, with an average humidity of 88.23%.

Ghogha: The relative humidity varied from 78.26-82.89%, with an average humidity of 80.56 %

### • Rainfall

Dahej: The average Rainfall was recorded 0.49 mm/hr.

Hazira: The average Rainfall was recorded 0.66 mm/hr.

Ghogha: The average Rainfall was recorded 0.27 mm/hr.

### • Wind speed

Wind speed and direction play a significant role in transporting the pollutants and thus decide the air quality.

Dahej: The wind speed was recorded in the range of 0.35-7.78 m/s, with an average of 2.53 m/s.

Hazira: The wind speed was recorded in the range of 2.21-12.44 m/s, with an average of 4.89 m/s.

Ghogha: The wind speed was recorded in the range of 0.14-5.51 m/s, with an average of 1.33 m/s.

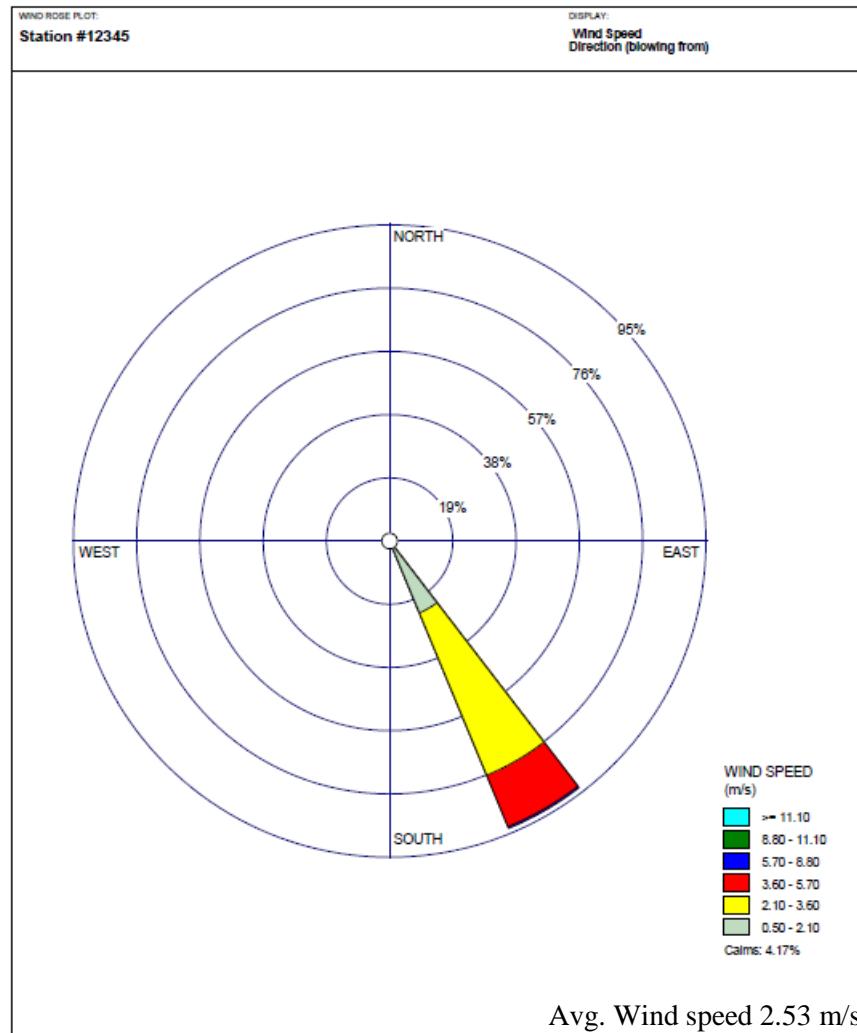
### • Solar radiation

The average solar radiation at Dahej, Hazira, and Ghogha was 61.97, 53.83 and 58.17 W/m<sup>2</sup> respectively.

### • Wind rose diagram

The wind-rose diagram has been drawn based on hourly wind speed and direction data. This

wind rose reveals that the prevailing winds in Dahej, Hazira, and Ghogha predominantly blow from a South-South-East (SSE), West-South-West (WSW) and West-South-West (WSW) direction respectively.



**Fig. 5: Windrose diagram of Dahej**

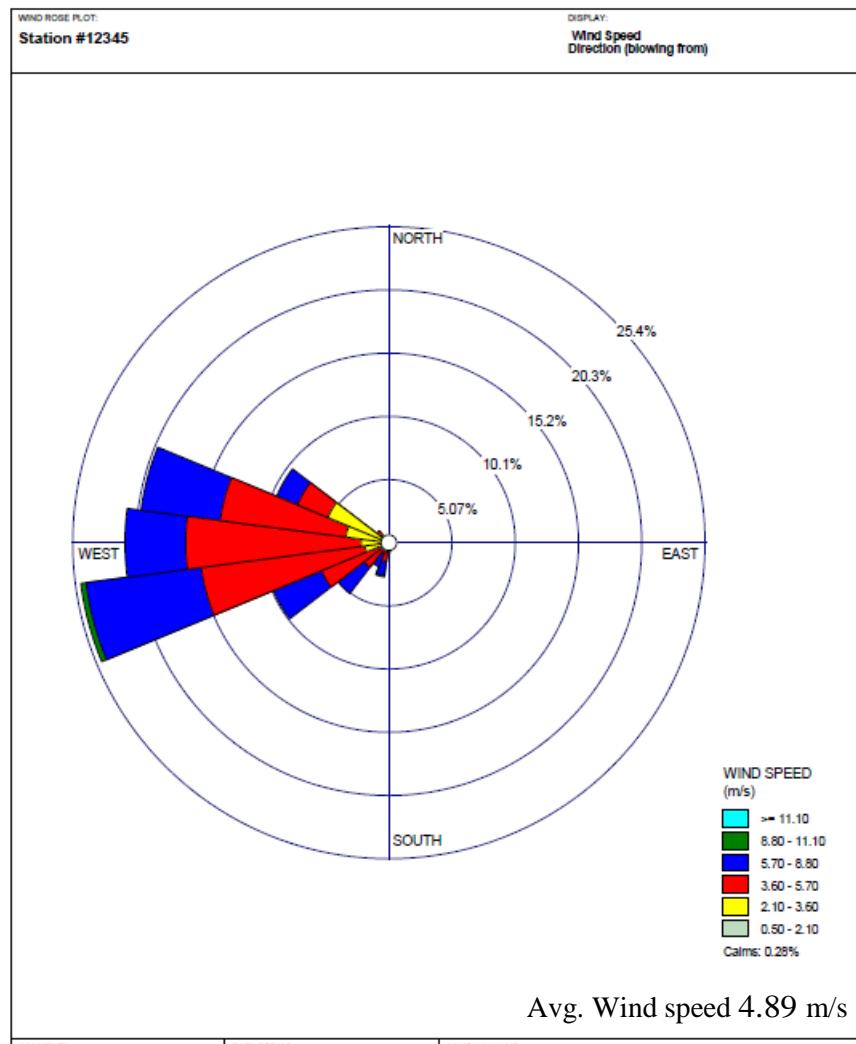


Fig. 6: Windrose diagram of Hazira

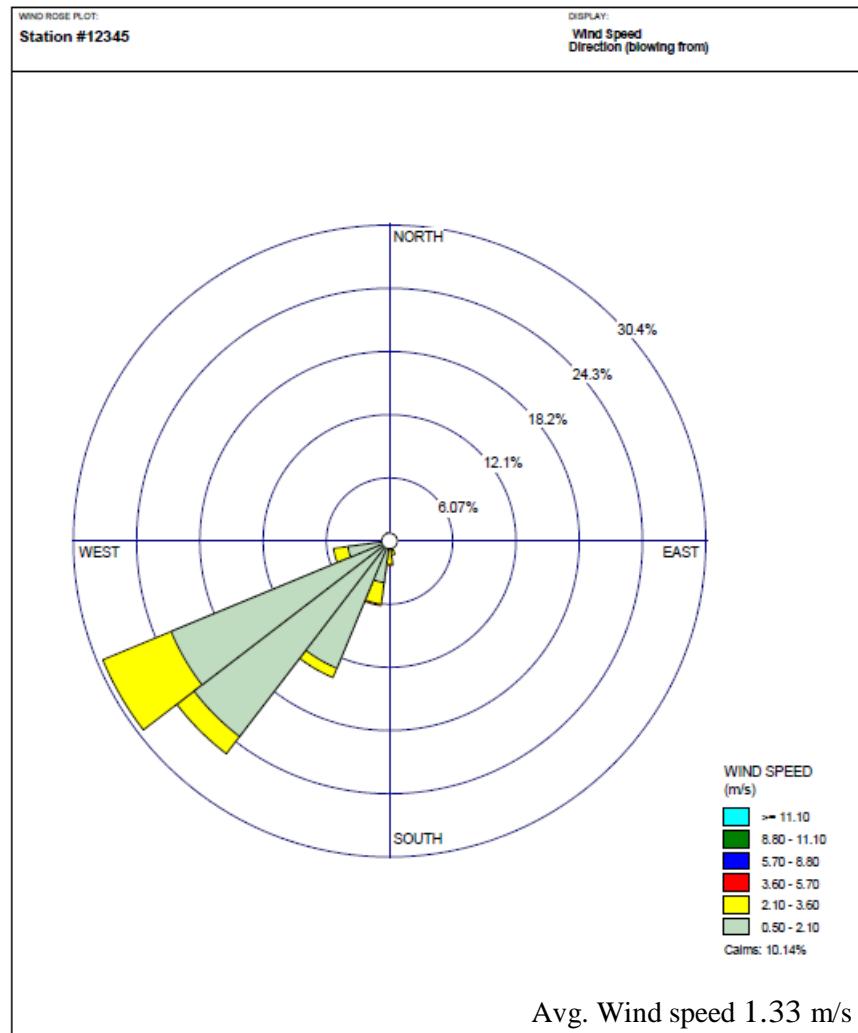


Fig. 7: Windrose diagram of Ghogha

## **2.7 Monitoring of DG stack emissions**

DG sets at the Deendayal Port Authority (DPA) are generally utilized as a secondary power source. The sampling and monitoring of the DG stack emissions was carried out at Dahej, Hazira and Ghogha. The monitoring cycle was once a month. Sampling details of the locations are mentioned in **Table 18**.

**Table 18: Result of DG stack emissions**

Sr. No.	Parameters	Unit	DG Set standards	Location Code (DG-D)	Location Code (DG-H)	Location Code (DG-G)
				Sampling Date		
				25-07-2024	16-07-2024	02-08-2024
1.	Suspended Particulate Matter (SPM)	mg/Nm <sup>3</sup>	150	119	124	130
2.	SO <sub>2</sub>	PPM	100	N.D.	N.D.	N.D.
3.	NOx	PPM	50	42	47	45
4.	CO	%	-	0.0074	0.0083	0.0078
5.	CO <sub>2</sub>	%	-	1.16	1.21	1.26

N.D. – Not detected

### **Observations:**

The results of DG stack emissions for Hazira, Dahej, and Ghogha are compared with the DG set standards and found within the prescribed limit for SPM, SO<sub>2</sub>, and NOx.

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## ANNEXURE-I: Meteorological monitoring data

### Dahej Meteorological Data

Dahej Station															
DATE	TIME	AT_Max	AT_Avg	AT_Min	RH_Max	RH_Avg	RH_Min	SOLAR	BP	WD	WS_Max	WS_Avg	WS_Min	RAIN	
DD/MM/YY	HH:MM:SS	DegC	DegC	DegC	%	%	%	W/m2	mbar	Deg	m/s	m/s	m/s	mm	
13-07-24	0:00:00	28.8	22.7	21.8	84.5	83.4	80.8	0	999.1	144	7.8945	2.8808	0.3601	0	
13-07-24	1:00:00	28.2	21.9	19.9	83.8	81.3	79.2	0	998.2	143.6	8.2823	3.2409	0.5263	0	
13-07-24	2:00:00	26.3	20.3	18.1	84.8	83	81.3	0	997.6	143.5	7.7283	3.4902	0.5263	0	
13-07-24	3:00:00	24.5	18.8	17.9	89.9	88.4	87.2	0	996.7	143.9	6.9804	3.4071	0.9141	0	
13-07-24	4:00:00	34.2	33.7	33	71.7	67.8	64.6	249.9	997	152	6.2602	1.1911	0	0	
13-07-24	5:00:00	18.6	17.8	17	94	93.5	93	0	996.6	142.6	3.4902	1.8005	0.7202	0	
13-07-24	6:00:00	28.6	28.4	28.1	91.4	90.5	90	0.6	996.5	142.6	0.7202	0	0	0	
13-07-24	7:00:00	28.7	28.5	28.3	90.6	90.1	89.8	2.1	997.1	142.6	1.2742	0.0554	0	0	
13-07-24	8:00:00	29.6	28.9	28.4	90.3	88.8	86.3	24.7	997.8	142.7	1.8282	0.2216	0	0	
13-07-24	9:00:00	30.9	30.4	29.5	86.4	82.2	80.5	48.2	998.6	0	1.0803	0	0	0	
13-07-24	10:00:00	31.1	30.8	29.9	80.8	78.6	76.7	48.4	999.2	54.6	2.1883	0.0554	0	0	
13-07-24	11:00:00	32.5	31.4	30.6	80.2	77.7	73.1	140.5	999.3	99.7	3.1301	0.1385	0	0	
13-07-24	12:00:00	34	32.7	31.4	76.7	71	65.2	213.6	999.6	122.1	4.5982	0.4709	0	0	
13-07-24	13:00:00	35.4	34.2	31.4	76.7	64.2	58.1	375.5	999.5	146.6	3.4902	0.4709	0	0	
13-07-24	14:00:00	34.1	33	32.3	71.5	67.9	63.4	174.1	998.4	150.1	4.2104	0.5817	0	0	
13-07-24	15:00:00	34.3	33.5	32.6	70.4	67.1	63.2	202.6	997.6	156.9	4.2104	0.5817	0	0	
13-07-24	16:00:00	34.2	33.7	33	71.7	67.8	64.6	249.9	997	152	6.2602	1.1911	0	0	
13-07-24	17:00:00	32.8	31.5	30.6	79.5	75.2	68.7	164.8	995.9	158.7	14.1824	3.2963	0.7202	0	
13-07-24	18:00:00	31.6	31.1	30.5	80.7	78.4	76.1	100.7	995.6	153.3	10.4983	2.2714	0.3601	0	
13-07-24	19:00:00	30.8	30.5	30.1	83.4	81.9	80.2	21.7	995.5	152.6	8.0884	1.6897	0	0	
13-07-24	20:00:00	30.3	29.8	29	88.8	84	81.5	0.9	995.8	149.1	9.0025	2.2714	0.3601	0	
13-07-24	21:00:00	29.4	28.8	28.2	92	90.4	87.6	0	996.1	148.7	9.3903	2.1052	0.3601	0	
13-07-24	22:00:00	29.6	29.3	29	87.8	86.4	85.6	0.2	996.6	148.4	8.8363	1.7174	0	0	
13-07-24	23:00:00	29.6	29.3	29	86.8	85.5	84.8	0.2	996.9	146.2	6.8142	2.2991	0	0	

















Dahej Station															
DATE	TIME	AT_Max	AT_Avg	AT_Min	RH_Max	RH_Avg	RH_Min	SOLAR	BP	WD	WS_Max	WS_Avg	WS_Min	RAIN	
DD/MM/YY	HH:MM:SS	DegC	DegC	DegC	%	%	%	W/m2	mbar	Deg	m/s	m/s	m/s	mm	
22-07-24	16:00:00	21.4	20	19.4	94	92.5	91.5	71.5	996.5	143.4	11.5786	4.0442	1.2742	0	
22-07-24	17:00:00	29.2	26.2	19.1	92.6	91	88	66.7	996.6	143.1	11.2185	4.1827	0.5263	0	
22-07-24	18:00:00	29.6	29.2	28.9	89.8	88.3	86.9	61.3	996.9	144	9.5565	2.6869	0.5263	0	
22-07-24	19:00:00	29.6	28.9	28.7	89.9	89.3	88.3	11	997	144.3	7.8945	3.1301	0.7202	0	
22-07-24	20:00:00	29.3	29	28.8	88.5	87.7	87	0.5	998.3	143.6	7.5344	2.9362	0.9141	0	
22-07-24	21:00:00	29.3	29.1	29	88	86.9	85.7	0.5	999.1	143.7	8.6424	3.3794	0.7202	0	
22-07-24	22:00:00	29.4	29.2	29.1	87.3	86.4	85.3	0.5	998.9	144.1	8.4485	3.1578	1.0803	0	
22-07-24	23:00:00	29.6	29.2	29	86.4	85.9	85.4	0.7	999.2	143.9	9.7504	3.4071	1.0803	0	
23-07-24	0:00:00	29.4	29.2	29	87.1	86.1	85.1	0.7	999.4	143.6	6.8142	2.9916	0.7202	0	
23-07-24	1:00:00	29.3	29.1	29	86.8	85.6	84.1	0.7	999.4	143.3	8.0884	3.1301	0.7202	0	
23-07-24	2:00:00	29.1	28.7	28.3	88.5	86.4	84.8	0.4	998.7	143.2	6.8142	2.8808	0.5263	0	
23-07-24	3:00:00	28.6	28.3	28	90.4	89.4	88.5	0	998.2	143.2	6.4264	2.7146	0.1662	0	
23-07-24	4:00:00	28.9	28.5	28.3	89.1	88	86.8	0.2	998	143	8.0884	3.4625	0.9141	0.5	
23-07-24	5:00:00	28.7	28.6	28.5	87.3	86	84.8	0.2	997.9	143	9.0025	4.3766	1.4681	0	
23-07-24	6:00:00	28.8	28.6	28.5	85.5	84.2	82.5	0.2	997.9	142.9	9.7504	4.1827	1.0803	0	
23-07-24	7:00:00	28.8	28.5	28.3	85.9	84.8	83.6	5.5	998.2	143.3	7.3682	2.77	0	0	
23-07-24	8:00:00	29.1	28.9	28.6	84.9	83.6	82.4	34.5	998.8	143.1	8.8363	2.9085	0	0	
23-07-24	9:00:00	29.2	28.9	28.7	84.2	82.9	81.6	37	999.7	143.1	7.8945	2.7423	0	0	
23-07-24	10:00:00	29.7	29.2	28.7	84.5	82.5	79.2	79.4	1000.2	142.9	7.3682	2.6038	0	0	
23-07-24	11:00:00	30.2	29.9	29.4	80.6	77.8	76.3	82.3	1000.8	143.1	8.4485	2.8254	0	1	
23-07-24	12:00:00	30.3	30.1	29.4	79.5	76.8	75.3	108.5	1000.6	143.3	9.1964	2.0498	0	0	
23-07-24	13:00:00	31	30.5	30.1	79.2	77.5	74.7	134.2	1000.1	144.1	8.4485	1.2465	0	0	
23-07-24	14:00:00	30.9	30.6	30.2	79.7	78.8	78.1	131.6	999.4	144.6	9.1964	2.3545	0	0	
23-07-24	15:00:00	30.7	30.3	29.9	80.6	79	77.3	92.1	998.5	144.7	10.3044	1.9113	0	0	
23-07-24	16:00:00	30.1	29.7	29.2	85.4	82.9	79.5	84.6	997.8	142.9	8.4485	1.4681	0	0	
23-07-24	17:00:00	30.3	30.1	29.9	82.6	81.6	80.6	98.9	997.1	144.9	10.3044	2.2991	0	0	

Dahej Station															
DATE	TIME	AT_Max	AT_Avg	AT_Min	RH_Max	RH_Avg	RH_Min	SOLAR	BP	WD	WS_Max	WS_Avg	WS_Min	RAIN	
DD/MM/YY	HH:MM:SS	DegC	DegC	DegC	%	%	%	W/m2	mbar	Deg	m/s	m/s	m/s	mm	
23-07-24	18:00:00	30.3	30	29.6	83.6	81.3	79.6	43.6	996.8	143.1	10.1105	3.5179	0	0	
23-07-24	19:00:00	29.7	29	28.7	88.7	87	83.4	3.3	996.9	142.8	10.8584	3.9611	0.9141	0	
23-07-24	20:00:00	29.3	29	28.3	88.5	85.7	84.3	0.3	997.6	143.4	9.0025	3.6564	0.5263	0	
23-07-24	21:00:00	28.5	28	27.7	94.1	92.4	88.4	0	998	143.3	8.2823	2.6315	0	3	
23-07-24	22:00:00	28.5	28.2	27.8	93.7	92.1	90.1	0	998	143.7	7.3682	2.3268	0	0	
23-07-24	23:00:00	28.7	28.6	28.3	90.3	87.5	85.7	0.1	998.4	143.2	8.2823	3.2963	0	0	
24-07-24	0:00:00	28.6	28.4	28.3	89.1	88.6	88.1	0.1	998.5	143.1	7.8945	3.2132	0.7202	0	
24-07-24	1:00:00	28.6	28.3	28	90.3	89.1	88	0.1	998.1	142.8	9.3903	4.0719	1.2742	0	
24-07-24	2:00:00	28.4	28.2	28	90.6	89.5	89	0.2	996.9	142.9	8.2823	3.6841	0	0	
24-07-24	3:00:00	28.1	27.6	27.4	94.4	93.2	90.5	0	996.3	142.9	8.2823	3.5179	0	1	
24-07-24	4:00:00	27.6	27.4	27.2	94.5	93.9	93.3	0	995.8	142.9	7.7283	2.8808	0.1662	8	
24-07-24	5:00:00	27.8	27.4	27	95.4	94.7	92.8	0	995.6	142.8	12.8805	4.7367	1.0803	4	
24-07-24	6:00:00	28.5	27.9	27.6	93	90.5	88.7	0.1	995.6	142.8	13.4345	6.2602	2.0221	0	
24-07-24	7:00:00	28.3	28.1	27.9	89.5	87.9	86.5	0.2	995.7	142.5	14.1824	5.7893	1.6343	0	
24-07-24	8:00:00	28.5	28.2	27.5	88.6	85.6	84.4	1.3	996.1	142.5	15.2627	6.371	1.6343	1	
24-07-24	9:00:00	27.9	27.5	27.2	90.7	89.8	88.4	4.3	996.2	142.8	16.7585	7.2574	2.9362	1	
24-07-24	10:00:00	27.9	27.7	27.5	91.9	91.2	89.6	10.1	996.9	142.9	11.4124	5.2076	1.0803	1	
24-07-24	11:00:00	27.9	27.7	27.2	93.5	92.4	91.5	5.7	997	143.5	7.8945	2.493	0	1.5	
24-07-24	12:00:00	27.9	27.6	27.4	94.7	94.2	93.3	13.3	996.7	143.4	6.9804	2.5484	0	5	
24-07-24	13:00:00	28	27.8	27.6	94.7	94.4	93.1	28.1	996.2	142.9	10.3044	3.5456	0	2	
24-07-24	14:00:00	28.7	27.8	27.5	93.3	92	91.4	37.8	995.8	142.8	11.0523	4.4874	0	1	
24-07-24	15:00:00	29	27.7	27.4	94.2	92.9	91.7	23.6	995.9	142.8	7.5344	2.4099	0	3	
24-07-24	16:00:00	27.8	27.7	27.4	95.8	94.7	94	23.8	994.9	142.9	5.5123	1.1634	0	2.5	
24-07-24	17:00:00	28.1	27.8	27.4	95.4	94.8	94.4	30.3	993.6	143.3	6.9804	1.8836	0	0	
24-07-24	18:00:00	29.4	28.2	27.7	94.6	93.4	91.9	22	994.1	143.1	8.2823	2.9916	0.3601	0	
24-07-24	19:00:00	28.5	28.3	27.8	92.3	91.6	91.2	2.9	994.8	143.1	7.1743	2.6592	0	0	



Dahej Station															
DATE	TIME	AT_Max	AT_Avg	AT_Min	RH_Max	RH_Avg	RH_Min	SOLAR	BP	WD	WS_Max	WS_Avg	WS_Min	RAIN	
DD/MM/YY	HH:MM:SS	DegC	DegC	DegC	%	%	%	W/m2	mbar	Deg	m/s	m/s	m/s	mm	
24-07-24	20:00:00	29	28.2	28	92.2	91.3	90.3	0.2	995.1	142.8	6.4264	2.4653	0	0	
24-07-24	21:00:00	28.6	28.3	28.1	92.6	91.5	90.5	0.1	995.6	143	6.8142	2.5761	0	0	
24-07-24	22:00:00	28.6	28.4	28	92.6	91.3	90.1	0.1	996.1	142.7	5.7062	2.1883	0	0	
24-07-24	23:00:00	28.9	28.5	28.2	90.3	89.7	89	0.2	996.5	142.9	5.8724	2.2991	0	0	
25-07-24	0:00:00	29.7	28.5	28.2	89.2	88.7	87.6	0.3	996.3	142.9	6.4264	2.1606	0	0	
25-07-24	1:00:00	28.7	28.5	28.4	88	86.7	85.7	0.1	995.9	142.9	9.0025	3.1578	0	0	
25-07-24	2:00:00	28.7	28.5	28.3	86.9	86	85.3	0.1	995.7	142.9	7.3682	3.4348	1.0803	0	
25-07-24	3:00:00	28.5	28.4	28.3	87.3	86.6	86.1	0.1	995.2	142.8	7.1743	3.4625	1.4681	0	
25-07-24	4:00:00	28.6	28.4	28.3	87.3	86.6	86	0.1	994.4	143	7.7283	3.2963	0.5263	0	
25-07-24	5:00:00	28.7	28.5	28.3	87.6	86.3	84.8	0.1	994.1	143.1	8.4485	3.4625	1.0803	0	
25-07-24	6:00:00	29	28.8	28.6	85.4	84.8	84.3	0.1	994.2	143.4	9.1964	3.7672	1.0803	0	
25-07-24	7:00:00	29.2	28.9	28.7	85	84	82.5	2.5	995.4	143.4	9.1964	3.6564	1.2742	0	
25-07-24	8:00:00	29.4	29.1	29	82.8	81.8	80.6	15.1	995.9	143.4	7.8945	3.4071	1.2742	0	
25-07-24	9:00:00	29.6	28.5	26.4	81.9	81.1	79.9	48.5	996.4	143	9.0025	3.601	1.0803	0	
25-07-24	10:00:00	30.3	30.2	29.5	80.5	78.8	77.4	125.8	997.2	143.3	8.6424	3.6841	0.9141	0	
25-07-24	11:00:00	30.5	30.3	30.1	79.9	78.5	77.4	143.5	997	143.3	9.0025	3.7672	1.4681	0	
25-07-24	12:00:00	30.4	30.1	29.9	80.9	79.9	78.9	105.7	996.9	143.2	7.7283	3.6841	0.9141	0	
25-07-24	13:00:00	31.1	30.4	30.1	82	80.3	77.9	126.3	996.7	143.2	8.4485	3.4625	0.9141	0	
25-07-24	14:00:00	31.8	31.2	30.9	79.3	75.8	72.2	156.4	996.5	143.7	9.5565	3.3794	0.9141	0	
25-07-24	15:00:00	31.4	30.9	30	82.4	77.9	74.2	120.9	996	143.6	7.7283	3.2409	0.9141	0	
25-07-24	16:00:00	30.9	30.6	30.3	81.8	79.2	77.6	117.1	995.6	144	9.7504	3.2686	1.2742	0	
25-07-24	17:00:00	30.8	30.3	29.8	81.1	79.8	78.9	70.9	995.3	144	9.5565	3.9057	1.2742	0	
25-07-24	18:00:00	30.1	29.7	29.4	82.3	80.7	79.7	18.6	995.1	143.5	10.6645	4.4874	1.8282	0	
25-07-24	19:00:00	29.6	29.3	29	83.5	82	80.4	5.2	995.4	143.1	10.3044	4.2381	1.4681	0	
25-07-24	20:00:00	29.3	29	28.8	86.4	84.6	82.4	0	995.7	143.6	7.5344	3.2686	0.5263	0	
25-07-24	21:00:00	29.3	29.1	28.9	85.8	84.4	82.1	0	996	143.3	7.5344	3.1855	0.9141	0	

Dahej Station															
DATE	TIME	AT_Max	AT_Avg	AT_Min	RH_Max	RH_Avg	RH_Min	SOLAR	BP	WD	WS_Max	WS_Avg	WS_Min	RAIN	
DD/MM/YY	HH:MM:SS	DegC	DegC	DegC	%	%	%	W/m2	mbar	Deg	m/s	m/s	m/s	mm	
25-07-24	22:00:00	29.4	29.2	29	83.8	82.6	81.8	0	996.4	142.7	8.8363	3.878	1.2742	0	
25-07-24	23:00:00	29.2	29.1	29	84.4	83.7	83	0	996.9	142.9	7.5344	3.2686	0.9141	0	
26-07-24	0:00:00	29.1	29	28.9	84.6	84	83.4	0	996.7	142.7	6.0663	2.6315	0.3601	0	
26-07-24	1:00:00	29.2	29	28.7	84.3	83.2	82.4	0	996.5	142.9	5.7062	2.7146	0.7202	0	
26-07-24	2:00:00	29	28.8	28.7	85.5	84.1	83	0	996.2	142.9	6.6203	3.2132	0.7202	0	
26-07-24	3:00:00	28.9	28.7	28.6	86.5	85.8	85.2	0	995.6	142.8	7.1743	3.3517	0.5263	0	
26-07-24	4:00:00	28.8	28.7	28.5	86.6	86	85.6	0	995.7	142.8	7.5344	3.7118	1.2742	0	
26-07-24	5:00:00	28.7	28.6	28.5	86.6	86.1	85.2	0	995.7	142.9	7.3682	3.1855	0.7202	0	
26-07-24	6:00:00	28.8	28.6	28.5	86.4	85.4	84.3	0	995.8	143.3	7.1743	2.9916	0.5263	0	
26-07-24	7:00:00	29	28.8	28.6	85	83.3	82.6	10.7	996.7	142.9	7.7283	3.5179	0.7202	0	
26-07-24	8:00:00	29.2	29	26	83.8	82.8	81.9	43.1	996.8	143.1	9.7504	4.1273	1.0803	0	
26-07-24	9:00:00	29.7	29.4	29	83.2	82.4	81.6	73.2	997.8	143.3	10.6645	4.5982	1.2742	0	
26-07-24	10:00:00	30.2	29.7	29.5	82.6	81.6	80.8	80.6	998.2	143.6	9.1964	3.9888	1.0803	0	
26-07-24	11:00:00	30.9	30.2	29.5	82.1	79.9	77.5	145.6	998.7	143.5	9.3903	3.8226	0.5263	0	
26-07-24	12:00:00	30.9	30.6	30.3	81.1	79.2	77.8	142.6	998.7	143.8	9.5565	3.4625	0	0	
26-07-24	13:00:00	30.9	30.5	30.3	81.7	80.3	78.8	131.7	998.3	143.5	10.4983	3.0747	0.1662	0	
26-07-24	14:00:00	32.2	31.4	30.7	80	77.3	74.9	250.5	998.1	144.5	9.1964	2.9916	0	0	
26-07-24	15:00:00	32.5	31.4	30.4	81.5	77.2	73.1	225.3	997.4	143	12.3265	3.601	1.0803	0	
26-07-24	16:00:00	31.9	31.1	30.1	83.3	79.3	75.4	186.5	996.9	143.6	10.4983	3.4071	1.0803	0	
26-07-24	17:00:00	30.3	29.8	29.5	87.6	85.9	83.2	50.8	996.1	144	11.2185	3.324	1.4681	0	
26-07-24	18:00:00	30.3	30	29.6	86.9	85.2	84.2	29.6	996.1	143.4	11.4124	3.6287	1.4681	0	
26-07-24	19:00:00	30.2	30	29.7	86.2	85.5	85	19.3	996.4	143.7	9.3903	3.4071	0.5263	0	
26-07-24	20:00:00	29.9	29.7	29.5	88.4	87.2	85.2	0.1	996.7	144.4	7.8945	2.9639	0	0	
26-07-24	21:00:00	30	29.8	29.6	87.8	86.9	83.6	0	997.6	144.3	8.8363	3.0747	0.3601	0	
26-07-24	22:00:00	30	29.8	29.6	83.8	83	82.2	0	998	143.4	9.3903	3.6841	0.7202	0	
26-07-24	23:00:00	29.8	29.7	29.5	83.8	83	82.2	0	998.2	142.9	10.1105	3.8226	0.9141	0	

Dahej Station															
DATE	TIME	AT_Max	AT_Avg	AT_Min	RH_Max	RH_Avg	RH_Min	SOLAR	BP	WD	WS_Max	WS_Avg	WS_Min	RAIN	
DD/MM/YY	HH:MM:SS	DegC	DegC	DegC	%	%	%	W/m2	mbar	Deg	m/s	m/s	m/s	mm	
27-07-24	0:00:00	29.7	29.4	29.2	84.6	83.6	82.5	0	998.6	143.1	10.8584	4.3212	1.4681	0	
27-07-24	1:00:00	29.4	29.1	28.8	86.5	85	84.3	0	998.1	142.9	9.9443	4.3489	1.4681	0	
27-07-24	2:00:00	29.1	29	28.8	86.8	85.9	85.1	0	997.9	143.3	7.7283	3.1855	0.9141	0	
27-07-24	3:00:00	29.1	29	28.8	85.5	84.9	83.5	0	997.3	142.8	8.6424	3.7949	0	0	
27-07-24	4:00:00	29.2	29	28.8	84.4	83.7	83.2	0	997.6	142.9	9.3903	4.0442	0.9141	0	
27-07-24	5:00:00	29	28.9	28.7	84.8	83.9	82.9	0	997.8	142.8	10.6645	4.5705	1.6343	0	
27-07-24	6:00:00	29	28.9	28.7	84.2	83.3	82.7	0	997.5	143	10.8584	3.9334	0.1662	0	
27-07-24	7:00:00	29.1	28.9	28.7	83.7	83.1	82.2	0.3	998	143.2	8.6424	3.8503	1.2742	0	
27-07-24	8:00:00	29.2	29	28.9	84.4	83.5	82.6	13	998.6	143.1	8.8363	3.8503	1.0803	0	
27-07-24	9:00:00	29.5	29.3	29	83.6	81.3	79.9	45.9	999.6	142.6	9.0025	4.5982	1.6343	0	
27-07-24	10:00:00	30.4	30	29.4	80.7	78.7	76.4	104.9	999.9	143	7.7283	3.1855	0.7202	0	
27-07-24	11:00:00	29.9	29.7	29.5	81	79.6	78.5	79.1	1000	143.1	7.8945	3.1855	0.7202	0	
27-07-24	12:00:00	30.8	30.2	29.6	79.9	77.9	75.4	138.2	1000.2	143.1	8.6424	3.1301	0	0	
27-07-24	13:00:00	31.3	30.9	30.5	77.1	76	74.4	202.8	1000	143	7.1743	2.5761	0	0	
27-07-24	14:00:00	31.7	29.4	26.3	76.6	75	73	223.9	999.2	143.5	6.2602	2.1883	0	0	
27-07-24	15:00:00	31.4	28	25.1	77.7	75.8	74.4	161.5	998.4	143.7	6.8142	1.7728	0	0	
27-07-24	16:00:00	30.8	28.4	25.8	82.7	80.8	76.8	42.9	997.9	143.6	5.1522	1.2465	0	0	
27-07-24	17:00:00	30	29	24.8	84.2	83	81.8	18	997.7	144.2	5.3184	1.3573	0	0	
27-07-24	18:00:00	29.9	29.7	29.6	85.3	83.8	82.1	23.7	997.4	143.3	7.5344	2.1606	0	0	
27-07-24	19:00:00	29.9	29.5	29.3	83.7	83.1	82.3	10.6	997	143	8.4485	2.7146	0	0	
27-07-24	20:00:00	29.6	29.4	29.2	86.8	85.2	83.2	0.1	997.7	143.1	5.7062	2.216	0	0	
27-07-24	21:00:00	29.5	29.3	29.1	84	83	82.1	0	998.2	143.1	7.8945	2.4099	0	0	
27-07-24	22:00:00	29.4	29.2	29	84.3	83.5	82.9	0	998.4	143.2	7.1743	2.4099	0	0	
27-07-24	23:00:00	29.3	29.1	28.9	85.4	84.2	83	0	998.4	143.1	6.6203	2.4376	0	0	
28-07-24	0:00:00	29.3	28.9	28.6	87.3	85.3	83.8	0	998.4	143.1	6.2602	2.3822	0	0	
28-07-24	1:00:00	29	28.7	28.5	87.3	85.9	84.3	0.1	998.1	142.8	6.9804	2.9362	0.5263	0	

Dahej Station															
DATE	TIME	AT_Max	AT_Avg	AT_Min	RH_Max	RH_Avg	RH_Min	SOLAR	BP	WD	WS_Max	WS_Avg	WS_Min	RAIN	
DD/MM/YY	HH:MM:SS	DegC	DegC	DegC	%	%	%	W/m2	mbar	Deg	m/s	m/s	m/s	mm	
28-07-24	2:00:00	29	28.6	28.3	88.9	87.1	84.9	0.1	997.4	142.8	6.8142	3.0193	0.1662	0	
28-07-24	3:00:00	28.7	28.4	28.3	88.7	88	87.4	0.1	996.7	142.8	5.8724	2.5207	0	0	
28-07-24	4:00:00	28.7	28.5	28.3	88.6	88.1	87.6	0.2	996.3	142.6	5.5123	2.1883	0	0	
28-07-24	5:00:00	28.7	28.5	28.4	88	87.3	86.6	0.2	996.3	142.8	5.3184	2.2991	0	0	
28-07-24	7:00:00	28.6	28.4	28.2	88.7	88.3	87.9	2.3	997	142.8	6.2602	2.1606	0	0	
28-07-24	8:00:00	29	28.7	28.5	88.1	86.7	85.9	19.1	997.8	142.8	6.2602	3.047	0.3601	0	
28-07-24	9:00:00	29.2	28.9	28.7	86.8	86	85.3	32.8	998.3	142.7	6.6203	2.77	0	0	
28-07-24	10:00:00	29.6	29.2	29	85.9	85.1	83	61.1	998.3	142.8	5.3184	2.9916	0.7202	0	
28-07-24	11:00:00	31	30.3	29.5	83.4	80	77	165.5	998.5	142.9	5.5123	2.3268	0	0	
28-07-24	12:00:00	31	30.7	30.4	79.3	77.9	77	160.7	998.6	143	5.7062	1.939	0	0	
28-07-24	13:00:00	32.1	31.3	30.8	78.3	75.7	73.1	184.6	998.2	143.8	4.9583	1.3296	0	0	
28-07-24	14:00:00	31.4	31.1	30.5	80.8	77.2	75.3	121	997.4	144.3	5.7062	1.0526	0	0	
28-07-24	15:00:00	31	30.6	30.1	83.6	81.1	78.9	66.5	996.4	146.8	5.7062	0.3878	0	0	
28-07-24	16:00:00	30.2	29.4	29	91.8	89.2	83.6	46.3	995.5	146.1	4.5982	1.0249	0	1	
28-07-24	17:00:00	29.6	29.2	29	91.4	90.1	88.2	35.2	995.1	144.1	5.1522	1.1634	0	0	
28-07-24	18:00:00	29.4	29.1	28.9	91.4	90.4	89.7	18	994.6	143.9	5.3184	1.8559	0	0	
28-07-24	19:00:00	29.2	29	28.8	92	91.4	90.1	5.2	994.6	144.9	6.8142	1.939	0	0	
28-07-24	20:00:00	29.4	29.1	28.8	91.5	90.1	88	0.2	994.7	143.2	8.0884	2.6869	0.3601	0	
28-07-24	21:00:00	29.4	29.1	28.9	88.9	86.5	84.6	0.2	995.6	143.4	6.2602	2.4099	0	0	
28-07-24	22:00:00	29.5	29.3	29.1	89.4	88.3	86.5	0.2	995.8	143.8	8.0884	2.6592	0	0	
28-07-24	23:00:00	29.5	29.3	29.1	89.9	89.5	88.8	0.3	996	143.3	8.0884	2.4099	0	0	
29-07-24	0:00:00	29.4	29.2	29	90.3	89.4	88	0.3	995.8	143	8.4485	2.9639	0	0	
29-07-24	1:00:00	29.3	29.1	28.8	90.2	89.3	88	0.2	995.2	142.8	8.0884	3.3517	0	0	
29-07-24	2:00:00	29.2	28.9	28.7	89.8	89.1	88.6	0.3	994.2	142.9	6.4264	2.3545	0	0	
29-07-24	3:00:00	29	28.7	28.5	90.3	89.8	89.2	0.2	993.6	142.8	6.0663	2.1606	0	0	
29-07-24	4:00:00	28.9	28.7	28.5	89.7	88.7	88.2	0.1	993.1	142.9	6.2602	2.5761	0	0	

Dahej Station															
DATE	TIME	AT_Max	AT_Avg	AT_Min	RH_Max	RH_Avg	RH_Min	SOLAR	BP	WD	WS_Max	WS_Avg	WS_Min	RAIN	
DD/MM/YY	HH:MM:SS	DegC	DegC	DegC	%	%	%	W/m2	mbar	Deg	m/s	m/s	m/s	mm	
29-07-24	5:00:00	28.8	28.6	28.5	89.2	88.7	88	0.1	993.2	142.8	6.9804	2.2991	0	0	
29-07-24	6:00:00	28.8	28.6	28.5	89.1	88.6	88.2	0.1	993.7	142.8	7.5344	2.8531	0	0	
29-07-24	7:00:00	28.7	28.5	28	91.9	89.2	88.3	0.1	994.2	142.6	7.1743	2.4099	0	0.5	
29-07-24	8:00:00	28.2	27.9	27.7	94.9	93.9	91.8	0	995	143	5.7062	2.1606	0	1.5	
29-07-24	9:00:00	28	27.8	27.5	95.8	95.3	94.6	3.5	995.4	143.3	7.7283	2.5484	0.7202	3	
29-07-24	10:00:00	28.4	28	27.6	95.6	94.6	93.4	49.7	995.8	142.9	7.8945	3.324	0.7202	0	
29-07-24	11:00:00	28.7	28.4	28.1	93.7	91.5	90	54.1	995.9	143.2	8.6424	3.0747	0.7202	0	
29-07-24	12:00:00	28.8	28.3	28	93.7	92.6	90.7	71.6	995.9	142.7	6.4264	2.77	0.5263	2	
29-07-24	13:00:00	29.2	28.9	28.6	93.2	91.5	90.8	77.3	995.8	143.1	5.1522	1.4681	0	0	
29-07-24	14:00:00	29.2	29	28.6	92.6	91.8	91.2	66.9	995.4	143.1	4.0442	0.8033	0	0	
29-07-24	15:00:00	29.1	28.9	28.4	93.8	93.3	92.2	83.6	994.9	145.7	3.6841	0.9141	0	0	
29-07-24	16:00:00	29	28.2	27.6	93.8	93	92.4	38.5	994	143.9	7.8945	2.3545	0	0	
29-07-24	17:00:00	27.9	27.5	26.9	95.6	93.8	92.4	15.7	993.2	143.5	8.8363	3.1301	0.5263	1	
29-07-24	18:00:00	27.7	27.2	26.9	98.3	96	95.3	4.2	993	143.2	7.5344	1.9944	0	0.5	
29-07-24	19:00:00	28	27.7	27.3	99	96.4	96.1	1.4	993.8	143.6	5.5123	1.8005	0	0.5	
29-07-24	20:00:00	28	27.5	26.8	99.3	97.6	96.3	0	995.1	142.7	7.3682	2.3545	0	13.5	
29-07-24	21:00:00	27.8	27.3	26.5	99.9	98.9	97	0	995.7	143	5.3184	1.6897	0	12.5	
29-07-24	22:00:00	28	27.4	26.7	99.9	99	97.1	0	996.1	142.7	4.7644	0.5263	0	3.5	
29-07-24	23:00:00	28.1	27.5	27	99.6	97.3	96.1	0	996.5	142.7	2.9362	0.5817	0	2	
30-07-24	0:00:00	27.8	27.6	27.1	98.8	96.4	96.2	0	996.6	142.6	2.7423	0.8587	0	0	
30-07-24	1:00:00	28.3	28	27.5	98.1	96.1	94.6	0	996.4	142.9	5.1522	1.3573	0	0.5	
30-07-24	2:00:00	28.3	28.2	28	94.8	93.7	91.2	0	996.4	142.8	6.9804	2.3545	0	0	
30-07-24	3:00:00	28.3	27.9	27.6	94.2	92.9	91.1	0	996.2	143.5	6.6203	2.5484	0.3601	0.5	
30-07-24	4:00:00	28.2	27.9	27.6	94.2	92.8	90.7	0	996.1	143.3	7.5344	2.9085	0.1662	0	
30-07-24	5:00:00	28.5	28.2	27.9	91.1	90.5	89.9	0.1	996.2	143.1	7.8945	2.6869	0.3601	0	
30-07-24	6:00:00	28.6	28.3	28.1	91.2	90.7	89.9	0.2	996.4	143.5	5.8724	2.2437	0	0	

Dahej Station															
<b>DATE</b>	<b>TIME</b>	<b>AT_Max</b>	<b>AT_Avg</b>	<b>AT_Min</b>	<b>RH_Max</b>	<b>RH_Avg</b>	<b>RH_Min</b>	<b>SOLAR</b>	<b>BP</b>	<b>WD</b>	<b>WS_Max</b>	<b>WS_Avg</b>	<b>WS_Min</b>	<b>RAIN</b>	
<b>DD/MM/YY</b>	<b>HH:MM:SS</b>	<b>DegC</b>	<b>DegC</b>	<b>DegC</b>	<b>%</b>	<b>%</b>	<b>%</b>	<b>W/m2</b>	<b>mbar</b>	<b>Deg</b>	<b>m/s</b>	<b>m/s</b>	<b>m/s</b>	<b>mm</b>	
30-07-24	7:00:00	28.8	28.5	28.3	90.8	89.8	88.6	5.4	996.8	143.8	6.4264	2.1052	0	0	
30-07-24	8:00:00	29.4	29	28.6	88.8	87.8	86.8	44	997.9	143.3	6.2602	2.3268	0.3601	0	
30-07-24	9:00:00	30.3	30	29.3	87.4	84.7	82.5	130.9	999.2	143.5	7.7283	2.6315	0.1662	0	
30-07-24	10:00:00	30.6	30	29.8	83.4	81	79.5	134.4	1000.3	143.3	8.0884	3.2132	0.9141	0	
30-07-24	11:00:00	31.2	30.2	29.7	82.3	80.4	76.8	157.9	1000.1	143.1	7.5344	2.8531	0.3601	0	
30-07-24	12:00:00	32.3	31.7	30.9	77.7	75.1	72.6	351.4	1000.8	143.4	7.3682	2.7423	0	0	
30-07-24	13:00:00	33.2	32.5	32	74.5	72.2	68.9	351	1000.8	144.5	6.4264	1.9667	0	0	
30-07-24	14:00:00	33.7	31.8	28	86.9	74.6	69.2	235.5	1000.2	142.4	8.2823	1.9113	0	0	
30-07-24	15:00:00	33.5	30.9	28.4	86.4	77.2	69.2	243.9	999.4	143	5.1522	1.5789	0	0	
30-07-24	16:00:00	33	31.2	30.6	82.8	79.8	70.5	119.4	999.2	143.4	6.4264	1.8282	0	0	
30-07-24	17:00:00	31.1	30.6	30	83.2	78.9	74.3	97.1	998.3	142.9	8.0884	2.1883	0	0	
30-07-24	18:00:00	31.1	30.2	29.6	84.6	82.3	76.3	41	998.3	143.3	9.3903	2.6315	0	0	
30-07-24	19:00:00	29.7	27.8	27.1	94.7	90.6	82.4	5.6	998.1	142.7	11.4124	3.4902	0.3601	4	
30-07-24	20:00:00	29	28.5	27.6	95.1	92.7	89.7	0.1	998.4	143.7	7.7283	2.6869	0	0	
30-07-24	21:00:00	29.2	28.9	28.7	90.1	89.3	88.6	0.1	999.5	143.7	9.3903	3.5179	1.0803	0	
30-07-24	22:00:00	29.3	29.1	28.9	88.9	88	87.3	0.2	1000.4	143.5	9.5565	3.4625	1.2742	0	
30-07-24	23:00:00	29.4	29.1	29	88.5	87.3	86.2	0.3	1001.2	143.4	7.3682	3.2686	0.7202	0	
31-07-24	0:00:00	29.3	29.1	29	87.1	86.3	84.8	0.4	1001.3	143.5	7.8945	2.9085	0.5263	0	
31-07-24	1:00:00	29.3	29.1	28.9	86.8	85.6	84.6	0.5	1001.6	143.5	7.8945	2.5484	0.1662	0	
31-07-24	2:00:00	29.2	28.9	28.7	86.8	86	85.3	0.6	1001	143.2	7.1743	2.77	0	0	
31-07-24	3:00:00	29	28.8	28.6	86.4	85.2	84.6	0.7	1000.2	143.1	7.3682	2.8531	0	0	
31-07-24	4:00:00	28.8	28.6	28.4	87.4	86.3	85.7	0.7	999.6	143.1	5.7062	2.493	0	0	
31-07-24	5:00:00	28.6	28.4	28.2	88.4	87.9	87.1	0.7	999.6	143.1	5.7062	2.1052	0	0	
31-07-24	6:00:00	28.5	28.3	28.1	89.2	88.5	88	0.8	999.6	142.7	4.2104	1.6897	0	0	
31-07-24	7:00:00	28.7	28.3	28.1	89.2	88.6	87.5	7	999.9	142.9	5.1522	1.8282	0	0	
31-07-24	8:00:00	29.8	29.1	28.5	87.8	85.8	82.5	60.1	1001.6	143	5.3184	2.1883	0	0	

Dahej Station															
DATE	TIME	AT_Max	AT_Avg	AT_Min	RH_Max	RH_Avg	RH_Min	SOLAR	BP	WD	WS_Max	WS_Avg	WS_Min	RAIN	
DD/MM/YY	HH:MM:SS	DegC	DegC	DegC	%	%	%	W/m2	mbar	Deg	m/s	m/s	m/s	mm	
31-07-24	9:00:00	30.7	30.4	29.5	83.9	79.6	77.4	191.8	1003.7	142.4	7.3682	2.5484	0	0	
31-07-24	10:00:00	32.2	31.3	30.5	78.4	73.7	69.3	231.8	1004	143.2	5.3184	1.8282	0	0	
31-07-24	11:00:00	32.5	31.5	30.8	76.8	74.1	69.9	220.8	1004.3	143	5.5123	1.0803	0	0	
31-07-24	12:00:00	32.4	31.4	29.4	77.6	75	69.6	162.1	1004.2	144	4.9583	0.9418	0	0	
31-07-24	13:00:00	32.5	31.9	31.1	77.2	74.2	71.7	182.4	1003.8	143.1	4.0442	0.4709	0	0	
31-07-24	14:00:00	33.4	32.9	31.9	73.9	71.1	68.5	344.9	1003.4	142.7	7.5344	1.1634	0	0	
31-07-24	15:00:00	32.3	30	28.9	83.4	79.9	73.3	160.3	1001.7	142.7	8.8363	2.1329	0	0	
31-07-24	16:00:00	31.1	29.3	28	88.2	83.9	79.2	82.6	1000.8	143.3	10.3044	2.1329	0	0	
31-07-24	17:00:00	31	30.3	29.7	83	80.4	77.2	74.7	1000.4	144.8	6.9804	1.8005	0	0	
31-07-24	18:00:00	31	30.3	29.6	83	78.2	74.3	72.4	1000	143.8	7.5344	2.3545	0	0	
31-07-24	19:00:00	30.2	29.3	28.2	84.6	81.9	78.1	19.9	999.6	143.1	11.0523	3.8226	0.9141	0	
31-07-24	20:00:00	29.5	29.2	29	84.2	82.1	79.7	1.3	1000	143.5	9.3903	3.1578	0.5263	0	
31-07-24	21:00:00	29.7	29.5	29.3	87	85.5	83.6	0.3	1000.9	143.3	6.9804	2.9362	1.0803	0	
31-07-24	22:00:00	29.6	29.4	29.2	84.8	83.6	82.7	0.3	1001.5	143.3	7.7283	3.047	0.7202	0	
31-07-24	23:00:00	29.6	29.4	29.2	85.5	84.2	82.5	0.3	1002.4	143.3	8.0884	3.324	1.0803	0	
01-08-24	0:00:00	29.4	29.3	29.1	83	82.6	82	0.3	1001.9	143.2	9.0025	4.0165	1.2742	0	
01-08-24	1:00:00	29.4	29.1	29	84.1	83.4	82.6	0.3	1001	143	8.2823	3.7395	1.2742	0	
01-08-24	2:00:00	29.2	28.9	28.7	86	84.3	83.4	0.3	1000.9	142.8	8.6424	3.4348	0.3601	0	
01-08-24	3:00:00	28.9	28.7	28.6	86.2	84.6	83	0.3	1000.3	142.8	8.4485	3.0193	0.7202	0	
01-08-24	4:00:00	28.7	28.6	28.4	85.8	84.4	82.5	0.3	999.6	143	11.4124	3.8226	0.9141	0	
01-08-24	5:00:00	28.7	28.6	28.4	85.9	85.2	84.5	0.3	999.4	142.8	8.8363	3.6287	0.5263	0	
01-08-24	6:00:00	28.7	28.5	28.3	86.3	84.8	83.9	0.3	999.4	142.8	6.8142	2.8254	0	0	
01-08-24	7:00:00	28.7	28.5	28.3	85.9	84.3	83.4	1.9	999.5	143.1	6.0663	2.7146	0.3601	0	
01-08-24	8:00:00	28.8	28.6	28.4	85.6	84.9	83.8	18.5	999.8	142.6	6.8142	2.6038	0	0	
01-08-24	9:00:00	29.4	29.2	28.6	85.5	83.8	82.8	75.7	1001.4	143	7.7283	2.493	0	0	
01-08-24	10:00:00	30.2	29.8	29.2	83.8	81.3	79.5	122.6	1002.1	143.5	6.4264	2.3545	0	0	





Final EMP Report for Dahej-Hazira-Ghogha for 13<sup>th</sup> July to 12<sup>th</sup> August 2024

Dahej Station														
DATE	TIME	AT_Max	AT_Avg	AT_Min	RH_Max	RH_Avg	RH_Min	SOLAR	BP	WD	WS_Max	WS_Avg	WS_Min	RAIN
DD/MM/YY	HH:MM:SS	DegC	DegC	DegC	%	%	%	W/m2	mbar	Deg	m/s	m/s	m/s	mm
02-08-24	13:00:00	31.5	31.2	30.5	77.7	74.6	73	241.4	1000.9	143	9.9443	4.2658	0.9141	0
02-08-24	14:00:00	32.6	31.7	30.7	77	72.2	68.1	313.2	1000.2	143.5	10.8584	4.0165	1.2742	0
02-08-24	15:00:00	31.9	31.1	30.5	76.4	73.2	69.9	170.9	999.6	143.3	9.3903	3.5456	1.4681	0
02-08-24	16:00:00	31	30.6	30.1	80.1	75.8	72.2	190	998.9	143.4	10.1105	3.7395	1.6343	0
02-08-24	17:00:00	31.6	30.9	29.9	79.3	74.8	71.9	187.9	998.5	143	9.9443	3.7118	1.2742	0
02-08-24	18:00:00	30.2	29.7	28.9	85	80.9	78.8	38.5	998	143	15.0965	3.9057	0.9141	0
02-08-24	19:00:00	29	28.2	27.8	89.5	88.6	85	10.3	997.9	142.7	11.0523	3.5179	0.5263	0
02-08-24	20:00:00	29.2	28.8	28.3	88.7	87.7	86.2	0.6	998.4	144.5	6.6203	2.3268	0.3601	0
02-08-24	21:00:00	29.2	28.4	27.7	90.1	87.3	84.8	0.1	998.8	142.9	9.7504	3.7949	1.2742	0
02-08-24	22:00:00	28.8	28.6	28.3	87.3	85.4	83.2	0.3	999.5	143.3	9.0025	3.5179	1.0803	0
02-08-24	23:00:00	28.7	28.3	27.8	88.9	87.8	85.7	0.4	999.8	144	9.7504	3.047	1.0803	0
03-08-24	0:00:00	28.7	28.3	28	89	87.4	85.2	0.2	999.7	143.1	8.6424	3.1301	0.9141	0
03-08-24	1:00:00	28.6	28.2	27.9	89.6	88.1	85.9	0.3	999.4	143.2	8.6424	3.7118	1.0803	0
03-08-24	2:00:00	28.1	27.5	27.2	93.7	92.3	89	0	998.8	143.2	9.7504	4.0996	1.4681	0.5
03-08-24	3:00:00	27.8	27.6	27.2	93.3	91.6	90.6	0	998.1	143	8.8363	4.2381	1.6343	1
03-08-24	4:00:00	27.8	27.5	27.2	93.8	92.6	91.5	0	997.3	143.1	10.1105	4.4874	1.6343	0.5
03-08-24	5:00:00	28.1	27.8	27.6	91.9	90.9	90	0.2	997.6	142.8	10.3044	4.3766	1.4681	0
03-08-24	6:00:00	28.1	27.9	27.7	91.5	90.5	89.6	0.2	998	143	7.3682	3.2409	0.9141	0
03-08-24	7:00:00	28.3	28.1	27.8	91.2	89.3	87.6	3	998.2	142.9	7.1743	2.8808	0.5263	0
03-08-24	8:00:00	28.8	28.5	28.1	88	86.3	85	34.5	999.1	142.9	6.4264	3.2132	0.3601	0
03-08-24	9:00:00	29.6	28.9	28.5	86.5	84.5	81.4	83.1	999.5	142.9	8.6424	3.5733	0.7202	0
03-08-24	10:00:00	30	29.4	29.1	83.7	82.8	81.1	112.8	1000.1	143	8.4485	3.1855	0	0
03-08-24	11:00:00	31.5	30.8	29.9	81.5	76.5	73.1	266.8	1001.3	143.2	9.5565	3.4348	0	0
03-08-24	12:00:00	31.6	31.3	30.9	76.8	73.8	71.5	208.2	1001.1	143.6	8.2823	2.8531	0	0
03-08-24	13:00:00	31.8	30.1	28.3	91.8	81.1	70.7	124.9	1000.3	143.9	6.8142	2.2437	0	4
03-08-24	14:00:00	31.4	30.4	29	89.6	82.7	76.9	250.7	1000	144	5.8724	1.4127	0	0

Dahej Station															
DATE	TIME	AT_Max	AT_Avg	AT_Min	RH_Max	RH_Avg	RH_Min	SOLAR	BP	WD	WS_Max	WS_Avg	WS_Min	RAIN	
DD/MM/YY	HH:MM:SS	DegC	DegC	DegC	%	%	%	W/m2	mbar	Deg	m/s	m/s	m/s	mm	
03-08-24	15:00:00	30.9	29.7	28.2	91.7	85.2	79.9	118.9	999	143.6	9.5565	2.9916	0.1662	1.5	
03-08-24	16:00:00	28.7	28.3	27.3	93.4	92.5	91.4	51.2	998	143.8	12.8805	3.9611	1.2742	3.5	
03-08-24	17:00:00	28.1	27.7	27.1	94.8	93.7	92.6	30.9	997.8	143	10.8584	3.047	0.5263	4	
03-08-24	18:00:00	28.2	27.4	26.5	96.1	94.2	92.8	2.8	997.9	142.8	14.7364	4.3766	0	19	
03-08-24	19:00:00	27.5	27.3	27	96.1	95.6	95.2	0.1	998.2	142.7	9.0025	3.5179	0.3601	2.5	
03-08-24	20:00:00	27.7	27.5	27.2	96	95.4	95.1	0	999.2	142.8	8.0884	3.2686	0.5263	5.5	
03-08-24	21:00:00	27.8	27.6	27.4	96	95.6	95	0	999.8	143	7.8945	3.5456	0.9141	1	
03-08-24	22:00:00	28.1	27.8	27.6	95.3	93.6	92.4	0	1000.6	143.2	9.3903	3.1301	0.7202	0	
03-08-24	23:00:00	28.3	28.1	27.8	92.6	91.1	90	0.1	1001.6	142.8	8.2823	3.5733	1.2742	0	
04-08-24	0:00:00	28.5	28.2	28.1	90.8	90.2	89.2	0.2	1001.2	142.7	6.8142	3.2963	1.2742	0	
04-08-24	1:00:00	28.4	28.2	28.1	90	89.5	88.9	0.3	1000.7	142.8	6.0663	2.77	0.5263	0	
04-08-24	2:00:00	28.3	28	27.8	91	90.2	89.2	0.5	999.8	143.1	6.4264	2.5761	0.5263	0	
04-08-24	3:00:00	28.3	28.1	27.9	90.5	89.4	88.7	0.6	999.2	142.8	7.7283	3.1578	0.9141	0	
04-08-24	4:00:00	28.3	28.2	28	90.3	89.4	88.5	0.7	998.7	142.9	7.5344	3.6287	1.2742	0	
04-08-24	5:00:00	28.3	28.1	28	89.8	88.6	87.5	1	998.4	142.9	9.0025	4.1273	1.0803	0	
04-08-24	6:00:00	28.5	28.3	28.1	88.3	87.2	86.4	1.2	999.1	142.8	8.2823	4.0165	1.4681	0	
04-08-24	7:00:00	28.4	28.2	28.1	88.9	88.3	87.9	4.2	999.4	143	6.8142	2.8808	0.1662	0	
04-08-24	8:00:00	28.7	28.5	28.2	88.4	87.1	86.4	21.3	1000.1	142.9	6.8142	3.2686	0.9141	0	
04-08-24	9:00:00	28.8	28.6	28.4	88	86.8	85.7	30	1001	142.9	6.6203	3.1855	0.7202	0	
04-08-24	10:00:00	29.2	28.9	28.6	86.8	85.8	84.4	58	1001.8	142.8	5.8724	3.1578	0.9141	0	
04-08-24	11:00:00	29.5	29.2	28.9	86	84.6	82.7	65.5	1002.2	143	5.5123	2.5484	0.3601	0	
04-08-24	12:00:00	30.3	29.7	28.9	86.1	82.5	79.9	119.2	1002.1	143	6.4264	2.6869	0.3601	0	
04-08-24	13:00:00	31.8	30.6	29.9	82	79	74.4	149.1	1001.6	142.7	4.9583	1.2188	0	0	
04-08-24	14:00:00	31.8	31.3	30.8	79.1	76.9	73.7	161.8	1001	143.7	5.1522	1.4681	0	0	
04-08-24	15:00:00	30.9	30.3	30	84.5	82.8	79	117.6	999.9	143.1	8.2823	2.216	0	0	
04-08-24	16:00:00	30.3	29.7	28.3	92.3	85.5	83	64.6	999.2	143.5	9.3903	2.4653	0.3601	4	

Dahej Station															
DATE	TIME	AT_Max	AT_Avg	AT_Min	RH_Max	RH_Avg	RH_Min	SOLAR	BP	WD	WS_Max	WS_Avg	WS_Min	RAIN	
DD/MM/YY	HH:MM:SS	DegC	DegC	DegC	%	%	%	W/m2	mbar	Deg	m/s	m/s	m/s	mm	
04-08-24	17:00:00	29	28.6	28.3	93.4	92.8	92.1	19.9	998.4	144.2	6.9804	2.3268	0.3601	1	
04-08-24	18:00:00	29	28.7	28.1	93.9	91.6	90.8	7.9	998.8	143.9	9.5565	2.9639	0.5263	2.5	
04-08-24	19:00:00	28.7	28.5	28.2	94.7	93.5	92.2	2	999.2	143.4	9.0025	2.9916	0.3601	0	
04-08-24	20:00:00	28.8	28.6	28.5	92.6	91.5	90.8	0.1	999.7	143.5	8.0884	2.9085	0.1662	0	
04-08-24	21:00:00	28.7	28.4	28.3	92.7	92.1	91.4	0	1000	144.3	7.1743	2.6315	0.5263	0.5	
04-08-24	22:00:00	28.6	28.4	28.2	92.4	91.4	90.5	0	1000.9	143.4	6.9804	2.6038	0.5263	0	
04-08-24	23:00:00	28.7	28.5	28.3	90.8	89.5	88.5	0.1	1001.6	143.3	7.7283	3.0193	0	0	
05-08-24	0:00:00	28.7	28.5	28.3	89.1	88.1	87	0.3	1001.4	143.5	7.1743	3.4071	0	0	
05-08-24	1:00:00	28.6	28.4	28.3	88	87.3	86.3	0.7	1000.5	143.2	8.8363	3.7118	0.7202	0	
05-08-24	2:00:00	28.6	28.4	28.2	87.9	87.2	86.5	1	1000.2	143.1	8.6424	3.7395	1.2742	0	
05-08-24	3:00:00	28.6	28.3	28.1	88.2	87.1	86	0.9	1000.2	143	10.1105	4.5428	1.6343	0	
05-08-24	4:00:00	28.5	27	26.5	95.7	93.6	86.9	0	999.6	142.7	11.9664	3.6564	0.1662	1	
05-08-24	5:00:00	27.8	27.4	26.9	95.7	93.4	89.9	0	999.6	143.1	8.0884	3.0193	0	0	
05-08-24	6:00:00	28.1	27.8	27.6	90.2	89.1	88.2	0.2	999.6	142.8	8.2823	3.7949	1.0803	0	
05-08-24	7:00:00	28.4	28.1	27.8	89.7	88.4	87.3	3.6	1000.4	142.9	9.3903	4.155	1.0803	0	
05-08-24	8:00:00	28.7	28.4	28.2	87.6	86.8	86.1	26.4	1001.5	142.9	11.4124	4.6813	1.6343	0	
05-08-24	9:00:00	28.9	28.7	28.4	87.1	86	85	41.1	1002.7	142.7	8.6424	4.432	1.0803	0	
05-08-24	10:00:00	29.4	28.9	28.7	86.6	85.3	83.8	62.7	1003.2	142.7	9.3903	4.4043	1.2742	0	
05-08-24	11:00:00	30.1	29.8	29.2	84.1	81.9	80.6	145.2	1003.6	143	9.5565	3.8226	1.0803	0	
05-08-24	12:00:00	31	30.8	29.6	82.9	77.6	76.3	161	1004.4	145.6	7.8945	2.4099	0.1662	0	
05-08-24	13:00:00	32	31.2	30.6	80.6	78	75.5	279.8	1004.2	143.9	8.6424	2.9639	0.5263	0	
05-08-24	14:00:00	32	31.2	30.4	80.5	77.2	74.2	250.1	1003.6	142.9	11.0523	3.6564	0.5263	0	
05-08-24	15:00:00	30.5	29.1	28.5	87.8	84.4	77.8	118.3	1002	143.3	11.7725	4.4043	1.4681	0.5	
05-08-24	16:00:00	29.2	28.9	28.4	89.2	87.2	85.2	63.7	1001.5	143.7	9.9443	3.0193	0.3601	0	
05-08-24	17:00:00	29.6	29.3	28.8	87.9	85.8	84.4	65.1	1001.2	144.1	5.7062	1.8559	0	0	
05-08-24	18:00:00	29.5	28.6	27.9	92.1	88.1	81.7	26.3	1000.7	143.5	9.7504	3.1024	0.1662	0	

Dahej Station															
DATE	TIME	AT_Max	AT_Avg	AT_Min	RH_Max	RH_Avg	RH_Min	SOLAR	BP	WD	WS_Max	WS_Avg	WS_Min	RAIN	
DD/MM/YY	HH:MM:SS	DegC	DegC	DegC	%	%	%	W/m2	mbar	Deg	m/s	m/s	m/s	mm	
05-08-24	19:00:00	29.3	28.7	28.2	88.9	85.6	81	7.9	1001.1	143.8	8.0884	2.5761	0	0	
05-08-24	20:00:00	29.2	28.7	28.4	89.4	88.1	87	0.1	1001.6	143.6	7.5344	2.8531	0	0	
05-08-24	21:00:00	29.2	29	28.7	87.5	83.1	80.3	0.3	1002.5	142.9	11.0523	3.5733	0	0	
05-08-24	22:00:00	29	28.8	28.5	85	84	83	0.2	1002.8	143.1	7.8945	3.4071	1.0803	0	
05-08-24	23:00:00	28.7	28.6	28.4	86.2	85	83.2	0.4	1003.2	143.2	8.8363	3.6564	0.7202	0	
06-08-24	0:00:00	28.7	28.4	28.3	85.6	84.4	82	0.8	1003.6	142.8	8.8363	3.4902	0.3601	0	
06-08-24	1:00:00	28.6	28.4	28.1	83.4	82.6	81.6	0.7	1003.5	142.9	8.2823	3.6287	0.9141	0	
06-08-24	2:00:00	28.3	28.1	27.9	84.8	83.8	83.2	0.6	1003	142.7	8.0884	3.4071	0.7202	0	
06-08-24	3:00:00	28.2	27.8	27.4	88.4	85.4	83.5	0.4	1002.3	142.8	6.8142	3.1024	0	0	
06-08-24	4:00:00	28.2	28	27.7	86.6	84.7	83.7	0.7	1001.9	142.8	8.6424	3.6287	0.9141	0	
06-08-24	5:00:00	28.2	28	27.8	85.3	84.2	83.5	0.9	1001.5	142.7	8.4485	3.6564	0.7202	0	
06-08-24	6:00:00	28.2	28	27.8	86.8	85.6	84.7	0.8	1001.9	142.9	7.7283	3.2686	0.1662	0	
06-08-24	7:00:00	28.3	28.1	27.8	86.9	85.4	84.3	5.9	1002	142.8	7.7283	3.0193	0	0	
06-08-24	8:00:00	28.9	28.5	28.1	86.8	84.7	81.6	40.1	1002.7	142.4	8.8363	3.4071	0	0	
06-08-24	9:00:00	29.5	29	28.3	84.6	79.9	74.8	79.4	1003.6	142.7	11.4124	4.709	1.4681	0	
06-08-24	10:00:00	31.1	30.2	29.3	75.8	73.9	72.1	231.4	1004.2	143.2	11.5786	4.1273	1.0803	0	
06-08-24	11:00:00	31.6	31	30.5	74.9	72.5	70.4	284.4	1004.5	143.1	10.8584	4.3489	1.2742	0	
06-08-24	12:00:00	31.2	30.5	30.1	77.5	75.3	71.2	124.9	1004.2	142.9	9.5565	3.5179	1.0803	0	
06-08-24	13:00:00	31.4	30.5	30.2	75.3	73.4	70.4	137.6	1003.9	142.9	7.3682	2.9916	0	0	
06-08-24	14:00:00	31.7	30.5	26.9	88.6	77.7	70.9	135.2	1003.6	142.8	12.3265	3.2963	0	0	
06-08-24	15:00:00	29	27.4	26.3	91.5	87.6	81.8	104.6	1002.2	143.6	10.6645	2.2714	0	0.5	
06-08-24	16:00:00	30.9	29.9	28.9	82.9	80.6	77.3	122.3	1002.4	143.3	9.1964	2.1052	0	0	
06-08-24	17:00:00	29.4	27.4	26.6	92.1	89.9	80.9	39.7	1000.7	143.3	10.8584	2.1883	0	2	
06-08-24	18:00:00	29	28.7	28	91.4	87.9	85.5	46.5	1000.7	143.3	8.4485	3.1301	0	0	
06-08-24	19:00:00	29.2	29	28.7	88.5	86.6	84.8	18.9	1000.8	143.5	8.0884	2.8531	0.5263	0	
06-08-24	20:00:00	29.1	28.8	28.6	89.2	88.1	86.4	1.1	1001.2	143.2	6.4264	2.4653	0.5263	0	

Dahej Station															
<b>DATE</b>	<b>TIME</b>	<b>AT_Max</b>	<b>AT_Avg</b>	<b>AT_Min</b>	<b>RH_Max</b>	<b>RH_Avg</b>	<b>RH_Min</b>	<b>SOLAR</b>	<b>BP</b>	<b>WD</b>	<b>WS_Max</b>	<b>WS_Avg</b>	<b>WS_Min</b>	<b>RAIN</b>	
<b>DD/MM/YY</b>	<b>HH:MM:SS</b>	<b>DegC</b>	<b>DegC</b>	<b>DegC</b>	<b>%</b>	<b>%</b>	<b>%</b>	<b>W/m2</b>	<b>mbar</b>	<b>Deg</b>	<b>m/s</b>	<b>m/s</b>	<b>m/s</b>	<b>mm</b>	
06-08-24	21:00:00	29.1	29	28.8	90.8	89.5	88.4	0.6	1002.2	143.6	7.8945	2.6315	0.1662	0	
06-08-24	22:00:00	29.1	28.9	28.7	90.7	89.2	87.6	0.7	1002.8	143.5	6.0663	2.216	0	0	
06-08-24	23:00:00	28.9	28.7	28.5	89.8	84.8	82.4	0.9	1003.2	142.8	5.5123	1.8836	0	0	
07-08-24	0:00:00	28.8	28.6	28.4	85.5	84.5	83.3	1	1003.4	143.1	6.4264	2.6315	0.3601	0	
07-08-24	1:00:00	28.6	28.3	28	87	86.2	85.3	1	1003.1	143.2	7.8945	2.9916	0.5263	0	
07-08-24	2:00:00	28.3	28.2	28	88.4	87.4	86.6	1.3	1002.5	142.9	8.2823	3.1024	0.3601	0	
07-08-24	3:00:00	28.6	28.3	28.1	88.4	86	83.4	1.5	1002.4	143.2	7.5344	3.1024	0.5263	0	
07-08-24	4:00:00	28.6	28.5	28.3	83.6	82.1	81.2	1.5	1001.8	143	9.1964	4.0165	0.9141	0	
07-08-24	5:00:00	28.5	28.3	28.1	84.1	83.3	81.7	1.1	1001.8	142.8	8.6424	3.9611	1.0803	0	
07-08-24	6:00:00	28.5	28.3	28.1	85.1	84.1	83	1.1	1001.7	142.7	8.2823	3.5733	0.9141	0	
07-08-24	7:00:00	28.5	28.3	28.1	86.3	84.9	84.1	2.3	1002.9	143	8.0884	3.4071	0.7202	0	
07-08-24	8:00:00	29.2	28.6	28.2	86.5	84.7	82.5	57	1003.3	143	7.1743	2.9362	0.5263	0	
07-08-24	9:00:00	29.6	29.3	29	83.2	81.6	80	104.5	1004.2	143.4	6.2602	2.6592	0.3601	0	
07-08-24	10:00:00	30.6	29.9	29	82.8	79.1	74.9	182.6	1005	142.9	6.2602	2.5761	0	0	
07-08-24	11:00:00	31.4	30.9	30.3	77.6	75	72.5	249.1	1005.2	143.4	7.3682	2.6869	0	0	
07-08-24	12:00:00	32.7	31.9	31	75.6	70.4	66.8	323.5	1005.3	143.2	7.5344	2.4099	0	0	
07-08-24	13:00:00	33.2	32.7	32.4	69.8	65.1	62.2	303.9	1005	143.2	7.3682	2.7977	0	0	
07-08-24	14:00:00	33.3	32.7	32.2	66.2	63.4	59.8	292.5	1004.4	142.9	8.6424	3.2686	0.1662	0	
07-08-24	15:00:00	33.1	32.3	31.5	75.7	71.3	61.3	289.3	1003.7	142.8	8.8363	2.3268	0	0	
07-08-24	16:00:00	33	30.8	27.8	91.4	77.5	69.1	132.3	1002.8	143.3	9.3903	2.7977	0	6	
07-08-24	17:00:00	29.8	29.3	28.1	92.1	88	85.8	80.2	1001.8	143.7	8.2823	2.6315	0	0	
07-08-24	18:00:00	30.3	29.9	29.6	85.9	84.7	83.3	65.9	1002.1	144.1	7.3682	2.2437	0	0	
07-08-24	19:00:00	30.3	29.6	29.1	87.3	84.7	81.8	25.9	1002.6	144.5	7.5344	2.0221	0	0	
07-08-24	20:00:00	29.4	29.2	29	88	85.8	83.5	1.3	1002.8	144.2	8.8363	2.3268	0.3601	0	
07-08-24	21:00:00	29.4	29.2	29	87.8	84	82.1	1	1003.3	143.5	8.8363	2.9085	0.5263	0	
07-08-24	22:00:00	29.5	29.3	29	84	81.5	80	0.6	1003.8	143.2	9.7504	3.5733	0.5263	0	

Dahej Station															
DATE	TIME	AT_Max	AT_Avg	AT_Min	RH_Max	RH_Avg	RH_Min	SOLAR	BP	WD	WS_Max	WS_Avg	WS_Min	RAIN	
DD/MM/YY	HH:MM:SS	DegC	DegC	DegC	%	%	%	W/m2	mbar	Deg	m/s	m/s	m/s	mm	
07-08-24	23:00:00	29.5	29.2	29	82.4	80.8	79	0.7	1004.4	143.2	8.6424	3.7118	0.5263	0	
08-08-24	0:00:00	29.2	28.9	28.6	84.1	82.2	80.2	1	1004.4	143	10.1105	4.2104	1.2742	0	
08-08-24	1:00:00	29	28.6	28.2	84.8	82.8	81.2	0.9	1004.3	142.9	9.1964	4.4043	1.4681	0	
08-08-24	2:00:00	28.5	28.3	28.1	85.8	84.3	82.9	0.8	1003.6	142.8	9.1964	3.8503	0	0	
08-08-24	3:00:00	28.5	28.3	28.1	85.1	84	83.2	0.8	1003.2	143	9.9443	4.3212	1.2742	0	
08-08-24	4:00:00	28.3	28.2	28.1	86.2	85.5	84.6	0.7	1002.5	143.1	9.5565	3.9611	0.7202	0	
08-08-24	5:00:00	28.5	28.3	28.1	85.6	85	84.1	0.8	1002.5	143.3	9.5565	3.7118	0.9141	0	
08-08-24	6:00:00	28.6	28.4	28.3	85.7	84.9	83.8	0.8	1002.6	143	9.3903	3.5733	0.7202	0	
08-08-24	7:00:00	28.6	28.4	28.2	85.5	84.2	83.4	4.2	1003.2	143.2	9.5565	3.324	0.5263	0	
08-08-24	8:00:00	29.5	28.7	28.3	83.9	82.3	79.5	54	1004.1	142.9	7.1743	2.9916	0	0	
08-08-24	9:00:00	29.7	29.2	28.8	82.6	80.5	78.4	102.7	1004.9	142.7	9.7504	3.4902	0.5263	0	
08-08-24	10:00:00	31.1	30.2	29.4	80.4	77.9	74.6	233.1	1006	143	10.1105	3.6564	0.3601	0	
08-08-24	11:00:00	31.6	31.2	30.8	75.3	73	70.7	276.2	1006.6	143.1	7.8945	2.77	0	0	
08-08-24	12:00:00	32.5	31.4	30.5	75.2	71.2	64.8	206.4	1006.3	143.1	6.0663	1.939	0	0	
08-08-24	13:00:00	32.5	32.2	31.2	70.6	68.5	65.3	170.8	1005.8	152.7	5.5123	0.5817	0	0	
08-08-24	14:00:00	32.4	31.5	30.7	76	72.2	68.4	123.4	1004.9	154.9	4.7644	0.8587	0	0	
08-08-24	15:00:00	32.3	31.9	31.7	75.3	73.9	71.7	212.4	1004.6	151.8	9.5565	1.5512	0	0	
08-08-24	16:00:00	32	31.1	30.4	80.7	77.2	74.1	118.7	1003.7	145.3	8.8363	1.7728	0	0	
08-08-24	17:00:00	31	30.6	30.1	81.6	79.5	77.9	137.8	1003.2	144	10.8584	3.0747	0.9141	0	
08-08-24	18:00:00	30.5	30.1	29.7	82.9	81	78.8	67	1003.1	144.1	9.3903	3.5179	1.2742	0	
08-08-24	19:00:00	29.9	29.6	29.4	84.6	83.7	82.3	15.8	1003.1	144.5	8.4485	3.1301	0.7202	0	
08-08-24	20:00:00	29.6	29.4	29.2	84.9	83.9	83.1	1.1	1003.5	143.5	8.8363	3.2409	0.9141	0	
08-08-24	21:00:00	29.5	29.2	29	85.8	85	84	0.7	1003.7	143.9	11.2185	3.4902	0.5263	0	
08-08-24	22:00:00	29.3	29.1	29	86	85.4	84.7	0.6	1004.4	143.5	10.3044	3.4071	0.7202	0	
08-08-24	23:00:00	29.2	29	28.9	85.3	84.6	84	0.6	1005.1	143.8	9.7504	3.4625	1.2742	0	
09-08-24	0:00:00	29.1	28.9	28.7	84.2	82.9	81.4	0.6	1005	143.3	8.6424	3.2686	0	0	

Dahej Station															
DATE	TIME	AT_Max	AT_Avg	AT_Min	RH_Max	RH_Avg	RH_Min	SOLAR	BP	WD	WS_Max	WS_Avg	WS_Min	RAIN	
DD/MM/YY	HH:MM:SS	DegC	DegC	DegC	%	%	%	W/m2	mbar	Deg	m/s	m/s	m/s	mm	
09-08-24	1:00:00	29	28.6	28.4	84.3	83.2	81.3	0.6	1004.6	143.2	6.9804	2.6869	0.3601	0	
09-08-24	2:00:00	28.6	28.4	28.2	85.4	84.4	83.4	0.5	1004.4	142.7	8.0884	3.5179	0.9141	0	
09-08-24	3:00:00	28.5	28.2	28.1	86.2	85.5	84.8	0.5	1003.7	143	8.4485	3.2686	0.9141	0	
09-08-24	4:00:00	28.3	28.1	28	87	86.4	85.9	0.4	1003.5	142.8	6.4264	2.7146	0	0	
09-08-24	5:00:00	28.2	28	27.9	88.2	87.3	86.4	0.4	1003.4	142.6	4.4043	1.3019	0	0	
09-08-24	6:00:00	28.4	28.2	28	87.8	86.9	86.4	0.4	1003.5	142.7	4.9583	2.2991	0	0	
09-08-24	7:00:00	28.3	28.2	28	88.4	87.8	87.1	3	1003.9	142.7	4.9583	2.1606	0	0	
09-08-24	8:00:00	28.8	28.5	28.1	88.4	87.1	85.5	23.9	1004.7	142.7	4.5982	2.1052	0	0	
09-08-24	9:00:00	30.8	29.4	28.7	85.9	82.5	75.8	108	1006.3	142.7	5.7062	2.0221	0.1662	0	
09-08-24	10:00:00	31.1	30.4	29.9	79.8	77.3	75.1	155.7	1007.3	142.6	5.7062	1.4958	0	0	
09-08-24	11:00:00	32.3	31.4	30.8	76.5	73.8	70.3	206.7	1007.9	144.1	4.0442	0.6371	0	0	
09-08-24	12:00:00	33	32.4	31.9	71.9	69.4	67.5	296.8	1008.2	143.9	4.2104	0.7756	0	0	
09-08-24	13:00:00	33.6	32.4	31.5	74.7	71	66.1	256.9	1007.4	146.8	5.1522	0.6371	0	0	
09-08-24	14:00:00	33.7	33.3	32.5	70.7	67.1	64.6	284.7	1007.1	146.6	5.7062	0.7756	0	0	
09-08-24	15:00:00	32.6	31.9	31.3	75.2	73.3	70.3	177.2	1005.9	148.9	6.0663	1.3019	0	0	
09-08-24	16:00:00	33.2	32.4	31.9	74	72	69.1	277.8	1005.5	145.4	6.8142	1.4681	0	0	
09-08-24	17:00:00	32.9	31.5	30.9	77.9	75.5	70	145.3	1004.7	145.2	8.2823	1.8282	0	0	
09-08-24	18:00:00	31.4	30.7	29.9	82.8	79.4	76.7	75.2	1004.3	144.5	11.7725	2.216	0	0	
09-08-24	19:00:00	30.1	29.8	29.6	85	83.7	82.2	12.5	1004.3	144.5	10.3044	2.7977	0.3601	0	
09-08-24	20:00:00	29.9	29.7	29.5	86.1	85	84.1	0.9	1004.9	144.2	10.3044	3.3794	0.7202	0	
09-08-24	21:00:00	29.8	29.6	29.5	86.4	86	85.7	0.6	1005.6	144.1	9.1964	3.1024	0	0	
09-08-24	22:00:00	30.1	29.8	29.5	86.6	82.2	76.5	0.5	1006.2	142.9	6.9804	2.4376	0	0	
09-08-24	23:00:00	30	29.7	29.4	77.7	75.5	73.8	0.8	1006.2	142.6	5.1522	1.939	0	0	
10-08-24	0:00:00	29.6	29.4	29.2	77.8	76.8	75.3	0.8	1006.1	142.7	6.2602	2.7423	0.3601	0	
10-08-24	1:00:00	29.5	29.3	29	78.1	76.6	75.7	0.8	1005.7	142.7	6.8142	2.493	0	0	
10-08-24	2:00:00	29.3	28.9	28.5	82.8	78.9	75.8	0.8	1004.7	142.8	5.7062	2.1606	0	0	

Dahej Station															
DATE	TIME	AT_Max	AT_Avg	AT_Min	RH_Max	RH_Avg	RH_Min	SOLAR	BP	WD	WS_Max	WS_Avg	WS_Min	RAIN	
DD/MM/YY	HH:MM:SS	DegC	DegC	DegC	%	%	%	W/m2	mbar	Deg	m/s	m/s	m/s	mm	
10-08-24	3:00:00	28.6	28.5	28.3	82.8	82.1	81.6	0.7	1004.3	142.7	6.4264	2.9639	0.5263	0	
10-08-24	4:00:00	28.5	28.3	28.2	82	81.2	80.6	0.7	1003.8	142.7	6.9804	3.047	0.3601	0	
10-08-24	5:00:00	28.5	28.4	28.2	81.9	81.3	80.7	0.7	1004.3	142.7	6.8142	2.9362	0.1662	0	
10-08-24	6:00:00	28.4	28.2	28.1	83.8	82.5	81.3	0.7	1004.3	142.7	7.1743	2.7977	0	0	
10-08-24	7:00:00	28.4	28.2	28	83.9	82.9	81.9	4	1004.8	142.7	6.4264	2.7146	0	0	
10-08-24	8:00:00	28.8	28.6	28.3	82.2	80.9	80.2	30.5	1005.6	143	6.4264	3.0193	0.7202	0	
10-08-24	9:00:00	29.3	29	28.7	80.6	79.5	78.3	58.7	1006.2	142.9	6.6203	2.5207	0	0	
10-08-24	10:00:00	30.5	29.9	29.2	79.1	76.4	73.5	143.2	1006.9	143.3	6.9804	2.0498	0	0	
10-08-24	11:00:00	31.9	31.2	30.3	74.9	72.1	69.4	250.7	1007.7	144	6.6203	1.7728	0	0	
10-08-24	12:00:00	32.9	31.7	31	74.4	70.5	65.5	250.5	1007.7	143.4	4.7644	0.8864	0	0	
10-08-24	13:00:00	32.6	29.9	26.9	92.1	78	66.6	118.6	1006.5	142.6	13.2406	3.7672	0	3	
10-08-24	14:00:00	27.1	26.6	26.3	92.5	91.4	90.3	57.1	1005	142.9	10.3044	4.6259	0	1.5	
10-08-24	15:00:00	27.4	27	26.7	93.7	92.4	91.7	48.9	1004.3	142.9	5.3184	1.7451	0	1	
10-08-24	16:00:00	27.8	27.2	26.8	94.1	93	91.4	59.9	1004	146	5.1522	0.8864	0	0.5	
10-08-24	17:00:00	29.4	28.8	27.6	91.5	87.6	85	104.2	1004.1	146.3	7.7283	0.9418	0	0	
10-08-24	18:00:00	29.5	29	28.3	89.1	87.5	86.5	29.6	1003.3	145.1	7.1743	1.5235	0	0	
10-08-24	19:00:00	28.7	28.3	28.1	88.9	85.5	84.1	12.9	1003	143	6.2602	1.5512	0	0	
10-08-24	20:00:00	29.4	28.9	28.6	86.8	84.6	80.8	2.1	1003.3	143	6.2602	2.1883	0	0	
10-08-24	21:00:00	29.5	29.3	29.1	81.8	80.2	78.8	1.7	1004.2	143	7.7283	3.1301	0.3601	0	
10-08-24	22:00:00	29.5	29.3	29.1	81	78.5	77.2	1.8	1004.7	142.7	5.3184	2.5761	0.1662	0	
10-08-24	23:00:00	29.3	29.1	28.8	79.3	77.8	76.8	1.8	1005.3	142.9	5.8724	2.1329	0	0	
11-08-24	0:00:00	29.1	28.9	28.6	78.9	77.5	76.7	1.8	1004.9	142.8	6.6203	2.3268	0	0	
11-08-24	1:00:00	28.9	28.6	28.3	79.2	77.8	76.5	1.6	1004.2	142.9	8.2823	2.9639	0.3601	0	
11-08-24	2:00:00	28.6	28.3	28.1	82	80.5	78.9	1.6	1003.4	143	6.6203	2.4376	0	0	
11-08-24	3:00:00	28.2	28	27.8	84.6	83.1	81.8	1.6	1003	142.8	6.2602	2.8254	0.5263	0	
11-08-24	4:00:00	28.1	27.9	27.8	85.3	84.6	83.9	1.6	1002.8	142.8	7.3682	2.7977	0	0	

Dahej Station															
DATE	TIME	AT_Max	AT_Avg	AT_Min	RH_Max	RH_Avg	RH_Min	SOLAR	BP	WD	WS_Max	WS_Avg	WS_Min	RAIN	
DD/MM/YY	HH:MM:SS	DegC	DegC	DegC	%	%	%	W/m2	mbar	Deg	m/s	m/s	m/s	mm	
11-08-24	5:00:00	28.1	27.9	27.8	86.8	85.9	84.9	1.6	1002.7	142.8	5.7062	2.5761	0.5263	0	
11-08-24	6:00:00	28.1	27.9	27.8	86.8	86.3	85.7	1.6	1002.8	143.1	6.6203	2.493	0	0	
11-08-24	7:00:00	28.3	28.1	27.9	86.2	85.3	84.8	3.3	1002.9	143.3	7.8945	3.4625	0.9141	0	
11-08-24	8:00:00	28.7	28.4	28.1	85.3	84.6	83.2	25.1	1003.4	143	9.7504	3.4902	0.9141	0	
11-08-24	9:00:00	29	28.7	28.4	85	83.4	82.2	49	1004.1	143.1	9.5565	4.1827	0.3601	0	
11-08-24	10:00:00	29	28.5	27.8	86.4	83.9	82.2	63.2	1004.4	143.3	10.3044	3.4625	1.0803	0	
11-08-24	11:00:00	30.4	29.7	28.9	82.8	78.8	76.2	149	1005	144	6.6203	2.5207	0	0	
11-08-24	12:00:00	32.5	31.5	30.3	76.7	72.1	68.5	325	1005.5	143.4	7.1743	2.2437	0	0	
11-08-24	13:00:00	33.2	32.3	31.6	72.6	69.7	67.6	361.2	1005.1	143.2	7.8945	1.7728	0	0	
11-08-24	14:00:00	32.8	31.9	30.5	75.1	70.2	66.4	258.2	1004.1	142.9	9.1964	1.9113	0	0	
11-08-24	15:00:00	30.7	29.2	28.3	89.3	85.1	74.9	102	1002.5	144.2	9.0025	2.2991	0	0	
11-08-24	16:00:00	30	29.4	28.3	86.9	83.6	82	88.5	1001.8	143.7	10.4983	3.0747	0	0	
11-08-24	17:00:00	30	29.3	28.3	88.5	84.9	81.6	72.5	1001.1	143.9	8.2823	2.1606	0	0	
11-08-24	18:00:00	29.1	28.4	27.7	90.8	88.6	85.9	35.3	1000.4	144.1	11.0523	2.8254	0	1	
11-08-24	19:00:00	29	28.8	28.5	87.6	86.1	83.7	10.9	1000.8	143.9	7.8945	2.6592	0.5263	0	
11-08-24	20:00:00	29.5	29.1	28.7	86.2	83.5	80.4	0.8	1001.2	144.1	7.8945	2.493	0	0	
11-08-24	21:00:00	29.3	29.1	28.9	87.5	86.9	86	0.6	1001.9	143.6	9.3903	3.1301	0.5263	0	
11-08-24	22:00:00	29.2	29	28.8	86.9	84.7	83.2	0.6	1002.7	143.2	7.3682	2.9085	0.5263	0	
11-08-24	23:00:00	29.1	28.8	28.5	84	82.4	80.7	1.1	1002.9	143	7.1743	2.9085	0.3601	0	
12-08-24	0:00:00	28.7	28.5	28.3	83	82.2	80.9	1.5	1002.9	143.5	7.3682	2.493	0	0	
12-08-24	1:00:00	28.7	28.5	28.4	83	82.4	81.7	1.5	1002.5	142.9	4.9583	1.5512	0	0	
12-08-24	2:00:00	28.7	28.5	28.3	84.4	82.6	81.5	1.6	1001.8	143.2	4.2104	0.9418	0	0	
12-08-24	3:00:00	28.7	28.5	28.3	84.9	84.1	83.5	1.7	1001.6	143	5.7062	2.1329	0	0	
12-08-24	4:00:00	28.7	28.2	27.6	89.6	86.7	84.3	0.8	1001.5	142.9	6.8142	2.0221	0	0	
12-08-24	5:00:00	28.3	28.1	27.8	89.1	87.4	85.9	0.7	1001.6	142.6	7.8945	3.2132	0	0	
12-08-24	6:00:00	28.2	27.7	27.4	91	88.7	85.7	0.8	1001.6	142.5	7.7283	3.0747	0	0	

Dahej Station															
DATE	TIME	AT_Max	AT_Avg	AT_Min	RH_Max	RH_Avg	RH_Min	SOLAR	BP	WD	WS_Max	WS_Avg	WS_Min	RAIN	
DD/MM/YY	HH:MM:SS	DegC	DegC	DegC	%	%	%	W/m2	mbar	Deg	m/s	m/s	m/s	mm	
12-08-24	7:00:00	28.6	27.8	27.4	92.4	90.6	86.6	3	1002.3	142.7	4.7644	1.0803	0	0	
12-08-24	8:00:00	28.9	28.6	28.3	86.9	85.6	83.7	22.6	1002.9	143	6.9804	2.6869	0	0	
12-08-24	9:00:00	28.9	28.5	28.2	87.3	85.3	83.6	31.4	1003.5	142.7	9.1964	3.4902	0.7202	0	
12-08-24	10:00:00	28.7	28.5	28.2	87.8	86.1	84.6	44.4	1004.3	142.8	6.8142	2.9362	0.5263	0	
12-08-24	11:00:00	30	29	28.2	88.5	85	81.3	120.4	1004.8	143.2	5.8724	2.0775	0	0	
12-08-24	12:00:00	29.4	27.6	27	91.9	91.6	83	51.8	1004.5	144.1	8.0884	0.8587	0	0	
12-08-24	13:00:00	28.3	28	27.7	91.8	90.2	88	91.5	1004.1	143.4	6.4264	1.9113	0	0.5	
12-08-24	14:00:00	28.6	28.1	27.3	92.1	88.7	86.9	48.4	1003.4	143.2	6.0663	1.7728	0	0.5	
12-08-24	15:00:00	28.4	27.7	27.3	93.8	92.7	91.2	64.9	1003	140.9	2.9362	0.3324	0	4	
12-08-24	16:00:00	28	27.1	26	95.8	93.3	91.2	10.5	1001.7	146.9	6.2602	0.6925	0	15	
12-08-24	17:00:00	27.3	26.7	26.2	96	95.3	94.7	6.5	1001.8	153.1	5.7062	0.6925	0	1	
12-08-24	18:00:00	28.3	27.9	27.2	95.6	93.6	90.5	7.6	1001.8	144.3	5.3184	1.4958	0	0	
12-08-24	19:00:00	28.7	28.4	28.1	90.8	89.3	88.5	7.6	1001.9	143.3	5.8724	1.8836	0	0	
12-08-24	20:00:00	28.8	28.6	28.4	90.6	89.8	89.1	0.2	1002.5	143.9	7.1743	2.1606	0	0	
12-08-24	21:00:00	28.7	28	27.7	91.2	89.9	88.4	0.1	1002.8	143.4	5.7062	2.1052	0	0	
12-08-24	22:00:00	28.3	27.8	27.2	93.8	91.5	88.8	0.1	1003.3	143	4.9583	0.9141	0	3	
12-08-24	23:00:00	28.3	28.1	27.8	92.2	89.7	88.7	0.1	1004	142.7	5.1522	2.1329	0	0	

### Hazira Meteorological Data

Hazira Station															
DATE	TIME	AT_Max	AT_Avg	AT_Min	RH_Max	RH_Avg	RH_Min	SOLAR	BP	WD	WS_Max	WS_Avg	WS_Min	RAIN	
DD/MM/YY	HH:MM:SS	DegC	DegC	DegC	%	%	%	W/m2	mbar	Deg	m/s	m/s	m/s	mm	
13-07-24	0:00:00	31.6	31.2	30.4	88.5	87.1	84.8	0	1000.9	258.5	8.864	3.4348	1.662	0	
13-07-24	1:00:00	31.6	30.5	29.7	88.7	86.8	83.9	0	999.8	248.8	13.6561	4.2935	1.8282	0	
13-07-24	2:00:00	31	30.6	30.1	92.3	89.3	86.8	0	999.1	240.6	9.972	3.9334	1.4681	0	
13-07-24	3:00:00	30.8	29.4	28.7	95.2	93.2	90	0	998.3	268.6	13.296	3.8503	0.7202	0	
13-07-24	4:00:00	29.4	28.8	28.3	97	95.8	93.3	0	999.1	302.5	14.0162	4.0442	0.9141	0	
13-07-24	5:00:00	29.4	28.9	28.5	96.9	96.1	95.1	0	999.1	293.2	11.634	3.2132	0.9141	0	
13-07-24	6:00:00	29.6	29.1	28.7	97	96.6	96.2	0	1000.6	263.3	5.7062	2.0775	0.9141	0	
13-07-24	7:00:00	30	29.2	28.7	97.4	96.6	95.3	0	1000.1	263	11.9941	3.7395	1.108	0	
13-07-24	8:00:00	30.2	29.7	29.2	97.4	97	96.5	7.8	1002.3	278.2	4.7921	1.8005	0.554	0	
13-07-24	9:00:00	31.2	30.5	29.9	96.9	96	94	47.9	1005.9	290.5	2.9362	0.6371	0	0	
13-07-24	10:00:00	31.3	30.9	30.4	94.7	90.1	85.1	75.1	1006	298.6	5.1522	1.9113	0	0	
13-07-24	11:00:00	32.2	30.7	29.9	85.2	83.5	82.2	39.3	1000.9	296.3	4.7921	1.9113	0.554	0	
13-07-24	12:00:00	32.9	32	31.6	82.7	81.6	78.7	62.3	1000.4	297.6	3.4902	1.5235	0	0	
13-07-24	13:00:00	33.3	32.5	31.9	82.5	80.6	78.3	68.2	1000.2	230.6	4.7921	2.0221	0.1662	0	
13-07-24	14:00:00	32.8	31.4	30.4	93	86.8	80.7	109.4	999.3	154.6	9.7781	5.263	0.7202	0	
13-07-24	15:00:00	31.2	30.6	30.2	96.3	94.6	92.4	53.1	1000	169.6	9.5842	4.7644	1.108	0	
13-07-24	16:00:00	32.5	31.5	31	94	91.2	87.4	116	1003.3	199.6	7.5621	3.9334	2.0221	0	
13-07-24	17:00:00	32.9	32.5	32.2	87.7	85.9	84.9	107.7	1001.7	212.5	10.1382	4.3489	2.0221	0	
13-07-24	18:00:00	32.9	32.5	32.2	87.2	86	84.9	52.5	997.8	242.7	11.634	4.9583	2.5761	0	
13-07-24	19:00:00	32.5	32.2	31.9	87.8	87.3	86.6	6.6	997.2	249.4	11.634	5.1245	2.3822	0	
13-07-24	20:00:00	32.3	32	31.7	88.2	87.7	87.1	0	997.5	242.2	15.3181	5.8447	2.5761	0	
13-07-24	21:00:00	32.3	31.9	31.6	88.4	88	87.6	0	998.3	244.8	13.6561	6.0663	2.5761	0	
13-07-24	22:00:00	32.2	31.9	31.5	87.8	86.3	84.2	0	998.7	256.5	14.2101	6.094	2.3822	0	
13-07-24	23:00:00	32.2	31.9	31.5	86.5	85.5	84	0	999.4	266.8	12.9082	5.4569	2.77	0	

Hazira Station															
DATE	TIME	AT_Max	AT_Avg	AT_Min	RH_Max	RH_Avg	RH_Min	SOLAR	BP	WD	WS_Max	WS_Avg	WS_Min	RAIN	
DD/MM/YY	HH:MM:SS	DegC	DegC	DegC	%	%	%	W/m2	mbar	Deg	m/s	m/s	m/s	mm	
14-07-24	0:00:00	32.1	31.8	31.4	86.2	85.5	85.1	0	999.7	278.4	11.4401	5.0414	2.3822	0	
14-07-24	1:00:00	32	31.7	31.4	85.5	85.1	84.7	0	999.3	299	12.3542	4.5982	2.216	0	
14-07-24	2:00:00	31.9	31.6	31.3	85.7	84.9	84.5	0	998.8	296.3	9.5842	3.9611	1.4681	0	
14-07-24	3:00:00	31.8	31.4	31.1	86.1	85.5	84.8	0	998.1	299.1	7.0081	3.2132	1.108	0	
14-07-24	4:00:00	31.6	31.3	31	85.8	85.4	85	0	997.9	289.7	9.0302	3.6841	1.2742	0	
14-07-24	5:00:00	31.4	31.2	31	86.6	85.8	85.1	0	997.9	290	6.648	2.9362	1.2742	0	
14-07-24	6:00:00	31.4	31.1	30.8	87.2	86.7	85.8	0	997.8	301.6	5.54	2.2991	0.7202	0	
14-07-24	7:00:00	31.6	31.1	30.8	87.1	86.6	86.2	3	998.4	287.1	4.0442	1.6066	0.3601	0	
14-07-24	8:00:00	31.9	31.5	31.2	86.7	85.9	85	19.6	999.2	283.4	4.2381	1.4681	0	0	
14-07-24	9:00:00	32.6	32	31.4	85.4	83.2	80.9	72.8	999.5	301.7	6.2602	3.047	0.7202	0	
14-07-24	10:00:00	32.9	32.5	32.3	81.5	79.7	78.3	109.9	999.8	307.3	7.202	3.4902	1.2742	0	
14-07-24	11:00:00	34.1	33.4	32.5	79.3	76.2	73.7	288.9	1000.4	304.1	7.202	3.1024	0.9141	0	
14-07-24	12:00:00	34.6	34	33.7	74.9	73.1	70.5	307.9	1000.3	299.5	6.648	2.8531	0.7202	0	
14-07-24	13:00:00	35.4	34.7	34.1	72.6	70.6	68.2	390	999.6	286.2	8.1161	2.8808	1.108	0	
14-07-24	14:00:00	36.9	35.7	34.8	71.2	66.8	62.4	405.9	999.2	271.9	7.756	2.4099	0.1662	0	
14-07-24	15:00:00	36.6	35.9	35.4	70.2	67.5	63.4	364.2	998.4	234.2	9.7781	4.2935	1.662	0	
14-07-24	16:00:00	36	35.4	34.8	72.8	70.1	67.6	292.6	997.3	239.3	11.8002	5.3184	2.216	0	
14-07-24	17:00:00	35.6	35.1	34.6	74.2	72.3	70.5	208.9	996.2	241.7	11.9941	5.5677	2.5761	0	
14-07-24	18:00:00	35.2	34.6	34	77.9	74.9	71.4	113.6	996.1	256.7	10.526	4.5705	2.0221	0	
14-07-24	19:00:00	34.5	33.7	32.9	83.2	80.3	76.5	33.4	996.1	253.4	9.7781	4.2658	2.0221	0	
14-07-24	20:00:00	33.3	32.7	32.4	85.6	84.2	82.7	0.2	996.7	243.7	9.972	4.5428	2.5761	0	
14-07-24	21:00:00	32.7	32.5	32.3	86	85.4	85.1	0	997.1	252	9.972	4.155	1.8282	0	
14-07-24	22:00:00	32.7	32.4	32.1	86.7	85.9	85.3	0	997.5	258.9	10.6922	4.2935	2.216	0	
14-07-24	23:00:00	32.7	32.4	32.2	86.9	86.5	86.1	0	998.3	268.1	9.418	3.9334	2.0221	0	
15-07-24	0:00:00	32.6	32.2	31.8	87.8	86.9	86.4	0	998.3	264.8	10.526	4.3489	2.0221	0	
15-07-24	1:00:00	32.3	32.1	31.8	88.5	87.3	86	0	997.9	266.4	8.864	3.6287	1.2742	0	

Hazira Station															
DATE	TIME	AT_Max	AT_Avg	AT_Min	RH_Max	RH_Avg	RH_Min	SOLAR	BP	WD	WS_Max	WS_Avg	WS_Min	RAIN	
DD/MM/YY	HH:MM:SS	DegC	DegC	DegC	%	%	%	W/m2	mbar	Deg	m/s	m/s	m/s	mm	
15-07-24	2:00:00	32.3	32	31.7	86.4	85.8	84.8	0	997.6	278.9	8.4762	4.1827	1.8282	0	
15-07-24	3:00:00	32.2	32	31.6	85.4	85	84.6	0	997.4	278	7.0081	3.3794	1.662	0	
15-07-24	4:00:00	32.1	31.8	31.4	86.1	85.4	84.9	0	997.3	278.1	6.648	3.0747	1.2742	0	
15-07-24	5:00:00	31.9	31.6	31.4	86.7	86.2	85.7	0	997	280.2	6.8142	2.9916	1.4681	0	
15-07-24	6:00:00	32.1	31.6	31.2	86.6	86.2	85.8	0	997.6	279.3	6.8142	2.8808	1.2742	0	
15-07-24	7:00:00	31.8	31.5	31.2	86.2	85.1	84.2	0	997.7	282.9	5.54	2.5207	0.7202	0	
15-07-24	8:00:00	31.6	31.3	30.8	87.6	86.2	84.7	4.8	998.6	295.2	5.3461	2.2991	0.7202	0	
15-07-24	9:00:00	31.8	31.3	30.8	87.7	86.9	85.8	41.1	999.1	300.4	5.3461	2.5484	0.7202	0	
15-07-24	10:00:00	32.2	31.8	31.4	86.2	84.5	82.9	69	999.5	299.9	5.1522	2.4376	0.3601	0	
15-07-24	11:00:00	32.9	32.5	31.9	83.6	81.7	79.7	137.4	1000.1	299.1	5.9001	2.7423	0.9141	0	
15-07-24	12:00:00	33.3	33	32.3	81.7	79.2	77.9	128.4	1000.1	302.4	6.648	3.2963	0.9141	0	
15-07-24	13:00:00	33.2	32.9	32.5	80.3	78.9	77.6	105	999.6	303.8	6.648	3.1578	1.108	0	
15-07-24	14:00:00	35.3	33.8	32.8	78.9	74.8	66.7	146.1	999.2	316.7	5.3461	2.0498	0.3601	0	
15-07-24	15:00:00	35.4	34.9	34.3	71.1	68.8	66.2	177.3	998.6	328	4.7921	1.4681	0	0	
15-07-24	16:00:00	35.5	34.7	33.9	73.1	70	67.6	164.6	997.7	303.9	5.1522	2.4099	0.554	0	
15-07-24	17:00:00	35	34.4	33.7	72.7	70.3	68.1	135.9	997.2	292	5.7062	2.3268	0.9141	0	
15-07-24	18:00:00	33.9	33.3	32.9	76.2	75	71.9	18.1	996.8	274.6	3.878	1.1634	0	0	
15-07-24	19:00:00	33.9	33.5	32.9	76	73.4	70.9	14.3	997.3	221.4	3.6841	0.9695	0	0	
15-07-24	20:00:00	33.1	32.5	32.1	81.3	79.5	75.5	0	997.5	215.6	4.7921	2.216	0.9141	0	
15-07-24	21:00:00	32.6	32.3	31.9	82.3	81.5	80.9	0	997.8	225	7.0081	2.216	0.554	0	
15-07-24	22:00:00	32.1	29.9	28.6	93.2	87.2	79.1	0	997.4	278.4	9.972	3.5456	1.108	0	
15-07-24	23:00:00	29.4	29.1	28.7	95.4	94.4	93	0	997.5	225.7	5.1522	2.1329	0.3601	0	
16-07-24	0:00:00	29.6	29.2	28.9	96.4	95.6	94.7	0	998.8	256	3.1301	0.8587	0	0	
16-07-24	1:00:00	29.7	29.3	28.9	96.2	95.7	95.4	0	998.3	290.6	5.3461	2.4099	0.554	0	
16-07-24	2:00:00	29.6	29.3	29	95.8	95.1	94.5	0	997.9	296.5	3.878	1.7174	0	0	
16-07-24	3:00:00	30.1	29.7	29.3	94.9	94.4	93.9	0	998.4	289.5	1.8282	0.4432	0	0	

Hazira Station															
DATE	TIME	AT_Max	AT_Avg	AT_Min	RH_Max	RH_Avg	RH_Min	SOLAR	BP	WD	WS_Max	WS_Avg	WS_Min	RAIN	
DD/MM/YY	HH:MM:SS	DegC	DegC	DegC	%	%	%	W/m2	mbar	Deg	m/s	m/s	m/s	mm	
16-07-24	4:00:00	30.1	29.8	29.6	94.4	93.9	93.4	0	998.1	289.1	0.9141	0.0554	0	0	
16-07-24	5:00:00	30.2	29.9	29.7	93.8	92.8	92.2	0	997.9	328.4	2.5761	0.8033	0	0	
16-07-24	6:00:00	30.6	30.2	29.8	92.3	91.7	91.1	0	997.6	5.7	3.1301	1.1911	0	0	
16-07-24	7:00:00	30.5	30.2	30	93.8	92.8	91.7	0.7	997.5	34.1	2.5761	0.7202	0	0	
16-07-24	8:00:00	31	30.5	30.1	93.9	92.8	91.2	41.9	999.3	97.6	4.2381	1.5235	0	0	
16-07-24	9:00:00	31.6	31.2	30.6	91.5	89.4	88.2	114.2	998.7	126.9	4.5982	2.4099	0.3601	0	
16-07-24	10:00:00	31.4	31	30.6	90.6	89.9	89.1	62.3	999	116.9	4.432	2.493	0.9141	0	
16-07-24	11:00:00	32	31.3	30.7	91.8	89	86.8	79.5	999	151.9	9.2241	3.2132	1.108	0	
16-07-24	12:00:00	31.8	31.1	30.6	92.2	90.6	87.7	98.4	998.6	172.5	7.5621	4.3212	2.0221	0	
16-07-24	13:00:00	32.7	31.8	31.3	88.6	86.4	82.3	161.4	998.5	185.7	7.5621	4.6813	1.8282	0	
16-07-24	14:00:00	33.8	33.2	32.5	83.2	79.5	76.9	318.9	998.4	196.4	9.2241	5.263	2.0221	0	
16-07-24	15:00:00	33.7	33.1	32.5	81.4	79	77.3	182.7	997.5	196.4	10.6922	5.9001	2.3822	0	
16-07-24	16:00:00	33.1	32.6	32.1	82.3	80.6	78.5	140.4	996.5	201.6	13.6561	6.8973	2.216	0	
16-07-24	17:00:00	33.3	32.6	32	82.3	79.9	77.7	113.2	996.5	201.9	15.6782	7.5621	2.5761	0	
16-07-24	18:00:00	32.9	32.1	31.2	81.8	79.6	78	91.6	996.3	210.5	15.512	8.2546	4.0442	0	
16-07-24	19:00:00	32.5	31.6	31.1	84.8	83.4	81.1	14.7	996.3	223.3	14.0162	7.6729	3.6841	0	
16-07-24	20:00:00	31.4	31.1	30.8	85.6	84.8	84.2	0.4	996.5	222.6	13.4622	7.2851	2.77	0	
16-07-24	21:00:00	31.4	31	30.4	87.1	84.7	83.2	0	997.4	238.2	13.1021	5.5123	2.216	0	
16-07-24	22:00:00	31	30.8	30.6	86.1	84.3	83.3	0	997.7	232.8	11.08	5.0414	2.3822	0	
16-07-24	23:00:00	31	30.6	30.2	84.3	82.9	81.9	0	998	225	12.188	6.2048	2.77	0	
17-07-24	0:00:00	31.2	30.8	30.5	82.6	80.9	79.9	0	998	224.1	13.85	7.2297	3.1301	0	
17-07-24	1:00:00	31.2	31	30.7	80.9	79.4	78.3	0	998.3	225.6	12.742	6.5372	2.9362	0	
17-07-24	2:00:00	31.2	30.9	30.7	80.7	79.8	79.1	0	997.1	226.3	13.85	6.8973	3.324	0	
17-07-24	3:00:00	31.2	30.9	30.6	81.4	80.5	79.6	0	996.5	221.8	12.3542	5.7893	2.5761	0	
17-07-24	4:00:00	31.1	30.8	30.6	83	81.8	80.5	0	996.3	207.8	11.2462	5.7339	2.77	0	
17-07-24	5:00:00	31	30.7	30.4	84.9	83.6	82.5	0	996.2	210.6	11.08	5.2353	2.5761	0	

Hazira Station															
DATE	TIME	AT_Max	AT_Avg	AT_Min	RH_Max	RH_Avg	RH_Min	SOLAR	BP	WD	WS_Max	WS_Avg	WS_Min	RAIN	
DD/MM/YY	HH:MM:SS	DegC	DegC	DegC	%	%	%	W/m2	mbar	Deg	m/s	m/s	m/s	mm	
17-07-24	6:00:00	31.2	30.8	30.5	86.3	84.8	83.8	0	996.8	206.5	11.634	5.3184	2.77	0	
17-07-24	7:00:00	31.2	30.7	30.4	89.6	88.2	86.2	0.2	997.5	189.8	13.1021	6.7865	2.9362	0	
17-07-24	8:00:00	31	30.6	30.3	90.2	89.6	89	15.3	998.5	184.5	14.958	8.033	4.2381	0	
17-07-24	9:00:00	32	31.2	30.4	89.4	87.4	85.1	157.5	999.7	185.5	14.404	8.5316	4.5982	0	
17-07-24	10:00:00	33.1	32.4	31.6	86.4	82	77.9	177.1	1000.2	200.8	15.1242	7.8945	3.6841	0	
17-07-24	11:00:00	32.9	31.9	30.9	86.8	83.2	79	167.7	1000.1	189.2	18.282	9.141	4.432	0	
17-07-24	12:00:00	32.2	31.5	30.6	88.4	85.9	83.8	264.6	1000	187.2	16.2322	9.8612	6.648	0	
17-07-24	13:00:00	33.2	32.3	31.4	85.2	82.8	79.9	288.2	1000.2	198.1	15.512	8.6147	4.986	0	
17-07-24	14:00:00	33.1	32.5	31.6	84.1	81.4	78.9	202.2	999.7	212.5	16.7862	7.7837	4.986	0	
17-07-24	15:00:00	33.7	33.1	32.5	82.3	79.7	77.8	269.3	999.4	212.9	13.85	7.0912	4.0442	0	
17-07-24	16:00:00	33.9	33.1	32.5	82	79.8	77	223.6	998.6	212.4	15.1242	7.0635	3.4902	0	
17-07-24	17:00:00	33.9	33	31.8	83.1	78.8	74.7	157.7	997.8	223.2	15.6782	7.0912	3.4902	0	
17-07-24	18:00:00	33.3	32.8	32.1	83.4	79	76.3	95.2	997.5	227.9	14.2101	5.9832	1.662	0	
17-07-24	19:00:00	32.9	32.1	31	85.2	82.1	78.8	40.7	997.9	242.8	13.4622	5.1245	2.216	0	
17-07-24	20:00:00	32.4	31.6	31	83.6	82	80.2	0.2	998	240.1	14.0162	5.817	3.324	0	
17-07-24	21:00:00	31.8	31.5	31	84.2	82.9	81.6	0	999	218.4	12.188	6.6757	3.324	0	
17-07-24	22:00:00	32.3	31.7	31.4	84.3	82.4	80.3	0	999.6	226.8	12.9082	6.1771	3.1301	0	
17-07-24	23:00:00	32	31.7	31.4	81.9	81.2	80.2	0	1000.6	237.5	10.1382	4.8752	2.3822	0	
18-07-24	0:00:00	31.9	31.5	31.2	83.6	82.9	81.6	0	999.9	231.2	9.5842	4.7644	2.9362	0	
18-07-24	1:00:00	31.8	31.5	31.2	84.6	83.8	83.3	0	999.1	226.1	10.1382	4.4874	2.77	0	
18-07-24	2:00:00	31.6	31.3	30.8	88.2	86.4	84.1	0	998.4	217.8	9.5842	4.6259	1.8282	0	
18-07-24	3:00:00	31.3	30.8	30.4	88.5	86.7	85.1	0	997.8	228.6	10.1382	4.7367	2.77	0	
18-07-24	4:00:00	31.2	30.7	30.4	89.8	88.6	86.1	0	997.4	219.7	11.4401	4.7367	2.5761	0	
18-07-24	5:00:00	31.2	30.9	30.5	89.5	88.8	88.2	0	996.9	222.8	12.188	5.1522	2.77	0	
18-07-24	6:00:00	31.3	30.8	30.3	90.2	88.4	87.1	0	997.3	232.1	9.2241	4.0442	2.216	0	
18-07-24	7:00:00	31.2	30.9	30.4	87.7	86.8	86	2.2	997.7	234.5	10.526	4.7367	2.216	0	

Hazira Station															
DATE	TIME	AT_Max	AT_Avg	AT_Min	RH_Max	RH_Avg	RH_Min	SOLAR	BP	WD	WS_Max	WS_Avg	WS_Min	RAIN	
DD/MM/YY	HH:MM:SS	DegC	DegC	DegC	%	%	%	W/m2	mbar	Deg	m/s	m/s	m/s	mm	
18-07-24	8:00:00	32.1	31.2	30.8	88	86.1	85	55	998.8	246.7	9.418	3.4625	2.0221	0	
18-07-24	9:00:00	32.1	30.5	29.4	92.4	88.5	84	58.1	999.1	244.9	10.526	3.5456	0	0	
18-07-24	10:00:00	30.8	30	29.1	93.3	91.7	90.1	53.2	999.1	190.7	8.1161	2.8808	0	0	
18-07-24	11:00:00	30.4	30	29.3	95.6	94.2	92.5	49.1	998.9	196.2	6.4541	2.6592	0.7202	0	
18-07-24	12:00:00	30.4	29.9	29.1	96.8	95.5	94.3	29.4	998.6	162.2	7.3682	3.0747	0.554	0	
18-07-24	13:00:00	29.9	29.5	29.1	97.4	96.7	96	75.8	999.4	201.6	6.2602	2.5207	0.7202	0	
18-07-24	14:00:00	30.3	29.6	29.1	99	97.6	96.1	102.2	1000.2	207.5	7.3682	3.6564	1.2742	0	
18-07-24	15:00:00	31.6	30.6	29.8	98.3	95.6	91.8	221.3	1004.2	176.3	16.7862	8.7255	3.4902	0	
18-07-24	16:00:00	30.8	30	29.1	96.6	94.8	92.5	131.4	996.1	201.6	14.958	7.756	3.324	0	
18-07-24	17:00:00	29.8	28.8	27.7	99.2	97.4	95.6	46.4	994.1	216	15.6782	6.8696	2.9362	0	
18-07-24	18:00:00	30	29.3	28.5	100.5	98.8	97.8	39.5	993.6	222.2	19.0299	8.5316	3.1301	0	
18-07-24	19:00:00	29.9	29.4	28.7	100.3	98.6	97	19	994.5	226.7	17.8942	8.4762	3.6841	0	
18-07-24	20:00:00	29.8	29.2	28.7	99.3	98.5	97	0	994.4	235.4	15.6782	7.6729	3.6841	0	
18-07-24	21:00:00	30.4	29.9	29.4	97.4	95.2	93.6	0	996.2	231	15.3181	7.4513	3.324	0	
18-07-24	22:00:00	30.4	29.9	29.3	96	94.6	92.9	0	995.7	243.9	16.4261	6.8419	2.5761	0	
18-07-24	23:00:00	29.8	29.2	28.5	99.2	97.2	95.2	0	995.8	249.1	14.5702	5.5954	2.5761	0	
19-07-24	0:00:00	30.1	29.6	29	99.2	96.8	94.4	0	996.8	251.9	11.634	4.3489	2.0221	0	
19-07-24	1:00:00	30.5	30.1	29.5	94.7	91.9	90.3	0	997.2	265.9	10.3321	3.878	1.662	0	
19-07-24	2:00:00	30.6	30.4	30.1	91.1	90.5	89.8	0	997.5	270.5	10.8861	3.7949	2.5761	0	
19-07-24	3:00:00	30.9	30.4	29.6	93.3	91.4	89.4	0	996	265.3	10.526	3.4625	1.8282	0	
19-07-24	4:00:00	30.6	30.2	29.7	94.3	93.4	92.4	0	994.8	265.5	11.2462	3.9057	1.662	0	
19-07-24	5:00:00	30.8	30.5	30.2	93.8	93.2	92	0	996	246.2	11.4401	3.9057	1.4681	0	
19-07-24	6:00:00	30.9	30.6	30.3	92.9	92.1	91.1	0	995.8	243.8	9.418	3.4348	1.2742	0	
19-07-24	7:00:00	31.2	30.7	30.2	91.6	90.5	88.8	4.4	995.9	247.6	8.864	3.5733	1.662	0	
19-07-24	8:00:00	31.9	31.1	30	92.8	88.7	85.5	36.3	996.4	253.4	10.3321	4.1827	1.2742	0	
19-07-24	9:00:00	31	30.5	30.1	93.3	92.3	91.6	32.9	996.8	247.5	8.31	3.4348	1.4681	0	

Hazira Station															
DATE	TIME	AT_Max	AT_Avg	AT_Min	RH_Max	RH_Avg	RH_Min	SOLAR	BP	WD	WS_Max	WS_Avg	WS_Min	RAIN	
DD/MM/YY	HH:MM:SS	DegC	DegC	DegC	%	%	%	W/m2	mbar	Deg	m/s	m/s	m/s	mm	
19-07-24	10:00:00	30.9	30	29.3	96.3	94.6	91.7	91.8	996.7	245	14.958	6.6203	0.9141	0	
19-07-24	11:00:00	31.4	30.1	29.2	97.6	94.9	90.4	266.4	997	255	11.4401	5.0414	2.216	0	
19-07-24	12:00:00	33.3	32	31	91.5	85.2	79	361.2	997.4	257.4	9.0302	4.0719	1.4681	0	
19-07-24	13:00:00	33.3	32.7	32.3	82.2	79.7	77.4	205.9	997.2	225.9	7.9222	3.1301	1.108	0	
19-07-24	14:00:00	32.7	31.9	31	88	83.9	79.6	169.3	996.5	195.4	10.526	5.263	2.3822	0	
19-07-24	15:00:00	31.6	31.1	30.6	91.3	89.9	87.8	89.7	995.5	205.8	11.9941	5.8447	2.77	0	
19-07-24	16:00:00	31.4	30.4	29.3	95.8	92.2	89.5	30.8	994.6	237.3	14.7641	6.2325	2.9362	0	
19-07-24	17:00:00	29.9	29.4	28.9	99.2	96.9	95.3	38.8	994.4	232.7	16.62	7.8945	3.324	0	
19-07-24	18:00:00	30.2	29.6	29.2	99.8	98.8	97.6	27.2	996.1	247.6	13.1021	5.3461	2.0221	0	
19-07-24	19:00:00	30.7	30.3	29.8	98.9	96.1	93.1	14.7	997.9	232.5	11.8002	4.7921	2.9362	0	
19-07-24	20:00:00	30.8	30.4	29.9	93.5	91.8	91	0	996	231.7	11.4401	4.0719	2.3822	0	
19-07-24	21:00:00	30.9	30.5	29.7	94.6	92.6	91.6	0	996.3	199.4	13.4622	4.4874	2.216	0	
19-07-24	22:00:00	30.6	30.2	29.7	95.8	95	94.3	0	996.4	214.8	11.634	4.8752	2.0221	0	
19-07-24	23:00:00	30.4	30	29.5	96	95.1	94.5	0	997.2	224.6	11.9941	4.8198	2.9362	0	
20-07-24	0:00:00	30.6	30.3	30	95	93.9	93	0	997.1	222.5	14.2101	5.0137	3.324	0	
20-07-24	1:00:00	30.6	30.2	29.9	94.2	93.3	92.6	0	996.2	235.7	13.85	5.2907	2.77	0	
20-07-24	2:00:00	30.4	30.1	29.9	94.7	94.2	93.8	0	995.7	233.8	10.3321	4.4874	2.5761	0	
20-07-24	3:00:00	30.4	30.1	29.8	97	95.4	94.2	0	995.3	248	12.188	4.3766	1.662	0	
20-07-24	4:00:00	30.3	30	29.7	96	95.3	94.7	0	994.8	254.2	10.526	4.5982	1.4681	0	
20-07-24	5:00:00	30.2	29.9	29.6	95.6	95	94.4	0	995.1	253.9	9.0302	3.9334	2.0221	0	
20-07-24	6:00:00	30.4	30.1	29.8	95	94.3	93.6	0	995.8	257.8	7.202	2.2437	1.108	0	
20-07-24	7:00:00	30.5	30.1	29.8	93.8	93	92.3	0	996.4	214.8	5.9001	1.8282	1.108	0	
20-07-24	8:00:00	30.6	29.8	29	95.8	93.7	92	21.3	996.7	197.9	10.526	4.155	1.4681	0	
20-07-24	9:00:00	31.2	30.7	29.9	95.6	93.4	92	84	997.6	197.6	11.08	4.0996	1.662	0	
20-07-24	10:00:00	31	30.4	29.7	94.9	93	91	123.5	997.9	248.5	11.08	4.155	2.216	0	
20-07-24	11:00:00	31.2	30.7	29.7	94.4	91.8	90.3	131.6	998.6	261.7	11.4401	4.0442	1.662	0	

Hazira Station															
DATE	TIME	AT_Max	AT_Avg	AT_Min	RH_Max	RH_Avg	RH_Min	SOLAR	BP	WD	WS_Max	WS_Avg	WS_Min	RAIN	
DD/MM/YY	HH:MM:SS	DegC	DegC	DegC	%	%	%	W/m2	mbar	Deg	m/s	m/s	m/s	mm	
20-07-24	12:00:00	31.2	30.2	29.4	96	93.4	90.2	149.4	998.3	266.9	9.972	4.0165	0.9141	0	
20-07-24	13:00:00	33.1	31.7	30.8	90.6	87.2	81.1	257.2	998.4	272.5	11.08	3.7949	2.0221	0	
20-07-24	14:00:00	33.4	32.6	31.6	84.6	82.1	79.5	287.6	998.6	237.5	11.4401	4.1273	2.3822	0	
20-07-24	15:00:00	31.9	31.3	30.4	92	87.9	83.3	174.4	997.6	198	13.4622	6.0386	2.9362	0	
20-07-24	16:00:00	30.6	29.4	28.6	98.8	95.6	91.6	41.7	995.8	239.6	16.7862	7.8114	3.4902	0	
20-07-24	17:00:00	29.7	29.1	28.6	100.5	99.2	98.3	28.3	995.8	238.1	14.0162	6.3156	2.9362	0	
20-07-24	18:00:00	30.4	29.9	29.2	99.9	98.5	96.7	40.6	998.9	242.5	11.8002	5.5123	2.9362	0	
20-07-24	19:00:00	31	30.5	30.1	97.2	93.8	90.7	12.9	998.9	247.8	14.404	5.7893	3.1301	0	
20-07-24	20:00:00	31	30.7	30.4	90.9	90.3	89.6	0.1	997.8	239.5	12.3542	5.6231	2.9362	0	
20-07-24	21:00:00	30.9	30.6	30.3	92.5	91.4	90.5	0	998.1	242.1	11.4401	4.9029	2.5761	0	
20-07-24	22:00:00	30.9	30.6	30.3	91.9	91	89.8	0	998.1	246.3	10.3321	4.3766	2.3822	0	
20-07-24	23:00:00	30.9	30.6	30.2	90.6	90.1	89.6	0	998.4	247.3	11.4401	4.6536	2.5761	0	
21-07-24	0:00:00	30.8	30.6	30.4	90.3	89.6	89	0	998.3	245.9	11.9941	4.4597	2.77	0	
21-07-24	1:00:00	30.8	30.4	30	91.8	90.5	89.2	0	997.7	245.3	11.9941	4.0442	1.8282	0	
21-07-24	2:00:00	30.8	30.5	30.1	92.5	91.6	90.7	0	997.1	240.7	11.9941	4.1827	2.3822	0	
21-07-24	3:00:00	30.8	30.5	30.2	92.2	91.3	90.3	0	996.6	244.9	10.6922	3.9057	2.216	0	
21-07-24	4:00:00	30.8	30.6	30.3	92	91.4	90.7	0	996.5	245.2	9.2241	3.2686	1.8282	0	
21-07-24	5:00:00	30.8	30.4	30	94.9	92.2	90.5	0	995.9	250.5	11.2462	3.1578	0.9141	0	
21-07-24	6:00:00	30.6	30.2	29.6	95.1	94.3	93.1	0	995.9	257.2	9.2241	3.0193	1.2742	0	
21-07-24	7:00:00	30.4	30.1	29.8	94.6	93.9	93.1	0	996.8	256.9	7.202	2.7977	0.9141	0	
21-07-24	8:00:00	31.6	30.8	30.2	93.5	91.9	90	37.8	997.7	250.9	6.8142	2.3268	0.9141	0	
21-07-24	9:00:00	32.4	31.9	31.4	90.5	88.5	87.1	124.8	998.7	191.1	7.756	3.601	1.662	0	
21-07-24	10:00:00	32.5	32.1	31.6	89.8	88.2	86.7	184.3	998.8	179.5	9.2241	5.9001	2.5761	0	
21-07-24	11:00:00	32.5	31.9	31.2	92.2	89.2	87.4	220.9	998.7	169.2	13.4622	7.9776	4.5982	0	
21-07-24	12:00:00	32.8	31.9	31	92.9	90.6	87.3	284.4	998.7	201	11.9941	5.3461	2.3822	0	
21-07-24	13:00:00	34.6	33.3	31.6	90.6	84.3	78	368.5	998.9	221.7	9.418	4.2104	2.0221	0	

Hazira Station															
DATE	TIME	AT_Max	AT_Avg	AT_Min	RH_Max	RH_Avg	RH_Min	SOLAR	BP	WD	WS_Max	WS_Avg	WS_Min	RAIN	
DD/MM/YY	HH:MM:SS	DegC	DegC	DegC	%	%	%	W/m2	mbar	Deg	m/s	m/s	m/s	mm	
21-07-24	14:00:00	34.8	34.2	33.7	81	78	75.2	369.3	998.8	247.5	11.9941	4.3489	1.662	0	
21-07-24	15:00:00	34.5	33.5	32.6	81.1	78	73.6	275.8	997.7	251.4	13.4622	6.0386	2.0221	0	
21-07-24	16:00:00	33.7	33	32.5	82.8	80.7	77.6	188.7	997.1	260	13.6561	6.094	2.0221	0	
21-07-24	17:00:00	33.2	32.6	31.9	85.7	82.9	79.6	77.9	996.2	261.9	14.404	6.3156	2.0221	0	
21-07-24	18:00:00	32.3	31.1	30	94	88.8	85	4.8	995.5	243.4	17.174	7.0912	2.77	0	
21-07-24	19:00:00	30.3	29.7	28.7	108.4	98.5	93.7	0	995	212.1	20.498	8.5593	2.9362	0	
21-07-24	20:00:00	30	29.5	29	108.7	108	106	0	995.9	237.8	15.1242	6.4541	2.5761	0	
21-07-24	21:00:00	29.9	29.5	28.9	108.5	107.3	106	0	996.5	255.9	18.0881	6.925	3.324	0	
21-07-24	22:00:00	29.9	29.5	28.7	108.3	107.7	106.8	0	997.4	250.6	17.5341	6.9527	2.3822	0	
21-07-24	23:00:00	29.8	29.3	28	108.4	107.7	106.1	0	997.4	254.7	17.174	7.5621	3.878	0	
22-07-24	0:00:00	29.7	29.1	28	108.3	107.7	107	0	997.3	258.8	17.174	6.925	2.5761	0	
22-07-24	1:00:00	29.6	29.1	28.2	108.3	107.7	106.9	0	997.5	260.2	12.9082	5.2076	2.5761	0	
22-07-24	2:00:00	29.8	29.4	28.9	108.6	107.6	106.1	0	997.7	259.6	16.7862	5.6508	2.5761	0	
22-07-24	3:00:00	30.2	29.7	29.1	108.7	106.9	100.5	0	998.3	274.7	12.9082	5.0414	2.5761	0	
22-07-24	4:00:00	30.4	30.1	29.6	101.4	98.5	95.2	0	998.8	286	14.7641	5.6508	3.4902	0	
22-07-24	5:00:00	30.7	30.3	30	96.2	93.3	90	0	998.1	275.4	14.5702	6.4264	3.4902	0	
22-07-24	6:00:00	31	30.6	30.3	92.2	90.9	89.5	0	998.2	277.7	14.2101	5.0414	2.3822	0	
22-07-24	7:00:00	30.8	29.5	28.7	99.4	95.8	90	0	997.9	287.8	14.2101	4.5151	0.9141	0	
22-07-24	8:00:00	30.4	29.8	29.1	100.3	99.3	97.2	4.4	1001.1	270.6	13.296	4.7367	0.1662	0	
22-07-24	9:00:00	31	30.7	30.2	97.4	91.3	88.7	13.6	1002.5	279.7	13.85	6.2879	2.77	0	
22-07-24	10:00:00	31	30.7	30.4	90.4	89.8	88.7	17.4	999.9	298.1	14.958	5.4569	1.4681	0	
22-07-24	11:00:00	31	30.2	29.3	97.5	93.8	89.9	9	999.3	293	11.634	4.5705	2.216	0	
22-07-24	12:00:00	30.1	29.3	28.6	108.3	99.1	96.3	6.1	998.9	279.5	17.3402	5.7062	3.1301	0	
22-07-24	13:00:00	29.5	28.6	27.8	108.7	106.7	100.1	15.2	998.1	281.8	19.0299	7.4513	2.77	0	
22-07-24	14:00:00	29.7	29.2	28.3	108.6	107.6	106.1	9.9	999.3	280	15.3181	5.1799	2.0221	0	
22-07-24	15:00:00	29.5	28.6	27.8	108.6	107.6	106	12.4	998	290.2	17.728	6.2048	2.77	0	

Hazira Station															
DATE	TIME	AT_Max	AT_Avg	AT_Min	RH_Max	RH_Avg	RH_Min	SOLAR	BP	WD	WS_Max	WS_Avg	WS_Min	RAIN	
DD/MM/YY	HH:MM:SS	DegC	DegC	DegC	%	%	%	W/m2	mbar	Deg	m/s	m/s	m/s	mm	
22-07-24	16:00:00	29.3	28.5	27.6	108.3	107.6	106.8	36.1	998	286.3	17.8942	6.5649	3.4902	0	
22-07-24	17:00:00	29.7	29.1	28.5	108.7	107.6	106.1	35.9	999.6	270.9	15.512	6.3433	3.324	0	
22-07-24	18:00:00	30.3	29.7	29.1	108.7	102.5	99.4	22.8	1000.5	260.3	17.3402	6.7034	3.6841	0	
22-07-24	19:00:00	29.9	29.4	28.3	101	99.2	97.8	0.4	997.8	259.5	16.9801	6.8142	2.77	0	
22-07-24	20:00:00	30	29.3	28.1	108.8	101.7	98.7	0	998.3	252.7	13.6561	5.8447	2.9362	0	
22-07-24	21:00:00	30.2	29.4	28.5	100.3	97.9	94.2	0	998.8	261.9	19.7501	6.8419	2.77	0	
22-07-24	22:00:00	29.6	29.3	28.8	99.2	97.5	95.8	0	999.2	253.4	17.3402	6.0386	3.324	0	
22-07-24	23:00:00	30.4	30	29.2	99.6	97.3	94.5	0	1001.4	266.2	11.8002	4.8198	3.1301	0	
23-07-24	0:00:00	30.8	30.3	29.6	96.3	95	91.6	0	1002	261.2	21.9661	5.7339	2.9362	0	
23-07-24	1:00:00	29.8	29.2	28.7	108.5	100.6	92.2	0	997.7	261.8	15.512	6.6203	3.1301	0	
23-07-24	2:00:00	29.5	29	28.3	108.7	107.7	104.7	0	998.5	260.8	15.6782	6.4264	3.1301	0	
23-07-24	3:00:00	29.6	29.1	28.4	108.3	107.6	106.3	0	998.6	269.4	17.3402	7.0635	3.1301	0	
23-07-24	4:00:00	29.3	28.6	27.6	108.6	106.4	99.5	0	998.6	276.4	16.066	7.0081	3.324	0	
23-07-24	5:00:00	29.6	27.7	27.4	99.6	95.5	92.8	0	998.7	289.2	15.3181	7.202	3.324	0	
23-07-24	6:00:00	29.4	27.3	26.8	93.4	91.9	90.3	0	999	301.1	16.2322	7.3405	3.1301	0	
23-07-24	7:00:00	30.2	29.5	26.9	93.1	90.8	89.4	0	999.3	300.7	14.958	6.8142	3.6841	0	
23-07-24	8:00:00	30.3	30	29.3	93.5	92.1	90.7	6.4	999.9	299.7	14.0162	6.0663	2.216	0	
23-07-24	9:00:00	30.6	29.3	28.4	96.2	93.9	92.2	14.3	1001.1	289.7	16.2322	5.2353	2.5761	0	
23-07-24	10:00:00	30.6	29.1	28.1	98.8	95.7	93.4	5.4	1001.1	291.5	17.3402	6.8973	2.9362	0	
23-07-24	11:00:00	29.5	28.9	28.2	108.1	100.2	98.3	1.8	1002.9	259.5	16.066	5.7339	2.216	0	
23-07-24	12:00:00	29.4	28.8	27.7	108.6	105.2	98.9	17.2	1002.3	270.9	16.62	6.094	2.5761	0	
23-07-24	13:00:00	29.3	28.8	27.9	108.7	106.7	99.4	16.2	1002.1	269.1	14.958	6.5095	3.1301	0	
23-07-24	14:00:00	29.3	28.1	27.1	108.7	106.9	98.7	7.6	999.3	277.3	17.8942	6.9804	2.77	0	
23-07-24	15:00:00	29	28.4	27.7	108.2	107.6	106.9	7.5	1000.2	264.2	16.2322	6.1217	2.77	0	
23-07-24	16:00:00	29.2	28.7	28.2	108.1	107.5	106.7	27.5	1001.1	262	14.7641	5.6508	1.8282	0	
23-07-24	17:00:00	29.4	29	28.4	108.2	107.6	106.7	39.1	1001.9	248.5	14.404	6.371	2.9362	0	

Hazira Station															
DATE	TIME	AT_Max	AT_Avg	AT_Min	RH_Max	RH_Avg	RH_Min	SOLAR	BP	WD	WS_Max	WS_Avg	WS_Min	RAIN	
DD/MM/YY	HH:MM:SS	DegC	DegC	DegC	%	%	%	W/m2	mbar	Deg	m/s	m/s	m/s	mm	
23-07-24	18:00:00	30.2	29.5	28.7	108.7	107.7	106.2	20	1002.4	249.2	13.1021	6.2602	2.9362	0	
23-07-24	19:00:00	30.6	29.9	29.4	108.7	99.5	96.6	1.3	1000.8	253.7	20.3041	7.3405	2.77	0	
23-07-24	20:00:00	30	29.3	28.8	102.3	99.5	97.5	0	998.2	262.2	13.296	6.371	2.5761	0	
23-07-24	21:00:00	30.4	30	29.6	99	93.8	90.7	0	999.8	253.3	16.2322	6.4541	2.77	0	
23-07-24	22:00:00	31	30.4	29.6	92.7	91.2	88.5	0	1001.1	258.1	18.6421	6.8973	2.5761	0	
23-07-24	23:00:00	30.3	29.5	28.9	95.6	93.5	89.4	0	997.9	268.2	18.282	8.1438	3.1301	0	
24-07-24	0:00:00	30.4	29.8	29.4	97.2	94.9	93.4	0	999.3	255	16.4261	7.5621	3.324	0	
24-07-24	1:00:00	30	29.6	29.3	99	97.6	96.7	0	999.1	245.7	18.6421	7.2851	2.77	0	
24-07-24	2:00:00	30	29	28.5	100	98.5	95	0	997.4	251.8	22.714	9.9166	3.878	0	
24-07-24	3:00:00	29.2	28.7	28.1	108.5	102.3	98.8	0	996.7	249.7	19.944	9.7504	4.7921	0	
24-07-24	4:00:00	29.6	29.1	27.9	108.7	107.4	98.9	0	997.6	245.9	19.7501	8.1715	3.4902	0	
24-07-24	5:00:00	29.5	29.1	28.2	108.7	107.9	104.6	0	997.3	253.3	17.3402	9.0025	3.878	0	
24-07-24	6:00:00	30.2	29.8	28.7	107.8	98.3	95.2	0	999.2	250.3	17.3402	7.5344	3.1301	0	
24-07-24	7:00:00	30.4	29.7	28.2	99.4	94.3	90.7	0	997.7	250.5	20.6919	7.9499	3.4902	0	
24-07-24	8:00:00	29.5	28.7	27.9	107.6	100.7	98.7	0	996.3	257.4	17.3402	8.5039	3.324	0	
24-07-24	9:00:00	29.8	28.9	27.5	99.6	98.1	94.7	4.4	996.2	257.7	19.1961	8.5039	3.4902	0	
24-07-24	10:00:00	30.4	30	29.4	97.4	95.4	93.7	48	999.7	258.5	16.62	7.3682	3.4902	0	
24-07-24	11:00:00	31	30.4	30	94.8	93.5	91.6	86.6	1002	251.9	14.404	6.5649	2.77	0	
24-07-24	12:00:00	31.3	30.9	30.5	93.1	90.7	88.2	93.7	1001.3	252.4	14.7641	6.7588	2.216	0	
24-07-24	13:00:00	30.8	30.2	29.6	95.6	93.3	91.2	61.1	997	259.3	18.6421	8.0884	3.4902	0	
24-07-24	14:00:00	30.2	29.8	29.4	95.6	94.2	93.5	32.8	997.1	255.4	17.3402	8.1161	3.324	0	
24-07-24	15:00:00	29.9	29.4	28.9	99.4	97	95	16.3	996.1	271.6	14.5702	5.9001	2.0221	0	
24-07-24	16:00:00	29.7	29	27.9	108.6	103	96.3	4	994.8	262.8	15.3181	6.648	2.5761	0	
24-07-24	17:00:00	29.9	29.4	28.6	108.6	103.7	99.6	16.4	996.3	256	15.1242	6.5649	2.5761	0	
24-07-24	18:00:00	29.9	29.1	28.3	103.4	100.3	98.2	7.1	994.8	259.3	18.282	7.756	2.77	0	
24-07-24	19:00:00	29.8	29.3	28.9	100.9	99	97.8	0.4	995.1	258.3	17.3402	7.3128	2.9362	0	

Hazira Station															
DATE	TIME	AT_Max	AT_Avg	AT_Min	RH_Max	RH_Avg	RH_Min	SOLAR	BP	WD	WS_Max	WS_Avg	WS_Min	RAIN	
DD/MM/YY	HH:MM:SS	DegC	DegC	DegC	%	%	%	W/m2	mbar	Deg	m/s	m/s	m/s	mm	
24-07-24	20:00:00	29.7	29.4	29.1	98.6	97.2	95.1	0	995.4	268.7	16.9801	7.3959	3.1301	0	
24-07-24	21:00:00	30.2	29.8	29.2	95.8	94.7	93.8	0	996.9	261.8	14.7641	7.1466	3.324	0	
24-07-24	22:00:00	30.5	30.1	29.7	95.7	94.8	93.8	0	997.3	275.9	15.3181	7.1466	3.324	0	
24-07-24	23:00:00	31	30.5	30	95.2	91.7	88.4	0	998.1	281.2	15.6782	7.7006	3.6841	0	
25-07-24	0:00:00	31.2	30.9	30.6	88.9	87.7	86.4	0	997.3	280.3	16.62	7.7837	3.324	0	
25-07-24	1:00:00	31.2	30.9	30.6	89.7	88.8	87.7	0	996.9	283.8	16.2322	6.7311	3.1301	0	
25-07-24	2:00:00	31	30.8	30.6	89.4	88.7	88	0	996.3	298.8	16.066	5.817	2.5761	0	
25-07-24	3:00:00	31.2	30.8	30.6	89.1	87.2	85.8	0	995.6	299.2	14.958	6.3987	2.3822	0	
25-07-24	4:00:00	31.2	30.8	30.4	88.8	87.2	86	0	995.2	296.4	15.6782	6.2879	2.9362	0	
25-07-24	5:00:00	31.1	30.8	30.4	87.8	86.3	84.8	0	995.1	297.1	16.7862	6.8419	2.77	0	
25-07-24	6:00:00	31	30.8	30.6	86.9	86.2	85.6	0	995.6	299.4	15.3181	6.1494	2.5761	0	
25-07-24	7:00:00	31	30.7	30.2	89.3	87.5	85.7	0	996.3	302.8	12.5481	5.0414	2.0221	0	
25-07-24	8:00:00	30.9	30.6	30.2	90.4	89.2	87.9	5.5	996.8	299.5	12.742	5.1799	2.77	0	
25-07-24	9:00:00	31.3	30.7	29.9	91.4	88.6	86.5	27.7	997.4	289.4	14.2101	5.54	2.0221	0	
25-07-24	10:00:00	31.6	31.1	30.6	89.5	86.4	84.6	54.2	997.9	288.9	14.2101	6.3433	3.1301	0	
25-07-24	11:00:00	32.1	31.5	31	85.5	84.1	82.3	104.5	998	278.3	16.4261	6.8142	3.1301	0	
25-07-24	12:00:00	32.9	32.4	31.8	83.3	80.8	79.3	198	998.3	286.8	14.958	6.6757	2.77	0	
25-07-24	13:00:00	32.5	32.1	31.6	82.9	81.5	79.5	101.1	998	284	17.3402	6.2879	2.5761	0	
25-07-24	14:00:00	32.2	31.8	31.5	83.1	82	80.9	79.5	997.5	282	18.6421	6.3987	3.4902	0	
25-07-24	15:00:00	32.1	31.8	31.5	82.6	81.5	80.5	101.3	997.1	278.6	18.4759	6.8973	3.4902	0	
25-07-24	16:00:00	32.2	31.8	31.5	83.4	81	79.7	118.1	996.4	274.4	20.6919	7.8114	3.878	0	
25-07-24	17:00:00	31.9	31.3	30.7	83.8	82.3	79.7	32.2	996	284.6	20.3041	7.4513	3.878	0	
25-07-24	18:00:00	31.3	31	30.6	85.6	83.9	82.7	27.4	995.8	278.3	19.5839	7.6175	3.878	0	
25-07-24	19:00:00	31	30.6	30	90	86.8	84.7	0.4	996.1	282.2	18.0881	6.7588	3.1301	0	
25-07-24	20:00:00	30.3	29.5	28.2	96.7	93.1	89.8	0	996.1	292.7	15.8721	5.817	2.3822	0	
25-07-24	21:00:00	29.9	29.2	28.5	97.4	96.1	94.5	0	996.6	279.3	17.5341	6.4541	2.9362	0	

Hazira Station															
DATE	TIME	AT_Max	AT_Avg	AT_Min	RH_Max	RH_Avg	RH_Min	SOLAR	BP	WD	WS_Max	WS_Avg	WS_Min	RAIN	
DD/MM/YY	HH:MM:SS	DegC	DegC	DegC	%	%	%	W/m2	mbar	Deg	m/s	m/s	m/s	mm	
25-07-24	22:00:00	30.4	29.8	29.2	95.8	93.9	91.6	0	997.2	282.5	16.9801	6.5095	2.216	0	
25-07-24	23:00:00	30.6	30.2	29.9	93.6	93	92	0	997.6	280.4	15.6782	5.6785	2.0221	0	
26-07-24	0:00:00	31	30.7	30.3	92.2	90.6	88.4	0	997.4	283.6	18.0881	6.9527	2.3822	0	
26-07-24	1:00:00	31.2	30.9	30.6	88.5	87.6	86.5	0	997.1	275.7	18.0881	7.9222	3.4902	0	
26-07-24	2:00:00	31.2	30.8	30.1	90	86.9	85.5	0	996.8	281.7	18.0881	8.0053	4.0442	0	
26-07-24	3:00:00	31.1	30.8	30.2	89.1	86.7	84.9	0	996.1	281.7	20.498	7.5898	2.9362	0	
26-07-24	4:00:00	31.1	30.9	30.6	86.7	85.9	85.3	0	996	292.2	19.39	7.1743	3.4902	0	
26-07-24	5:00:00	31	30.5	30.3	89.2	87.6	86.2	0	996.4	293.2	17.8942	6.3433	3.1301	0	
26-07-24	6:00:00	31	30.7	30.4	88	87.2	86.7	0	997	287.4	18.6421	6.4541	2.9362	0	
26-07-24	7:00:00	30.6	30.2	29.9	91.1	89.7	87.6	0	997.4	265.6	18.282	6.1771	2.77	0	
26-07-24	8:00:00	30.9	30.6	30.3	89.8	88.3	87.3	5.1	998	254.4	15.6782	6.371	2.77	0	
26-07-24	9:00:00	30.8	30.2	29.9	92.2	90.4	88.2	9.9	998.4	264.1	14.7641	6.2602	3.4902	0	
26-07-24	10:00:00	30.4	30.1	29.8	93.6	92.6	91.7	28.3	999.2	266.6	15.1242	6.0109	3.1301	0	
26-07-24	11:00:00	30.9	30.4	29.9	94	93.3	92.1	109	1001.9	267.6	14.958	5.9832	2.5761	0	
26-07-24	12:00:00	31.9	31.3	30.6	92.5	88.6	85.8	128.3	1005.5	284.7	16.066	5.4569	2.77	0	
26-07-24	13:00:00	32.2	31.8	31.2	87.7	85.6	83.5	145.4	1000.5	295.5	15.1242	5.6508	3.1301	0	
26-07-24	14:00:00	32.1	31.7	31.2	86.2	84.8	83.6	86.1	998.6	294	15.8721	6.1771	3.324	0	
26-07-24	15:00:00	31.9	31.5	31	88.2	86.2	84.7	114.7	997.9	270.1	18.4759	7.0912	4.0442	0	
26-07-24	16:00:00	32.1	31.8	31.4	86.1	84.9	84	121.5	997.7	271.3	17.5341	6.4541	3.878	0	
26-07-24	17:00:00	32.1	31.6	30.8	86.5	85.5	84.3	89.8	997.4	270.3	16.9801	6.094	3.6841	0	
26-07-24	18:00:00	31.4	30.1	29.3	88	87	85.9	39.5	997.3	239.1	15.8721	6.8419	3.4902	0	
26-07-24	19:00:00	31	28.9	28.3	88.8	88	87.7	0.5	997.5	230.5	16.62	8.1438	3.324	0	
26-07-24	20:00:00	31.2	30.9	30.6	89.1	88.5	87.9	0	998.2	238.2	17.3402	7.7006	3.6841	0	
26-07-24	21:00:00	31.1	30.9	30.6	89.4	88.9	88.5	0	998.4	254.1	16.4261	6.5372	2.9362	0	
26-07-24	22:00:00	31.2	30.9	30.6	89.8	89	88	0	999	271.6	16.066	6.094	2.77	0	
26-07-24	23:00:00	31.2	30.9	30.7	88.9	88.4	88	0	999.6	274.6	15.1242	5.5123	2.216	0	

Hazira Station															
DATE	TIME	AT_Max	AT_Avg	AT_Min	RH_Max	RH_Avg	RH_Min	SOLAR	BP	WD	WS_Max	WS_Avg	WS_Min	RAIN	
DD/MM/YY	HH:MM:SS	DegC	DegC	DegC	%	%	%	W/m2	mbar	Deg	m/s	m/s	m/s	mm	
27-07-24	0:00:00	31.2	30.9	30.7	88.7	88	87.6	0	999.7	275.3	15.8721	5.6785	2.0221	0	
27-07-24	1:00:00	31.2	30.9	30.6	89.1	88.1	87.1	0	999.5	284.3	14.5702	5.5954	2.3822	0	
27-07-24	2:00:00	31.2	30.9	30.6	88	87.1	86.5	0	998.9	287.1	15.1242	5.4846	2.5761	0	
27-07-24	3:00:00	31	30.7	30.2	88.8	87.7	86.4	0	998.3	294.8	17.728	6.0109	3.1301	0	
27-07-24	4:00:00	31	30.7	30.5	87.8	87.1	86.6	0	998.3	284.5	16.4261	6.0663	3.1301	0	
27-07-24	5:00:00	31	30.8	30.5	87.4	86.6	85.8	0	998.6	291.1	15.6782	5.7339	2.9362	0	
27-07-24	6:00:00	31	30.5	30	89.5	87.4	85.5	0	998.7	286.1	15.3181	5.4846	2.5761	0	
27-07-24	7:00:00	31	30.5	30.1	88.9	87.2	85.7	0.1	999.3	285.9	15.6782	5.7339	2.5761	0	
27-07-24	8:00:00	31.2	30.9	30.6	86.2	85.7	84.9	17	1000.1	283.5	15.1242	6.0663	2.5761	0	
27-07-24	9:00:00	31.4	31.1	30.8	85.8	85	84.5	43.9	1000.8	285.3	16.4261	5.9832	2.3822	0	
27-07-24	10:00:00	31.6	31.2	30.8	86	84.6	82.9	50.4	1001.3	282.2	13.85	5.5123	2.3822	0	
27-07-24	11:00:00	31.9	31.5	31	85.6	83.7	82	117.9	1001.7	279.9	13.85	5.4015	2.3822	0	
27-07-24	12:00:00	32.6	32	31.5	83.5	81.7	79.3	170.9	1001.8	280.4	14.958	5.6785	2.5761	0	
27-07-24	13:00:00	32.9	32	31.6	83.3	81.7	78.4	147.6	1000.9	273.5	13.4622	5.0137	2.3822	0	
27-07-24	14:00:00	32.9	31.9	31.3	83.8	81	77.5	107.3	999.8	264.9	14.2101	5.54	2.3822	0	
27-07-24	15:00:00	31.9	31.5	31.2	84	82.6	81.4	48.4	999.2	262.3	17.174	5.5954	2.5761	0	
27-07-24	16:00:00	31.8	31.4	31.2	84.6	83.9	83.2	65.8	998.9	256.8	14.5702	5.7893	2.5761	0	
27-07-24	17:00:00	31.5	31.1	30.8	86.1	85.1	83.6	26.2	998.6	259.2	13.296	5.3461	2.5761	0	
27-07-24	18:00:00	31.4	30.9	30.6	87.9	86.7	85.6	7.6	998.3	268.3	13.85	5.2353	2.216	0	
27-07-24	19:00:00	31	30.8	30.3	88	87	85.2	1.8	998.1	264.4	13.4622	5.3738	2.3822	0	
27-07-24	20:00:00	31	30.3	29.8	87.8	86.9	86.2	0	998.2	267.8	13.1021	4.7644	1.662	0	
27-07-24	21:00:00	31	30.6	29.9	87.8	85.2	82.7	0	999.1	263.5	12.3542	4.7644	1.662	0	
27-07-24	22:00:00	30.8	30.6	30.4	90	88.9	87.4	0	999.5	261.2	10.1382	3.7949	1.8282	0	
27-07-24	23:00:00	31	30.6	30.3	90.5	89.7	88.9	0	999.4	258	11.2462	4.0719	1.662	0	
28-07-24	0:00:00	30.8	30.6	30.4	90.5	90	89.6	0	999.2	265.7	11.2462	4.2381	1.4681	0	
28-07-24	1:00:00	30.8	30.4	29.8	93.1	90.9	89.8	0	998.8	269.4	10.8861	4.3212	1.8282	0	

Hazira Station															
DATE	TIME	AT_Max	AT_Avg	AT_Min	RH_Max	RH_Avg	RH_Min	SOLAR	BP	WD	WS_Max	WS_Avg	WS_Min	RAIN	
DD/MM/YY	HH:MM:SS	DegC	DegC	DegC	%	%	%	W/m2	mbar	Deg	m/s	m/s	m/s	mm	
28-07-24	2:00:00	30.2	29.9	29.7	94.9	94.2	92.9	0	997.9	270.5	9.972	4.0719	2.216	0	
28-07-24	3:00:00	30.2	29.9	29.7	95.2	94.8	94.4	0	997.5	280.4	11.634	4.7644	2.216	0	
28-07-24	4:00:00	30.3	30	29.8	94.8	94.5	94.2	0	997	263.2	10.526	3.7118	1.662	0	
28-07-24	5:00:00	30.2	30	29.7	95	94.6	94.2	0	997.2	243.1	10.526	4.5982	1.4681	0	
28-07-24	6:00:00	30.6	30.2	29.8	94.6	93.3	92	0	997.3	245	10.526	4.9306	1.662	0	
28-07-24	7:00:00	30.8	30.5	30.2	92.3	90.3	89.5	2.7	997.8	250.5	12.3542	6.0663	2.9362	0	
28-07-24	8:00:00	31.2	30.8	30.4	90.2	89.5	88.5	41.4	998.6	252.3	12.742	5.3461	2.0221	0	
28-07-24	9:00:00	31.4	31.2	30.9	88.7	87.9	87.4	66.9	999.2	267.2	11.4401	5.0691	2.216	0	
28-07-24	10:00:00	31.8	31.4	31.2	88.2	87.1	86.3	89.6	999.3	275.5	12.5481	4.8752	2.0221	0	
28-07-24	11:00:00	32.3	31.9	31.4	86.8	85.1	83.1	153.1	999.4	256.8	10.8861	5.0137	2.3822	0	
28-07-24	12:00:00	32.3	31.8	31.4	85.7	84.6	83.3	111.5	999.2	274.6	10.8861	4.2381	2.0221	0	
28-07-24	13:00:00	32.4	32	31.6	85	83.8	82.8	143.1	998.6	283.7	11.4401	5.1522	2.3822	0	
28-07-24	14:00:00	32.2	31.8	31.2	86.8	85.1	83.8	149.8	997.8	291.4	11.9941	4.7644	2.0221	0	
28-07-24	15:00:00	31.6	31.1	30.3	91.6	87.7	85.6	51	997.1	295.7	9.7781	3.4348	1.662	0	
28-07-24	16:00:00	30.6	30.3	30.1	94.2	92.9	91.2	37.9	995.9	300.9	10.3321	3.4902	2.0221	0	
28-07-24	17:00:00	31	30.5	30.1	94.3	93.2	91.5	50.7	995.8	291.9	10.526	3.6287	2.216	0	
28-07-24	18:00:00	31.2	30.8	30.5	91.8	90.7	90	26.8	995.7	265	11.08	4.0719	2.5761	0	
28-07-24	19:00:00	31	30.7	30.4	91.8	91.3	90.9	2.4	995.7	254.6	12.5481	4.6536	2.77	0	
28-07-24	20:00:00	31	30.6	30.4	92.5	91.6	90.9	0	995.8	253.1	12.3542	5.2076	3.324	0	
28-07-24	21:00:00	30.8	30.5	30.3	92.5	91.9	91.6	0	996.3	242.4	12.9082	4.8752	2.3822	0	
28-07-24	22:00:00	30.8	30.5	30.4	92.3	91.9	91.6	0	996.6	263.2	11.634	4.5705	3.1301	0	
28-07-24	23:00:00	30.6	30.3	30	94.9	93.9	92.2	0	996.3	278.6	11.4401	4.0442	2.216	0	
29-07-24	0:00:00	30.4	30.2	30	95.4	95	94.6	0	996.1	277.5	11.8002	3.5456	1.662	0	
29-07-24	1:00:00	30.6	30.2	30	95.1	94.7	94.3	0	995.9	284.3	10.8861	3.5733	1.662	0	
29-07-24	2:00:00	30.3	30	29.6	96.5	95.6	94.5	0	995.4	287.8	11.8002	3.878	1.4681	0	
29-07-24	3:00:00	30.2	29.8	29.4	97.1	96.6	96	0	994.5	294	9.2241	3.3517	1.8282	0	

Hazira Station															
DATE	TIME	AT_Max	AT_Avg	AT_Min	RH_Max	RH_Avg	RH_Min	SOLAR	BP	WD	WS_Max	WS_Avg	WS_Min	RAIN	
DD/MM/YY	HH:MM:SS	DegC	DegC	DegC	%	%	%	W/m2	mbar	Deg	m/s	m/s	m/s	mm	
29-07-24	4:00:00	30.2	29.9	29.5	97.2	96.6	96	0	994.3	298.1	11.2462	3.878	1.662	0	
29-07-24	5:00:00	30.1	29.9	29.6	97.4	96.9	96.4	0	994.2	291.1	11.08	3.5456	1.8282	0	
29-07-24	6:00:00	30.1	29.6	28.7	97.4	96.8	96.3	0	994.4	296.4	11.2462	3.3517	1.8282	0	
29-07-24	7:00:00	28.9	28	27.3	98	97.1	95.1	0	994.6	280.5	11.2462	4.7921	2.216	0	
29-07-24	8:00:00	27.7	27.4	26.9	97	95.5	94.4	0	995.6	275.7	11.2462	4.7921	1.8282	0	
29-07-24	9:00:00	27	25.9	25.3	99.4	97.6	95.2	1	995.7	281.7	13.1021	3.9057	1.4681	0	
29-07-24	10:00:00	26	25.5	25	107.1	100.2	98.3	0.6	996	259.9	12.3542	4.3489	2.3822	0	
29-07-24	11:00:00	28.7	25.7	24.8	108.7	107.5	99.4	10.9	997	264.5	12.9082	4.8475	2.77	0	
29-07-24	12:00:00	29.6	29.2	28.3	109.1	108.4	107.2	49.7	999.3	276.1	13.1021	4.4043	1.8282	0	
29-07-24	13:00:00	29.8	29.5	28.8	108.7	105.9	101.2	27	999	283.3	12.3542	4.2381	2.0221	0	
29-07-24	14:00:00	29.7	28.9	27.9	108.7	106.6	100	23	995.4	290.4	14.958	5.0414	2.216	0	
29-07-24	15:00:00	29.5	29.1	28.2	108.7	108.2	106.2	41.2	996.2	301.5	12.9082	4.5151	2.3822	0	
29-07-24	16:00:00	29.5	29.1	28.4	108.7	108.4	107.8	41	996.1	277.1	11.8002	5.54	2.77	0	
29-07-24	17:00:00	29.7	29.1	28.3	108.5	101.9	96	35.3	995.5	287	12.3542	5.3184	2.0221	0	
29-07-24	18:00:00	30.6	30.1	29.4	96	90.6	87.8	42.9	996.7	288.4	11.634	4.5705	2.216	0	
29-07-24	19:00:00	31.1	30.3	30.1	92.5	92	91.2	7.5	995.3	277.7	9.5842	3.2686	1.662	0	
29-07-24	20:00:00	30.6	30.3	30	93.1	92.6	91.8	0	996	284.7	9.5842	3.0747	2.216	0	
29-07-24	21:00:00	30.6	30.3	30.1	93.3	92.6	92.2	0	996.5	279	9.5842	3.0193	2.0221	0	
29-07-24	22:00:00	30.6	30.3	30.2	94.1	93.6	93.1	0	997.1	267.6	10.1382	3.2963	2.3822	0	
29-07-24	23:00:00	30.6	30.3	29.8	94.1	93.6	92.8	0	997.9	269.7	11.4401	4.0165	2.77	0	
30-07-24	0:00:00	30.3	29.8	29.5	93.4	92.4	91.2	0	997.7	278	11.9941	4.3766	2.5761	0	
30-07-24	1:00:00	30.4	30.1	29.8	92.9	91.8	91	0	997.3	293.7	10.526	3.4348	1.8282	0	
30-07-24	2:00:00	30.6	30.3	30	93.4	92.7	92.2	0	997.5	282.2	11.2462	3.5179	1.8282	0	
30-07-24	3:00:00	30.5	30.2	30	93.2	92.8	92.5	0	997.3	288.7	9.418	3.0747	1.662	0	
30-07-24	4:00:00	30.4	30.2	30	93.2	92.7	92.3	0	997.1	311.7	9.5842	3.1024	1.8282	0	
30-07-24	5:00:00	30.4	30.2	30	93.4	93	92.7	0	997.2	314.3	9.2241	3.1024	2.3822	0	

Hazira Station															
DATE	TIME	AT_Max	AT_Avg	AT_Min	RH_Max	RH_Avg	RH_Min	SOLAR	BP	WD	WS_Max	WS_Avg	WS_Min	RAIN	
DD/MM/YY	HH:MM:SS	DegC	DegC	DegC	%	%	%	W/m2	mbar	Deg	m/s	m/s	m/s	mm	
30-07-24	6:00:00	30.4	30.2	30	93.5	93.1	92.5	0	997.5	306.4	9.2241	3.2409	2.0221	0	
30-07-24	7:00:00	30.8	30.3	30	93	92.6	92.2	3.9	997.9	304.2	9.972	3.1578	1.8282	0	
30-07-24	8:00:00	31.4	30.7	30.1	92.6	89	86.5	41.6	998.9	267.8	9.418	3.601	1.8282	0	
30-07-24	9:00:00	31.6	31.2	30.8	90.3	89.5	88.4	75.8	999.7	273.5	12.188	4.7367	1.8282	0	
30-07-24	10:00:00	33.1	32.4	31.3	89.7	84.3	81.6	265.2	1001.6	249.2	13.1021	5.7339	2.5761	0	
30-07-24	11:00:00	33	32.1	31.6	87.2	84.3	80	161.8	1001.6	240.9	14.2101	5.6508	2.3822	0	
30-07-24	12:00:00	32.7	32.2	31.2	85.8	83.9	80.5	164.8	1001.4	267.3	12.3542	4.6813	2.0221	0	
30-07-24	13:00:00	32.7	31.5	30	89.2	85.2	81.6	192	1000.8	276.1	11.634	4.8475	1.8282	0	
30-07-24	14:00:00	33.8	33	32.5	84.3	81.4	79.3	246.1	1000.7	283.8	12.3542	4.432	2.0221	0	
30-07-24	15:00:00	33.8	33.4	32.9	81.1	79.4	78	254.9	1000.6	289	11.634	4.0996	2.216	0	
30-07-24	16:00:00	33.9	33.4	32.9	81	79.1	77.3	235.9	1000.4	286.5	13.1021	4.5982	2.77	0	
30-07-24	17:00:00	33.5	32.8	32.3	83	80.9	78.7	146.6	999.9	267.4	13.85	4.7921	3.1301	0	
30-07-24	18:00:00	32.9	31.9	31.4	86.3	84.1	80.7	45.4	999.2	268.4	14.0162	5.0691	3.4902	0	
30-07-24	19:00:00	31.8	31.3	31	87.7	86.9	85.9	7	999.4	250.6	13.296	5.6508	3.1301	0	
30-07-24	20:00:00	31.2	30.9	30.6	89.1	88.2	87	0	999.6	252.2	11.9941	4.8752	3.1301	0	
30-07-24	21:00:00	31.1	30.8	30.6	89.5	88.8	88.2	0	1000.7	259.4	13.85	4.7367	2.77	0	
30-07-24	22:00:00	31	30.8	30.6	89.8	89.3	88.7	0	1001.7	264	11.4401	4.2381	2.216	0	
30-07-24	23:00:00	31	30.7	30.4	90.9	90.2	89.5	0	1002.2	252.1	11.634	4.3212	2.216	0	
31-07-24	0:00:00	30.8	30.5	30.3	90.9	90.3	89.6	0	1002.4	259.5	11.4401	4.0442	2.3822	0	
31-07-24	1:00:00	30.7	30.5	30.2	91.3	90.9	90.3	0	1002.3	267.6	10.3321	3.6564	2.3822	0	
31-07-24	2:00:00	30.6	30.4	30.2	91.5	90.8	90.2	0	1001.8	257.3	10.8861	3.5179	1.662	0	
31-07-24	3:00:00	30.6	30.3	30	91.8	91.3	90.6	0	1001.2	254.8	8.864	3.1578	2.0221	0	
31-07-24	4:00:00	30.4	30.2	29.9	92.7	91.4	90.5	0	1000.7	263.7	7.5621	2.3268	1.4681	0	
31-07-24	5:00:00	30.4	30.1	29.9	94	93.3	92.6	0	1000.5	248.9	6.2602	1.6897	1.108	0	
31-07-24	6:00:00	30.3	29.9	29.4	95.4	94.6	93.4	0	1000.8	253.4	7.3682	2.1883	1.108	0	
31-07-24	7:00:00	30.4	29.9	29.4	95.2	94.8	94.2	4	1001.3	264.5	7.3682	2.216	1.4681	0	

Hazira Station															
DATE	TIME	AT_Max	AT_Avg	AT_Min	RH_Max	RH_Avg	RH_Min	SOLAR	BP	WD	WS_Max	WS_Avg	WS_Min	RAIN	
DD/MM/YY	HH:MM:SS	DegC	DegC	DegC	%	%	%	W/m2	mbar	Deg	m/s	m/s	m/s	mm	
31-07-24	8:00:00	30.7	30.3	30	94.3	92.4	90.6	31.8	1002	265	9.5842	2.9639	1.4681	0	
31-07-24	9:00:00	31.6	31.1	30.4	90.9	89.1	87.3	54.5	1002.8	265.6	9.972	2.9639	0.7202	0	
31-07-24	10:00:00	32.9	31.6	31	87.8	85.9	82.2	137.9	1003.6	268.2	10.3321	3.6287	1.8282	0	
31-07-24	11:00:00	33.5	33	32.5	82.6	79	76.5	262.6	1004.5	275.6	11.2462	4.709	1.8282	1.5	
31-07-24	12:00:00	33.9	33.2	32.6	80.7	78.7	76	291.6	1004.7	280	11.634	4.3766	1.8282	0	
31-07-24	13:00:00	34.1	33.8	33.3	78.7	75.1	73.4	384.6	1004.3	288.9	13.1021	5.0968	0.9141	0	
31-07-24	14:00:00	34.6	34.2	33.7	76.1	74.5	72.2	393.3	1003.5	227.7	13.85	6.5926	1.2742	0	
31-07-24	15:00:00	34.6	34.2	33.9	76.5	74.1	72.8	360.4	1003	227.2	14.958	7.2574	3.324	0	
31-07-24	16:00:00	34.6	34.2	33.7	76	73.8	71.9	290.1	1002.9	231.1	16.066	6.9804	2.77	0	
31-07-24	17:00:00	34.2	33.8	33.3	75.8	74.4	72.7	209.4	1002.3	235.2	13.85	6.5372	3.1301	0	
31-07-24	18:00:00	33.8	32.8	32.1	81	78.5	74.7	72.1	1001.5	239.6	12.5481	5.7062	2.5761	0	
31-07-24	19:00:00	32.5	31.9	31.4	83.8	81.9	80.2	23.3	1001.3	247.5	13.4622	5.9832	2.9362	0	
31-07-24	20:00:00	31.6	31.3	31	85.8	84.9	83.3	0	1001.5	253.9	13.6561	5.5677	2.9362	0	
31-07-24	21:00:00	31.4	31.1	30.9	87.1	86.3	85.4	0	1002	262.4	11.8002	5.1245	2.3822	0	
31-07-24	22:00:00	31.3	31	30.8	87.7	86.9	86.2	0	1002.3	268.1	13.4622	4.9583	2.77	0	
31-07-24	23:00:00	31.2	31	30.7	87.7	86.9	86.2	0	1002.7	265.8	11.4401	4.2935	2.216	0	
01-08-24	0:00:00	31.1	30.9	30.6	88	87.5	87	0	1002.7	263	12.5481	4.5428	1.8282	0	
01-08-24	1:00:00	31	30.8	30.6	88.5	87.8	87.3	0	1002.4	267.3	11.9941	4.5428	2.5761	0	
01-08-24	2:00:00	31	30.7	30.4	89.1	88.5	87.8	0	1001.7	277	11.9941	4.0165	1.8282	0	
01-08-24	3:00:00	30.8	30.6	30.3	89.4	88.5	87.6	0	1001.5	276.9	11.9941	3.878	1.662	0	
01-08-24	4:00:00	30.8	30.2	28.5	92	88.7	86.7	0	1000.7	266.5	19.5839	5.0137	2.3822	0.5	
01-08-24	5:00:00	29.3	28.8	28.5	93.8	92.4	91	0	1000.1	247.6	15.1242	5.2907	1.662	0	
01-08-24	6:00:00	29.7	29.3	28.9	94.7	94.1	93.4	0	1000	244.6	8.31	3.3517	1.108	0	
01-08-24	7:00:00	30	29.3	28.3	95.5	93.5	90.2	0.2	1000.4	257.6	10.526	3.5456	1.108	3	
01-08-24	8:00:00	29.7	29	28.4	97.7	96.5	95.2	2.3	1000.6	269.1	13.85	4.2658	1.662	4.5	
01-08-24	9:00:00	31.4	30.5	29.5	96.8	92.3	86.1	76.3	1001.6	278.8	13.4622	5.6231	2.3822	0	

Hazira Station															
DATE	TIME	AT_Max	AT_Avg	AT_Min	RH_Max	RH_Avg	RH_Min	SOLAR	BP	WD	WS_Max	WS_Avg	WS_Min	RAIN	
DD/MM/YY	HH:MM:SS	DegC	DegC	DegC	%	%	%	W/m2	mbar	Deg	m/s	m/s	m/s	mm	
01-08-24	10:00:00	32.2	31.5	30.7	88.2	85	81.2	140.3	1002.6	262.1	14.0162	5.9278	2.9362	0	
01-08-24	11:00:00	33	32.3	31.8	82.5	80.4	78.3	246	1003.2	258.1	15.1242	6.648	2.77	0	
01-08-24	12:00:00	33.3	32.8	32.3	79.9	78	76	270.4	1003.4	261.2	16.2322	6.8419	3.1301	0	
01-08-24	13:00:00	33.3	32.8	32.4	79.6	77.9	76.9	224.3	1003.4	266.3	13.85	5.263	1.2742	0	
01-08-24	14:00:00	33.5	33.1	32.7	79.4	77.7	76.3	216.5	1002.8	262.6	14.7641	5.3738	2.77	0	
01-08-24	15:00:00	34.1	33.6	33.1	77.8	75.7	73.7	322.8	1002.1	256.3	15.8721	6.2048	3.6841	0	
01-08-24	16:00:00	33.9	33.1	32.3	79.4	77.1	74.4	192.9	1000.9	256.7	16.4261	6.2048	2.9362	0	
01-08-24	17:00:00	33.1	32.7	32.3	80.1	78	75.8	135.7	1000.5	270.4	15.1242	5.5123	3.1301	0	
01-08-24	18:00:00	32.6	32	31.5	81.6	79.2	76.3	51.1	1000.2	267.1	16.2322	6.2879	3.1301	0	
01-08-24	19:00:00	31.8	31.4	31	81.6	79.5	78.2	2.3	1000.4	270.5	15.8721	5.1245	2.3822	0	
01-08-24	20:00:00	31.4	31.1	30.8	84.6	83.3	81.1	0	1000.8	277.1	16.4261	5.5677	3.324	0	
01-08-24	21:00:00	31.2	30.5	29.6	91.3	87.4	83.1	0	1001.5	282.5	17.5341	4.7644	3.1301	0.5	
01-08-24	22:00:00	30.9	30.5	30.2	90.7	88.6	87.1	0	1002	286.1	12.742	4.4597	2.3822	0	
01-08-24	23:00:00	31	30.6	30.2	89.7	88.2	86.5	0	1002.1	286.8	15.3181	4.7921	3.1301	0	
02-08-24	0:00:00	30.8	30.2	29.7	91.3	89.5	87.7	0	1001.7	274.6	15.3181	5.0968	2.3822	0.5	
02-08-24	1:00:00	30.6	30.3	30	90	88.6	87.7	0	1001.5	242.5	14.958	6.6757	2.216	0	
02-08-24	2:00:00	30.6	30.3	30.1	88.5	87.7	86.8	0	1000.5	258.7	15.512	6.5095	3.324	0	
02-08-24	3:00:00	30.6	30.3	30.1	87.1	86.1	85.6	0	999.8	256.9	15.1242	6.7311	2.5761	0	
02-08-24	4:00:00	31.2	30.4	30.2	88.2	86.7	84.7	0	999.3	247.2	16.066	6.3987	2.3822	0	
02-08-24	5:00:00	31.2	30.6	30	86.6	84.9	83	0	999.5	252.8	19.0299	6.7311	2.5761	0	
02-08-24	6:00:00	30.1	29.3	28.3	91.6	89.1	83.4	0	999.3	260.6	17.8942	6.5649	2.9362	0	
02-08-24	7:00:00	30.8	30.3	29.8	89.3	87.9	86.3	0	1000	268.8	13.6561	6.2325	2.0221	0	
02-08-24	8:00:00	31	30.6	29.8	89	86.5	84.3	10.3	1001	285.5	14.5702	5.817	2.0221	0	
02-08-24	9:00:00	31.6	31	30	89.1	85.4	82.6	66.1	1001.7	286.1	14.404	5.6508	2.77	0	
02-08-24	10:00:00	31.6	30.8	30	89.5	87	83	82.4	1001.8	285.8	16.62	5.2353	2.77	0.5	
02-08-24	11:00:00	32.2	31	29.3	90.2	86.2	79.4	151.3	1002.4	284.1	18.4759	5.54	3.324	0.5	

Hazira Station															
DATE	TIME	AT_Max	AT_Avg	AT_Min	RH_Max	RH_Avg	RH_Min	SOLAR	BP	WD	WS_Max	WS_Avg	WS_Min	RAIN	
DD/MM/YY	HH:MM:SS	DegC	DegC	DegC	%	%	%	W/m2	mbar	Deg	m/s	m/s	m/s	mm	
02-08-24	12:00:00	31.6	31.3	31	85.3	81.3	79.4	124.9	1004.8	269.7	17.3402	6.6203	3.878	0	
02-08-24	13:00:00	32.3	31.8	31.2	81.9	80.4	77.6	180.4	1001.8	264.1	19.0299	6.8973	2.3822	0	
02-08-24	14:00:00	32.1	31.4	31	82.6	81.3	78.3	116.3	1001.2	271.2	17.174	5.8724	2.9362	0	
02-08-24	15:00:00	32.2	31.7	31.2	83.3	82.3	81.2	120.3	1000.5	284.6	16.066	5.7062	3.1301	0	
02-08-24	16:00:00	32.3	32	31.6	83.4	81.1	78.4	124.3	1000	286.8	17.8942	5.5954	3.1301	0	
02-08-24	17:00:00	32.3	31.7	30.4	85.7	81	78.2	100.2	999.4	278.7	20.3041	5.7616	3.878	0	
02-08-24	18:00:00	32	31.4	30.6	85.3	81.8	80	78.8	999.3	251.7	16.4261	6.7865	3.4902	0	
02-08-24	19:00:00	30.8	30.3	29.8	87.6	85.2	83.1	18.5	999.1	254.6	17.174	6.0663	2.9362	0	
02-08-24	20:00:00	30.7	30	29.4	90.7	87.4	84.3	0	999.4	259.6	15.6782	5.8447	2.5761	0	
02-08-24	21:00:00	30.2	29.8	29.4	90.3	89.2	88.5	0	1000.2	264.2	15.1242	5.9832	2.77	0	
02-08-24	22:00:00	30.3	30	29.7	89.6	88.3	87.5	0	1000.9	270.1	15.6782	5.3738	2.5761	0	
02-08-24	23:00:00	30.4	29.9	29.3	92.7	89.4	87.4	0	1001.3	275.5	15.6782	5.4015	2.0221	0	
03-08-24	0:00:00	30.3	29.9	29.4	93	91.1	89.8	0	1001.1	287.2	15.3181	5.7339	2.9362	0	
03-08-24	1:00:00	29.9	29.4	29	94.7	93.5	91.9	0	1000.4	291.1	15.512	5.5123	2.77	0.5	
03-08-24	2:00:00	29.8	29.4	28.9	95.6	93.9	92.3	0	999.7	297.4	15.1242	5.54	2.3822	0	
03-08-24	3:00:00	30.2	29.7	29.4	94.5	93	92.2	0	999.6	291	16.7862	6.1217	3.1301	0	
03-08-24	4:00:00	30.3	29.9	29.6	92.4	91.1	88.8	0	999.8	289.6	17.174	6.1217	2.5761	0	
03-08-24	5:00:00	30.4	29.9	29.4	92	90.3	88.6	0	998.3	286.8	17.174	5.9832	2.9362	1	
03-08-24	6:00:00	29.8	29.3	28.5	93.6	92.4	88.3	0	997.1	280.5	14.7641	5.0691	2.3822	0	
03-08-24	7:00:00	30	28.8	27.7	97.4	94	90.4	0	996.2	283.2	16.9801	6.371	2.216	15	
03-08-24	8:00:00	29.3	28.9	27.9	98.5	97	95.8	5.2	998.5	264.6	14.7641	6.2602	2.5761	0	
03-08-24	9:00:00	30.5	30	29.1	96.2	92.3	89.4	40.1	1002.5	267.1	13.6561	6.6757	2.9362	0	
03-08-24	10:00:00	31	30.3	29.8	91.1	88.3	85.7	49.1	1002.3	266.7	13.6561	6.1771	2.3822	0	
03-08-24	11:00:00	31.5	30.9	30.5	87.9	86	83.4	87.6	1002.6	267.7	12.9082	5.3184	2.216	0	
03-08-24	12:00:00	31.9	31.5	30.8	84.2	82.5	81	136	1002.1	277.1	13.4622	5.1799	2.3822	0	
03-08-24	13:00:00	31.9	31.3	30.8	86.1	83.7	81.4	107.2	1001.7	279.2	15.3181	5.2076	2.77	0	

Hazira Station															
DATE	TIME	AT_Max	AT_Avg	AT_Min	RH_Max	RH_Avg	RH_Min	SOLAR	BP	WD	WS_Max	WS_Avg	WS_Min	RAIN	
DD/MM/YY	HH:MM:SS	DegC	DegC	DegC	%	%	%	W/m2	mbar	Deg	m/s	m/s	m/s	mm	
03-08-24	14:00:00	31.3	30.8	29.6	89.8	85.5	82.8	73.5	1000.8	290.1	17.3402	5.9001	2.9362	0	
03-08-24	15:00:00	30.4	29.8	29.1	95.1	91.7	89.6	78.3	999.7	275.3	16.4261	5.7893	3.324	0.5	
03-08-24	16:00:00	29.9	29.5	29.1	96	95.2	94.5	50.4	1000.8	262.2	16.066	5.817	3.1301	0	
03-08-24	17:00:00	30.1	29.7	29.3	95.4	94.3	93.1	10.9	1000.1	261.3	20.1379	6.925	3.1301	0.5	
03-08-24	18:00:00	29.8	29.4	29.1	96.7	95.5	94.2	7.7	998.3	258	18.282	7.3128	3.4902	0.5	
03-08-24	19:00:00	30	29.3	28.9	97.6	96.4	95.3	0	998.2	244	17.8942	7.5621	2.9362	2.5	
03-08-24	20:00:00	30	29.5	28.9	96.2	95.3	93.5	0	998.8	252.6	23.4619	7.0358	2.5761	2.5	
03-08-24	21:00:00	29.9	29.4	28.8	96	95.3	94.2	0	999.3	258.4	14.5702	6.8696	3.1301	2.5	
03-08-24	22:00:00	30.3	29.8	29.3	95.2	93.3	91.6	0	1001.5	263	22.9079	6.371	2.77	0	
03-08-24	23:00:00	30.4	30	29.5	94.1	91.7	91	0	1001.7	274.3	11.4401	5.4569	2.3822	0.5	
04-08-24	0:00:00	30.4	30	29.6	94	92.4	91.4	0	1001.9	282.3	10.6922	5.8724	2.216	0	
04-08-24	1:00:00	30.4	30	29.8	92.3	91.5	90.9	0	1002.1	297	10.1382	5.4292	2.3822	0	
04-08-24	2:00:00	32.9	29.5	28.1	95.6	92.3	88.9	0	1000.2	310	12.742	5.4015	2.0221	3	
04-08-24	3:00:00	30	28.8	28.1	98.2	96.6	94.4	0	998.9	281.8	14.7641	5.3184	1.662	1	
04-08-24	4:00:00	30.3	29.9	29.6	94.6	91.3	89.8	0	1001.5	276.3	9.5842	4.5982	0.9141	0	
04-08-24	5:00:00	30.6	30	29.6	91.1	89.6	87.7	0	1000.6	291.4	10.526	4.6813	0.7202	0	
04-08-24	6:00:00	30.4	30.1	29.9	90.7	89.4	88.3	0	999.9	288.3	10.3321	4.0719	2.0221	0	
04-08-24	7:00:00	30.6	30.3	30.1	89.3	88.6	87.9	1.3	1000.3	283.1	10.526	4.3212	1.8282	0	
04-08-24	8:00:00	30.8	30.5	30.2	88.7	87.5	86.5	9.8	1001.4	293.7	9.972	4.4043	2.0221	0	
04-08-24	9:00:00	30.8	30.5	30.2	88	87.2	86.2	40	1001.9	293.8	12.188	4.2935	2.0221	0	
04-08-24	10:00:00	30.8	30.5	30.2	89	87.3	84.5	54.7	1002.4	290.2	12.3542	4.3489	2.0221	0	
04-08-24	11:00:00	30.5	29.7	28.5	92.3	88.4	83.9	45.2	1002.4	263.4	11.9941	4.0165	1.662	0	
04-08-24	12:00:00	31.3	30.8	30.1	90	87.1	85.6	93.9	1002.6	274.9	10.6922	3.7949	1.4681	0	
04-08-24	13:00:00	31.8	31.3	31	86.6	84.5	82.3	134.1	1002.3	286.2	11.634	4.0719	1.662	0	
04-08-24	14:00:00	32.1	31.2	30.8	85.8	84.1	82.4	111.8	1001.8	280.1	10.3321	4.155	1.8282	0	
04-08-24	15:00:00	31.2	30.8	30.4	86	85.3	84.6	52.8	1001.1	273.8	10.1382	3.8503	1.662	0	

Hazira Station															
DATE	TIME	AT_Max	AT_Avg	AT_Min	RH_Max	RH_Avg	RH_Min	SOLAR	BP	WD	WS_Max	WS_Avg	WS_Min	RAIN	
DD/MM/YY	HH:MM:SS	DegC	DegC	DegC	%	%	%	W/m2	mbar	Deg	m/s	m/s	m/s	mm	
04-08-24	16:00:00	31	30.8	30.4	87.2	86.4	84.8	42.7	1000.1	271.7	10.3321	3.6564	1.4681	0	
04-08-24	17:00:00	31.1	30.8	30.3	87.9	85.7	83.5	44.6	999.8	265.3	10.3321	3.7949	2.0221	0	
04-08-24	18:00:00	30.8	30.6	30.3	88.5	87.5	85.8	13.5	1000.1	267.7	13.4622	4.6813	2.3822	0	
04-08-24	19:00:00	30.8	30.3	29.9	90.5	89	88	0.3	1000.3	272.4	14.0162	5.1522	3.1301	0	
04-08-24	20:00:00	30.6	30.2	29.4	92.2	90	89.1	0	1001.3	278.4	13.296	4.5151	2.9362	0	
04-08-24	21:00:00	30.1	29.6	29.2	92.8	92	91	0	1001.6	283.2	12.742	3.9611	2.0221	0	
04-08-24	22:00:00	30.4	30	29.6	92.3	91	90.3	0	1002	248.3	12.742	5.0137	3.1301	0	
04-08-24	23:00:00	30.4	30.1	28.5	92.5	91	88.5	0	1002.4	244.4	14.7641	5.9278	2.9362	0	
05-08-24	0:00:00	30.1	29.7	29.3	93.4	91.7	89.4	0	1002.2	250.3	14.0162	5.4015	2.3822	0	
05-08-24	1:00:00	32.2	29.8	29.6	90.9	90.3	89.3	0	1001.7	254.1	15.3181	5.7616	2.9362	0	
05-08-24	2:00:00	30.4	30	29.7	90.8	89.5	87.6	0	1001.3	271.4	14.404	5.0137	2.5761	0	
05-08-24	3:00:00	30.4	30.2	29.9	89.3	88.4	87.5	0	1001.5	278	13.4622	4.1273	2.0221	0	
05-08-24	4:00:00	30.3	30	29.8	90.2	89.4	88.7	0	1000.9	272	12.5481	4.5428	2.3822	0	
05-08-24	5:00:00	30.4	30.1	29.8	90	89.5	88.8	0	1001.1	278.3	11.9941	4.0165	2.3822	0	
05-08-24	6:00:00	30.4	30.1	29.7	89.8	89	88.3	0	1001.4	290.6	12.742	4.2658	2.3822	0	
05-08-24	7:00:00	30.4	30.1	29.9	89.6	88.7	88	0	1001.7	309	12.188	3.5733	2.3822	0.5	
05-08-24	8:00:00	30.6	29.9	29.3	93	91.1	87.4	29.7	1002.1	302.6	12.188	3.7395	1.8282	0	
05-08-24	9:00:00	31.4	30.9	29.8	88.9	84.8	82.7	71.4	1003.4	305.1	11.2462	3.5733	1.662	0	
05-08-24	10:00:00	30.4	29.9	29.2	90.6	87.2	84.1	107.3	1003.9	293.8	11.9941	4.0996	2.0221	0	
05-08-24	11:00:00	29.8	29.1	28.2	89.7	86.4	82.9	123.2	1004.3	269.7	11.4401	3.9057	2.216	0	
05-08-24	12:00:00	32.5	31.4	28.7	88	81.8	80.4	203.5	1005.3	242.5	13.296	5.8724	2.3822	0.5	
05-08-24	13:00:00	32.7	31.7	30.7	82.6	80.5	75.8	183.5	1004.6	246	13.1021	5.7339	2.3822	0	
05-08-24	14:00:00	32.9	32.1	31.2	82.9	79.3	74.7	214.2	1004.1	253.3	13.1021	5.4015	2.77	0	
05-08-24	15:00:00	32.7	31.9	31.3	81.8	78.7	74.3	149	1003.2	268.1	13.296	4.9029	2.5761	0	
05-08-24	16:00:00	32.3	31.9	31.4	79.8	78.2	77	129.4	1002.8	254.3	11.634	4.9583	2.3822	0	
05-08-24	17:00:00	32.3	31.9	31.4	82.1	80.1	78.2	109	1002.7	247.3	12.742	4.9029	2.216	0	

Hazira Station															
DATE	TIME	AT_Max	AT_Avg	AT_Min	RH_Max	RH_Avg	RH_Min	SOLAR	BP	WD	WS_Max	WS_Avg	WS_Min	RAIN	
DD/MM/YY	HH:MM:SS	DegC	DegC	DegC	%	%	%	W/m2	mbar	Deg	m/s	m/s	m/s	mm	
05-08-24	18:00:00	31.9	31.3	30.9	82.3	80.8	78.3	35	1002.4	249.6	11.8002	4.6536	1.2742	0	
05-08-24	19:00:00	31.2	30.9	30.6	85.8	83.6	81.1	1.9	1002.2	252.3	11.4401	4.2381	1.662	0	
05-08-24	20:00:00	31	30.6	30.4	87.2	86.5	85.7	0	1002.6	238.4	10.3321	4.5151	2.0221	0	
05-08-24	21:00:00	30.8	30.1	29.4	88	87.4	85.8	0	1003.1	231.7	10.1382	4.6813	1.662	0	
05-08-24	22:00:00	30.6	30.3	29.9	88.6	86.7	84.9	0	1003.8	245.6	9.972	4.3766	1.4681	0	
05-08-24	23:00:00	30.7	30.2	29.2	89.1	86.5	85.4	0	1004	251.4	14.0162	5.1522	1.662	0	
06-08-24	0:00:00	30.3	29.8	29.2	89.3	86.2	83.6	0	1003.8	254.2	11.2462	4.4874	1.4681	0	
06-08-24	1:00:00	30.4	30.1	29.8	88.8	87.6	86.8	0	1003.6	248.7	10.526	3.5456	1.108	0	
06-08-24	2:00:00	30.3	29.2	28.6	92.7	91.2	86.7	0	1003.2	269.6	11.08	3.8503	0.7202	0.5	
06-08-24	3:00:00	29.8	29.2	28.3	94.6	92.4	89.7	0	1003	275.1	11.08	3.0747	0.7202	1.5	
06-08-24	4:00:00	29.3	28.8	28.2	96.3	95.3	94	0	1002.5	268	9.418	3.9888	1.4681	0.5	
06-08-24	5:00:00	29.9	29.3	29	94.2	92.8	91.8	0	1001.8	249	11.9941	4.6259	1.2742	0	
06-08-24	6:00:00	30.2	29.9	29.6	92.2	90.8	89.5	0	1002.1	249	9.7781	4.0719	1.2742	0	
06-08-24	7:00:00	30.4	30	29.7	89.7	87.9	86.2	0.8	1002.7	249.7	10.1382	4.2381	1.108	0	
06-08-24	8:00:00	31.1	30.5	30	86.6	84.9	83.8	34.2	1003.3	258.3	12.5481	4.6813	1.108	0	
06-08-24	9:00:00	31.3	31	30.8	85.7	84.5	83.7	92	1004.1	247.4	12.5481	5.3738	2.216	0	
06-08-24	10:00:00	31.7	31.3	30.9	84.6	83.4	82	93.6	1004.3	238.2	10.8861	4.9029	1.8282	0	
06-08-24	11:00:00	32.5	31.4	30.7	83.5	80.5	79.7	190.3	1005	232.3	11.9941	6.0386	2.0221	0	
06-08-24	12:00:00	33.7	32.8	30.8	81.3	75.9	72.9	386.8	1005.2	234.9	12.3542	6.094	2.216	0	
06-08-24	13:00:00	34.1	33.5	33	76.7	74.2	72	398.2	1004.8	233.5	12.742	6.1494	2.5761	0	
06-08-24	14:00:00	33.9	33.3	32.7	75.7	73	71.2	311.1	1004.4	245.1	13.85	5.817	2.9362	0	
06-08-24	15:00:00	33.7	33.2	32.8	78.2	75.9	73.6	273	1004.1	248.4	13.1021	5.5123	2.3822	0	
06-08-24	16:00:00	33.3	32.2	31.2	82	78.8	75.5	133.2	1003.1	249.5	13.6561	4.9029	2.9362	0	
06-08-24	17:00:00	32.5	31.6	30.9	84	82	79.6	122.6	1002.6	258.7	13.85	4.9583	2.9362	0	
06-08-24	18:00:00	32.1	31.7	31.3	79.9	76.9	74.5	80.3	1002.4	260.7	11.8002	4.3766	2.3822	0	
06-08-24	19:00:00	31.6	31.1	30.6	84.2	81.9	78	23.8	1002.1	252	12.188	5.0691	2.77	0	

Hazira Station															
DATE	TIME	AT_Max	AT_Avg	AT_Min	RH_Max	RH_Avg	RH_Min	SOLAR	BP	WD	WS_Max	WS_Avg	WS_Min	RAIN	
DD/MM/YY	HH:MM:SS	DegC	DegC	DegC	%	%	%	W/m2	mbar	Deg	m/s	m/s	m/s	mm	
06-08-24	20:00:00	31	30.7	30.4	85.8	84.6	83.5	0	1002.4	258.5	11.8002	4.9306	2.5761	0	
06-08-24	21:00:00	30.9	30.7	30.4	86	85.6	85.2	0	1003.2	269.4	10.8861	4.3766	2.0221	0	
06-08-24	22:00:00	30.8	30.6	30.4	87.1	86.2	85.6	0	1003.5	284.7	11.08	3.6841	2.0221	0	
06-08-24	23:00:00	30.8	30.5	30.3	86.9	86.2	85.7	0	1004.4	281.1	9.972	3.2132	1.662	0	
07-08-24	0:00:00	30.8	30.5	30.2	88.2	87.4	86.6	0	1004.2	289.3	9.2241	3.2132	1.8282	0	
07-08-24	1:00:00	30.6	30.4	30.2	87.9	87.1	86.6	0	1003.8	280	10.6922	3.7672	2.0221	0	
07-08-24	2:00:00	30.6	30.4	30.2	88.5	87.7	87.1	0	1003.2	249.9	11.2462	4.155	2.0221	0	
07-08-24	3:00:00	30.6	30.3	30	87.8	87	86.2	0	1002.9	252.5	10.3321	3.9334	1.4681	0	
07-08-24	4:00:00	30.4	30.1	29.8	88.3	86.4	85.4	0	1002.7	268	10.3321	3.4071	1.4681	0	
07-08-24	5:00:00	30.3	30	29.7	89.3	87.8	85.9	0	1002.2	269.2	9.7781	3.2686	1.4681	0	
07-08-24	6:00:00	30.4	30.1	29.8	87.8	87.2	86	0	1002.2	267	9.5842	3.7395	1.8282	0	
07-08-24	7:00:00	30.4	30.2	29.9	87.6	86.5	85.6	2.4	1003	258.8	11.2462	4.0996	1.662	0	
07-08-24	8:00:00	31.3	30.7	30.1	85.8	84.5	82.9	46.4	1003.8	268.9	10.6922	4.1273	2.0221	0	
07-08-24	9:00:00	31.6	31.2	30.8	83.4	82.4	81.5	85.4	1004.7	277.7	9.972	3.9057	1.8282	0	
07-08-24	10:00:00	32.7	31.8	31.2	82.8	80.9	77	149	1005.2	285.6	12.3542	3.9611	2.216	0	
07-08-24	11:00:00	33.2	32.5	31.9	79.6	77.5	75.4	239.4	1005.7	285.2	11.2462	4.7921	2.216	0	
07-08-24	12:00:00	33.9	33.3	32.9	76.5	73.7	71.3	334	1005.6	286	11.9941	4.5151	2.216	0	
07-08-24	13:00:00	33.9	33.3	32.9	74.9	73.2	71.1	342.9	1005	293.9	11.9941	4.8198	2.5761	0	
07-08-24	14:00:00	34.1	33.7	33.1	73.6	71.5	69.6	345.4	1004.7	279.5	13.1021	4.9583	2.5761	0	
07-08-24	15:00:00	34.4	33.9	33.3	72	69.8	67.3	319.3	1004.4	250.8	13.296	5.817	2.5761	0	
07-08-24	16:00:00	34.2	33.7	32.9	74.7	70.2	67.1	238.7	1003.8	239.8	14.2101	6.0663	2.216	0	
07-08-24	17:00:00	33.8	33.2	32.6	76.2	73	70.5	182.4	1003.3	273.1	13.1021	4.5982	2.9362	0	
07-08-24	18:00:00	33.2	31.9	31.3	80.3	78.2	74.1	31.3	1003.1	292.9	12.3542	3.7949	2.9362	0	
07-08-24	19:00:00	31.6	31.3	30.8	82.7	81.2	79.7	3.1	1003.3	288.5	12.5481	4.2104	2.216	0	
07-08-24	20:00:00	31.4	31	30.7	83.8	82.5	81.3	0	1003.6	292	12.742	3.8503	2.216	0	
07-08-24	21:00:00	31.2	30.9	30.6	84.8	84	83.1	0	1004.4	298.4	11.4401	3.1301	2.3822	0	

Hazira Station															
DATE	TIME	AT_Max	AT_Avg	AT_Min	RH_Max	RH_Avg	RH_Min	SOLAR	BP	WD	WS_Max	WS_Avg	WS_Min	RAIN	
DD/MM/YY	HH:MM:SS	DegC	DegC	DegC	%	%	%	W/m2	mbar	Deg	m/s	m/s	m/s	mm	
07-08-24	22:00:00	31	30.8	30.6	85.2	84.3	83.5	0	1004.8	302.4	11.9941	3.2963	2.216	0	
07-08-24	23:00:00	31	30.7	30.4	85.2	84.2	83.3	0	1005.3	298.3	11.8002	3.1578	1.8282	0	
08-08-24	0:00:00	30.9	30.6	30.4	85	84.4	83.7	0	1005.1	293	11.2462	3.047	1.662	0	
08-08-24	1:00:00	30.8	30.6	30.4	84.9	84.2	83.1	0	1004.8	286.5	12.742	3.2686	1.8282	0	
08-08-24	2:00:00	30.8	30.6	30.3	85	84	82.9	0	1004.3	290.2	11.08	3.1855	2.0221	0	
08-08-24	3:00:00	30.7	30.4	30.2	85.9	84.9	84	0	1003.7	299.3	9.972	3.1301	1.4681	0	
08-08-24	4:00:00	30.8	30.4	30.2	85.5	84.9	84.2	0	1003.3	311.8	11.08	3.324	1.8282	0	
08-08-24	5:00:00	30.6	30.3	30	86.6	85.6	84.9	0	1003.1	316.3	10.526	3.2132	2.0221	0	
08-08-24	6:00:00	30.7	30.4	30.1	86.4	85.8	85	0	1003.2	319	10.8861	3.2409	1.662	0	
08-08-24	7:00:00	30.6	30.3	29.9	88	86.4	84.8	0	1003.5	320.2	12.5481	4.2104	2.3822	0	
08-08-24	8:00:00	31	30.6	30.2	86.3	85.7	84.9	18	1004.4	287.9	9.7781	3.1301	1.662	0	
08-08-24	9:00:00	31.3	30.9	30.4	86.1	83.8	82.2	45.3	1005.1	253.3	11.2462	4.5705	2.0221	0	
08-08-24	10:00:00	32.3	31.7	31	82.8	80.8	78.2	146.2	1006.2	247.5	10.8861	5.0414	2.216	0	
08-08-24	11:00:00	33.3	32.6	31.9	78.5	75.5	72.2	297	1007	254.3	11.08	5.6231	2.3822	0	
08-08-24	12:00:00	33.5	33	32.5	76.3	74.3	72.8	280.9	1006.6	250.4	11.4401	5.1799	2.216	0	
08-08-24	13:00:00	33.6	33.2	32.7	74.7	73	70.9	232.4	1006.2	252.9	11.08	4.7644	2.216	0	
08-08-24	14:00:00	33.1	32.7	32.3	76.8	74.5	72.5	163.9	1005.7	256.4	11.08	4.4043	1.662	0	
08-08-24	15:00:00	33.1	32.8	32.4	75.7	73.9	72.4	167.6	1005.2	258.4	10.526	4.155	1.662	0	
08-08-24	16:00:00	34.3	33.5	32.9	73.4	70.8	67.3	235	1005	256.1	10.6922	4.0996	1.4681	0	
08-08-24	17:00:00	33.7	32.5	31.2	76	73.2	68.8	105.6	1004.5	257.8	12.5481	4.0442	2.216	0	
08-08-24	18:00:00	32.3	31.7	31.2	79.3	77.5	74.9	32	1003.9	262.6	13.4622	4.7367	2.5761	0	
08-08-24	19:00:00	31.8	30.8	29.7	82.5	80.7	78.5	5.3	1003.6	262.3	13.6561	4.709	2.77	0	
08-08-24	20:00:00	31.2	30.8	30.5	84.9	83.7	82.3	0	1004.3	264.7	11.634	3.9057	2.5761	0	
08-08-24	21:00:00	31	30.7	30.4	85.4	84.6	83.8	0	1004.8	277.7	11.08	3.6841	2.5761	0	
08-08-24	22:00:00	30.8	30.6	30.4	86.2	85.4	84.9	0	1004.8	294.8	11.2462	3.3517	2.9362	0	
08-08-24	23:00:00	30.8	30.6	30.3	86.5	85.9	85.2	0	1005.4	304.7	9.418	2.7977	1.8282	0	

Hazira Station															
DATE	TIME	AT_Max	AT_Avg	AT_Min	RH_Max	RH_Avg	RH_Min	SOLAR	BP	WD	WS_Max	WS_Avg	WS_Min	RAIN	
DD/MM/YY	HH:MM:SS	DegC	DegC	DegC	%	%	%	W/m2	mbar	Deg	m/s	m/s	m/s	mm	
09-08-24	0:00:00	30.8	30.5	30.3	87.1	86.6	86.2	0	1005.8	299.1	8.864	2.5207	1.662	0	
09-08-24	1:00:00	30.8	30.4	30.1	87.4	86.7	86.2	0	1005.1	299.6	9.418	2.7146	1.2742	0	
09-08-24	2:00:00	30.6	30.3	30	88.7	87.8	87	0	1004.7	297.1	8.864	2.7146	1.108	0	
09-08-24	3:00:00	30.6	30.3	30.1	88.7	88.1	87.8	0	1004.5	302.1	7.756	2.4376	1.2742	0	
09-08-24	4:00:00	30.4	30.2	29.9	90.7	88.8	87.6	0	1004	300	6.8142	2.2991	1.4681	0	
09-08-24	5:00:00	30.4	30.1	29.8	90.9	89.8	89	0	1004	294.8	7.5621	2.6038	1.2742	0	
09-08-24	6:00:00	30.4	30.2	30	89.4	88.4	87.9	0	1003.9	249.5	7.5621	3.5179	1.4681	0	
09-08-24	7:00:00	30.4	30.2	30	89.6	89.1	88.2	0.3	1004.4	244.7	7.202	3.047	1.2742	0	
09-08-24	8:00:00	30.9	30.5	30	89.2	87.6	86	20.4	1005.2	259.2	8.6701	4.0719	1.4681	0	
09-08-24	9:00:00	31.2	30.9	30.5	86.2	84.7	84	43.1	1006.1	270.9	8.1161	3.9611	1.2742	0	
09-08-24	10:00:00	32.4	31.3	30.8	84.8	83.5	79.5	121.9	1007.1	275	9.2241	3.7949	1.662	0	
09-08-24	11:00:00	33.8	33.1	32.1	80.7	74.8	72.2	423.4	1008.6	284.4	10.3321	4.432	1.4681	0	
09-08-24	12:00:00	34.1	33.5	33.1	76	73.6	71.4	335	1008.2	280.7	9.7781	3.7949	1.8282	0	
09-08-24	13:00:00	34.1	33.4	32.7	75.7	73.2	69.7	343.3	1007.8	274.6	10.6922	4.0719	2.0221	0	
09-08-24	14:00:00	34.4	33.9	33.5	74.3	71.8	69.4	316.9	1007.4	259.2	9.7781	3.6841	1.2742	0	
09-08-24	15:00:00	33.9	33.3	32.9	75.6	74	71.3	181.8	1006.5	251.2	10.8861	4.155	2.0221	0	
09-08-24	16:00:00	33.5	32.8	32.3	78.3	76.1	73	136.4	1005.8	252.3	12.188	4.8475	2.5761	0	
09-08-24	17:00:00	32.9	32.5	32.2	78.2	77.1	76	113.6	1005.1	246.1	12.5481	5.3184	2.9362	0	
09-08-24	18:00:00	32.7	32.2	31.8	79.3	77.6	76.2	81.3	1005.1	252.5	12.742	5.4015	3.324	0	
09-08-24	19:00:00	32.3	31.5	31	82.6	80.3	78.5	16.7	1005.1	267.2	12.742	4.8475	3.1301	0	
09-08-24	20:00:00	31.4	31	30.8	84.2	83.3	82.2	0	1005.8	268.1	13.1021	4.5151	3.1301	0	
09-08-24	21:00:00	31.2	30.9	30.7	84.6	83.8	83.2	0	1006.2	274.1	13.1021	4.4597	2.5761	0	
09-08-24	22:00:00	31.1	30.9	30.6	85.3	84.7	84.1	0	1006.6	263.2	11.634	4.3766	2.3822	0	
09-08-24	23:00:00	31	30.7	30.4	85.6	85.1	84.6	0	1006.8	254.4	12.9082	4.5151	1.8282	0	
10-08-24	0:00:00	30.9	30.6	30.4	86.1	85.5	84.8	0	1006.2	248.9	11.2462	4.7644	2.3822	0	
10-08-24	1:00:00	30.8	30.5	30.3	85.4	84.6	83.4	0	1006	254.1	9.972	4.5151	1.8282	0	

Hazira Station															
DATE	TIME	AT_Max	AT_Avg	AT_Min	RH_Max	RH_Avg	RH_Min	SOLAR	BP	WD	WS_Max	WS_Avg	WS_Min	RAIN	
DD/MM/YY	HH:MM:SS	DegC	DegC	DegC	%	%	%	W/m2	mbar	Deg	m/s	m/s	m/s	mm	
10-08-24	2:00:00	30.7	30.5	30.3	85.5	84.4	83.8	0	1005.5	270.3	8.1161	3.7118	1.4681	0	
10-08-24	3:00:00	30.6	29.6	28.8	92.2	89	84.7	0	1004.6	265.4	9.0302	3.4625	1.2742	0	
10-08-24	4:00:00	29.8	29.4	29	92.6	91.9	90.8	0	1004.4	267.2	9.2241	3.5733	1.2742	0	
10-08-24	5:00:00	30.1	29.7	29.4	91.4	90.5	89.4	0	1004.5	265.9	8.1161	3.3517	1.4681	0	
10-08-24	6:00:00	30.3	29.9	29.5	90	88.8	87.2	0	1004.8	257.3	8.4762	3.6564	1.2742	0	
10-08-24	7:00:00	30.4	29.6	28.4	92.3	89.8	87.4	0	1004.9	256.1	7.9222	3.0193	1.108	2	
10-08-24	8:00:00	31	28.6	28	94	93.1	91	15.1	1005.2	247.6	9.0302	3.4625	1.108	0	
10-08-24	9:00:00	31	30.2	29.2	93.8	90.9	86.9	62.8	1006.4	270.3	7.3682	3.0747	0.554	0	
10-08-24	10:00:00	31.8	31.1	30.4	87.7	85.8	83.1	95.2	1007.1	273.1	7.9222	3.047	1.2742	0	
10-08-24	11:00:00	32.5	31.6	31.2	84.6	82.8	79.4	143.9	1007.5	279.4	9.5842	3.4625	1.4681	0	
10-08-24	12:00:00	33.2	32.5	30.7	86	78.7	75.2	250.4	1007.7	277.4	11.9941	3.9888	1.662	0	
10-08-24	13:00:00	32.3	30.4	29.2	91	87.1	78.5	148.9	1006.2	283.5	13.85	5.263	1.8282	1	
10-08-24	14:00:00	30.6	30.1	29.4	89.2	85.9	83.5	169.8	1005.9	289.9	13.296	5.6508	0.9141	0	
10-08-24	15:00:00	31.4	30.7	30	85.6	80.4	76.2	157.5	1005.2	265.4	10.8861	4.6536	1.8282	0	
10-08-24	16:00:00	31.8	30.9	30.1	88.5	86	79.8	115.4	1004.6	236.8	11.634	4.1827	1.4681	0	
10-08-24	17:00:00	32.2	31.8	31.3	79.9	77.3	75.7	102.2	1004.5	235.8	12.188	5.3184	2.0221	0	
10-08-24	18:00:00	32.2	31.5	31	82.6	79.8	76.9	63.5	1004.1	240.7	14.958	6.3156	2.77	0	
10-08-24	19:00:00	31.4	31	30.6	85.3	83.5	81.7	11.4	1003.7	248.6	14.0162	6.0109	2.9362	0	
10-08-24	20:00:00	31	30.7	30.4	87.1	85.6	84.7	0	1004.3	250.7	13.85	5.6231	2.216	0	
10-08-24	21:00:00	31	30.7	30.4	86	84.9	84.2	0	1005	254.3	12.742	5.263	2.216	0	
10-08-24	22:00:00	30.9	30.6	30.4	86.3	85.5	84.7	0	1005.2	266.4	11.9941	4.8198	2.0221	0	
10-08-24	23:00:00	30.9	30.5	30.3	86.6	86	85.3	0	1005.7	269.4	10.526	4.1827	2.216	0	
11-08-24	0:00:00	30.7	30.4	30.2	86.2	85.3	84.3	0	1005.9	249.4	13.6561	4.6259	2.0221	0	
11-08-24	1:00:00	30.6	30.4	30.1	85.4	84.8	84.2	0	1005	256.1	9.2241	4.6259	1.662	0	
11-08-24	2:00:00	30.6	30.3	30.1	85.7	84.6	84	0	1004.3	255.8	10.1382	4.7644	2.0221	0	
11-08-24	3:00:00	30.4	30.2	30	86.4	85.5	84.7	0	1003.4	246.3	11.2462	4.5982	1.8282	0	

Hazira Station															
DATE	TIME	AT_Max	AT_Avg	AT_Min	RH_Max	RH_Avg	RH_Min	SOLAR	BP	WD	WS_Max	WS_Avg	WS_Min	RAIN	
DD/MM/YY	HH:MM:SS	DegC	DegC	DegC	%	%	%	W/m2	mbar	Deg	m/s	m/s	m/s	mm	
11-08-24	4:00:00	32	30.2	30	86.7	85.6	84.6	0	1003.3	254	10.3321	4.3489	1.8282	0	
11-08-24	5:00:00	30.4	30.2	30.1	86.2	85.5	84.9	0	1003.2	251	10.3321	4.2658	2.0221	0	
11-08-24	6:00:00	30.6	30.2	30	86.3	85.8	85.2	0	1003.3	248.6	10.8861	4.5151	1.662	0	
11-08-24	7:00:00	30.7	30.3	30	86.3	85.6	84.9	0	1003.7	251.9	11.634	5.2076	2.3822	0	
11-08-24	8:00:00	30.8	30.4	30.2	86	84.9	83.7	11.5	1004	252.6	10.8861	4.7921	2.216	0	
11-08-24	9:00:00	31.2	30.7	30.3	85.4	84.1	81.8	47.4	1004.9	264.3	11.634	4.3212	1.8282	0	
11-08-24	10:00:00	32.5	31.5	30.6	83.1	80.3	74.1	148.7	1005.8	256.3	11.8002	4.6813	2.3822	0	
11-08-24	11:00:00	32.1	30.9	29.5	85.9	80.9	77.4	226.2	1005.9	256.1	11.9941	5.1245	2.3822	0	
11-08-24	12:00:00	33.5	32.4	30.4	86.1	76.3	71.6	261.6	1006.1	257.6	11.4401	4.5151	2.3822	0	
11-08-24	13:00:00	30.8	29.2	27.7	93.5	90.1	81.3	114.7	1008.5	257.5	15.1242	4.0996	1.662	3	
11-08-24	14:00:00	31.2	30.2	29.6	90.9	85.2	78.1	172.2	1010.5	270.1	12.9082	3.878	1.8282	0	
11-08-24	15:00:00	32.6	32	30.9	78.9	76.1	73.4	238.1	1003.8	257.1	12.188	4.4043	2.5761	0	
11-08-24	16:00:00	32.1	31.6	31.1	83.8	77.8	73.9	206.6	1003.3	265	14.958	4.986	2.5761	0	
11-08-24	17:00:00	32.2	31.6	30.8	82.6	80.6	76.5	138.7	1002.6	258.9	13.4622	5.2076	3.1301	0	
11-08-24	18:00:00	32.4	31.7	31.2	81.1	79.6	77.8	72.5	1002.4	259.1	12.5481	4.9029	2.5761	0	
11-08-24	19:00:00	31.7	31.2	30.7	83.6	82.2	80.2	11.7	1002.3	269.7	13.6561	4.5705	2.0221	0	
11-08-24	20:00:00	31	30.8	30.5	84.9	83.5	82.6	0	1002.4	281.8	13.1021	4.5705	2.77	0	
11-08-24	21:00:00	31	30.6	30.4	84.7	81.8	77.6	0	1002.9	294.9	11.634	4.0996	1.8282	0	
11-08-24	22:00:00	30.8	30.6	30.4	86.1	83.9	82.3	0	1003	288	10.8861	3.2686	1.4681	0	
11-08-24	23:00:00	30.8	30.6	30.4	85.5	83.8	82.8	0	1003.3	282.8	9.7781	3.6287	2.0221	0	
12-08-24	0:00:00	30.8	30.6	30.3	85.5	84.2	83.1	0	1003.3	260.8	8.864	3.6287	1.662	0	
12-08-24	1:00:00	30.8	30.4	30.2	86.4	85.7	84.9	0	1003	268.5	9.0302	3.1855	1.4681	0	
12-08-24	2:00:00	30.7	30.4	30.2	86.9	86.3	85.7	0	1002.7	280	8.4762	2.9362	1.4681	0	
12-08-24	3:00:00	30.6	30.4	30.2	87.6	87	86.2	0	1002.3	287.9	9.5842	3.047	1.662	0	
12-08-24	4:00:00	30.5	30.2	29.9	89.1	87.6	86.9	0	1002.2	275.8	9.5842	3.4902	2.216	0	
12-08-24	5:00:00	30.2	29.9	29.2	89.4	88.6	88	0	1002.2	292.3	10.526	3.1024	1.8282	0	

Hazira Station															
DATE	TIME	AT_Max	AT_Avg	AT_Min	RH_Max	RH_Avg	RH_Min	SOLAR	BP	WD	WS_Max	WS_Avg	WS_Min	RAIN	
DD/MM/YY	HH:MM:SS	DegC	DegC	DegC	%	%	%	W/m2	mbar	Deg	m/s	m/s	m/s	mm	
12-08-24	6:00:00	29.4	28.9	28.3	94.3	91.7	88.7	0	1002	262.8	11.2462	1.8559	0	0	
12-08-24	7:00:00	30	29.5	29.1	94.3	92.2	90	0	1002.8	283.7	10.1382	3.878	1.662	0	
12-08-24	8:00:00	30.1	29.7	29	91.1	90.1	89	5.7	1003.2	272.6	11.4401	4.5982	2.216	0	
12-08-24	9:00:00	29.4	28.4	27.9	94.9	92.4	88.9	25.7	1003.7	264.7	13.4622	5.7893	2.77	2.5	
12-08-24	10:00:00	28.5	28.1	27.8	96.2	95.3	94.2	52.9	1004.6	275	10.526	4.2381	1.4681	1	
12-08-24	11:00:00	29.2	28.3	27.6	97.8	96.6	95.5	45.6	1004.7	271.8	14.2101	3.9057	1.108	2	
12-08-24	12:00:00	29.5	28.3	27.7	99.1	97.4	94.8	20.9	1005.2	271.3	14.7641	4.8198	1.4681	15.5	
12-08-24	13:00:00	29.9	29	28.2	97.6	95.4	92.7	21.4	1008.6	274.6	9.5842	3.5733	1.2742	0	
12-08-24	14:00:00	31.2	30.3	29.6	92.8	89.9	85.1	82.4	1008.3	272.5	11.2462	3.6287	1.662	0	
12-08-24	15:00:00	31.6	31.2	30.8	85.7	83.5	82.2	108	1004	239.1	11.4401	5.0691	2.3822	0	
12-08-24	16:00:00	31.4	31.1	30.7	86.1	84.7	83.9	69.4	1003.2	273.8	11.9941	4.155	2.3822	0	
12-08-24	17:00:00	32.1	30.9	30.5	87	85.2	83.6	59.6	1002.9	281.9	11.9941	4.0442	2.5761	0	
12-08-24	18:00:00	31	30.8	30.6	85	84.4	83.8	16.3	1002.7	281.6	10.6922	3.324	1.4681	0	
12-08-24	19:00:00	31	30.6	30.3	86.7	85.8	84.2	1.7	1002.9	284.2	9.5842	2.7146	1.8282	0	
12-08-24	20:00:00	30.7	30.4	30.1	86.7	86.1	85.6	0	1003.3	290.8	9.5842	2.3268	1.662	0	
12-08-24	21:00:00	31.5	30.4	30.2	87.9	87.2	86.5	0	1003.6	303.7	9.7781	2.77	2.0221	0	
12-08-24	22:00:00	30.6	30.3	30	87.2	85.9	84.8	0	1004.4	308.3	9.7781	2.9085	1.8282	0	
12-08-24	23:00:00	30.4	30.2	29.9	88.3	87.7	86.6	0	1004.5	319	8.4762	2.6315	1.2742	0	

### Ghogha Meteorological Data

Ghogha station															
DATE	TIME	AT_Max	AT_Avg	AT_Min	RH_Max	RH_Avg	RH_Min	SOLAR	BP	WD	WS_Max	WS_Avg	WS_Min	RAIN	
DD/MM/YY	HH:MM:SS	DegC	DegC	DegC	%	%	%	W/m2	mbar	Deg	m/s	m/s	m/s	mm	
13-07-24	0:00:00	28.6	28.4	28	89.8	89.3	88.8	0	998.8	224.1	3.6841	1.108	0	0	
13-07-24	1:00:00	29	28.5	28.2	89.5	85.7	81.7	0	998.2	231.7	4.5982	1.0249	0	0	
13-07-24	2:00:00	29	28.5	28.1	83	82.4	81.5	0	997.8	229.8	4.7921	1.2465	0	0	
13-07-24	3:00:00	28.7	28.5	28.2	83.6	82.9	82.4	0	997.7	227.4	5.7062	1.4404	0	0	
13-07-24	4:00:00	28.6	28.2	27.8	85	84.3	83.4	0	997.2	229.4	5.1522	1.2188	0	0	
13-07-24	5:00:00	28.4	28.1	27.6	86.7	85.1	83.5	0	996.8	235.3	4.432	0.831	0	0	
13-07-24	6:00:00	28.4	28	27.6	87.4	86.1	85.3	0	997.5	222.7	2.5761	0.3601	0	0	
13-07-24	7:00:00	28.4	27.9	27.5	87.7	87.2	86.4	4.1	997.9	218.1	2.0221	0.1385	0	0	
13-07-24	8:00:00	29.3	28.6	28	86.7	85.3	83.6	20.9	998.5	205.8	2.0221	0.1662	0	0	
13-07-24	9:00:00	30.6	29.4	28.8	83.9	82.7	79.8	50.2	999.4	191	2.0221	0.3601	0	0	
13-07-24	10:00:00	33.8	32.4	30.2	80.1	71.3	64.4	204	1000.1	222.4	5.1522	0.831	0	0	
13-07-24	11:00:00	34.6	33.9	33.1	68.7	64.8	61.7	191.8	1000.1	251.9	4.986	0.8033	0	0	
13-07-24	12:00:00	35.5	34.5	33.9	64.4	61.7	58.7	185.5	999.9	316.4	5.54	0.9972	0	0	
13-07-24	13:00:00	36.2	34.9	33.2	70.8	61.1	55.7	215.3	999.6	349.7	5.7062	0.9695	0	0	
13-07-24	14:00:00	34.1	33.2	32.6	74.4	72	69.1	218.4	998.7	87.2	7.0081	2.216	0	0	
13-07-24	15:00:00	33.3	32.9	32.4	75.7	72.6	70.6	157.3	998.1	129.5	7.756	1.8836	0.3601	0	
13-07-24	16:00:00	33.1	32.4	31.4	78.3	75.1	72.1	159.8	997.3	163.1	8.6701	2.3268	0.3601	0	
13-07-24	17:00:00	33.2	32.2	31.5	78.2	75.8	72.9	136.4	995.6	174.3	9.0302	2.3822	0.9141	0	
13-07-24	18:00:00	34.4	33	32.2	76.3	73.9	70.6	70.1	995.4	185.3	8.1161	1.5789	0	0	
13-07-24	19:00:00	33	32.5	32.2	76.3	74.8	73.7	2.1	995.7	205.3	7.3682	1.385	0	0	
13-07-24	20:00:00	33.6	33.1	32.4	73.8	65.4	63.5	0	996.1	241.3	5.7062	1.1911	0	0	
13-07-24	21:00:00	33.3	32.6	31.9	66.8	65.3	64.3	0	997.5	242.5	6.094	1.5512	0.1662	0	
13-07-24	22:00:00	32.4	31.7	31	70.4	68.7	66.4	0	997.8	241.2	6.2602	1.5789	0.1662	0	
13-07-24	23:00:00	31.4	30.9	30.2	73.8	71.9	70	0	998.2	240.4	7.202	1.8282	0	0	

Ghogha station															
DATE	TIME	AT_Max	AT_Avg	AT_Min	RH_Max	RH_Avg	RH_Min	SOLAR	BP	WD	WS_Max	WS_Avg	WS_Min	RAIN	
DD/MM/YY	HH:MM:SS	DegC	DegC	DegC	%	%	%	W/m2	mbar	Deg	m/s	m/s	m/s	mm	
14-07-24	0:00:00	30.8	30.3	29.8	77	75.1	73.2	0	998.2	239.5	4.986	1.6343	0	0	
14-07-24	1:00:00	30.2	29.8	29.3	79.3	78.1	76.6	0	998	237.6	4.2381	1.2188	0	0	
14-07-24	2:00:00	29.8	29.4	28.9	82.4	80.8	79.1	0	997.8	239.7	3.324	0.831	0	0	
14-07-24	3:00:00	29.4	29	28.6	84.4	83.4	82.2	0	997.5	234.9	2.77	0.554	0	0	
14-07-24	4:00:00	29.1	28.8	28.4	85.9	84.9	84	0	997.3	237.1	2.0221	0.3047	0	0	
14-07-24	5:00:00	28.8	28.4	28	88.3	87.3	85.7	0	996.2	234.1	3.324	0.6925	0	0	
14-07-24	6:00:00	29	28.7	28.2	87.7	86.5	86.1	0	997	237.2	3.6841	0.831	0	0	
14-07-24	7:00:00	29.5	28.8	28.4	86.8	86.3	85.2	7	997.7	232.7	1.662	0.1385	0	0	
14-07-24	8:00:00	31.8	30.4	29	85.6	80.7	75.1	56.6	998.5	234	2.3822	0.3878	0	0	
14-07-24	9:00:00	33.2	32.1	31.3	75.5	72.9	69.6	110.6	999.2	252.5	4.432	0.6925	0	0	
14-07-24	10:00:00	34.9	33.5	31.9	72.4	66.4	61.4	190.6	999.4	317.4	7.202	1.1911	0	0	
14-07-24	11:00:00	35.2	34.1	32.9	67.7	62.7	58.5	250.9	999.2	328	7.756	1.8836	0	0	
14-07-24	12:00:00	36.8	35.2	34.1	61.9	57.9	51.7	276.7	999.2	329.5	5.3461	1.662	0	0	
14-07-24	13:00:00	38.1	36.3	35.1	57.3	54.4	51.1	274.6	998.8	339.6	5.7062	1.1634	0	0	
14-07-24	14:00:00	37.2	34.8	33.4	68.5	64.4	55	311.7	997.9	94.3	7.756	1.5235	0.1662	0	
14-07-24	15:00:00	35.8	35	34.1	66.8	63.1	58.5	352.9	997.4	107.4	7.756	1.3573	0.1662	0	
14-07-24	16:00:00	35.7	34.9	34.2	67.2	63.9	59.6	310.9	995.9	186.6	9.2241	1.7174	0.9141	0	
14-07-24	17:00:00	34.9	33.8	32.6	69.8	67.1	63.7	160.3	994.8	189.8	8.1161	2.3822	0.554	0	
14-07-24	18:00:00	33	31.7	30.5	84	76.8	67.4	30	993.9	187.2	7.3682	2.3822	0.554	0.5	
14-07-24	19:00:00	32	31.6	31.1	81	78.5	76.4	9.8	994.5	191.6	6.094	1.8836	0.3601	0	
14-07-24	20:00:00	32	31.6	31	80.6	78.5	76.5	0	994.9	188.5	6.648	2.1052	0.3601	0	
14-07-24	21:00:00	31.9	31.4	31	80.9	77.9	74	0	995.6	204.6	4.5982	1.2742	0	0	
14-07-24	22:00:00	31.7	31.3	31	78.4	75.9	72.7	0	995.8	222.9	5.1522	1.385	0	0	
14-07-24	23:00:00	31.8	31.4	31	77	73.5	70.2	0	997.5	237.9	5.7062	1.5512	0	0	
15-07-24	0:00:00	31.8	31.3	30.8	73.6	72	70.2	0	997.4	243.9	4.986	1.2465	0	0	
15-07-24	1:00:00	31.2	30.7	30.2	76.4	74.9	73.2	0	997.2	245.1	5.1522	1.1634	0	0	

Ghogha station															
DATE	TIME	AT_Max	AT_Avg	AT_Min	RH_Max	RH_Avg	RH_Min	SOLAR	BP	WD	WS_Max	WS_Avg	WS_Min	RAIN	
DD/MM/YY	HH:MM:SS	DegC	DegC	DegC	%	%	%	W/m2	mbar	Deg	m/s	m/s	m/s	mm	
15-07-24	2:00:00	30.7	30.3	30	78.5	77.5	76.1	0	996.1	249	4.986	0.9972	0	0	
15-07-24	3:00:00	30.4	30.1	29.7	80	79	77.9	0	995.8	239.6	3.1301	0.554	0	0	
15-07-24	4:00:00	30.2	29.9	29.6	81	80.3	79.6	0	996.4	232.9	3.1301	0.4432	0	0	
15-07-24	5:00:00	30	29.5	29.2	83.3	82.7	81	0	995.6	236.7	2.3822	0.3324	0	0	
15-07-24	6:00:00	29.8	29.5	29.2	84	83.1	82.6	0	996.2	231.1	1.8282	0.1385	0	0	
15-07-24	7:00:00	29.7	29.4	29.1	85.2	84.6	83.7	0	997.4	232.7	2.3822	0.3878	0	0	
15-07-24	8:00:00	29.8	29.5	29.2	86.1	84.7	84.2	0	997.8	232.3	2.216	0.1662	0	0	
15-07-24	9:00:00	29.6	29.2	28.9	88.8	87.6	85.8	1.7	998.3	236.6	2.9362	0.277	0	0.5	
15-07-24	10:00:00	29.8	29.5	29.1	89.7	89.2	88.6	16	998.6	207.1	0.7202	0	0	0.5	
15-07-24	11:00:00	29.8	29.4	29.1	91	90.1	89.2	26.3	998.8	215.8	1.2742	0.0277	0	0.5	
15-07-24	12:00:00	30	29.6	29.2	91	90.6	90	32.5	998.6	222.7	0.9141	0	0	0.5	
15-07-24	13:00:00	33.2	30.8	29.6	90.3	85.9	72.8	193.7	998.5	242.2	2.5761	0.2493	0	0	
15-07-24	14:00:00	35.2	34.3	33	73	66.9	63.3	244.8	998.7	322.3	2.5761	0.1939	0	0	
15-07-24	15:00:00	36.5	34.9	32.8	73.4	64.1	55.6	234.6	998	89.3	4.0442	0.4986	0	0	
15-07-24	16:00:00	33.6	32.8	32	75.7	73.3	70.4	162.6	997	97.8	4.986	1.4127	0	0	
15-07-24	17:00:00	33.3	32.7	32.1	75.3	73.4	71.9	113	996.1	105.2	4.2381	1.1634	0	0	
15-07-24	18:00:00	33.6	31.7	30.4	76.8	73.9	69.6	38.5	996.5	347.8	7.3682	1.1357	0	0	
15-07-24	19:00:00	31.2	30.7	30.2	78.9	77.4	76.2	11.4	996.2	332.1	6.4541	0.7479	0	0	
15-07-24	20:00:00	31	30.3	29.4	83.9	80.4	77	0	996.9	345.8	7.9222	1.0249	0	0	
15-07-24	21:00:00	30.1	29.8	29.4	83.3	82.5	82.1	0	997.7	349.9	2.77	0.2493	0	0	
15-07-24	22:00:00	30.1	29.5	29.1	84.6	83.1	82.3	0	997.8	226.6	1.2742	0	0	0	
15-07-24	23:00:00	29.7	29.1	28.4	86.6	85.8	84.3	0	998	241.2	4.0442	0.8864	0	0	
16-07-24	0:00:00	28.8	28.2	27.8	87	86	85	0	997.7	239.6	3.1301	0.5263	0	0	
16-07-24	1:00:00	28.3	27.9	27.5	87.1	86.7	86.4	0	996.6	269.8	4.2381	0.3047	0	0	
16-07-24	2:00:00	27.8	27.6	27.3	87.6	87.2	86.7	0	995.2	278.3	2.3822	0.2216	0	0	
16-07-24	3:00:00	28.1	27.7	27.3	87.4	87	86.6	0	995.2	327.3	2.216	0.2493	0	0	

Ghogha station															
DATE	TIME	AT_Max	AT_Avg	AT_Min	RH_Max	RH_Avg	RH_Min	SOLAR	BP	WD	WS_Max	WS_Avg	WS_Min	RAIN	
DD/MM/YY	HH:MM:SS	DegC	DegC	DegC	%	%	%	W/m2	mbar	Deg	m/s	m/s	m/s	mm	
16-07-24	4:00:00	27.8	27.5	27.1	89.3	88.6	87	0	995	227.7	1.2742	0	0	0	
16-07-24	5:00:00	27.8	27.5	27.1	89.7	89.3	88.9	0	995.3	0	0	0	0	0	
16-07-24	6:00:00	28.2	27.8	27.4	89.7	88.6	87.8	0	995.9	311.8	0.9141	0	0	0	
16-07-24	7:00:00	28.4	28.1	27.7	88.1	87.6	87.3	0	997	312	2.0221	0.0277	0	0	
16-07-24	8:00:00	29.5	28.6	28	88.1	87	84	22.9	997.7	208.8	1.2742	0.0277	0	0	
16-07-24	9:00:00	30.8	30	29.2	84.5	81.2	78.5	65.5	997.9	321.3	2.0221	0.2216	0	0	
16-07-24	10:00:00	31.8	31.1	30.2	79.1	76.8	74.8	85.1	998.9	340.8	3.878	0.8587	0	0	
16-07-24	11:00:00	33.5	32.3	31.4	75.5	71.1	67	154.5	998.8	345.4	3.324	0.6925	0	0	
16-07-24	12:00:00	34.8	34	33.1	68.3	65.1	63	242.2	999.3	16.2	3.878	0.4986	0	0	
16-07-24	13:00:00	35.1	34.5	33.8	65.8	63.1	60.5	368.8	998.9	81.3	3.6841	0.9141	0	0	
16-07-24	14:00:00	36	34.8	33.5	67.5	62.1	57.9	388.2	998.1	87	5.54	1.5235	0	0	
16-07-24	15:00:00	35.4	34.3	33.3	68.1	65	60.3	373.1	997.4	108.1	7.3682	1.5789	0.1662	0	
16-07-24	16:00:00	35.5	35	34.5	63.9	62.1	59.3	327.4	996.4	170.8	7.3682	1.0803	0.3601	0	
16-07-24	17:00:00	35	34.1	33.3	67.2	64.3	61.3	245.6	995.5	193.1	9.2241	2.4099	0.9141	0	
16-07-24	18:00:00	33.6	32.2	31.6	73	71.2	66.3	76.5	994.9	192.7	11.4401	3.4902	1.2742	0	
16-07-24	19:00:00	32	31.3	30.6	76.6	74.2	72.3	20.3	994.9	195.3	11.4401	3.7672	1.4681	0	
16-07-24	20:00:00	31	30.6	30.1	77.9	76.8	76.2	0	995.4	207.9	9.5842	2.7423	0.7202	0	
16-07-24	21:00:00	30.6	30.2	29.6	78.4	77.4	76.8	0	995.6	203.6	9.972	2.5761	0.3601	0	
16-07-24	22:00:00	30.2	29.8	29.4	80.2	79.1	78.1	0	995.9	215	5.54	1.2465	0	0	
16-07-24	23:00:00	29.8	29.4	28.9	80.1	79.2	78.5	0	997	215.4	4.432	1.0803	0	0	
17-07-24	0:00:00	29.4	28.7	28	80.3	79.5	78.4	0	996.7	214	7.202	1.8005	0.1662	0	
17-07-24	1:00:00	28.4	28.1	27.8	80.4	79.7	78.7	0	996.7	204.2	6.648	2.0498	0.7202	0	
17-07-24	2:00:00	28.4	28.1	27.8	80.1	79.4	78.8	0	995.6	215.9	6.094	1.6066	0	0	
17-07-24	3:00:00	28.4	28.2	27.8	81.6	80.3	79.7	0	995.4	203.9	2.9362	0.4986	0	0	
17-07-24	4:00:00	28.4	28.1	27.8	83.2	82.1	81.3	0	994.9	213.2	2.5761	0.3878	0	0	
17-07-24	5:00:00	28.9	28.3	27.8	83.6	82.9	81.8	0	994.7	210.9	3.878	0.8033	0	0	

Ghogha station															
DATE	TIME	AT_Max	AT_Avg	AT_Min	RH_Max	RH_Avg	RH_Min	SOLAR	BP	WD	WS_Max	WS_Avg	WS_Min	RAIN	
DD/MM/YY	HH:MM:SS	DegC	DegC	DegC	%	%	%	W/m2	mbar	Deg	m/s	m/s	m/s	mm	
17-07-24	6:00:00	29.4	29	28.4	82.1	80.3	79.3	0	995.2	207.4	6.4541	1.385	0	0	
17-07-24	7:00:00	30	29.4	28.9	80.2	79.3	78.2	2.8	996.8	213.5	4.5982	1.1634	0	0	
17-07-24	8:00:00	30.4	29.9	29.3	79.5	78.4	77.5	24.6	998	208.9	6.648	1.5235	0	0	
17-07-24	9:00:00	32.9	31.5	30.1	78.4	72.3	65.9	141.8	998.9	196.7	10.1382	2.4376	0	0	
17-07-24	10:00:00	33	32.3	31.6	70.2	67.7	65.7	143.9	998.8	195.7	10.526	3.1578	1.108	0	
17-07-24	11:00:00	33	32.5	32	69.6	67.8	65.5	169.5	998.9	203.7	8.864	2.6315	0.3601	0	
17-07-24	12:00:00	34.2	33	31.7	72.5	67.5	60.9	207.8	999.2	187.7	10.1382	3.0747	0.3601	0	
17-07-24	13:00:00	34.6	33.8	32.4	70.5	66.4	63.4	387.3	999.1	181.8	12.188	3.0747	1.2742	0	
17-07-24	14:00:00	34.7	34	33	68.1	63	58.7	393.1	998.6	184.6	11.08	3.878	1.2742	0	
17-07-24	15:00:00	35	34.3	33.6	64.2	61.6	59.6	353.9	998.4	181.3	11.08	3.4625	1.2742	0	
17-07-24	16:00:00	34.7	34.1	33.4	65.2	62.5	59.1	313.9	997.6	186	11.08	3.1578	1.4681	0	
17-07-24	17:00:00	34.8	33.9	33	67.7	64.6	60	210.9	996.6	182.3	9.972	2.8531	1.108	0	
17-07-24	18:00:00	33.8	33.2	32.5	68.4	66.3	64.1	144.9	996.3	190.4	9.2241	2.6315	1.108	0	
17-07-24	19:00:00	33.2	32.4	31.4	71.9	68.4	65.5	53.2	996.6	194.3	9.5842	2.493	0.7202	0	
17-07-24	20:00:00	31.8	31.3	30.7	71.3	70.1	68.7	0.2	996.6	196	8.4762	2.216	0.7202	0	
17-07-24	21:00:00	31.2	30.7	30.4	73.8	71.5	70.2	0	997.7	198.7	7.202	1.8559	0	0	
17-07-24	22:00:00	30.8	30.4	30	77	75.9	73.5	0	998	204.2	6.4541	1.8282	0.3601	0	
17-07-24	23:00:00	30.6	30.3	30	76.8	76.3	75.9	0	998.3	209.4	7.202	1.9113	0.554	0	
18-07-24	0:00:00	30.6	30.2	29.7	76.7	75.8	75.1	0	998.3	217.9	7.5621	1.939	0.3601	0	
18-07-24	1:00:00	30.1	29.8	29.4	78	77.3	76.3	0	997.9	215.6	5.3461	1.3019	0	0	
18-07-24	2:00:00	30	29.5	29	80.4	79.1	77.4	0	997.6	218.7	4.2381	1.0249	0	0	
18-07-24	3:00:00	29.5	29.3	29	81.6	80.9	80.2	0	997.1	209.4	4.432	0.9141	0	0	
18-07-24	4:00:00	29.5	29.2	28.9	82.1	81.6	81.2	0	996.2	221.6	4.2381	1.1634	0	0	
18-07-24	5:00:00	29.4	29.1	28.8	82.5	82	81.6	0	995.5	213.9	4.0442	0.9141	0	0	
18-07-24	6:00:00	29.4	29	28.6	83.2	82.6	82.1	0	995.8	196.5	2.5761	0.3324	0	0	
18-07-24	7:00:00	30.1	29.1	28.6	83.4	82.5	80.1	7.4	996.8	224.3	1.8282	0.0831	0	0	

Ghogha station															
DATE	TIME	AT_Max	AT_Avg	AT_Min	RH_Max	RH_Avg	RH_Min	SOLAR	BP	WD	WS_Max	WS_Avg	WS_Min	RAIN	
DD/MM/YY	HH:MM:SS	DegC	DegC	DegC	%	%	%	W/m2	mbar	Deg	m/s	m/s	m/s	mm	
18-07-24	8:00:00	32.1	31.1	29.8	80.2	74.2	70.8	62.2	998.2	216.4	5.3461	1.0803	0	0	
18-07-24	9:00:00	31.8	31.5	30.4	76.2	72.9	72.5	90.9	998.8	238.2	4.0442	0.6094	0	0	
18-07-24	10:00:00	34.5	32.9	31.4	73.4	66.6	60.2	132.9	998.9	190.6	2.5761	0.2493	0	0	
18-07-24	11:00:00	34.4	31.6	30.2	80.8	74.3	61.9	69.2	998.3	103.5	6.648	1.5512	0	0	
18-07-24	12:00:00	33.6	32.9	31	79.6	70.5	67.7	279.2	998.5	118.6	6.8142	1.7728	0.3601	0	
18-07-24	13:00:00	34.9	33.6	32.5	70.7	67.9	62.4	275.7	998.1	142.9	8.6701	1.4958	0	0	
18-07-24	14:00:00	34.5	33.4	32.6	72.3	69.7	66.8	335.6	997.5	112.7	9.418	2.8254	0.9141	0	
18-07-24	15:00:00	33.8	33.1	32.2	74.6	70.8	68	271.7	996.6	141.8	9.7781	2.216	0.7202	0	
18-07-24	16:00:00	33.9	33.1	32.2	73.6	70	65.5	258.2	995.7	157.5	8.6701	2.2991	0.554	0	
18-07-24	17:00:00	34.4	33.6	32.7	69.8	66.8	63.5	245.1	994.8	169.7	8.864	2.3545	0.3601	0	
18-07-24	18:00:00	34.6	33.9	33.1	68.5	65.8	63.2	190.5	994.7	165	7.5621	1.9113	0	0	
18-07-24	19:00:00	33.6	32.1	31.1	75.5	70.8	68.1	20.5	994.2	200.4	8.31	2.1606	0.7202	0	
18-07-24	20:00:00	31.5	30.8	30.2	77.4	76.1	75.1	0	994.6	210.9	7.3682	1.8836	0.1662	0	
18-07-24	21:00:00	30.6	30	29.4	79.9	78.6	77.1	0	995.3	202.3	7.0081	1.939	0.3601	0	
18-07-24	22:00:00	29.8	29.5	28.9	80.1	79.2	78.4	0	995.7	214.5	7.0081	1.7451	0	0	
18-07-24	23:00:00	29.4	29.2	28.8	81.7	81	79.8	0	996.6	224.9	4.7921	1.2742	0.1662	0	
19-07-24	0:00:00	29.7	29.4	29	81.7	80.5	79.3	0	996.2	226.5	3.6841	0.831	0	0	
19-07-24	1:00:00	29.5	29.2	28.8	80.4	77.7	75.3	0	995.4	215.7	6.2602	1.2742	0	0	
19-07-24	2:00:00	29.3	28.7	28.1	81.6	80.5	77	0	994.5	206.4	7.202	1.7728	0.3601	0	
19-07-24	3:00:00	28.7	28.5	28.1	81	80.2	79.5	0	993.8	227.4	5.3461	1.4127	0	0	
19-07-24	4:00:00	28.6	28.2	27.8	83.4	82	80.8	0	993.3	228.1	5.1522	1.1911	0.1662	0	
19-07-24	5:00:00	28.4	27.9	27.6	85.5	84.5	83.1	0	993.2	219.2	4.5982	1.108	0	0	
19-07-24	6:00:00	28.2	27.9	27.5	86.2	85.8	85.2	0	993.3	213.2	4.7921	1.108	0	0	
19-07-24	7:00:00	28.8	28.2	27.6	86.3	85.3	83.7	2.7	994.2	211.6	3.324	0.5817	0	0	
19-07-24	8:00:00	29.6	28.8	28.3	86.3	84.6	83.5	19.8	994.9	216.5	4.5982	0.7202	0	0	
19-07-24	9:00:00	31.8	30.4	29.2	83.8	78.2	71.7	101.1	995.7	224.8	4.7921	1.0526	0	0	

Ghogha station															
DATE	TIME	AT_Max	AT_Avg	AT_Min	RH_Max	RH_Avg	RH_Min	SOLAR	BP	WD	WS_Max	WS_Avg	WS_Min	RAIN	
DD/MM/YY	HH:MM:SS	DegC	DegC	DegC	%	%	%	W/m2	mbar	Deg	m/s	m/s	m/s	mm	
19-07-24	10:00:00	33	32.3	31.4	72.4	69.6	67.1	169.5	996.5	234.1	6.094	1.5512	0	0	
19-07-24	11:00:00	33.1	32.3	31.6	71.6	69.4	66.8	121.2	996	234.3	4.986	1.5789	0	0	
19-07-24	12:00:00	33.5	32.5	31.8	71.5	68.9	66	180.6	995.5	241.4	5.7062	1.5512	0	0	
19-07-24	13:00:00	36	34.6	32.8	67.4	60.9	56.1	248.2	995.7	117.1	6.4541	0.3324	0	0	
19-07-24	14:00:00	33.2	32	31.4	75.5	72.6	67.1	82.1	994.5	138.7	8.31	1.7451	0.7202	0	
19-07-24	15:00:00	33.8	32.4	31.6	74	71.9	66.6	168	993.8	181.9	7.9222	2.2714	0.554	0	
19-07-24	16:00:00	34.5	33.6	32.5	71.2	66.6	61.9	184.7	993.6	190.6	9.418	1.9667	0.554	0	
19-07-24	17:00:00	33.6	31.8	29.2	86.8	73.5	63.2	58.2	992.7	195.4	7.9222	2.2714	0.554	4	
19-07-24	18:00:00	30.1	29.2	28.6	91.3	88.4	85.6	8.8	992.4	193.1	7.0081	2.2437	0.7202	1	
19-07-24	19:00:00	29	28.3	27.9	93.2	92.2	91	0	992.9	201.1	7.0081	1.5235	0	4	
19-07-24	20:00:00	28.8	28.5	28.1	93.4	92.8	92.1	0	993.8	182.8	5.54	1.0803	0	0	
19-07-24	21:00:00	28.9	28.6	28.2	92.5	91.5	90.3	0	994.5	187.3	7.3682	2.0775	0.3601	0	
19-07-24	22:00:00	29	28.7	28.4	90.6	89.4	88.7	0	994.8	184.9	7.3682	2.4653	0.1662	0	
19-07-24	23:00:00	29.1	28.8	28.5	89.8	89.3	88.7	0	995.4	188.6	6.094	2.0221	0.3601	0	
20-07-24	0:00:00	29.1	28.8	28.5	89.2	88.6	88.1	0	995.4	195.1	5.7062	1.6897	0	0	
20-07-24	1:00:00	28.9	28.6	28.4	91.2	90	89	0	994.8	200.9	4.986	1.108	0	0	
20-07-24	2:00:00	28.8	28.5	28.1	92.3	91.8	91	0	994	201.9	4.2381	1.0526	0	0	
20-07-24	3:00:00	28.8	28.5	28.1	92.4	91.3	89.8	0	993.9	221	4.7921	1.1634	0	0	
20-07-24	4:00:00	28.8	28.6	28.2	90.1	89.2	88.1	0	993.6	222	3.878	0.4432	0	0	
20-07-24	5:00:00	28.9	28.4	27.9	90.2	88.8	87.9	0	993.5	220.5	2.0221	0.0831	0	0	
20-07-24	6:00:00	28.6	28.3	27.9	91.2	90.6	90	0	994.1	193.1	2.9362	0.2216	0	0	
20-07-24	7:00:00	28.6	28.4	28.1	91	90.8	90.4	0	995.1	208.3	3.6841	0.7479	0	0	
20-07-24	8:00:00	29.9	28.8	28.1	91.8	90.7	87.4	38.9	995.5	203.3	2.5761	0.4155	0	0	
20-07-24	9:00:00	32.4	30.8	29.5	87.6	80.8	73.6	116.4	996.9	191.4	5.3461	0.9141	0	0	
20-07-24	10:00:00	33.3	32.6	31.9	74	71.6	68.1	160	998.1	198.3	4.5982	1.2742	0	0	
20-07-24	11:00:00	33.9	33.1	32.4	73.8	70.7	67	247.9	998.1	180	9.2241	2.1052	0	0	

Ghogha station															
DATE	TIME	AT_Max	AT_Avg	AT_Min	RH_Max	RH_Avg	RH_Min	SOLAR	BP	WD	WS_Max	WS_Avg	WS_Min	RAIN	
DD/MM/YY	HH:MM:SS	DegC	DegC	DegC	%	%	%	W/m2	mbar	Deg	m/s	m/s	m/s	mm	
20-07-24	12:00:00	34.4	33.2	32.5	71.1	68.5	63.4	343.6	998.2	181.9	9.7781	2.216	0	0	
20-07-24	13:00:00	35.8	35.2	34.1	64.2	60.3	56.8	331.1	998	180.3	5.9001	1.108	0	0	
20-07-24	14:00:00	36.4	34.3	32.7	70.5	64.9	57.8	225.1	997.3	163.9	7.5621	1.6066	0	0	
20-07-24	15:00:00	35.2	34	33.1	70.4	67	62.8	237.4	996.7	180.6	7.9222	1.8836	0.7202	0	
20-07-24	16:00:00	33.9	33.1	32.4	73.2	70.5	67.7	186.2	995.4	190.5	8.31	2.1883	0.554	0	
20-07-24	17:00:00	33.2	32.4	31.6	75.9	72.4	68.8	93.4	994.8	208.9	8.6701	2.4099	0.9141	0	
20-07-24	18:00:00	32	31.4	30.8	81.2	78	74	46.2	994.5	230.2	8.31	1.2465	0	0	
20-07-24	19:00:00	32.3	31.8	31.2	77.6	72.9	70.6	23.3	995.2	216.4	7.3682	1.6897	0	0	
20-07-24	20:00:00	31.6	30.5	29.4	82.2	77.8	73.8	0	996.5	209.7	8.31	2.1052	0.9141	0	
20-07-24	21:00:00	30.1	29.8	29.5	81.7	81.1	80.5	0	996.8	214.4	6.648	1.7174	0.554	0	
20-07-24	22:00:00	30.1	29.8	29.5	81.6	80.7	80	0	996.7	215.1	6.094	1.7451	0.7202	0	
20-07-24	23:00:00	30	29.6	29.2	81.6	80.8	80.2	0	997	222.1	6.648	1.5512	0.3601	0	
21-07-24	0:00:00	29.8	29.4	29	82.7	81.4	80.3	0	997.3	217.3	7.202	1.5235	0.3601	0	
21-07-24	1:00:00	29.5	29.2	28.8	83.8	82.9	82.3	0	996.9	222.2	5.1522	1.108	0	0	
21-07-24	2:00:00	29.4	29.1	28.8	85.5	84.5	83.6	0	995.5	229.5	3.324	0.4432	0	0	
21-07-24	3:00:00	29.4	29	28.7	87.5	86.1	85.3	0	995.4	209.8	2.5761	0.2493	0	0	
21-07-24	4:00:00	29.1	28.7	28.3	89.4	88.7	87.2	0	994.9	221	2.9362	0.4155	0	0	
21-07-24	5:00:00	28.8	28.5	28.1	90	89	88.3	0	994.2	211.3	3.1301	0.6925	0	0	
21-07-24	6:00:00	28.7	28.4	28	90.7	90	89.1	0	994.1	208.8	3.1301	0.4709	0	0	
21-07-24	7:00:00	28.7	28.4	28.1	89.5	88.7	88.3	0.2	995.3	208.6	2.0221	0.0831	0	0	
21-07-24	8:00:00	30	29.1	28.3	88.5	86.3	83.1	31.5	996.2	220.2	3.1301	0.4432	0	0	
21-07-24	9:00:00	31.8	30.5	29.6	83.3	79.9	74.5	89.6	997.5	228.8	3.1301	0.6648	0	0	
21-07-24	10:00:00	33	32	31.4	74.7	72	68.9	152.9	998	219.2	4.5982	0.9972	0	0	
21-07-24	11:00:00	33.9	33.2	32.6	70.2	67.2	65.1	170.4	998.3	216.3	4.2381	0.9141	0	0	
21-07-24	12:00:00	34.1	32.5	30.6	82.6	72.5	64	96.3	998.1	127.4	4.7921	0.7202	0	0	
21-07-24	13:00:00	33.3	31.9	31	81.2	77.3	72.5	129.4	997.5	118	6.4541	1.1357	0.1662	0	

Ghogha station															
DATE	TIME	AT_Max	AT_Avg	AT_Min	RH_Max	RH_Avg	RH_Min	SOLAR	BP	WD	WS_Max	WS_Avg	WS_Min	RAIN	
DD/MM/YY	HH:MM:SS	DegC	DegC	DegC	%	%	%	W/m2	mbar	Deg	m/s	m/s	m/s	mm	
21-07-24	14:00:00	35.3	33.8	31.8	77	69	62.3	319.6	997.7	153.4	6.094	1.1911	0	0	
21-07-24	15:00:00	35.6	34.4	33.3	69.4	66.4	63	330.4	997	168.4	7.756	1.662	0.3601	0	
21-07-24	16:00:00	34.8	33	31.8	75	71.2	64.7	90.6	995.3	224.9	8.6701	1.7174	0.554	0	
21-07-24	17:00:00	32	29.3	28	91.5	85.8	74.8	9.1	994.3	259.9	7.5621	1.4127	0	27.5	
21-07-24	18:00:00	28.9	28.6	28.2	92.3	91.9	91.2	8.7	993.9	252.9	4.0442	0.4432	0	6	
21-07-24	19:00:00	29.9	29.2	28	91.9	91.2	90.6	0	994.5	234.9	2.3822	0.4986	0	0	
21-07-24	20:00:00	30.1	29.8	29.4	90.8	89.8	87.4	0	995.3	240.8	3.4902	0.3601	0	0	
21-07-24	21:00:00	30	29.5	29.2	87.7	84.3	81.7	0	996	246.7	7.756	2.1329	0.554	0	
21-07-24	22:00:00	29.6	28.8	28	90.2	86	81.6	0	997.2	239.9	9.0302	1.8005	0	1.5	
21-07-24	23:00:00	28.5	28	27.4	93.6	92	90.1	0	997.7	219.6	8.4762	1.8282	0.1662	8.5	
22-07-24	0:00:00	27.8	27.2	26.9	94.8	94.1	93.3	0	997.8	220.2	8.1161	2.1052	0.3601	10.5	
22-07-24	1:00:00	27.3	27	26.7	95.4	95	94.5	0	997.3	242	6.094	1.5789	0	8	
22-07-24	2:00:00	27.5	27.3	26.9	95.1	94.5	94.1	0	996.3	216.1	4.2381	1.1634	0	0	
22-07-24	3:00:00	27.9	27.5	27.1	94.4	94.2	93.9	0	995.9	222.2	3.324	0.9141	0	0	
22-07-24	4:00:00	27.9	27.6	27.3	94.4	94.1	93.8	0	995.6	214	4.432	0.8033	0	0	
22-07-24	5:00:00	28	27.8	27.4	94.1	93.4	92.6	0	995.5	208.2	4.5982	1.1911	0	0	
22-07-24	6:00:00	28.1	27.8	27.5	92.9	92.5	92.3	0	995.7	227.9	3.1301	0.4709	0	0	
22-07-24	7:00:00	28.3	27.9	27.6	93.1	92.7	92.3	0.3	997.1	194.3	2.0221	0.1385	0	0	
22-07-24	8:00:00	28.6	28.3	27.8	93	92.4	92	12.5	997.8	236.5	3.324	0.3324	0	0	
22-07-24	9:00:00	29.7	28.8	28	92.7	91.3	87.4	45.6	998.1	238.9	4.2381	0.6371	0	0	
22-07-24	10:00:00	31	30.7	29.2	87.6	79.4	78.7	95.3	999	238.7	4.986	1.5789	0	0	
22-07-24	11:00:00	31.2	30.3	29.5	83.7	81	77.6	37.6	998.6	234.4	7.202	1.5235	0	0	
22-07-24	12:00:00	29.8	29	28.5	90.9	89.1	83.6	50.1	998.1	225.3	5.9001	1.6066	0	0	
22-07-24	13:00:00	29.5	29.1	28.8	89.5	89	88.4	32.3	998.2	226.5	5.3461	1.108	0	0	
22-07-24	14:00:00	29.6	29.2	28.8	89.3	87.8	86.6	46.2	998	223.9	6.8142	1.5789	0	0	
22-07-24	15:00:00	29.4	28.8	28.1	91.6	89.9	88.6	24.2	997.6	231.8	7.0081	0.8033	0	1	

Ghogha station															
DATE	TIME	AT_Max	AT_Avg	AT_Min	RH_Max	RH_Avg	RH_Min	SOLAR	BP	WD	WS_Max	WS_Avg	WS_Min	RAIN	
DD/MM/YY	HH:MM:SS	DegC	DegC	DegC	%	%	%	W/m2	mbar	Deg	m/s	m/s	m/s	mm	
22-07-24	16:00:00	29	28.7	28.2	92.2	91.5	90.6	58	997.5	235.2	5.7062	1.662	0	0	
22-07-24	17:00:00	29.7	28.9	28.3	90.8	87.1	82.2	76.7	996.5	234.6	7.0081	2.0498	0.1662	0	
22-07-24	18:00:00	31.2	30.3	29.3	82.4	78.8	76.4	138.2	997	227.5	7.9222	2.1052	0	0	
22-07-24	19:00:00	30.4	29.8	29.1	84	81.3	78.3	21.5	997.1	227.2	7.202	1.939	0	0	
22-07-24	20:00:00	29.6	29.2	28.8	86	84.8	83.7	0	998	224.4	5.54	1.5235	0	0	
22-07-24	21:00:00	29.2	28.7	28.2	88.9	87.5	85.8	0	998.3	215.9	5.9001	1.7174	0.3601	0	
22-07-24	22:00:00	28.8	28.6	28.3	89.3	88.8	88.4	0	998.3	208.9	5.54	1.385	0	0	
22-07-24	23:00:00	28.8	28.6	28.2	89	88.2	87.4	0	998.4	216.5	5.9001	1.662	0	0	
23-07-24	0:00:00	28.7	28.4	28.1	88	87.2	86.7	0	998.7	221.2	7.202	1.7174	0	0	
23-07-24	1:00:00	28.6	28.3	28	88.1	87.7	87.2	0	998.8	225.8	3.878	1.1357	0	0	
23-07-24	2:00:00	28.5	28.2	27.8	88.6	87.8	87.4	0	998.2	226.3	4.0442	0.9418	0	0	
23-07-24	3:00:00	28.3	28	27.8	88.9	88.4	88.1	0	998	230.1	3.4902	0.6925	0	0	
23-07-24	4:00:00	28.7	28.1	27.7	88.9	87.9	84.3	0	997.8	237.2	6.2602	0.7202	0	0	
23-07-24	5:00:00	28.9	28.5	28.2	84.5	82.8	82.3	0	997.8	241.4	7.5621	1.9113	0	0	
23-07-24	6:00:00	28.6	28.2	28	83.8	82.8	82	0	997.8	242.1	5.9001	1.5235	0	0	
23-07-24	7:00:00	28.4	28	27.7	85.1	83.9	82.9	1.4	997.8	226.9	5.1522	1.4404	0	0	
23-07-24	8:00:00	28.7	28.2	27.7	85.7	85.1	84.3	24.2	998.3	225.6	6.4541	1.7451	0	0	
23-07-24	9:00:00	29.7	29	28.2	84.6	82.2	79.5	50.9	999.3	230.5	6.4541	1.5789	0	0	
23-07-24	10:00:00	31.4	30.3	29.4	79.8	76.8	72.7	136.2	1000.1	231.4	7.5621	1.939	0	0	
23-07-24	11:00:00	32.2	31.6	31	73.8	71	68.9	177	1000.5	241.3	8.1161	2.4653	0	0	
23-07-24	12:00:00	31.5	31.1	30.7	74.2	72.8	71.7	113.9	1000.4	233	6.8142	2.3268	0	0	
23-07-24	13:00:00	32.7	31.5	30.8	73.2	71.2	67.5	143.5	999.7	239	10.1382	2.77	0.3601	0	
23-07-24	14:00:00	33.2	32.4	31.8	71.5	69	66	160.7	999	230	8.6701	2.216	0.1662	0	
23-07-24	15:00:00	32.7	30.9	29	85.5	75.9	68	102.6	998.1	229	8.6701	2.1052	0	1	
23-07-24	16:00:00	31.2	30.6	29.8	84	78.8	75.1	105.8	997.6	208.5	8.31	2.2714	0.554	0	
23-07-24	17:00:00	31.8	31.2	30.6	76.2	73.7	71.5	61.9	997	217.5	7.0081	2.1606	0	0	

Ghogha station															
DATE	TIME	AT_Max	AT_Avg	AT_Min	RH_Max	RH_Avg	RH_Min	SOLAR	BP	WD	WS_Max	WS_Avg	WS_Min	RAIN	
DD/MM/YY	HH:MM:SS	DegC	DegC	DegC	%	%	%	W/m2	mbar	Deg	m/s	m/s	m/s	mm	
23-07-24	18:00:00	31.1	29.1	28.1	89.3	84.4	74.5	20	996.2	232.3	9.0302	2.1329	0.1662	0	
23-07-24	19:00:00	29.4	29.1	28.6	86.8	84.5	83.4	4.4	996.8	228.6	5.1522	1.4404	0	0	
23-07-24	20:00:00	29.4	28.2	27.4	91.8	88.7	84.4	0	997.5	236	6.2602	1.4958	0	1	
23-07-24	21:00:00	28	27.8	27.4	91.9	91.6	91.4	0	997.7	218.1	5.1522	1.5512	0	0	
23-07-24	22:00:00	28	27.8	27.4	92.6	92	91.6	0	997.7	202.8	5.1522	1.2188	0	0	
23-07-24	23:00:00	28.2	27.8	27.5	92.5	91.5	90.6	0	997.8	226.4	5.1522	1.4958	0	0	
24-07-24	0:00:00	28	27.7	27.4	90.9	90.4	90	0	997.8	223.2	5.1522	1.2188	0	0	
24-07-24	1:00:00	28	27.7	27.4	91.5	90.6	90	0	997.7	231.7	5.3461	1.6066	0	0.5	
24-07-24	2:00:00	28	27.7	27.4	91.4	90.7	90.4	0	997.1	241.8	4.432	0.9418	0	0	
24-07-24	3:00:00	28	27.7	27.3	92.1	91.4	90.5	0	995.7	236.2	5.7062	0.7202	0	0	
24-07-24	4:00:00	28.4	28	27.5	91.2	86.8	85.1	0	995.3	250.7	8.864	1.8005	0	0	
24-07-24	5:00:00	28.2	27.9	27.5	88.4	87.3	85.8	0	995.2	241.2	5.3461	1.2742	0	0	
24-07-24	6:00:00	28.7	28.3	27.7	86.8	82.8	80.4	0	995.2	245.1	10.8861	2.3268	0.554	0	
24-07-24	7:00:00	28.6	28.3	27.8	83.3	81.5	80.5	0	995.4	246.5	10.8861	2.5761	0.7202	0	
24-07-24	8:00:00	28.2	27.6	27.2	87.1	86.1	83.2	0.4	995.6	249.7	11.08	2.8808	0.9141	0	
24-07-24	9:00:00	28.6	28.1	27.5	86.4	85.4	84.7	25	996.2	249.3	10.8861	2.4653	0.7202	0	
24-07-24	10:00:00	29.2	28.8	28.2	85	83.5	81.9	62.5	997.6	249.3	9.0302	2.3545	0.554	0	
24-07-24	11:00:00	29.4	29.1	28.8	82.7	82	81.4	46.7	996.7	249.4	9.2241	2.1883	0.3601	0	
24-07-24	12:00:00	29.5	28.9	28	88	84.3	81.9	30.2	996.8	241.6	7.756	2.0775	0.1662	0.5	
24-07-24	13:00:00	28.5	28.1	27.7	88.8	88.3	87.7	27.5	995.7	242.6	7.3682	2.1606	0.1662	0	
24-07-24	14:00:00	28.2	27.9	27.5	90.7	89.7	88.5	26.8	995.3	243.8	7.5621	2.0221	0.1662	1	
24-07-24	15:00:00	28.2	27.9	27.6	92.7	91.7	90.4	17.5	995.3	241.2	4.432	0.6925	0	2	
24-07-24	16:00:00	28.4	28	27.6	93.6	93.1	92.5	21.1	994.7	234.6	2.9362	0.1662	0	2	
24-07-24	17:00:00	28.3	28	27.6	93.6	93.2	92.8	31	993.4	234.7	7.9222	1.6066	0	0.5	
24-07-24	18:00:00	28.4	28.1	27.8	93.2	92.5	91.9	11.4	993.7	228.3	4.7921	1.0249	0	0	
24-07-24	19:00:00	28.4	28	27.6	92.5	92.1	91.9	1.4	993.9	222.7	2.9362	0.6094	0	0	



Ghogha station															
DATE	TIME	AT_Max	AT_Avg	AT_Min	RH_Max	RH_Avg	RH_Min	SOLAR	BP	WD	WS_Max	WS_Avg	WS_Min	RAIN	
DD/MM/YY	HH:MM:SS	DegC	DegC	DegC	%	%	%	W/m2	mbar	Deg	m/s	m/s	m/s	mm	
24-07-24	20:00:00	28.2	27.9	27.5	92.4	92.1	91.9	0	994.3	232.4	1.8282	0.0554	0	0	
24-07-24	21:00:00	28.4	28	27.6	92.5	91.6	90	0	994.8	241	5.3461	0.9972	0	0	
24-07-24	22:00:00	28.5	28.2	27.9	90.2	89	88.1	0	995.7	244.6	5.54	1.3296	0	0	
24-07-24	23:00:00	28.7	28.3	27.9	88.3	86.7	85.6	0	996	240	5.9001	1.1357	0	0	
25-07-24	0:00:00	28.8	28.3	27.9	87.2	84.5	82.5	0	995.6	238.9	7.0081	1.4404	0	0	
25-07-24	1:00:00	28.8	28.4	28	84.9	82.6	81.7	0	995.2	238.7	6.2602	1.3296	0	0	
25-07-24	2:00:00	28.4	28.1	27.7	85.7	84.6	83.5	0	994.5	229.3	4.432	0.8033	0	0	
25-07-24	3:00:00	28.1	27.7	27.3	88.8	87.4	85.5	0	993.9	211.2	3.324	0.6094	0	0	
25-07-24	4:00:00	27.8	27.5	27.1	89.8	88.9	88.4	0	993.7	216.2	3.4902	0.8033	0	0	
25-07-24	5:00:00	27.8	27.5	27.2	90.1	89.8	89.5	0	993.7	209.6	4.0442	0.7756	0	0	
25-07-24	6:00:00	28	27.6	27.2	90	89.2	88.7	0	993.8	206.2	3.1301	0.9141	0	0	
25-07-24	7:00:00	27.9	27.6	27.3	90.6	89.8	88.7	0.1	994.3	193.7	2.77	0.8033	0	0	
25-07-24	8:00:00	28.6	28	27.5	90.6	89.3	86.4	16.5	995.2	205.1	4.7921	1.0249	0	0	
25-07-24	9:00:00	29.8	29	28.2	86.6	83.8	80.4	66.2	996	225.6	5.7062	1.7451	0	0	
25-07-24	10:00:00	31.2	31	29.6	80.5	74.9	73.9	152.3	997.1	234.7	9.418	2.8531	0.1662	0	
25-07-24	11:00:00	32.3	31.5	30.6	75.1	72.8	70	187.1	996.9	234.2	8.6701	2.6315	0.554	0	
25-07-24	12:00:00	31.8	31.4	31	74.2	72.6	70.4	113	996.9	240	7.756	2.5761	0.3601	0	
25-07-24	13:00:00	33	32	31	72	69.7	65.8	167.7	996.9	243.7	9.5842	2.5761	0.7202	0	
25-07-24	14:00:00	34	33.2	32.5	67.4	64.9	61.9	236.7	996.6	243.7	9.972	2.4653	0.554	0	
25-07-24	15:00:00	33	32.5	31.8	69.1	66.8	63.6	155.9	995.4	240.8	10.6922	2.6038	0.554	0	
25-07-24	16:00:00	32.6	32.1	31.4	70.2	67.5	65.4	124.8	994.8	247	9.7781	2.5484	1.108	0	
25-07-24	17:00:00	31.9	31.3	30.8	75.5	72.1	67.8	75.9	994.5	242.3	9.2241	2.3268	0.554	0	
25-07-24	18:00:00	31.2	30.6	29.8	77.6	75.6	73.8	31	994.2	241.2	7.202	1.9113	0.554	0	
25-07-24	19:00:00	30.2	29.6	29.2	80.1	78.6	77.2	0.9	994.5	234	4.5982	1.4681	0	0	
25-07-24	20:00:00	29.6	29.3	28.9	82.1	81	79.8	0	995.1	218.1	5.1522	1.0803	0	0	
25-07-24	21:00:00	29.4	29	28.7	83.4	82.3	81.6	0	995.7	229.2	5.54	1.4681	0.1662	0	

Ghogha station															
DATE	TIME	AT_Max	AT_Avg	AT_Min	RH_Max	RH_Avg	RH_Min	SOLAR	BP	WD	WS_Max	WS_Avg	WS_Min	RAIN	
DD/MM/YY	HH:MM:SS	DegC	DegC	DegC	%	%	%	W/m2	mbar	Deg	m/s	m/s	m/s	mm	
25-07-24	22:00:00	29.1	28.8	28.4	83.9	83.4	83.1	0	996	227.3	4.432	0.9418	0	0	
25-07-24	23:00:00	29.4	29	28.6	83.6	81.1	78.6	0	997.2	233.4	3.6841	0.7202	0	0	
26-07-24	0:00:00	29.2	28.7	28.1	85.3	83	80.6	0	996.3	229.7	3.4902	0.5817	0	0	
26-07-24	1:00:00	29.2	28.6	28	85.4	83.2	79.7	0	995.7	239.3	5.3461	0.8587	0	0	
26-07-24	2:00:00	29.4	29	28.5	81.8	79.9	78.7	0	995.7	237.8	5.7062	0.9695	0	0	
26-07-24	3:00:00	29	28.6	28.3	83.2	81.9	80.8	0	994.8	237.2	5.3461	1.2188	0	0	
26-07-24	4:00:00	29.1	28.6	28.2	83.6	82.2	80.8	0	994.8	236.7	4.0442	0.9141	0	0	
26-07-24	5:00:00	29.4	29	28.4	81.7	78.1	76.7	0	995	248.6	6.4541	1.4404	0.1662	0	
26-07-24	6:00:00	29.4	28.9	28.3	80.8	77.8	76.6	0	995.3	241.2	4.986	1.1911	0	0	
26-07-24	7:00:00	29.2	28.5	28	82.5	80.7	78.1	5.3	995.7	240.3	5.7062	1.1634	0	0	
26-07-24	8:00:00	29.4	29.1	28.8	81.1	79.3	77.9	37.5	996.6	241.5	6.8142	1.9113	0.3601	0	
26-07-24	9:00:00	29.7	29.3	28.7	81.3	80.5	79.9	54.1	997.6	233.9	7.3682	1.9667	0.554	0	
26-07-24	10:00:00	30.8	30	29.2	80.8	78.5	76.2	97.8	998.5	235.8	7.9222	2.0498	0.1662	0	
26-07-24	11:00:00	31.4	31	30.4	76.5	74.5	73.1	149.1	998.4	226.7	7.756	2.2437	0.9141	0	
26-07-24	12:00:00	32.3	31.6	31	74.5	72.3	70.3	167	998.2	234	8.6701	2.4099	0.554	0	
26-07-24	13:00:00	32.9	31.9	31.2	73.4	70.7	68.5	164	998	234.3	8.1161	2.3822	0.1662	0	
26-07-24	14:00:00	33	32.4	31.6	73.5	70.1	68.1	128.9	997.6	226.8	7.756	1.939	0.7202	0	
26-07-24	15:00:00	32.7	31.9	31.2	76.2	73.8	71.3	123.4	996.6	217.4	7.202	1.7728	0.7202	0	
26-07-24	16:00:00	32.6	30.8	29.7	87.6	82.2	71.7	107.9	995.7	200	5.7062	1.5789	0	1.5	
26-07-24	17:00:00	31.2	30.9	30.3	87	85	82.9	63.1	995.5	200.8	5.3461	1.1634	0	0	
26-07-24	18:00:00	31.9	31.4	30.8	83.5	75.2	71	55.4	995.7	241.7	6.4541	1.6343	0	0	
26-07-24	19:00:00	31.8	31.3	30.6	80.6	73.3	71.1	17.8	995.9	235.6	6.648	1.3296	0	0	
26-07-24	20:00:00	30.8	30.2	29.8	83.8	82.4	80.5	0	996.3	216.3	5.1522	1.1357	0	0	
26-07-24	21:00:00	30.4	30	29.6	80.8	80	79.3	0	997.5	238.4	6.094	1.7451	0.1662	0	
26-07-24	22:00:00	30	29.6	29.2	82.2	81.2	80.3	0	997.8	237.8	5.7062	1.5789	0	0	
26-07-24	23:00:00	29.6	29.2	28.7	84.7	83	81.9	0	998.1	234.3	6.2602	1.385	0	0	

Ghogha station															
DATE	TIME	AT_Max	AT_Avg	AT_Min	RH_Max	RH_Avg	RH_Min	SOLAR	BP	WD	WS_Max	WS_Avg	WS_Min	RAIN	
DD/MM/YY	HH:MM:SS	DegC	DegC	DegC	%	%	%	W/m2	mbar	Deg	m/s	m/s	m/s	mm	
27-07-24	0:00:00	29.2	28.8	28.4	85.5	84.9	84.3	0	998.1	225.3	5.54	1.3019	0	0	
27-07-24	1:00:00	29	28.7	28.4	85.5	85	84.5	0	997.9	231.2	5.1522	1.3573	0	0	
27-07-24	2:00:00	28.8	28.5	28.2	86.3	85.8	85.3	0	997.6	223.3	4.7921	1.108	0	0	
27-07-24	3:00:00	28.6	28.3	27.9	86.6	86.2	85.9	0	997.4	223.6	4.5982	1.2742	0	0	
27-07-24	4:00:00	28.6	28.2	27.9	86.9	86.3	85.7	0	997.4	222.8	4.432	1.1357	0	0	
27-07-24	5:00:00	28.5	28.1	27.8	86.8	86.4	86	0	997.6	232.2	5.7062	1.1357	0	0	
27-07-24	6:00:00	28.2	28	27.7	87.4	86.9	86.5	0	997.6	232.4	4.432	1.2742	0	0	
27-07-24	7:00:00	28.4	28.1	27.8	87.2	86.2	85.5	0.2	997.8	232.6	4.2381	1.385	0	0	
27-07-24	8:00:00	28.7	28.3	28	86.7	86.1	85.4	12.1	998.3	233.5	5.3461	1.385	0	0	
27-07-24	9:00:00	29.9	29.1	28.4	85.6	83.1	80.8	52.4	999	232.8	4.2381	1.3573	0	0	
27-07-24	10:00:00	30.8	30.2	29.4	81.2	77.9	75.1	122.6	999.7	236.1	6.2602	1.8836	0	0	
27-07-24	11:00:00	30.9	30.5	30.1	77.4	75.9	74.2	80.6	1000	239.7	5.7062	1.6343	0	0	
27-07-24	12:00:00	31.2	30.4	29.9	75.9	74.5	70.7	85.1	999.8	244.1	6.094	1.6066	0	0	
27-07-24	13:00:00	33.2	32.2	30.8	72.1	67.8	64.3	247.7	999.7	245.4	7.756	1.7451	0.1662	0	
27-07-24	14:00:00	33.1	32.4	31.5	67.7	64.8	62.3	208.2	998.8	256.9	9.0302	1.8836	0.3601	0	
27-07-24	15:00:00	32.1	31.4	30.9	70.1	67.9	65.4	76.4	998.1	251.1	6.648	1.662	0.1662	0	
27-07-24	16:00:00	31.6	31	30.4	71.6	70	67.7	43.6	997.8	250.7	5.54	1.5512	0.1662	0	
27-07-24	17:00:00	31.2	30.7	30.3	74.5	73.2	71.1	30.8	997.6	245.2	3.878	0.9141	0	0	
27-07-24	18:00:00	31.2	30.7	30.2	76.2	73.4	72.1	24.1	997.3	240.3	4.0442	1.0526	0	0	
27-07-24	19:00:00	30.6	30.2	29.8	77.9	76.5	73	4.8	996.8	243.4	6.094	1.2465	0	0	
27-07-24	20:00:00	30.4	29.9	29.4	80.6	76.4	72.8	0	997.7	239	3.1301	0.4709	0	0	
27-07-24	21:00:00	29.8	29.5	29.1	82.1	81.4	80.4	0	998	226.3	2.77	0.277	0	0	
27-07-24	22:00:00	29.6	29.1	28.6	83.8	81.9	80.6	0	998.2	216.1	3.4902	0.6925	0	0	
27-07-24	23:00:00	29.1	28.7	28.4	84.4	83.8	83.2	0	998.1	223.2	3.6841	0.7756	0	0	
28-07-24	0:00:00	28.9	28.4	27.9	87.3	85.3	84	0	998.1	237.7	4.2381	0.9972	0	0	
28-07-24	1:00:00	28.4	27.9	27.5	90.6	89.3	87	0	997.7	235.9	3.6841	0.8033	0	0	

Ghogha station															
DATE	TIME	AT_Max	AT_Avg	AT_Min	RH_Max	RH_Avg	RH_Min	SOLAR	BP	WD	WS_Max	WS_Avg	WS_Min	RAIN	
DD/MM/YY	HH:MM:SS	DegC	DegC	DegC	%	%	%	W/m2	mbar	Deg	m/s	m/s	m/s	mm	
28-07-24	2:00:00	28.1	27.9	27.4	91.8	90.7	90.3	0	997.4	233.9	3.324	0.6371	0	0	
28-07-24	3:00:00	27.9	27.6	27.3	93.6	92.7	91.5	0	995.8	229.4	3.878	0.8033	0	0	
28-07-24	4:00:00	27.9	27.6	27.3	94	93.6	93.2	0	995.6	222	2.3822	0.2493	0	0	
28-07-24	5:00:00	27.9	27.6	27.3	94.1	93.8	93.4	0	995.5	231.4	2.9362	0.5817	0	0	
28-07-24	6:00:00	27.8	27.6	27.3	93.7	93.3	93	0	995.7	227.7	2.5761	0.3047	0	0	
28-07-24	7:00:00	28	27.6	27.3	93.5	93.1	92.7	0.8	996.7	216.5	2.77	0.3878	0	0	
28-07-24	8:00:00	28.7	28.1	27.5	92.9	91.2	88.7	15.3	997.7	236.9	2.5761	0.2493	0	0	
28-07-24	9:00:00	29.5	28.9	28.2	88.9	86.2	83.8	33.9	998	237.4	3.4902	0.8864	0	0	
28-07-24	10:00:00	31.4	30.3	29.1	84.1	79.3	74.5	109	998.2	244.9	5.7062	1.4681	0	0	
28-07-24	11:00:00	32.7	31.8	30.8	75.1	71.9	68.7	197.3	998.3	244	7.0081	2.0221	0	0	
28-07-24	12:00:00	33.2	32.8	32	70.3	67.6	66.2	212.6	998.5	251	7.0081	1.4404	0.1662	0	
28-07-24	13:00:00	33.7	32.7	31.3	69	65.8	63.3	164.6	998	249.9	6.648	1.6343	0	0	
28-07-24	14:00:00	31.4	30.9	30	72.1	70.1	68.3	95.2	997.1	247.2	4.432	1.3019	0.1662	0	
28-07-24	15:00:00	30.4	29.9	29.7	74.7	73.2	71.1	93.1	996.1	212.8	3.878	1.1911	0	0	
28-07-24	16:00:00	30.4	30	29.5	74.7	71.8	69.4	67.3	995.1	214.6	4.5982	0.6371	0	0	
28-07-24	17:00:00	30.2	29.4	28.8	77.4	75.2	72.4	53.2	994.6	204.2	4.2381	0.4709	0	0	
28-07-24	18:00:00	29.2	28.4	28	81.3	79.8	77.1	36.4	993.6	193.9	5.1522	1.1634	0	0	
28-07-24	19:00:00	28.8	27.9	27.3	82.3	81.1	79.8	2.7	993	206.5	6.648	1.4404	0.3601	0	
28-07-24	20:00:00	28.8	28.1	27.5	83.7	81.9	80.1	0	994.3	226.1	6.4541	1.5235	0.1662	0	
28-07-24	21:00:00	29	28.3	27.6	84.8	83.7	82.7	0	994.9	223.8	5.9001	1.5235	0.3601	0	
28-07-24	22:00:00	29.5	28.9	28.2	85.7	85.1	84.4	0	995.1	231.4	5.7062	1.662	0.3601	0	
28-07-24	23:00:00	29.7	29.3	28.7	85.7	85.1	84.7	0	995.6	228.7	5.9001	1.3573	0	0	
29-07-24	0:00:00	29.5	29.2	28.9	86.4	86	85.3	0	995.5	235.6	4.5982	1.385	0	0	
29-07-24	1:00:00	29.5	29.1	28.6	88.1	86.5	85.8	0	994.8	234.5	2.9362	0.5263	0	0	
29-07-24	2:00:00	29	28.5	28.1	89.8	89	87.8	0	993.5	235.4	3.6841	0.7202	0	0	
29-07-24	3:00:00	28.7	28.4	28	90.2	89.1	88.6	0	993.5	222.1	2.3822	0.1662	0	0	

Ghogha station															
DATE	TIME	AT_Max	AT_Avg	AT_Min	RH_Max	RH_Avg	RH_Min	SOLAR	BP	WD	WS_Max	WS_Avg	WS_Min	RAIN	
DD/MM/YY	HH:MM:SS	DegC	DegC	DegC	%	%	%	W/m2	mbar	Deg	m/s	m/s	m/s	mm	
29-07-24	4:00:00	28.6	28.3	27.9	90.6	90.2	89.7	0	993	228.8	5.1522	1.2465	0	0	
29-07-24	5:00:00	28.4	28.2	27.9	90.4	90.1	89.7	0	993.2	235.4	3.1301	0.4986	0	0	
29-07-24	6:00:00	28.4	28.1	27.9	90.6	90.2	89.7	0	993.5	231	2.77	0.7479	0	0	
29-07-24	7:00:00	28.5	28.2	27.9	90	89	88.4	0	993.9	234.3	2.216	0.3878	0	0	
29-07-24	8:00:00	28.5	28	27.6	92.5	90.3	88.7	0	994.2	226.1	2.9362	0.5817	0	0.5	
29-07-24	9:00:00	28.1	27.8	27.5	94.1	93.2	92.3	0	995.1	209.9	2.5761	0.3324	0	1.5	
29-07-24	10:00:00	28.6	27.9	27.4	95.1	94.6	93.8	36.2	994.9	232.3	4.0442	0.9141	0	2	
29-07-24	11:00:00	29	28.5	28	94.8	93.5	91.8	61.8	995.5	225	5.1522	1.3019	0	0	
29-07-24	12:00:00	30.2	29.2	28.4	92	90.1	87.4	89.1	995.4	238.7	3.6841	0.7479	0	0	
29-07-24	13:00:00	31.3	30.4	29.8	87.6	82.4	79.1	109.1	995.4	233.1	4.5982	0.831	0	0	
29-07-24	14:00:00	30.2	29.7	29.2	87.3	85	82.8	35.5	994.8	237.9	1.662	0.1939	0	0	
29-07-24	15:00:00	31.2	30.5	29.7	87	82.7	80.8	87.4	994.5	195.2	2.9362	0.3601	0	0	
29-07-24	16:00:00	30.2	28.8	28	91.6	88.4	83.9	13.7	993.6	190.3	5.1522	1.6343	0	0	
29-07-24	17:00:00	28.5	28	27.6	93.6	92.3	91.3	12.3	992.8	208.6	6.4541	1.4404	0	1	
29-07-24	18:00:00	28.3	28	27.6	95	94.2	93.3	3.3	992.9	169.2	2.9362	0.4709	0	1	
29-07-24	19:00:00	28.1	27.8	27.4	96	95.3	94.6	0	993.5	169.8	4.5982	0.6648	0	12.5	
29-07-24	20:00:00	28.1	27.7	27.3	96.6	96.1	95.6	0	994.1	172.4	2.9362	0.4986	0	14.5	
29-07-24	21:00:00	27.9	27.6	27.2	97.1	96.7	96.3	0	994.7	190.5	3.4902	0.9418	0	2	
29-07-24	22:00:00	28	27.7	27.3	97.4	96.9	96.7	0	995.6	190.8	2.77	0.4986	0	2	
29-07-24	23:00:00	27.9	27.6	27.3	97.4	97.1	96.8	0	996.2	180.4	1.662	0.2216	0	3.5	
30-07-24	0:00:00	27.9	27.6	27.2	97.6	97.2	96.9	0	996.2	189.7	2.3822	0.1385	0	0.5	
30-07-24	1:00:00	28	27.7	27.1	97.7	97.2	96.9	0	995.7	226.6	3.878	0.554	0	0.5	
30-07-24	2:00:00	27.8	27.5	27.1	97.5	97	96.6	0	995.6	225.2	3.6841	0.2493	0	0	
30-07-24	3:00:00	27.7	27.4	26.9	97.1	96.4	95.8	0	995.6	219.9	2.77	0.3601	0	0	
30-07-24	4:00:00	27.6	27.3	27.1	96.1	95.6	95	0	995.6	227	5.1522	0.8864	0	0	
30-07-24	5:00:00	27.7	27.4	27.2	95.3	94.5	93.8	0	995.6	225.4	5.54	1.1634	0	0	

Ghogha station															
DATE	TIME	AT_Max	AT_Avg	AT_Min	RH_Max	RH_Avg	RH_Min	SOLAR	BP	WD	WS_Max	WS_Avg	WS_Min	RAIN	
DD/MM/YY	HH:MM:SS	DegC	DegC	DegC	%	%	%	W/m2	mbar	Deg	m/s	m/s	m/s	mm	
30-07-24	6:00:00	27.8	27.6	27.3	94.1	93.6	93.2	0	995.5	228.1	5.3461	1.0526	0	0	
30-07-24	7:00:00	28.2	27.8	27.4	93.6	92.9	91.7	4.4	995.9	215.2	5.54	1.5512	0	0	
30-07-24	8:00:00	29	28.5	27.9	91.9	88.9	87.5	39.5	997.8	214.7	6.094	1.6897	0	0	
30-07-24	9:00:00	29.8	29.3	28.6	88	86.2	84.2	68.7	998.3	231.1	6.2602	1.6066	0	0	
30-07-24	10:00:00	30.4	29.8	29.4	84.5	83.3	81.3	68.4	999.3	237.8	5.1522	1.3573	0	0	
30-07-24	11:00:00	32	31.1	30.1	81.5	76.5	72.3	160.5	999.9	232.3	6.2602	1.6343	0	0	
30-07-24	12:00:00	34.1	32.9	31.4	72.8	67.8	62.7	324.5	1000.1	237	9.418	2.2437	0	0	
30-07-24	13:00:00	34.1	33.5	32.8	68.1	64.1	61.4	285.6	999.9	243.9	9.418	2.3545	0.3601	0	
30-07-24	14:00:00	33.2	32	31.1	74.2	70.3	65.5	151.2	999	231.5	8.4762	1.8005	0	0	
30-07-24	15:00:00	35.8	34.1	32.4	67	61.9	56.8	277.7	999.4	244.5	6.094	1.6343	0.1662	0	
30-07-24	16:00:00	34.4	32.7	28.8	83.2	68.8	60.3	109.7	998.5	199.4	8.1161	1.9113	0	1.5	
30-07-24	17:00:00	29.1	28.3	27.1	91.4	89.2	83.1	49.1	997.5	190.8	6.8142	1.2188	0	8.5	
30-07-24	18:00:00	27.6	25.9	25.2	93.2	91.6	88.8	3.5	997.6	264	5.3461	0.3047	0	5.5	
30-07-24	19:00:00	28.2	27.6	25.3	93.6	93.2	93	2	997.8	199.3	7.756	1.6066	0	3	
30-07-24	20:00:00	28.2	27.7	26.8	94.7	94.1	93.3	0	997.9	196.3	4.2381	0.8033	0	0.5	
30-07-24	21:00:00	28.4	28.1	27.7	94.8	92.9	90.1	0	998.8	216	7.5621	1.6897	0.554	0	
30-07-24	22:00:00	28.5	28.2	27.9	90.8	90.2	89.9	0	999.9	220.3	4.5982	1.4404	0.1662	0	
30-07-24	23:00:00	28.8	28.4	28.1	91	90.4	89.3	0	1000.6	216.2	6.2602	1.7728	0.1662	0	
31-07-24	0:00:00	28.7	28.4	28	89.5	88.8	88	0	1001.1	224.7	5.54	1.6343	0.1662	0	
31-07-24	1:00:00	28.6	28.2	27.8	89.2	88.6	88	0	1000.7	209	4.986	1.1911	0	0	
31-07-24	2:00:00	28.4	28	27.6	90.8	89.8	88.8	0	1000.3	201.7	3.878	1.1357	0	0	
31-07-24	3:00:00	28	27.6	27.3	92.2	91.3	90.4	0	999.5	205.9	3.6841	1.0526	0	0	
31-07-24	4:00:00	27.8	27.5	27.2	92.9	92.4	91.9	0	998.8	215.6	4.0442	1.2188	0	0	
31-07-24	5:00:00	27.6	27.2	26.5	93.9	93.1	92.5	0	998.9	232.6	3.6841	0.6648	0	0	
31-07-24	6:00:00	27.4	27.1	26.9	94.9	94.2	93.6	0	999.5	210.3	2.3822	0.5817	0	0	
31-07-24	7:00:00	27.7	27.2	26.9	95.3	94.9	94.6	3.4	999.8	206.2	3.324	0.7479	0	0	

Ghogha station															
DATE	TIME	AT_Max	AT_Avg	AT_Min	RH_Max	RH_Avg	RH_Min	SOLAR	BP	WD	WS_Max	WS_Avg	WS_Min	RAIN	
DD/MM/YY	HH:MM:SS	DegC	DegC	DegC	%	%	%	W/m2	mbar	Deg	m/s	m/s	m/s	mm	
31-07-24	8:00:00	29.7	28.5	27.3	94.9	90.6	84.4	45.4	1001.2	217.4	4.2381	1.0249	0	0	
31-07-24	9:00:00	31.4	31.2	29.3	84.6	75	74.5	109.9	1003.2	225.8	3.4902	0.8033	0	0	
31-07-24	10:00:00	32.6	32	31	75.7	72	69.5	159.5	1003.2	227.8	4.0442	0.8033	0	0	
31-07-24	11:00:00	33	32.2	31.6	73.4	70.7	67.4	143.5	1003.3	223.6	2.77	0.6925	0	0	
31-07-24	12:00:00	33.3	31.9	30	80.4	72	66	149.6	1003.1	216	7.0081	1.385	0	0	
31-07-24	13:00:00	35.8	33.6	30.6	80.1	66.8	56.8	305.4	1003.2	243.1	3.878	0.831	0	0	
31-07-24	14:00:00	35.6	33.3	31.8	73.4	68.6	57.3	239.9	1002.2	199.6	8.1161	1.8005	0	0	
31-07-24	15:00:00	32.8	31.3	30	81.9	74.8	68.7	242.1	1000.9	197.8	8.4762	2.493	1.2742	0	
31-07-24	16:00:00	32	31	29.1	77.7	73	69.3	132.8	1000.5	228.7	11.4401	2.4653	0.3601	0	
31-07-24	17:00:00	33.3	31	29.1	76.2	69.7	61.9	178.4	999.8	239.7	10.1382	2.6869	0.9141	0	
31-07-24	18:00:00	32.6	31.6	30.7	71.3	68.6	64.9	143.3	999.9	230.6	8.6701	2.6592	0.9141	0	
31-07-24	19:00:00	31.5	29.8	29.2	77	74.7	69.8	22.1	999.2	223.2	8.4762	2.1052	0.7202	0	
31-07-24	20:00:00	29.9	29.3	28.8	83.1	80.1	76.6	0.3	999.7	210.4	5.54	1.6066	0.3601	0	
31-07-24	21:00:00	29.2	29	28.7	83.8	82.8	81.5	0	1000	218.9	5.7062	1.4127	0.1662	0	
31-07-24	22:00:00	29.4	29.1	28.8	81.8	80.5	79.7	0	1001.4	221.8	4.7921	1.3019	0	0	
31-07-24	23:00:00	29.2	28.9	28.4	83.6	82.3	80.6	0	1001.7	221.8	4.7921	1.4127	0	0	
01-08-24	0:00:00	29	28.8	28.5	83.8	83.4	83	0	1001.3	218.6	6.2602	1.6343	0.3601	0	
01-08-24	1:00:00	28.8	28.6	28.2	85.4	84.5	83.6	0	1000.8	226.6	6.2602	1.5512	0.1662	0	
01-08-24	2:00:00	28.6	28.2	27.8	88.1	86.6	85.1	0	1000.2	222.3	4.432	1.2742	0	0	
01-08-24	3:00:00	28.2	27.8	27.4	90	88.9	87.8	0	999.7	221.9	4.2381	0.9972	0	0	
01-08-24	4:00:00	27.8	27.5	27.3	89.9	89	88.5	0	998.9	223.4	4.432	1.4127	0.1662	0	
01-08-24	5:00:00	27.8	27.5	27.3	89	88.4	88.1	0	998.5	218	4.5982	1.3573	0	0	
01-08-24	6:00:00	27.8	27.5	27.3	89.5	89.2	88.7	0	998.4	218.3	4.2381	1.108	0	0	
01-08-24	7:00:00	27.8	27.5	27.3	89.1	88.5	88.1	0	998.7	218.8	4.7921	1.385	0	0	
01-08-24	8:00:00	28.4	27.9	27.3	88.5	87.1	85.5	22.5	999.1	225	4.986	1.4958	0	0	
01-08-24	9:00:00	29.6	29.3	28	85.8	81.9	81.6	64.6	1000.6	228.6	4.5982	1.3019	0	0	

Ghogha station															
DATE	TIME	AT_Max	AT_Avg	AT_Min	RH_Max	RH_Avg	RH_Min	SOLAR	BP	WD	WS_Max	WS_Avg	WS_Min	RAIN	
DD/MM/YY	HH:MM:SS	DegC	DegC	DegC	%	%	%	W/m2	mbar	Deg	m/s	m/s	m/s	mm	
01-08-24	10:00:00	30.4	29.8	29.2	82.1	80	77.8	85.5	1001.3	225.4	6.648	1.385	0	0	
01-08-24	11:00:00	32.6	31.1	30.1	78.5	74.6	69.2	155	1002	236.2	6.2602	1.6343	0.1662	0	
01-08-24	12:00:00	34	32.8	32.1	70	66.7	63.3	229.1	1002.2	246.1	6.2602	1.7174	0	0	
01-08-24	13:00:00	34.4	33.3	32.2	68.3	64.2	59.2	219.7	1001.6	254.4	8.4762	1.6343	0.554	0	
01-08-24	14:00:00	34.1	33.5	32.6	67	62.1	57.4	203.3	1001	273.5	8.4762	1.4958	0	0	
01-08-24	15:00:00	33.6	31.2	28	82.8	70.9	59.8	161	999.5	252.5	13.296	1.4404	0.1662	0.5	
01-08-24	16:00:00	31.8	30.4	29.3	76.4	72.9	69.6	78.4	998.8	240.7	10.1382	1.939	0.554	0	
01-08-24	17:00:00	30.3	29.7	29.3	78.2	76.8	75.5	58.9	998.4	219.5	5.7062	1.3019	0.1662	0	
01-08-24	18:00:00	30.4	29.9	29.4	79.3	77.6	75.9	32.7	998.1	216.4	4.7921	1.2742	0	0	
01-08-24	19:00:00	30.2	29.9	29.6	78.5	77.7	76.8	8.8	998.3	210.6	5.9001	1.5235	0	0	
01-08-24	20:00:00	30.2	29.8	29.2	80.3	77.1	73.4	0	999	220.4	7.202	1.662	0.3601	0	
01-08-24	21:00:00	30.2	29.6	29.2	77	73.6	70.8	0	999.9	239.8	7.202	1.6066	0.3601	0	
01-08-24	22:00:00	29.6	29.2	28.4	75.9	73.9	71.8	0	1000.5	243.7	7.9222	1.6897	0.554	0	
01-08-24	23:00:00	28.8	28.4	27.9	81.3	78.3	75.7	0	1000.3	233.4	7.0081	1.5789	0	0	
02-08-24	0:00:00	28.5	28.2	27.9	83.2	81.8	81	0	1000.2	218	5.54	1.3019	0.3601	0	
02-08-24	1:00:00	28.5	28.1	27.7	86.2	84.8	83	0	999.7	228.6	4.7921	1.3296	0	0	
02-08-24	2:00:00	28.3	28	27.7	86.6	86.2	85.5	0	998.6	228.9	4.5982	1.2188	0	0	
02-08-24	3:00:00	28.3	27.8	27.3	89.4	87	85.3	0	998.3	230.1	4.0442	1.108	0	0	
02-08-24	4:00:00	27.6	27.4	27.1	91.1	90.5	89.2	0	997.8	223	3.324	0.9418	0	0	
02-08-24	5:00:00	27.6	27.4	27	91	90.6	90	0	997.9	211.8	4.2381	1.4681	0	0	
02-08-24	6:00:00	27.8	27.5	27.3	90.3	89	88	0	997.9	220.6	4.986	1.1634	0	0	
02-08-24	7:00:00	27.9	27.6	27.3	88.3	87.5	87	0.1	998.4	213.6	5.1522	1.3296	0	0	
02-08-24	8:00:00	28.6	28	27.5	87.6	86	83.5	24.3	998.8	223.6	5.3461	1.6343	0.1662	0	
02-08-24	9:00:00	29.8	29.6	28.2	83.8	78.8	78.1	105.2	1000.4	233.3	5.7062	1.9113	0.1662	0	
02-08-24	10:00:00	30.4	29.6	29	78.5	76.5	74.2	105.6	1000.3	238.7	8.4762	1.939	0.554	0	
02-08-24	11:00:00	33.2	31.6	30	74.7	70.1	64.7	301.9	1000.9	230.2	9.0302	2.3545	0.554	0	

Ghogha station															
DATE	TIME	AT_Max	AT_Avg	AT_Min	RH_Max	RH_Avg	RH_Min	SOLAR	BP	WD	WS_Max	WS_Avg	WS_Min	RAIN	
DD/MM/YY	HH:MM:SS	DegC	DegC	DegC	%	%	%	W/m2	mbar	Deg	m/s	m/s	m/s	mm	
02-08-24	12:00:00	33.2	32.6	31.8	68.9	66.8	64.3	266.1	1000.9	239.7	9.5842	2.216	0.554	0	
02-08-24	13:00:00	33.1	32.3	31.2	72	67.6	64	196.1	1000.1	247.6	8.864	2.1329	1.108	0	
02-08-24	14:00:00	33.3	32.3	31.4	70.9	66.7	63.2	173.7	999.3	240.6	8.864	2.2991	0.9141	0	
02-08-24	15:00:00	33	32.4	31.8	68.9	66	63.3	171.7	998.9	236.7	9.5842	2.4376	0.9141	0	
02-08-24	16:00:00	32.2	31.7	31.4	69.4	66.5	63.6	146.6	998.2	238	11.4401	2.7423	1.108	0	
02-08-24	17:00:00	32.1	31.6	31.1	69.9	67.2	65.3	89.5	997.9	240.6	8.6701	2.3545	0.554	0	
02-08-24	18:00:00	31.6	28.7	27.4	89.4	82.3	68.9	21.3	997.5	249.1	8.31	2.0221	0.3601	0.5	
02-08-24	19:00:00	28	27.7	27.4	89.3	87.3	85.9	9.4	997.3	231.2	4.5982	1.3019	0	0	
02-08-24	20:00:00	28.1	27.8	27.3	90.4	89.1	87.4	0	997.8	221.5	3.878	0.9141	0	0	
02-08-24	21:00:00	28.2	27.9	27.6	90.4	89.9	88.6	0	998	224.9	4.986	1.4404	0	0	
02-08-24	22:00:00	28	27.6	27.3	89.2	88.7	88.4	0	998.4	212.4	5.3461	1.7451	0.3601	0	
02-08-24	23:00:00	27.9	27.7	27.4	89.1	88.6	88.2	0	999.1	209.8	6.4541	1.939	0.7202	0	
03-08-24	0:00:00	27.9	27.6	27.3	88.7	88.4	88.1	0	999	224.7	7.0081	1.9113	0.1662	0	
03-08-24	1:00:00	27.8	27.5	27.3	89.3	88.7	88.2	0	998.4	231.8	6.648	1.8836	0.3601	0	
03-08-24	2:00:00	27.8	27.6	27.3	88.5	88	87.6	0	998.3	227.4	4.986	1.4958	0	0	
03-08-24	3:00:00	27.9	27.6	27.3	88.7	88.1	87.5	0	997.9	222.4	6.648	1.5235	0	0	
03-08-24	4:00:00	27.9	27.6	27.3	88.9	88	86.7	0	997.5	225.6	7.5621	1.6066	0	0	
03-08-24	5:00:00	27.7	27.4	27.1	90.5	89.7	87.9	0	997.6	210.1	3.6841	1.108	0	0	
03-08-24	6:00:00	27.7	27.4	27.1	90.6	90.2	89.8	0	997.7	212.7	3.324	1.0803	0	0	
03-08-24	7:00:00	27.9	27.5	27.1	90.7	90.3	89.6	3	997.8	220.7	3.1301	0.7756	0	0	
03-08-24	8:00:00	29.4	28.4	27.5	89.8	86	81.6	42.2	998.4	227.7	4.0442	0.8033	0	0	
03-08-24	9:00:00	29.8	29.3	28.8	81.9	79.6	77.6	58.1	999.2	242.4	9.0302	2.0221	0	0	
03-08-24	10:00:00	31	30.2	29.4	78.1	76.3	74	114.7	999.9	239.5	10.3321	2.0221	0.554	0	
03-08-24	11:00:00	31.6	31.1	30.4	74.2	72.2	70.4	170.6	1000.7	248.9	8.864	2.2714	0.554	0	
03-08-24	12:00:00	32.3	31.7	31.1	71.9	70.3	68.5	175.1	1000.4	244.7	8.31	2.2991	0.554	0	
03-08-24	13:00:00	33.4	32.5	31.5	71.1	66.4	62.6	227.8	1000	239.9	7.202	2.2714	0.7202	0	

Ghogha station															
DATE	TIME	AT_Max	AT_Avg	AT_Min	RH_Max	RH_Avg	RH_Min	SOLAR	BP	WD	WS_Max	WS_Avg	WS_Min	RAIN	
DD/MM/YY	HH:MM:SS	DegC	DegC	DegC	%	%	%	W/m2	mbar	Deg	m/s	m/s	m/s	mm	
03-08-24	14:00:00	33.7	32.7	31.4	73	65.4	62.2	167.9	999.4	242	8.4762	2.3545	0.554	0	
03-08-24	15:00:00	32.3	31.6	31	76.2	72.4	69.4	154.8	998.7	242.2	6.8142	1.9944	0.3601	0	
03-08-24	16:00:00	32.2	29.8	28.3	86.1	79.5	70.2	83	997.9	250.4	9.0302	2.0221	0	0.5	
03-08-24	17:00:00	29.2	28.1	26.6	92.1	88.1	86	14.2	997.6	254	8.864	1.8005	0	16	
03-08-24	18:00:00	27.4	27	26.5	94.3	93.6	91.9	0	997.7	249.6	7.9222	1.4681	0.1662	5	
03-08-24	19:00:00	27.6	27.2	26.9	94.3	93.7	93	0	997.9	243.6	4.986	1.3019	0	1	
03-08-24	20:00:00	27.6	26.8	25.9	94.4	93.7	93	0	998.7	206.4	3.6841	0.9141	0	1.5	
03-08-24	21:00:00	27.6	27.1	25.7	95	94.6	94.2	0	999.3	218.3	5.1522	1.1634	0	0.5	
03-08-24	22:00:00	27.6	27.3	26.9	95.1	94.7	94.6	0	1000.1	223.1	4.0442	0.9695	0	0	
03-08-24	23:00:00	27.6	27.3	27.1	94.9	94.7	94.4	0	1000.7	203.8	3.1301	0.5817	0	0	
04-08-24	0:00:00	27.6	27.3	27	94.9	94.5	94.2	0	1000.6	226.6	2.216	0.4432	0	0	
04-08-24	1:00:00	27.5	27.3	26.9	94.7	94.3	94	0	1000	222.7	3.1301	0.8864	0	0	
04-08-24	2:00:00	27.5	27.2	26.9	94.4	94.1	93.8	0	998.8	206.5	3.324	0.9972	0	0	
04-08-24	3:00:00	27.4	27.2	26.9	94.2	93.8	93.5	0	998.3	215.9	3.878	0.7202	0	0	
04-08-24	4:00:00	27.4	27.1	26.9	94.3	93.9	93.2	0	998.1	230.5	4.5982	1.1357	0	0	
04-08-24	5:00:00	27.6	27.2	26.9	93.4	92.4	91.9	0	997.9	228.6	4.7921	1.108	0	0	
04-08-24	6:00:00	27.4	27.2	26.9	92.8	92.5	92.1	0	998.2	234.6	3.4902	0.7756	0	0	
04-08-24	7:00:00	27.4	27.2	26.9	92.8	92.3	91.9	0	998.7	222.6	3.4902	0.8587	0	0	
04-08-24	8:00:00	28.2	27.6	27.1	92.2	91.5	90	12.7	999.8	228.6	2.3822	0.7202	0	0	
04-08-24	9:00:00	28.9	28.3	27.8	90.2	88.2	86.7	34.6	1000.7	239.8	3.4902	0.8864	0	0	
04-08-24	10:00:00	29.9	29.3	28.5	87.2	84.2	81.6	63.3	1001.5	237.6	2.77	0.5263	0	0	
04-08-24	11:00:00	30.8	30.2	29.6	82	78.3	75.9	77.3	1002	242.7	4.2381	0.9141	0	0	
04-08-24	12:00:00	31.8	30.9	29.8	78.9	75.6	71.9	105.4	1001.7	245.7	4.0442	0.8033	0	0	
04-08-24	13:00:00	33	32	31.1	73.9	70.1	66	181.2	1001.3	241.5	4.986	1.5235	0	0	
04-08-24	14:00:00	33.8	32.6	31.8	71.3	68.5	64	188.7	1000.4	240.8	5.7062	1.7728	0	0	
04-08-24	15:00:00	32.5	31.6	28.8	83.9	72.2	68.5	81.3	999.5	237.2	7.202	1.6343	0	0	



Ghogha station															
DATE	TIME	AT_Max	AT_Avg	AT_Min	RH_Max	RH_Avg	RH_Min	SOLAR	BP	WD	WS_Max	WS_Avg	WS_Min	RAIN	
DD/MM/YY	HH:MM:SS	DegC	DegC	DegC	%	%	%	W/m2	mbar	Deg	m/s	m/s	m/s	mm	
04-08-24	16:00:00	30.6	30	28.7	87.8	84.4	79.8	94.8	998.6	206.6	4.2381	0.8587	0	0	
04-08-24	17:00:00	30.7	30.3	29.8	81.6	80.4	78.7	46.6	998.3	220.8	4.986	1.5235	0	0	
04-08-24	18:00:00	30.2	29.2	28.7	85.7	83.7	81	10.9	998.5	216	7.5621	1.3296	0	0	
04-08-24	19:00:00	29.2	28.9	28.6	87.6	86.1	84.3	0.3	998.6	205.8	2.3822	0.6094	0	0	
04-08-24	20:00:00	29.1	28.8	28.5	88.6	87.8	87.1	0	999.2	227.5	4.2381	1.1634	0	0	
04-08-24	21:00:00	28.9	28.4	27.9	91.1	90.1	88.2	0	999.7	206.8	3.324	1.2188	0	0	
04-08-24	22:00:00	28.5	28.2	27.9	91	90.2	88.8	0	1000.2	220.9	4.0442	1.0803	0	0	
04-08-24	23:00:00	28.6	28.3	28	89	87.3	86	0	1000.7	228.5	5.54	1.662	0	0	
05-08-24	0:00:00	28.5	28.1	27.8	87.8	87.1	86.2	0	1000.7	229.4	5.9001	1.8559	0.3601	0	
05-08-24	1:00:00	28.4	28.1	27.8	87.7	86.7	86	0	999.6	225.2	7.3682	1.9667	0.1662	0	
05-08-24	2:00:00	28.3	28	27.5	88.2	86.4	85.8	0	999.4	232.9	7.0081	1.8559	0	0	
05-08-24	3:00:00	27.9	27.1	26.5	93.1	91.2	88.1	0	999.8	221.8	6.4541	1.6897	0.1662	0	
05-08-24	4:00:00	27.1	26.7	26.3	93.2	92.5	91.6	0	999.1	226.1	5.7062	1.3296	0	0	
05-08-24	5:00:00	27.3	27	26.7	91.9	91.3	90.4	0	999.3	218.2	3.878	1.108	0	0	
05-08-24	6:00:00	27.5	27.2	26.9	90.6	88.2	87.4	0	999.2	232.3	6.648	1.5789	0	0	
05-08-24	7:00:00	27.5	27.2	26.9	89.1	88.6	87.5	0.4	1000	224.2	5.1522	1.3296	0	0	
05-08-24	8:00:00	28.1	27.7	27.1	89.1	88.2	87.4	13.9	1001.1	228.5	4.5982	1.3573	0	0	
05-08-24	9:00:00	29	28.7	27.7	87.6	85.1	84.8	46.2	1002.9	234.2	5.3461	1.4958	0	0	
05-08-24	10:00:00	29.5	29.1	28.5	85	83.4	82.5	56	1003	233	4.986	1.662	0	0	
05-08-24	11:00:00	32	30.6	29.2	82.7	77.2	70.8	182.3	1003.2	237.2	7.756	2.216	0.3601	0	
05-08-24	12:00:00	32	31.5	31	73.7	71.9	69.8	149.8	1003.6	234.1	7.756	2.2991	0.3601	0	
05-08-24	13:00:00	32.7	30.9	29.1	83.8	75.9	68.5	145.8	1003	241.9	7.5621	2.1052	0.1662	1	
05-08-24	14:00:00	32.4	31.6	30	80.6	74.5	70	191.4	1002.7	238.2	7.756	1.9944	0.1662	0	
05-08-24	15:00:00	32.7	30.3	28.5	87.4	80.5	69.6	153.2	1001.8	216.8	7.756	1.9944	0	0	
05-08-24	16:00:00	32.4	31.3	30.4	81.5	74.8	70.2	158.7	1001.6	221.6	8.4762	2.4653	0.9141	0	
05-08-24	17:00:00	31.5	30.9	30.2	78.5	75.5	71.7	73.5	1000.9	228.4	6.2602	1.8559	0.1662	0	

Ghogha station															
DATE	TIME	AT_Max	AT_Avg	AT_Min	RH_Max	RH_Avg	RH_Min	SOLAR	BP	WD	WS_Max	WS_Avg	WS_Min	RAIN	
DD/MM/YY	HH:MM:SS	DegC	DegC	DegC	%	%	%	W/m2	mbar	Deg	m/s	m/s	m/s	mm	
05-08-24	18:00:00	31	30.3	29.8	79.8	74.4	69.6	40.5	1000.4	219.8	9.2241	2.2437	0.9141	0	
05-08-24	19:00:00	30.2	29.5	28.8	84.2	80.6	77.9	4.4	1000.6	230.7	5.7062	1.8005	0.3601	0	
05-08-24	20:00:00	29.5	29	28.6	82.3	81.1	79.5	0	1001.2	226.3	4.986	1.4958	0	0	
05-08-24	21:00:00	28.9	28.5	28.1	84.2	83.4	82.1	0	1001.9	225.8	4.2381	1.2742	0	0	
05-08-24	22:00:00	28.5	28.2	27.9	84.2	83.3	82.7	0	1002.3	211.6	4.986	1.4681	0.1662	0	
05-08-24	23:00:00	28.4	28.1	27.8	85.8	85	83.8	0	1002.9	226.1	4.7921	1.3573	0	0	
06-08-24	0:00:00	28.4	28	27.4	85	82.9	81.8	0	1003	224.9	4.986	1.2742	0	0	
06-08-24	1:00:00	27.8	27.4	27.2	86.7	86.1	84.8	0	1002.7	230.9	3.324	0.8864	0	0	
06-08-24	2:00:00	27.9	27.5	27.3	86.3	85.5	85.1	0	1002.3	227.7	2.9362	0.6648	0	0	
06-08-24	3:00:00	27.7	27.4	27.1	86.4	86	85.6	0	1001.9	226.9	2.77	0.7479	0	0	
06-08-24	4:00:00	27.6	27.3	26.9	86.5	85.8	85.4	0	1001.6	221	3.324	1.108	0	0	
06-08-24	5:00:00	27.3	27.1	26.7	87.1	86.8	86.3	0	1001.1	203.7	4.2381	1.2188	0	0	
06-08-24	6:00:00	27.3	26.8	26.3	90.2	88.3	86.8	0	1001	216.6	3.324	0.9695	0	0	
06-08-24	7:00:00	27.1	26.6	26.3	91.1	90.5	89.9	2.3	1001.2	210.4	3.6841	0.9695	0	0	
06-08-24	8:00:00	28.7	27.8	26.9	90.1	86.2	82.1	33.8	1002	240.4	6.8142	1.6897	0	0	
06-08-24	9:00:00	30.8	30.3	30	72.5	71.6	70.5	155.3	1002.8	235.4	7.5621	2.5484	0.9141	0	
06-08-24	10:00:00	31.8	31.2	30.4	72.1	69.2	65.7	212.8	1003.6	242.5	10.8861	2.9639	0.7202	0	
06-08-24	11:00:00	31.8	31.1	30.1	70.3	68.2	65.7	139.7	1003.7	248.8	9.7781	2.7423	0.9141	0	
06-08-24	12:00:00	30.9	29.6	28	82.9	75.2	69.3	92.6	1003.3	249.5	7.9222	1.8005	0	0	
06-08-24	13:00:00	32.6	30.8	28.6	80.3	71.8	64.3	161.3	1003.5	237.6	7.0081	1.5235	0	0	
06-08-24	14:00:00	30.6	28.3	26.9	90	85.2	72.1	145	1002.3	246.2	9.418	1.4127	0	2.5	
06-08-24	15:00:00	32.2	30.9	29.2	79.3	73.1	66.4	180.2	1002.6	230.6	5.54	1.4958	0	0	
06-08-24	16:00:00	31.8	28.9	26.7	87.8	80.6	69.3	95.7	1001.3	241.2	8.1161	2.0498	0.3601	1.5	
06-08-24	17:00:00	30.8	30.1	29.2	83	80.8	78.7	72	1000.9	227.4	3.6841	1.1357	0	0	
06-08-24	18:00:00	31.4	30.8	30.4	79.1	75.9	73.2	83	1000.9	225.2	5.54	1.4127	0	0	
06-08-24	19:00:00	30.7	29.8	28.9	84.5	81.7	77.3	21.5	1000.3	202	4.432	1.6343	0	0	

Ghogha station															
DATE	TIME	AT_Max	AT_Avg	AT_Min	RH_Max	RH_Avg	RH_Min	SOLAR	BP	WD	WS_Max	WS_Avg	WS_Min	RAIN	
DD/MM/YY	HH:MM:SS	DegC	DegC	DegC	%	%	%	W/m2	mbar	Deg	m/s	m/s	m/s	mm	
06-08-24	20:00:00	29.3	28.8	28.3	86.7	85.2	84.3	0	1000.8	206.2	3.324	1.3019	0	0	
06-08-24	21:00:00	28.8	28.4	28	87.8	87.1	85.4	0	1001.7	232	2.3822	0.4709	0	0	
06-08-24	22:00:00	28.5	28.1	27.6	85.9	83.5	82	0	1002.2	238	2.3822	0.3324	0	0	
06-08-24	23:00:00	28.1	27.7	27.3	86.1	85.4	84.7	0	1002.9	212.4	2.216	0.4155	0	0	
07-08-24	0:00:00	27.7	27.4	27.1	88.2	87	85.7	0	1002.5	213.9	2.9362	0.9695	0	0	
07-08-24	1:00:00	27.5	27.3	26.9	89.5	88.9	88	0	1002.3	224.5	3.878	1.1357	0	0	
07-08-24	2:00:00	27.8	27.4	27.1	89.5	88.1	87.1	0	1001.8	236.4	5.7062	1.6343	0.1662	0	
07-08-24	3:00:00	28	27.7	27.4	87.5	87.2	86.8	0	1001.6	232.8	6.2602	1.9113	0.1662	0	
07-08-24	4:00:00	27.9	27.6	27.1	87.1	86.4	85.8	0	1001.4	235.5	5.1522	1.4681	0	0	
07-08-24	5:00:00	27.7	27.4	27.1	86.6	86	85.6	0	1001.5	235.1	4.2381	1.2742	0	0	
07-08-24	6:00:00	27.6	27.3	27	87.9	87.1	86.3	0	1000.9	231.6	4.2381	1.385	0	0	
07-08-24	7:00:00	27.6	27.3	27	88.7	88.2	87.6	2.2	1001.7	232.3	3.4902	1.2742	0	0	
07-08-24	8:00:00	28.3	27.8	27.3	88.5	87	85.1	26.6	1002.6	235.2	4.7921	1.4127	0	0	
07-08-24	9:00:00	29.6	29.3	27.9	85.3	80.5	79.9	92.4	1004	236.8	5.1522	1.7728	0	0	
07-08-24	10:00:00	31.3	30.3	29.2	80.4	75.9	72.3	148.4	1004.2	239.3	5.9001	1.8005	0.1662	0	
07-08-24	11:00:00	32.8	32	31	72.4	67.7	64.4	205.5	1004.8	248.9	6.2602	1.8005	0	0	
07-08-24	12:00:00	33	32.3	31.6	67.9	65.3	62.7	207.5	1004.4	254.9	8.6701	2.1883	0.554	0	
07-08-24	13:00:00	34	32.6	31.8	64.3	61.5	58.8	221.9	1004	261.5	8.864	1.9944	0.554	0	
07-08-24	14:00:00	34.3	33.4	32.6	62.8	59.4	56.7	237.1	1003.5	250	7.202	2.2714	0.554	0	
07-08-24	15:00:00	33.7	32.5	27.8	79.1	61.7	58.3	142	1002.8	249.3	6.648	1.9113	0.554	1.5	
07-08-24	16:00:00	33.2	31	27.4	85	74.4	61.9	273.1	1002.2	263.5	9.2241	1.4958	0	1	
07-08-24	17:00:00	33.4	32.5	31.7	63.9	61.3	58.5	177.4	1002.2	254.1	8.1161	2.2437	0.7202	0	
07-08-24	18:00:00	32	31.6	31.2	67.5	65.9	63.2	58.3	1001.8	245.5	7.3682	2.1329	0.3601	0	
07-08-24	19:00:00	31.6	30.8	30.2	71.2	69.4	66.6	14.8	1002	235.6	4.7921	1.7728	0.554	0	
07-08-24	20:00:00	30.5	30	29.3	76	73.1	70.8	0	1002.4	214.1	5.9001	1.5789	0.3601	0	
07-08-24	21:00:00	29.8	29.2	28.7	79.1	78	75.8	0	1002.9	220.3	4.432	1.5235	0.3601	0	

Ghogha station															
DATE	TIME	AT_Max	AT_Avg	AT_Min	RH_Max	RH_Avg	RH_Min	SOLAR	BP	WD	WS_Max	WS_Avg	WS_Min	RAIN	
DD/MM/YY	HH:MM:SS	DegC	DegC	DegC	%	%	%	W/m2	mbar	Deg	m/s	m/s	m/s	mm	
07-08-24	22:00:00	29.2	28.8	28.4	80.2	79.4	78.5	0	1003.3	228.8	4.5982	1.5789	0.1662	0	
07-08-24	23:00:00	29	28.6	28.2	80	79.4	78.7	0	1003.7	239.5	8.864	2.2714	0.554	0	
08-08-24	0:00:00	28.7	28.3	27.9	81.8	80.9	79.6	0	1003.7	236.7	8.1161	2.1052	0.1662	0	
08-08-24	1:00:00	28.5	28.2	27.9	80.6	80	79.3	0	1003.6	243.5	7.9222	2.0498	0.3601	0	
08-08-24	2:00:00	28.5	28.2	27.8	80.6	80	79.7	0	1003.1	243.9	7.202	2.2991	0.554	0	
08-08-24	3:00:00	28.4	28	27.8	80.7	80.3	79.9	0	1002.3	241.3	7.3682	2.2714	0.7202	0	
08-08-24	4:00:00	28.2	27.7	27.3	85	83.1	80.4	0	1001.9	235.1	5.7062	1.939	0.3601	0	
08-08-24	5:00:00	27.7	27.4	27.1	86.4	85.6	84.6	0	1001.9	233.8	4.2381	1.5235	0	0	
08-08-24	6:00:00	27.9	27.6	27.3	86.4	85.8	85.3	0	1001.8	235.9	5.1522	1.6066	0	0	
08-08-24	7:00:00	27.9	27.5	27.1	87.1	86.5	85.9	1	1002.3	240.4	4.432	1.4404	0	0	
08-08-24	8:00:00	28.5	28	27.5	86.2	84.7	83.3	19.6	1003.3	221.8	3.324	0.9695	0	0	
08-08-24	9:00:00	30.1	29.6	28	83.6	78.4	76.4	119.4	1005.2	236.7	4.5982	1.8559	0	0	
08-08-24	10:00:00	32.1	31.2	30	76.6	70.3	67	188.1	1005.4	243.6	7.0081	2.0221	0.1662	0	
08-08-24	11:00:00	32.6	32	31.4	68.1	65.7	63.6	201.5	1005.6	245.4	8.6701	2.1329	0.3601	0	
08-08-24	12:00:00	34.2	32.9	32.2	65.5	62.3	56.7	224.5	1005.5	249.7	4.7921	1.6897	0.1662	0	
08-08-24	13:00:00	34	33.3	32.5	62.6	59.5	56	163.1	1005	247	5.9001	1.7174	0.1662	0	
08-08-24	14:00:00	35.1	34.1	33.2	58.9	55.9	51.9	226.7	1004.5	242.7	5.7062	1.9944	0.1662	0	
08-08-24	15:00:00	34.6	33.9	33.3	60	56.4	52.9	159.6	1003.7	241.9	6.4541	1.8559	0.3601	0	
08-08-24	16:00:00	34.2	33.3	32.4	64	59.9	56.6	156	1003.2	243	8.31	2.3822	0.3601	0	
08-08-24	17:00:00	32.8	32.2	31.7	64.5	62.6	59.4	106.9	1002.6	242.4	8.4762	2.4653	0.7202	0	
08-08-24	18:00:00	32.3	31.7	31	68.2	63.4	60.1	45.4	1002.5	239.5	7.202	2.2991	0.554	0	
08-08-24	19:00:00	31.5	31	30.6	69.9	68.8	67.4	12.2	1002.4	236.2	7.3682	2.2437	0.554	0	
08-08-24	20:00:00	31	30.5	30	73.2	71.5	69.4	0	1002.9	228.7	6.2602	1.662	0.1662	0	
08-08-24	21:00:00	30.4	29.9	29.2	79.8	76.9	72	0	1003.3	218.3	7.0081	1.8282	0.7202	0	
08-08-24	22:00:00	29.6	29.1	28.6	82.2	80.8	79.4	0	1003.7	230	7.5621	2.216	0.3601	0	
08-08-24	23:00:00	29	28.6	28.3	83.4	82.7	81.9	0	1004.4	224.2	5.3461	1.8559	0.554	0	

Ghogha station															
DATE	TIME	AT_Max	AT_Avg	AT_Min	RH_Max	RH_Avg	RH_Min	SOLAR	BP	WD	WS_Max	WS_Avg	WS_Min	RAIN	
DD/MM/YY	HH:MM:SS	DegC	DegC	DegC	%	%	%	W/m2	mbar	Deg	m/s	m/s	m/s	mm	
09-08-24	0:00:00	28.7	28.4	28	84.4	83.8	83.1	0	1004.4	224.4	4.986	1.662	0.1662	0	
09-08-24	1:00:00	28.5	28.2	27.8	84	83.1	82.7	0	1004	233.2	4.986	1.4681	0	0	
09-08-24	2:00:00	28.3	27.9	27.6	85	84.3	83.3	0	1003.7	241.1	3.6841	1.1634	0	0	
09-08-24	3:00:00	28	27.7	27.3	87.1	85.8	84.7	0	1003.3	233.7	2.3822	0.6648	0	0	
09-08-24	4:00:00	27.6	27.4	27.1	88.8	87.7	86.8	0	1003	234.1	2.77	0.7202	0	0	
09-08-24	5:00:00	27.5	27.2	26.9	89.3	88.9	88.5	0	1002.6	243.9	2.216	0.4155	0	0	
09-08-24	6:00:00	27.8	27.4	27.1	89.1	88.3	87.8	0	1003	240.1	2.77	0.6925	0	0	
09-08-24	7:00:00	27.9	27.5	27.1	88.9	88.5	88.1	0.8	1003.5	233.2	2.77	0.4709	0	0	
09-08-24	8:00:00	29.1	28.3	27.6	88.5	86.1	82.6	26.9	1004.5	242.6	2.216	0.1939	0	0	
09-08-24	9:00:00	30.8	29.7	28.7	82.9	77.9	73.4	68.1	1005.6	248.2	4.5982	0.8864	0	0	
09-08-24	10:00:00	32.7	32.2	30.4	74.7	67.6	65.7	172.1	1007.4	244.2	4.5982	1.2465	0	0	
09-08-24	11:00:00	33.9	33	31.8	68.1	64.1	60.7	194.4	1007.2	243.1	4.432	1.1357	0	0	
09-08-24	12:00:00	33.9	33.1	32.4	64.9	62.9	59.6	233.6	1007	243.1	5.7062	1.8559	0.1662	0	
09-08-24	13:00:00	35.2	34.3	33.2	62.4	58.2	53.8	288.3	1006.8	245.4	6.648	1.8005	0.1662	0	
09-08-24	14:00:00	35.4	33.8	32.3	64.9	59.7	53.8	126.6	1005.8	249.5	7.202	0.8864	0	0	
09-08-24	15:00:00	36	35	33.7	58.2	54.1	50.5	273	1005.4	242.6	7.3682	1.939	0	0	
09-08-24	16:00:00	36.4	34.9	32.4	68.3	54.8	48.4	241.3	1004.9	215	8.6701	1.8836	0	0	
09-08-24	17:00:00	34.6	33.4	32.4	71.5	62	53.1	105.9	1003.9	225.5	6.4541	1.939	0.3601	0	
09-08-24	18:00:00	33.9	33.4	32.9	57.4	56.1	54.5	51.2	1003.8	240.8	6.4541	1.9944	0.3601	0	
09-08-24	19:00:00	33.3	32.6	31.8	61.2	59.2	56.8	8.2	1004	243.5	4.2381	1.5789	0	0	
09-08-24	20:00:00	32.4	31.7	31.2	63.5	61.2	59.8	0	1004.8	249.4	4.986	1.4404	0.1662	0	
09-08-24	21:00:00	31.5	31.1	30.6	64.7	63.4	62.3	0	1005.2	248.9	6.094	1.4958	0.3601	0	
09-08-24	22:00:00	31	30.3	29.8	70.6	67.3	63.7	0	1005.5	242.8	5.7062	1.2465	0	0	
09-08-24	23:00:00	30.1	29.4	28.6	76.4	73.3	70.2	0	1005.4	239.1	2.3822	0.5817	0	0	
10-08-24	0:00:00	29	28.7	28.3	78.2	77	76.2	0	1005.2	236.7	1.4681	0.277	0	0	
10-08-24	1:00:00	29	28.6	28.3	78.9	78.2	77.6	0	1004.9	239	2.0221	0.4432	0	0	

Ghogha station															
DATE	TIME	AT_Max	AT_Avg	AT_Min	RH_Max	RH_Avg	RH_Min	SOLAR	BP	WD	WS_Max	WS_Avg	WS_Min	RAIN	
DD/MM/YY	HH:MM:SS	DegC	DegC	DegC	%	%	%	W/m2	mbar	Deg	m/s	m/s	m/s	mm	
10-08-24	2:00:00	28.8	28.4	28	80.3	79.7	78.6	0	1004.3	238.3	2.216	0.6925	0	0	
10-08-24	3:00:00	28.4	28	27.5	84.1	82.3	80	0	1003.6	208.9	3.324	0.6371	0	0	
10-08-24	4:00:00	28	27.8	27.5	84.5	83.9	82.7	0	1003.3	215.7	2.5761	0.6925	0	0	
10-08-24	5:00:00	27.9	27.7	27.4	84.1	83.1	82.4	0	1003.4	235.4	2.5761	0.6648	0	0	
10-08-24	6:00:00	27.8	27.5	27.3	84.8	84.3	83.9	0	1003.5	220.4	2.5761	0.6648	0	0	
10-08-24	7:00:00	27.8	27.5	27.2	86	85.4	84.4	1.2	1004.1	226.9	2.77	0.6925	0	0	
10-08-24	8:00:00	28.9	28	27.4	86.1	84.3	81.5	28.7	1004.9	226.8	4.2381	0.9418	0	0	
10-08-24	9:00:00	30	29.5	28.6	81.7	78	76.1	74.9	1005.6	231.2	4.2381	1.1634	0	0	
10-08-24	10:00:00	30.6	30.1	29.6	77	74.7	71.9	84.3	1006.3	240.5	5.54	1.4127	0	0	
10-08-24	11:00:00	32.4	31	30.2	73.2	70.6	66.2	151.7	1006.6	240.3	5.9001	1.6066	0.1662	0	
10-08-24	12:00:00	33.4	30.5	26.9	90.2	72.6	61.7	103.8	1006.2	253.5	7.3682	1.5512	0	10.5	
10-08-24	13:00:00	27.3	27	26.7	91.8	90.8	89.7	39.3	1005.1	251.9	8.31	1.8282	0.1662	4	
10-08-24	14:00:00	27.4	27.1	26.8	91.5	90.8	90	42.8	1004.6	242.4	4.2381	0.8033	0	1	
10-08-24	15:00:00	28.2	27.4	26.9	92.5	91.6	90.6	70.7	1003.8	232.3	4.432	0.7479	0	1	
10-08-24	16:00:00	29.3	28.8	27.9	91.1	87	84.5	136.3	1003.4	213.6	4.2381	0.9141	0	0	
10-08-24	17:00:00	30.4	29.9	29	85.4	82.4	80.5	91.9	1003.3	202.3	4.0442	0.8033	0	0	
10-08-24	18:00:00	29.8	29.5	29.2	84.9	84	83.1	56.4	1002.6	202.4	4.7921	1.3019	0	0	
10-08-24	19:00:00	29.8	29.4	28.9	85.2	83.7	82.3	6.8	1002.8	229.1	2.9362	0.6094	0	0	
10-08-24	20:00:00	29.5	29	28.6	86.5	81.8	76.3	0	1003.3	239.2	4.5982	1.0803	0	0	
10-08-24	21:00:00	29.3	28.7	28.2	81.8	79.8	77.2	0	1003.7	239.3	3.4902	0.7479	0	0	
10-08-24	22:00:00	29.2	28.9	28.5	79.2	75.8	73.8	0	1003.9	245.4	7.0081	1.4127	0	0	
10-08-24	23:00:00	29	28.6	28.1	77.4	75.6	73.9	0	1004.7	245.2	4.2381	1.1634	0	0	
11-08-24	0:00:00	28.5	27.9	27.3	82.3	79.8	77.2	0	1004.4	234.4	2.3822	0.4986	0	0	
11-08-24	1:00:00	28	27.7	27.3	81.6	80.7	80	0	1003.6	235.2	3.4902	0.8033	0	0	
11-08-24	2:00:00	27.6	27.1	26.6	87.4	84.8	81.3	0	1002.9	199.1	2.3822	0.6925	0	0	
11-08-24	3:00:00	27	26.6	26.2	89.8	89	87.2	0	1002.1	203.6	3.324	0.8033	0	0	

Ghogha station															
DATE	TIME	AT_Max	AT_Avg	AT_Min	RH_Max	RH_Avg	RH_Min	SOLAR	BP	WD	WS_Max	WS_Avg	WS_Min	RAIN	
DD/MM/YY	HH:MM:SS	DegC	DegC	DegC	%	%	%	W/m2	mbar	Deg	m/s	m/s	m/s	mm	
11-08-24	4:00:00	26.9	26.7	26.3	90.7	90	89.5	0	1002	192.2	2.5761	0.7202	0	0	
11-08-24	5:00:00	27.3	26.8	26.5	90.7	90.2	89.7	0	1001.9	209.3	2.9362	0.8587	0	0	
11-08-24	6:00:00	27.3	26.9	26.7	90.4	90	89.5	0	1001.9	223.4	3.4902	0.9418	0	0	
11-08-24	7:00:00	27.6	27.2	26.9	90	89.1	87.9	0	1002.3	228.4	4.7921	1.385	0	0	
11-08-24	8:00:00	28.4	27.7	27.3	88.1	86.4	84.6	19.4	1003	241.7	7.0081	1.7728	0	0	
11-08-24	9:00:00	28.9	28.5	28	84.8	83.2	81.6	54.9	1003.7	235	7.202	2.2714	0.554	0	
11-08-24	10:00:00	30	29.2	28.3	83.9	80.8	78.2	113.7	1004.2	231.7	8.31	2.1606	0.554	0	
11-08-24	11:00:00	32.3	31.1	29.7	78.7	71.4	66.2	201.2	1004.9	238.6	9.2241	2.3268	0.554	0	
11-08-24	12:00:00	33.4	32.4	31.4	68.9	64.8	60.2	210.7	1004.8	244.2	8.6701	2.216	0.3601	0	
11-08-24	13:00:00	33.5	32.4	30.8	74.5	64.8	58.3	179.3	1004	242	7.756	1.8559	0	0	
11-08-24	14:00:00	33.6	30.7	28.4	83.6	73.4	63.2	195.2	1002.6	247.3	9.7781	1.2465	0	0.5	
11-08-24	15:00:00	34.8	33.7	32.8	68.1	61.1	54.9	193.1	1002.7	266.7	5.54	0.6094	0	0	
11-08-24	16:00:00	34.2	31.9	30.3	80.8	71	59.5	137.6	1001.7	208.4	6.094	1.5789	0.1662	0	
11-08-24	17:00:00	32.6	31.5	30.2	83	71.4	61.2	93.6	1000.9	247	6.2602	0.9695	0	0	
11-08-24	18:00:00	32.2	31.5	30.8	68.7	64.4	62.2	36.5	1000.7	251.3	5.7062	1.4127	0	0	
11-08-24	19:00:00	31.2	30.4	29.6	74.9	69.7	65	0.2	1000.8	245.4	7.5621	1.0803	0	0	
11-08-24	20:00:00	30.1	29.7	29.4	80.6	78	74.7	0	1001.4	231.7	2.3822	0.4986	0	0	
11-08-24	21:00:00	29.9	29.4	28.7	76.7	72.9	70.8	0	1001.6	241.6	3.6841	0.9418	0	0	
11-08-24	22:00:00	29.1	28.3	27.7	80	78.1	74	0	1001.9	240.5	1.2742	0.1662	0	0	
11-08-24	23:00:00	28.2	28	27.6	84.9	82.4	79.7	0	1002	201.6	1.4681	0.0831	0	0	
12-08-24	0:00:00	28.2	27.8	27.6	85.4	85	84.7	0	1002	199.6	1.662	0.0831	0	0	
12-08-24	1:00:00	28.1	27.8	27.4	84.9	84.3	83.7	0	1001.5	194	2.3822	0.7756	0	0	
12-08-24	2:00:00	28.2	27.8	27.5	84.4	83.8	83	0	1000.9	229.6	4.2381	0.8033	0	0	
12-08-24	3:00:00	28.1	27.9	27.5	85.8	84.9	83.5	0	1001.3	199.7	2.3822	0.4155	0	0	
12-08-24	4:00:00	28	27.8	27.5	86.4	86	85.5	0	1001	240	3.1301	0.6371	0	0	
12-08-24	5:00:00	28	27.4	26.9	91.2	88.2	85.4	0	1001.3	248	3.6841	0.4709	0	0.5	

Ghogha station															
DATE	TIME	AT_Max	AT_Avg	AT_Min	RH_Max	RH_Avg	RH_Min	SOLAR	BP	WD	WS_Max	WS_Avg	WS_Min	RAIN	
DD/MM/YY	HH:MM:SS	DegC	DegC	DegC	%	%	%	W/m2	mbar	Deg	m/s	m/s	m/s	mm	
12-08-24	6:00:00	27.4	27.1	26.9	93.3	92.4	91	0	1001.3	185.4	1.662	0.1662	0	0	
12-08-24	7:00:00	27.6	27.2	26.9	93.6	93.3	92.9	3	1001.6	216.2	2.77	0.3601	0	0	
12-08-24	8:00:00	28.6	27.9	27.3	93.1	90.5	86.4	24.8	1002.5	226.9	6.094	1.4127	0	0	
12-08-24	9:00:00	29.2	29	28.1	86.7	82.8	82.3	29.4	1004	233.2	5.7062	1.0803	0	0	
12-08-24	10:00:00	30	29	28.4	83.5	81.8	78.6	71.9	1004.1	231.1	5.3461	1.6066	0	0	
12-08-24	11:00:00	30.2	29.1	27.3	86.6	81.6	77.9	100.7	1004.2	249.3	6.2602	1.108	0	0.5	
12-08-24	12:00:00	29.7	28.7	27.5	87.1	85.1	81.9	104.5	1004.1	210.7	3.6841	0.6648	0	0.5	
12-08-24	13:00:00	30.1	29.5	28.1	86.4	81	78.9	97.3	1003.8	232.4	5.3461	1.3019	0	3	
12-08-24	14:00:00	28.5	28	27.4	90.6	89	86.2	42.4	1002.9	334	5.9001	0.9972	0	3	
12-08-24	15:00:00	29.7	28.7	27.6	88.9	87.4	84.4	57.3	1002.6	319.4	2.3822	0.0554	0	0.5	
12-08-24	16:00:00	29.4	28.3	27.5	89	87.9	85	49.2	1001.8	130.4	4.2381	0.5263	0	0.5	
12-08-24	17:00:00	28.5	28.2	27.6	89.9	89.1	88.5	6.4	1001.5	161.8	2.5761	0.3047	0	0	
12-08-24	18:00:00	28.4	28.2	27.7	90.4	89.8	88.9	3.8	1001.4	206.3	1.8282	0.1939	0	0	
12-08-24	19:00:00	28.4	28	27.7	89.5	88.9	88.5	0	1001.6	266.5	2.0221	0.277	0	0	
12-08-24	20:00:00	28.3	27.9	27.5	90.8	89.6	88.6	0	1001.8	252.6	0.7202	0	0	0	
12-08-24	21:00:00	28.2	27.9	27.5	91.1	89.9	88.9	0	1002.4	229.7	2.0221	0.1385	0	0	
12-08-24	22:00:00	28.2	27.9	27.6	90.8	89.9	88.7	0	1003.3	230.6	2.0221	0.2216	0	0	
12-08-24	23:00:00	28.2	27.9	27.4	90.6	89.5	88.6	0	1003.5	254.3	1.2742	0	0	0	



## Gujarat Environment Management Institute (GEMI)

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