



ENVIRONMENTAL REPORT

COMPANY:
MADERERA RIO ACRE SAC



Environmental
Report

2025



Environmental Report prepared



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CALLAO / CALLAO / CALLAO.

I. GENERALITIES

1.1. PRESENTATION

Maderera Rio Acre SAC (hereinafter Maderacre) has an industrial wood processing facility located at km 227 of the Southern Interoceanic Highway, Puerto Maldonado section, Iñapari district, Tahuamanu province and Madre de Dios department, in compliance with current environmental regulations, has processed and obtained the licenses required by law.

The company has three environmental management instruments (IGA) approved environmental studies, which are

- Environmental Adequacy Declaration, which was approved by Directorial Resolution No. 00151-2021- PRODUCE/DGAAMI dated March 15, 2021.
- Sustaining Technical Report approved with Directorial Resolution No. 00360-2022-PRODUCE/DGAAMI, which establishes the environmental commitments assumed by the company, compliance with which is presented below in this report.
- Technical Support Report (ITS) for the "Implementation of 2 water wells for industrial and domestic use", which was approved under Directorial Resolution No. 00026-2024-PRODUCE / DGAAMI dated January 16, 2024.

1.2. OBJECTIVE

1.2.1. General Objective

Comply with the commitments established in the corresponding environmental regulations.

1.2.2. Specific Objectives

- Submit a report on compliance with measures to prevent, mitigate, or correct the identified environmental impacts.
- Submit the Monitoring and Control Plan report
- Evaluate the results of environmental noise
- Evaluate air quality results
- Evaluate flora results
- Evaluate the results of fauna

1.3. LEGAL FRAMEWORK

The legal basis for this environmental monitoring report is based on the DS No. 017-2015-PRODUCE¹ applicable to the activity of production and internal trade, at the same time there are environmental standards for comparison (Standards, maximum permissible limits) that are detailed below.

Article 62, Environmental Report of Chapter V, of the same name, states the following: “62.1 The owner must submit the Environmental Report to the supervisory body, reporting the results of the monitoring, follow-up and control actions and the progress of the commitments assumed in the approved environmental management instrument.

62.2 The Environmental Report must be submitted according to the formats approved by the supervisory body, considering the obligations and commitments contained in the approved environmental management instrument. If the supervisory body identifies the need to modify the deadlines for any aspect of the Environmental Report, it must notify the competent authority for the corresponding modification.

Table I-1 Current Environmental Standards by Component.

Environmental Component	Applicable Legal Framework	Standard and publication date
Air Quality	Environmental Quality Standards for Air	DS N° 003-2017-MINAM (06-07-2017)
Emissions Soft drinks	World Bank International Finance Corporation. General Environmental Guidelines (01-07-98) / (30-04-2007)	IFC/WB (01-07-98) / (30-04-2007).
	Air Quality and Control Regulations Air Pollution.	Decree No. 638 / 1995 (Venezuela)
Ambient Noise	Regulation of National Environmental Quality Standards for Noise.	DS N° 085-2003-PCM (10-30-2003)
Fauna	Wildlife Inventory Guide	RM057-2015-MINAM
Flora	Flora and Vegetation Inventory Guide	RM059-2015-MINAM

¹DS No. 017-2015-PRODUCE - Approves the Environmental Management Regulations for the Manufacturing Industry and Internal Trade.

II. GENERAL INFORMATION:

2.1. COMPANY GENERALS.

Below is information on the company's corporate name.

Table II-1: General company data - Maderacre

Company name	Rio Acre Lumber SAC
RUC	20527030421
HomeLegal	Seventh Street No. 229 - La Rinconada Baja Urbanization
District	The Molina
Province	Lime
Department	Lime
Phone	975376621
Email	framos@maderacre.com
Legal Representative	Wong Lu Vega, Erasmo Jesús
Proxy	Nelson Nilton Kroll Kohel

2.2. GENERAL DATA OF THE PRODUCTION UNIT.

The data regarding the location of MADERACRE are described in the following table.

Table II-2: General data of the establishment

Location of the property	km 227 of the Southern Interoceanic Highway, Puerto Maldonado section
District	Iñapari
Province	Tahuamanu
Department	Mother of God
Productive Category	ISIC: 1610
Environmental Management Instruments	DAA: Directorial Resolution No. 00151-2021-PRODUCE/DGAAMI ITS: Directorial Resolution No. 00360-2022-PRODUCE/DGAAMI ITS: Directorial Resolution No. 00026-2024-PRODUCE/DGAAMI

2.1. DESCRIPTION OF ACTIVITIES.

Sawing:It pre-dimensions the thickness of products using longitudinal cuts, which can be radial or tangential, transforming the logs into planks and using techniques that maximize their efficiency. Vertical band saws are used for these cutting tasks.

Edging:It measures the width of products by longitudinal cuts, transforming the planks into planks and using techniques that maximize their efficiency. This process uses disc saws mounted on single and multiple groove machines.

Resawing:It performs the final thickness sizing of products by longitudinal cuts, transforming the quarters into boards. The cuts are performed using a smaller vertical bandsaw or horizontal multi-head bandsaws.

Blunt:They measure the length of the products. All defects that are not permitted for subsequent processes are removed. The cuts are crosswise and executed with disc saws. Once the length is defined, its quality is evaluated, determining whether the piece is suitable for drying or sale.

Recovery:This involves sizing the width of the pieces, eliminating any defects that may appear along their length. This results in smaller, and in some cases, lower-quality, products.

Stowed:It consists of stacking pieces of wood already converted into boards using separators, taking into account the segregation of materials by species, size, and quality. This operation generates no waste.

Pre-drying:Once the wood pieces are stacked in piles or bundles, they are taken to the pre-drying yard to be stacked and begin a process of losing moisture in the open air for a period of 30 to 40 days, with the aim of reducing their moisture content to approximately 20 to 28%.

Drying:After pre-drying, the stacked wood is transported to drying chambers for periods ranging from 14 to 21 days, depending on the initial moisture content, dimensions, and the wood species to be dried. Drying programs.

Edging:After drying, the cutting process resumes. During this edging operation, the dried wood pieces are resized in width using two multi-purpose edgebanders to achieve an S2S (edge) finish.

Brushing:Operation in which the final thickness is given to the dry wood pieces, with an S2S finish on the faces, which added to the previous process generates a material with a final S4S finish.

Molding:Operation in which the final E4E finish is given, which can be smooth or grooved on one of the faces.

Blunt:During topping, the pieces are cut to their final length by a cross-section. This also serves to eliminate defects.

Preservation: Waterproofing is applied in two stages of the secondary process: before drying and upon exit from packaging, before becoming the finished product. The activity consists of eliminating and/or reducing the porosity of the wood, sealing the ends and/or tips with the application of paraffin or wax, in order to isolate the product from environmental moisture and prevent cracking in the wood pieces. The product is purchased in 55-gallon cylinders and is applied using a blowtorch connected to a compressed air supply. It should be noted that the owner has specified that the aforementioned input is not hazardous.

Varnishing: The process consists of applying 07 layers of varnish and paint based on aluminum oxide, as an additive to urethane-based varnishes, which provides harder and more durable finishes without its application being visible; however, it is not considered part of the finish itself. On the other hand, it should be noted that the varnishing activity is outsourced to the company Unión Flooring SAC, which is located in the city of Lima. The aforementioned company maintains a current contract with the Maderacre subsidiary, under the corporate name Maderacre Timber SAC. Unión Flooring SAC is responsible for managing the purchase and application of the following supplies for varnishing: UV-curing varnish, transparent plastic, stretch film, transparent plastic, green strapping, white strapping, corner pieces, packing tape, and pallets.

Packaging: Packaging consists of assembling packages of pieces of the same species and sorted by equal lengths and thicknesses, strapping and packing them for transport to the finished product warehouse. Charcoal manufacturing has been in operation since 2014, and residual logs are used to operate these artisanal kilns.

Aerial view of the company's facilities



III. IMPLEMENTATION OF THE ENVIRONMENTAL MANAGEMENT

Below is the table with the formats suggested by the competent authority, corresponding to the implementation schedule of the DAA Environmental Management Plan.

No.	ACTIVITYGENERAL	ACTIVITYSPECIFIC	START DATE	COMPLETION DATE	TOTAL INVESTMENT (S/.)	ACTIONS IMPLEMENTED	INVESTMENT TO DATE (S/.)
Schedule for the implementation of measures to prevent, mitigate, or correct the environmental impacts of the DAA.							
1	Continue with the annual maintenance of the boiler burners preferably before environmental monitoring, in order to reduce impurities accumulated in the chimney and reduce thus the emissions.	Carry out maintenance annual preventive maintenance of the boiler burners.	06/01/2025	01/25/2025	5,000	The company has an annual maintenance program that is periodically reviewed and includes preventive maintenance of the boiler burner and photographs of the process. <u>The following evidence is attached:</u> The company's maintenance program is presented in Annex 8.	27,000
2	Implementation of a smoke purification filter in the boiler, with an efficiency of 90%.	Implement a smoke purifier with 90% efficiency.	04/18/2024	04/19/2024	10,000	A smoke purifier with 90% efficiency was implemented. Likewise, on the dates indicated, monitoring was carried out to corroborate the efficiency of the purifier, which was verified to be at 90%. <u>The following evidence is attached:</u> Annex 9: Report of purifier with 90% efficiency is presented.	10,000
3	Closure of septic tanks and implementation of 05 biodigesters for the treatment of domestic effluents	Permanently close the septic tank and install and start up five biodigesters which must have a maintenance program for their correct operation.	12/02/2025	02/18/2025	4 260	The septic tank was decommissioned and closed, and the five biodigesters were installed and put into operation. <u>The following evidence is attached:</u> Annex 10: A technical maintenance report is presented for the biodigesters.	50,000
4	Implementation of a 5m excavated sludge dewatering pond ³ , lined with geomembrane for use as a soil improver.	Make the sludge drying pond with the mentioned dimensions in the commitment.	07/2021	12/2021	1,000	Geomembrane was used as a waterproofing medium in the construction of the sludge dewatering pond. <u>The following evidence is attached:</u> Annex 11: Photographic evidence of the sludge drying pond is presented.	1,000
5	Posting of informative posters on the care and protection of wildlife.	Post signs visibly indicating the care and protection of wildlife in the facility area.	03/21	06/21	80	Informative signs regarding wildlife care are displayed within the company's area. <u>The following evidence is attached:</u> Annex 12: Photographic record of the installed signs is presented (improvement)	80
6	Training of plant personnel regarding the management and care of potential wildlife species, as well as their conservation status.	Carry out trainingsperiodicals on the subject	07/2021	---	---	Staff training was provided periodically on the following topics. The following evidence is attached: Annex 14: Documents of the training provided to staff are presented.	4,000
7	Prohibit feeding wild species since doing so is "making them wild" and bringing them closer to humans. could put them in danger.	Install signs prohibiting feeding and caring for wildlife, these will be installed within the area of the facility.	03/21	---	---	Prohibition signs were posted within the facility area. <u>The following evidence is attached:</u> Annex 12: A photographic record of the installed signs is presented. (improvement)	---
8	Prohibit the temporary capture, hunting, commercialization, physical damage, retention of wild species, young, eggs, nests or parts of the species, as well as their approach to them.	Post signs prohibiting the capture or harm of wild species.	03/21	---	---	Prohibition signs were posted within the company's facility. The following evidence is attached: Annex 12: A photographic record of the installed signs (improvement) is presented.	---

No.	ACTIVITYGENERAL	ACTIVITYSPECIFIC	START DATE	COMPLETION DATE	TOTAL INVESTMENT (S/.)	ACTIONS IMPLEMENTED	INVESTMENT TO DATE (S/.)
9	Hire the services of an authorized water supplier, subject to availability in the area. As well as the implementation of wellswater	The search for and contracting of an authorized water supply company is subject to the availability of such a company near the facility area.	12/2021	03/2022	5,000	An ITS was generated for the implementation of two water wells for the company's use, thereby fulfilling the proposed commitment for the implementation of said wells. It is also mentioned that this commitment would no longer be valid, because the implementation of water wells has been carried out. <u>The following evidence is attached:</u> Annex No. 3 Directorial Resolution No. 00026-2024-PRODUCEDGAAMI Annex No. 6 Official Letter No. 00003471-2024-PRODUCE/DGAAMI	10,000

Schedule for the implementation of measures to prevent, mitigate or correct environmental impacts

1	During the operation of the artisanal kilns, a visual inspection record will be kept, and if necessary, the beds (artisanal kilns) will be covered with sawdust.	Develop a periodic record of inspections carried out on the ovens handcrafted including the bedswith sawdust.	08/17/22	---	--	There is a Record of charcoal production for artisanal ovens, in which the process followed to carry out the operation is indicated. <u>The following evidence is attached:</u> Annex 13: Coal Production Record	--
2	Constant preventive maintenanceof industrial ovens and their treatment systems (every 15 days).	Develop a preventive maintenance plan for industrial ovens and their treatment system.	08/17/22	---	--	Preventive maintenance is provided for industrial furnaces and their treatment systems. <u>The following evidence is attached:</u> The company's maintenance program is presented in Annex 8.	-

IV. LOCATION OF THE MONITORING POINTS

4.1. Location of monitoring points

Monitoring points² They were located in accordance with the provisions of Annex No. 2 of Directorial Resolution No. 00360-2022-PRODUCE/DGAAMI.

Table IV-1: Monitoring points

Environmental Component	Season	Description/Location	UTM coordinates		Parameters	Frequency
			This	North		
Ambient noise	RA-01	Located behind the warehouse	437 245	8 787 445	Daytime dBA (LAeq)	Annual
	RA-02	Located in a log yard	437 067	8 787 542		
	RA-03	Located next to the tap and workers' housing	437 023	8 787 740		
	RA-04	Located at gate No. 2	436 727	8 787 793		
	RA-05	Located on the access road, at the height of the kiosk	437 221	8 787 769		
	RA-06	Located next to the dining room already housing	437 282	8 787 697		
Air Quality	CA-01 (Windward)	Located next to the industrial oven	437 197	8 787 424	PM-10, CO, SO ₂ and NO ₂	Annual
	CA-02 (Leeward)	Located next to the industrial ovens	437 198	8 787 461		
	CA-03 (Windward)	Located next to the artisanal ovens	436 927	8 787 373		
	CA-04 (Leeward)	located next to the artisanal ovens	436 940	8 787 488		
	EM-1	Cauldron (drying area)	437 148	8 787 439	Carbon monoxide (CO), nitrogen oxides (NO _x), sulfur dioxide (SO ₂), particulate matter	
Flora	T-1	Very close to residents and the interoceanic highway	437 277	8 787 525	Wealth, abundance, Shannon index, Simpson	Annual
	T-2		437 283	8 787 544		
	T-3		437 292	8 787 562		
	T-4		437 304	8 787 581		
	T-5		437 323	8 787 609		
	T-6		437 347	8 787 664		
	T-7		436 926	8 787 718		
	T-8		436 888	8 787 782		
Fauna (birds, mammals, amphibians and reptiles)	P1	Very close to residents and the interoceanic highway	436 949	8 787 695	Wealth, abundance, Shannon index, Simpson	Annual
	P2		434 326	8 787 577		
	P3		436 798	8 787 804		
	P4		437 056	8 787 261		

²Annex No. 2. ITS approval letter.

LOCATION PLAN OF MONITORING POINTS



V. AIR QUALITY MONITORING

5.1. Specific objectives

- Determine the concentration of Particles Smaller than 10 microns (PM₁₀), Nitrogen Dioxide (NO₂), Carbon Monoxide (CO) and Sulfur Dioxide (SO₂), in four Air Quality monitoring points located atwindward and leeward of the facility.
- Compare the results with the values established in the Environmental Quality Standards for Air determined in DS No. 003-2017-MINAM.

5.2. Sampling Methodology

The sampling and analysis methodology was carried out taking into account the "Air Quality Monitoring and Data Management Protocol" prepared by DIGESA, which establishes the sampling methodology.

A. Suspended Particles

- Methodology for Particulate Matter

For the determination of PM₁₀, a high-volume (Hi-Vol) sampler was used that draws air from the environment, at a constant flow (1.3 to 1.7 m³/min), into a specially shaped hole where the suspended particulate material is inertially separated into fractions of one or more, within a range of less than 10 microns over a period of 24 hours.

The filter is placed in a filter holder with a frame and secured by a metal frame. It is protected by a movable shell located on the top of the equipment, which has lateral slots through which air enters.

It should be noted that the filter is weighed before and after use to determine the net gain (mass) of PM 10 collected. The total volume of sampled air is corrected to normal conditions of 23

± 2°C and 50 ± 5 RH (Relative Humidity) respectively. The method described is acquaintance as gravimetric, NTP 900.030:2003. Reference methods for the determination of respirable particulate matter such as PM 10 in the atmosphere.

The Hi-Vol team is designed to:

- Draw the air sample and introduce it through the sampler inlet, through the particle collection filter, at a uniform speed in all filter sections.
- Secure and seal the filter in a horizontal position so that the air sample passes through the filter.
- Allow the filter to be conveniently installed and removed.

- Protect the filter and sampler from precipitation and prevent the introduction of insects and other debris.
- Minimize air leaks that could cause errors in measuring the volume of air passing through the filter.
- Discharge the exhaust air at a sufficient distance from the sampler inlet to minimize sampling.
- Minimize dust collection from the support surface.

B. Gases

For sampling NO gases₂, CO and SO₂ a sampling train is installed at each station, adsorbent compound is used which is bubbled with the use of the impinger in order to capture the desired sample in a given time with a controlled air flow. For this purpose, a properly verified rotameter with a valid calibration certificate is used.

- Nitrogen dioxide (NO) gas sampling method₂

It was determined using the sodium arsenite method. The nitrogen dioxide content in the air is sampled using a sampling train equipped with a porous glass bubbler, through which the air sample passes through an alkaline absorbent solution of sodium arsenite and sodium hydroxide at a flow rate of 0.4 L/min.

- Carbon monoxide (CO) sampling method.

This gas was sampled using a dynamic sampling train, and the gas was determined using the colorimetric method. At a constant flow rate of 0.5 L/min, the results are expressed in $\mu\text{g}/\text{m}^3$.

- Method for sampling sulfur dioxide (SO₂) gases₂

The determination of this gas was carried out using the standardized West-Gaecke method, also known as the Pararosaniline method, using a sampling train consisting of a dynamic system composed of a pressure-suction pump, a flow controller and a 0.1 M sodium tetrachloromercurate capture solution at a flow rate of 0.2 L/min.

5.3. Analysis Methodology

Table V-1: Analysis Methodology.

Parameters	Test Method	Units
Material PM10 Particulate (High Volume).	EPA-Compendium Method IO-2.1-1999; Ambient Air Sampling for Total Suspended Particulate Matter (SPM) and PM10 Using a High Volume (HV) Sampler.	$\mu\text{g}/\text{m}^3$
Dioxide of Nitrogen (NO_2).	NTP-ISO 7996 1st Ed. 2019	
Monoxide of Carbon (CO).	NTP-ISO 4224 1st Ed. 2019	
Sulfur Dioxide (SO_2).	NTP-ISO 10498 2nd Ed. 2017	

Fountain: Own elaboration.

5.4. Standards of comparison

Below are the standards used for evaluating results, indicating the reference standard.

Table V-2: National Air Quality Standards.

Parameter	Unit	Standard	Reference standard
PM10 particles	$\mu\text{g}/\mu^3$	100	DS No. 003-2017-MINAM
Carbon Monoxide		10000	
Nitrogen Dioxide (NO_2)		200	
Sulfur Dioxide (SO_2)		250	

Fountain: Own elaboration.

5.5. Results obtained

Table V-3: Air quality results for Carbon Monoxide (CO)

FIRST PHASE							
Descriptions amplng	Location	Next to industrial oven				Regulations DS No. 003-2017-MINAM	
	Wind direction	Windward		Leeward			
	Coordinates	North	This	North	This	Standard	Complies with the Standard
		8 787 424	437 197	8 787 461	437 198		
	Season	CA - 01		CA - 02			
Date Identification sample	February 18-19	1248.60		1020.30		10000 µg/m3	BIRTHDAY
	February 19-20	1250.60		1024.60			BIRTHDAY
	February 20-21	1256.70		1022.90			BIRTHDAY
	February 21-22	1547.50		1055.20			BIRTHDAY
	February 22-23	1541.90		1058.30			BIRTHDAY
SECOND PHASE							
Descriptions amplng	Location	Next to industrial oven				Regulations DS No. 003-2017-MINAM	
	Wind direction	Windward		Leeward			
	Coordinates	North	This	North	This	Standard	Complies with the Standard
		8 787 373	436 927	8 787 488	436 940		
	Season	CA - 03		CA - 04			
Date Identification sample	23 - 24/02	842.30		857.60		10000 µg/m3	BIRTHDAY
	24 - 25/02	843.80		855.10			BIRTHDAY
	25 - 26/02	842.10		857.80			BIRTHDAY
	26 - 27/02	845.30		851.20			BIRTHDAY
	27 - 28/02	847.50		855.30			BIRTHDAY

Fountain: Own elaboration

Table V-4: Air quality results for Sulfur Dioxide (SO₂)

FIRST PHASE							
Descriptions amplng	Location	Next to industrial oven				Regulations DS No. 003-2017-MINAM	
	Wind direction	Windward		Leeward			
	Coordinates	North	This	North	This	Standard	Complies with the Standard
		8 787 424	437 197	8 787 461	437 198		
	Season	CA - 01		CA - 02			
Date Identification sample	February 18-19	<12.3		<12.3		250 µg/m3	BIRTHDAY
	February 19-20	<12.3		<12.3			BIRTHDAY
	February 20-21	<12.3		<12.3			BIRTHDAY
	February 21-22	<12.3		<12.3			BIRTHDAY
	February 22-23	<12.3		<12.3			BIRTHDAY
SECOND PHASE							
Descriptions amplng	Location	Next to industrial oven				Regulations DS No. 003-2017-MINAM	
	Wind direction	Windward		Leeward			
	Coordinates	North	This	North	This	Standard	Complies with the Standard
		8 787 373	436 927	8 787 488	436 940		
	Season	CA - 03		CA - 04			
Date Identification sample	23 - 24/02	<12.3		<12.3		250 µg/m3	BIRTHDAY
	24 - 25/02	<12.3		<12.3			BIRTHDAY
	25 - 26/02	<12.3		<12.3			BIRTHDAY
	26 - 27/02	<12.3		<12.3			BIRTHDAY
	27 - 28/02	<12.3		<12.3			BIRTHDAY

Fountain: Own elaboration

Table V-5: Air quality results for Nitrogen Dioxide (NO₂)

FIRST PHASE							
Descriptions amplng	Location	Next to industrial oven				Regulations DS No. 003-2017-MINAM	
	Wind direction	Windward		Leeward			
	Coordinates	North	This	North	This	Standard	Complies with the Standard
		8 787 424	437 197	8 787 461	437 198		
	Season	CA - 01		CA - 02			
Date Identification sample	February 18-19	< 4.00		< 4.00		200 µg/m3	BIRTHDAY
	February 19-20	< 4.00		< 4.00			BIRTHDAY
	February 20-21	< 4.00		< 4.00			BIRTHDAY
	February 21-22	< 4.00		< 4.00			BIRTHDAY
	February 22-23	< 4.00		< 4.00			BIRTHDAY
SECOND PHASE							
Descriptions amplng	Location	Next to industrial oven				Regulations DS No. 003-2017-MINAM	
	Wind direction	Windward		Leeward			
	Coordinates	North	This	North	This	Standard	Complies with the Standard
		8 787 373	436 927	8 787 488	436 940		
	Season	CA - 03		CA - 04			
Date Identification sample	23 - 24/02	< 4.00		< 4.00		200 µg/m3	BIRTHDAY
	24 - 25/02	< 4.00		< 4.00			BIRTHDAY
	25 - 26/02	< 4.00		< 4.00			BIRTHDAY
	26 - 27/02	< 4.00		< 4.00			BIRTHDAY
	27 - 28/02	< 4.00		< 4.00			BIRTHDAY

Fountain: Own elaboration

Table V-6: Results of air quality for Particulate Matter (PM10)

FIRST PHASE							
Descriptions ampling	Location	Next to industrial oven				Regulations DS No. 003-2017-MINAM	
	Wind direction	Windward		Leeward			
	Coordinates	North	This	North	This	Standard	Complies with the Standard
		8 787 424	437 197	8 787 461	437 198		
	Season	CA - 01		CA - 02			
Date Identification sample	February 18-19	91.5		75.4		100 µg/m3	BIRTHDAY
	February 19-20	95.7		88.3			BIRTHDAY
	February 20-21	89.1		85.8			BIRTHDAY
	February 21-22	82.7		92.4			BIRTHDAY
	February 22-23	90.8		96.4			BIRTHDAY
SECOND PHASE							
Descriptions ampling	Location	Next to industrial oven				Regulations DS No. 003-2017-MINAM	
	Wind direction	Windward		Leeward			
	Coordinates	North	This	North	This	Standard	Complies with the Standard
		8 787 373	436 927	8 787 488	436 940		
	Season	CA - 03		CA - 04			
Date Identification sample	23 - 24/02	15.8		21.5		100 µg/m3	BIRTHDAY
	24 - 25/02	18.4		22.5			BIRTHDAY
	25 - 26/02	16.9		20.1			BIRTHDAY
	26 - 27/02	20.4		16.7			BIRTHDAY
	27 - 28/02	18.6		17.9			BIRTHDAY

Fountain: Own elaboration

VI. WEATHER MONITORING

6.1. Specific objective

- Analyze the meteorological conditions for the assessment area, throughout the air quality sampling period based on the records of an automatic meteorological station.

6.2. Sampling methodology

To record the meteorological conditions in the study area, automated equipment was used, featuring an Integrated Sensor Module that gathers several types of readings over a given period of time. The data is sent to the console either via a cable or wireless transmission. This weather station must be installed at a height of no less than 2 m, in a large, unobstructed area.

Table VI-1: Meteorological parameters.

Equipment	Parameters	Range	Precision
Davis Vantage Pro 2 Wireless	Temperature.	- 40.0 °C to + 65.0 °C	+/- 0.5 °C.
	Relative humidity.	0% – 100%	+/- 3 % of the measured value.
PCEFW S 20N	Temperature.	- 40.0 °C to + 65.0 °C	+/- 0.5 °C.
	Relative humidity.	0% – 100%	+/- 3 % of the measured value.

Fountain:Own elaboration.

6.3. Measuring Instrument

Table VI-2: Measurement Equipment Characteristics

Equipment	Brand	Model	Serial No.	Code	Calibration date
Meteorological Station	Davis Instruments	Vantage Pro 2	A70321D89D	EQ-OPE-11	March 19, 2024
	PCE Instruments	FWS 20N	MO-4714A	-	March 19, 2024

6.4. Results obtained

Table VI-3: Detailed results of Measurement Point CA - 01
Meteorological Parameters day 1.

METEOROLOGY						
Station/Sampling Code		CA-01		Description from the point of sampling	LOCATED NEARBY INDUSTRIAL OVEN	
Coordinates WGS-84		E: 437197	N: 8 787424			
Date	Hour	Temperature (°C)	Humidity (%)	Speed wind (m/s)	Address of the Wind	Pressure (mmHg)
2025/02/18	2:00 PM	28.4	88.0	1.1	NNE	745.6
2025/02/18	3:00 PM	26.2	89.0	1.7	NNE	745.7
2025/02/18	4:00 PM	26.3	88.0	1.8	NE	745.7
2025/02/18	17:00	26.0	87.0	1.6	NE	745.5
2025/02/18	18:00	25.6	89.0	1.0	N	745.2
2025/02/18	7:00 PM	25.0	91.0	1.1	N	744.9
2025/02/18	8:00 PM	24.7	93.0	1.3	N	745.1
2025/02/18	9:00 PM	24.4	94.0	1.3	N	745.1
2025/02/18	22:00	24.2	95.0	1.1	N	745.2
2025/02/18	11:00 PM	23.9	95.0	1.1	N	745.4
2025/02/19	00:00	23.7	96.0	1.1	NNE	745.6
2025/02/19	01:00	23.2	96.0	1.1	NNE	745.2
2025/02/19	02:00	23.0	95.0	1.1	NE	745.8
2025/02/19	03:00	23.0	96.0	1.1	N	745.4
2025/02/19	04:00	23.0	96.0	1.1	N	745.7
2025/02/19	05:00	23.0	96.0	1.1	NE	744.8
2025/02/19	06:00	23.0	97.0	1.2	N	744.6
2025/02/19	07:00	23.9	96.0	1.2	N	744.4
2025/02/19	08:00	23.8	96.0	1.2	N	744.5
2025/02/19	09:00	23.9	93.0	1.2	NNE	745.9
2025/02/19	10:00	24.6	90.0	1.2	NNE	745.8
2025/02/19	11:00	25.8	87.0	1.1	NE	745.1
2025/02/19	12:00	27.5	84.0	1.1	N	745.8
2025/02/19	1:00 PM	29.0	79.0	1.1	NE	745.4
Average		24.8	91.9	1.2	N	745.3
Maximum Value		29.0	97.0	1.8	--	745.9
Minimum Value		23.0	79.0	1.0	--	744.4

Wind RoseCA – 01 (day 01)

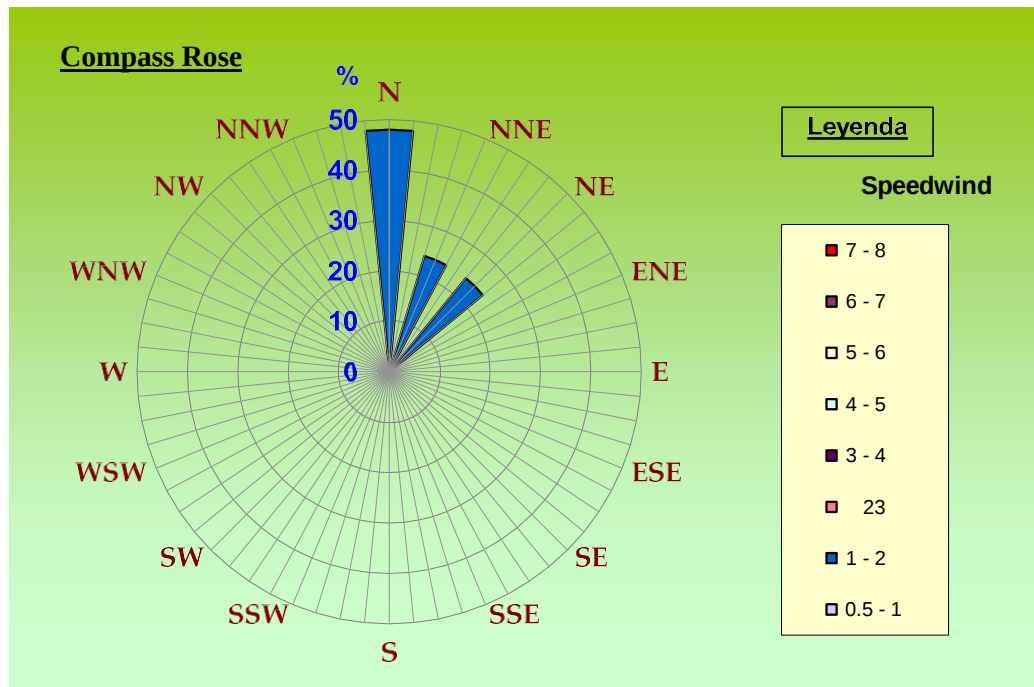


Table VI-4: Detailed results of Measurement Point CA - 01
Meteorological Parameters day 2.

METEOROLOGY						
Station/Sampling Code		CA-01		Description from the point sampling	LOCATED NEAR THE INDUSTRIAL OVEN	
Coordinates WGS-84		E: 437197	N: 8787424			
Date	Hour	Temperature	Humidity	Wind speed (m/s)	Address of Wind	Pressure
		(°C)	(%)			(mbar)
2025/02/19	2:00 PM	29.0	79.0	0.9	NNE	745.1
2025/02/19	3:00 PM	30.4	75.0	0.9	NE	745.5
2025/02/19	4:00 PM	31.4	78.0	0.9	N	744.5
2025/02/19	17:00	30.7	77.0	0.9	NE	744.6
2025/02/19	18:00	24.4	86.0	0.9	NNE	744.6
2025/02/19	7:00 PM	24.3	93.0	0.9	NNE	744.6
2025/02/19	8:00 PM	24.2	94.0	0.9	NNE	744.2
2025/02/19	9:00 PM	24.3	94.0	1.1	N	744.4
2025/02/19	22:00	24.1	95.0	1.1	N	743.8
2025/02/19	11:00 PM	24.2	95.0	1.1	N	743.8
2025/02/20	00:00	24.1	94.0	1.1	N	743.7
2025/02/20	01:00	24.1	94.0	1.1	NNE	743.7
2025/02/20	02:00	23.8	96.0	1.1	NNE	743.7
2025/02/20	03:00	23.8	97.0	1.1	NNE	743.6
2025/02/20	04:00	23.8	96.0	1.1	NNE	743.4
2025/02/20	05:00	23.8	97.0	1.4	NNE	743.5
2025/02/20	06:00	23.9	84.0	1.4	NNE	743.4
2025/02/20	07:00	24.6	86.0	1.4	NNE	743.4
2025/02/20	08:00	24.6	85.0	1.4	NNE	743.9
2025/02/20	09:00	24.6	81.0	1.1	NNE	743.8
2025/02/20	10:00	26.8	85.0	1.7	NNE	743.7
2025/02/20	11:00	28.9	81.0	1.6	NNE	743.6
2025/02/20	12:00	28.9	80.0	1.0	NNE	743.5
2025/02/20	1:00 PM	28.9	80.0	1.1	NNE	743.8
Average		25.9	87.6	1.1	NNE	744.0
Maximum Value		31.4	97.0	1.7	--	745.5
Minimum Value		23.8	75.0	0.9	--	743.4

Wind RoseCA – 01 (day 02)

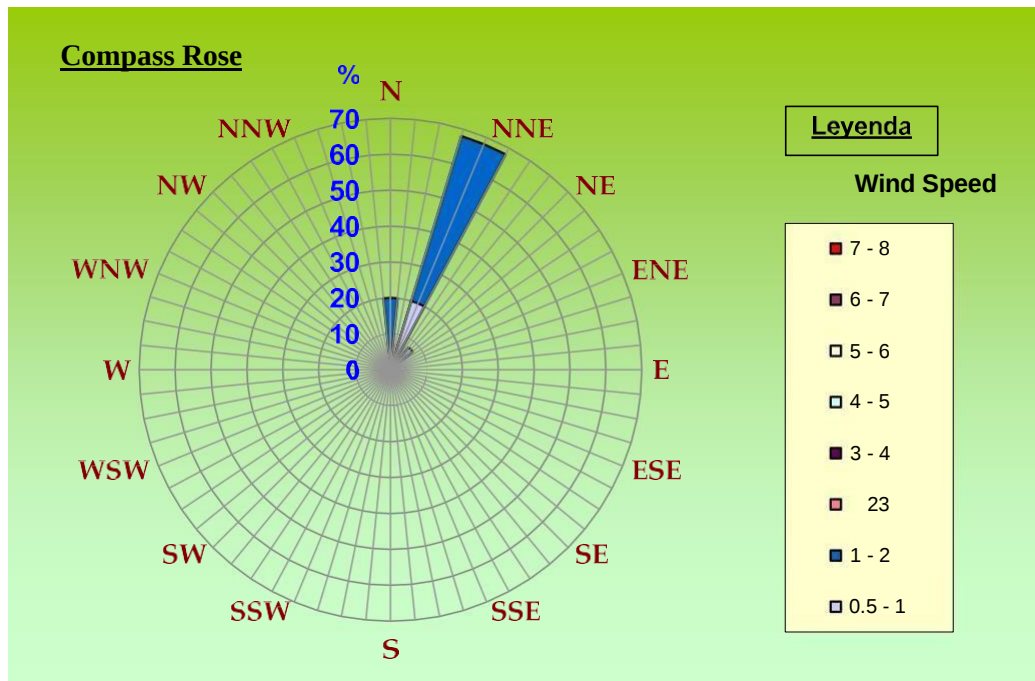


Table VI-5: Detailed results of Measurement Point CA - 01
Meteorological Parameters day 3.

METEOROLOGY						
Station/Sampling Code		CA-01		Description from the point sampling	LOCATED NEARBY INDUSTRIAL OVEN	
Coordinates WGS-84		E: 437197	N: 8 787424			
Date	Hour	Temperature (°C)	Humidity (%)	Wind speed (m/s)	Address of Wind	Pressure (mbar)
2025/02/20	2:00 PM	25.3	89.0	1.4	NNE	743.5
2025/02/20	3:00 PM	25.9	87.0	1.4	NNE	743.7
2025/02/20	4:00 PM	26.3	86.0	1.4	NE	743.6
2025/02/20	17:00	26.5	85.0	1.4	N	743.8
2025/02/20	18:00	26.2	86.0	1.4	N	743.5
2025/02/20	7:00 PM	25.8	89.0	1.0	N	743.7
2025/02/20	8:00 PM	25.1	92.0	1.0	NNE	743.4
2025/02/20	9:00 PM	24.5	95.0	1.0	NNE	743.2
2025/02/20	22:00	24.2	96.0	1.0	NNE	743.1
2025/02/20	11:00 PM	23.9	97.0	1.0	N	743.1
2025/02/21	00:00	23.9	97.0	1.0	N	743.1
2025/02/21	01:00	23.8	97.0	1.0	N	743.1
2025/02/21	02:00	23.7	98.0	0.9	N	743.1
2025/02/21	03:00	23.7	98.0	0.9	N	743.5
2025/02/21	04:00	23.6	98.0	0.9	N	743.6
2025/02/21	05:00	23.6	98.0	0.9	NNE	743.5
2025/02/21	06:00	23.6	89.0	0.9	NNE	743.5
2025/02/21	07:00	24.7	88.0	0.9	N	743.5
2025/02/21	08:00	24.7	87.0	1.3	N	744.7
2025/02/21	09:00	24.5	89.0	1.1	N	744.7
2025/02/21	10:00	26.6	85.0	1.1	N	744.8
2025/02/21	11:00	28.0	84.0	1.1	N	744.8
2025/02/21	12:00	28.7	85.0	0.9	NNE	744.8
2025/02/21	1:00 PM	29.8	83.0	0.9	NNE	744.8
Average		25.3	90.8	1.1	N	743.8
Maximum Value		29.8	98.0	1.4	--	744.8
Minimum Value		23.6	83.0	0.9	--	743.1

Wind RoseCA – 01 (day 03)

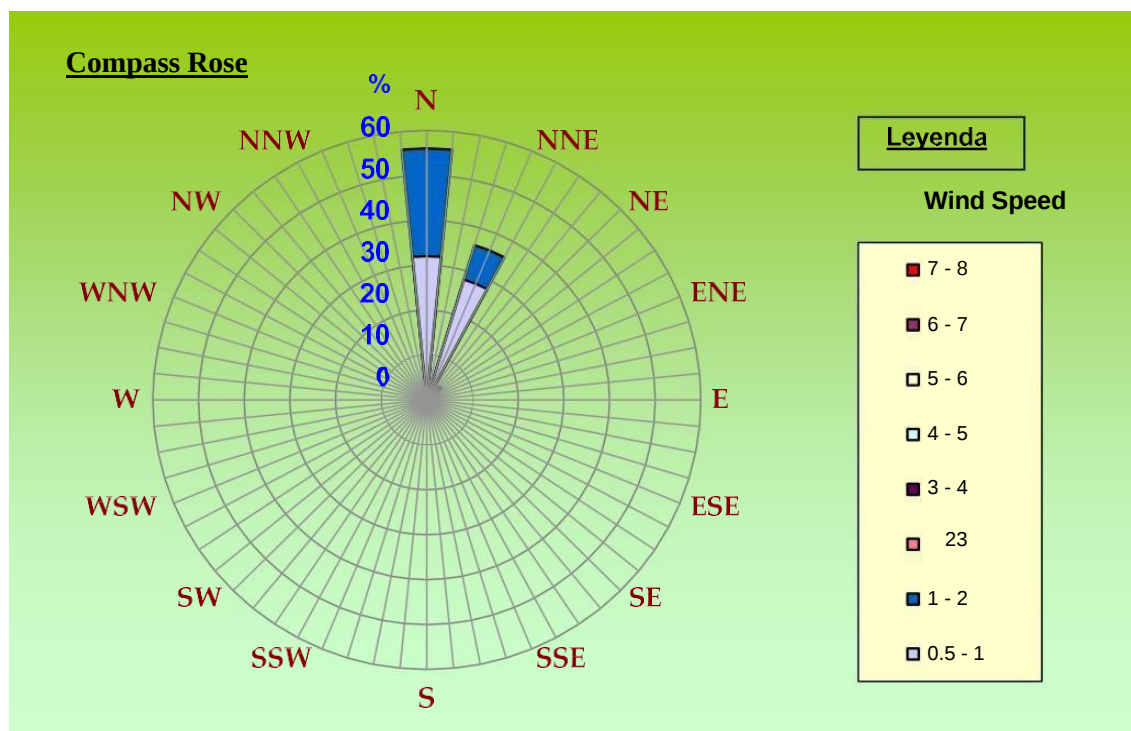


Table VI-6: Detailed results of Measurement Point CA - 01
Meteorological Parameters day 4.

METEOROLOGY						
Station/Sampling Code		CA-01		Description from the point sampling	LOCATED NEARBY INDUSTRIAL OVEN	
Coordinates WGS-84		E: 437197	N: 8 787424			
Date	Hour	Temperature (°C)	Humidity (%)	Wind speed (m/s)	Address of Wind	Pressure (mbar)
2025/02/21	2:00 PM	31.1	74.0	1.1	N	744.9
2025/02/21	3:00 PM	31.3	72.0	1.1	N	745.2
2025/02/21	4:00 PM	31.8	73.0	1.1	NNE	745.2
2025/02/21	17:00	30.2	69.0	1.6	NNE	745.3
2025/02/21	18:00	30.1	69.0	1.6	NNE	745.8
2025/02/21	7:00 PM	29.2	79.0	1.6	NE	745.2
2025/02/21	8:00 PM	26.9	87.0	0.9	N	745.1
2025/02/21	9:00 PM	26.0	90.0	0.9	NE	745.1
2025/02/21	22:00	26.2	91.0	0.9	NNE	744.6
2025/02/21	11:00 PM	24.5	93.0	0.9	NNE	744.8
2025/02/22	00:00	24.1	94.0	0.9	NE	744.8
2025/02/22	01:00	23.7	95.0	0.9	NE	744.5
2025/02/22	02:00	23.7	95.0	0.9	NE	744.9
2025/02/22	03:00	23.7	95.0	0.9	NNE	744.7
2025/02/22	04:00	23.8	94.0	1.5	NNE	744.5
2025/02/22	05:00	23.6	95.0	1.2	NNE	744.5
2025/02/22	06:00	23.7	97.0	1.2	NE	744.4
2025/02/22	07:00	24.5	98.0	1.2	NE	744.4
2025/02/22	08:00	24.9	85.0	1.2	NNE	744.5
2025/02/22	09:00	24.9	84.0	1.5	NNE	744.4
2025/02/22	10:00	26.8	86.0	1.5	N	744.5
2025/02/22	11:00	26.8	83.0	1.5	N	744.9
2025/02/22	12:00	28.6	84.0	2.1	NNE	744.7
2025/02/22	1:00 PM	28.9	82.0	1.4	NNE	744.8
Average		26.6	86.0	1.2	NNE	744.8
Maximum Value		31.8	98.0	2.1	--	745.8
Minimum Value		23.6	69.0	0.9	--	744.4

Wind RoseCA – 01 (day 04)

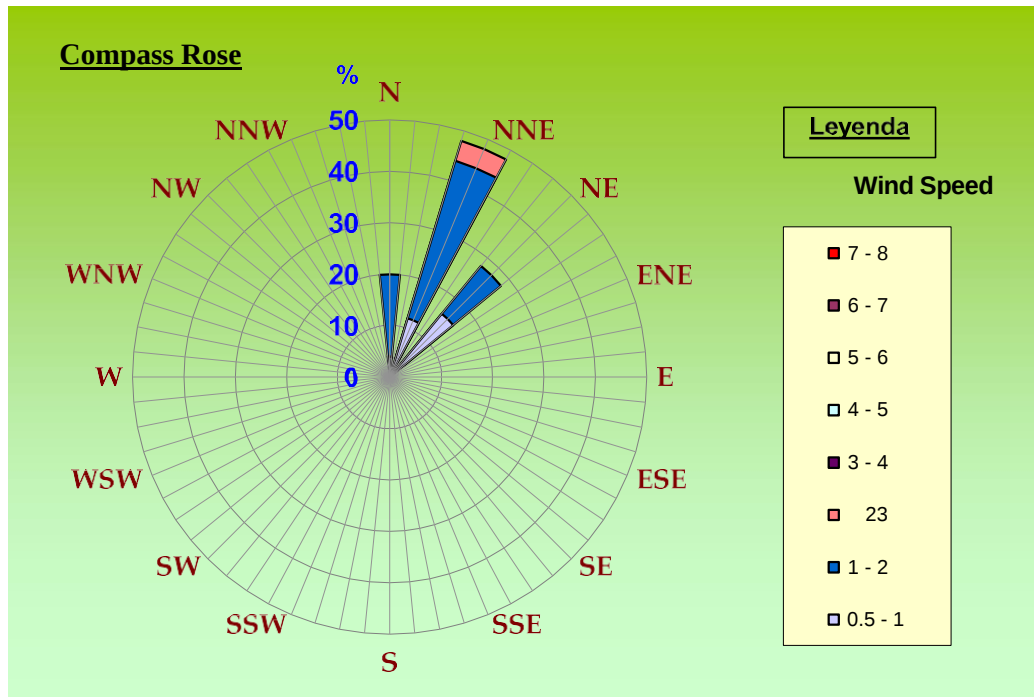


Table VI-7: Detailed results of Measurement Point CA - 01
Meteorological Parameters day 5.

METEOROLOGY						
Station/Sampling Code		CA-01		Description from the sampling point	LOCATED NEARBY INDUSTRIAL ZONE	
Coordinates WGS-84		E: 437197	N: 8787424			
Date	Hour	Temperature (°C)	Humidity (%)	Wind speed (m/s)	Direction of Wind	Pressure (mbar)
2025/02/22	2:00 PM	27.2	88.0	1.3	NNE	744.7
2025/02/22	3:00 PM	27.3	84.0	1.1	NNE	744.4
2025/02/22	4:00 PM	27.0	81.0	1.1	NNE	744.1
2025/02/22	17:00	26.4	84.0	1.4	NE	744.3
2025/02/22	18:00	26.4	83.0	0.9	NE	744.7
2025/02/22	7:00 PM	26.4	84.0	0.9	NE	744.9
2025/02/22	8:00 PM	24.8	90.0	0.9	NNE	745.8
2025/02/22	9:00 PM	24.6	93.0	0.9	NNE	745.4
2025/02/22	22:00	24.6	92.0	1.2	NNE	745.7
2025/02/22	11:00 PM	24.3	93.0	1.4	NNE	745.1
2025/02/23	00:00	23.4	96.0	1.7	NNE	745.8
2025/02/23	01:00	23.2	96.0	1.7	NNE	745.1
2025/02/23	02:00	23.0	97.0	1.7	NNE	745.6
2025/02/23	03:00	23.0	97.0	1.7	NNE	746.1
2025/02/23	04:00	23.0	98.0	1.7	NNE	745.8
2025/02/23	05:00	23.1	98.0	0.9	NNE	746.4
2025/02/23	06:00	23.4	98.0	0.9	NNE	745.9
2025/02/23	07:00	23.4	98.0	0.9	NNE	745.9
2025/02/23	08:00	24.8	98.0	1.4	NE	744.1
2025/02/23	09:00	24.8	96.0	1.2	NE	744.3
2025/02/23	10:00	24.8	89.0	1.1	NE	744.7
2025/02/23	11:00	26.7	84.0	1.1	NE	744.7
2025/02/23	12:00	26.7	82.0	1.1	NE	745.9
2025/02/23	1:00 PM	28.4	79.0	1.1	NE	745.9
Average		25.0	90.8	1.2	NNE	745.2
Maximum Value		28.4	98.0	1.7	--	746.4
Minimum Value		23.0	79.0	0.9	--	744.1

Wind RoseCA – 01 (day 05)

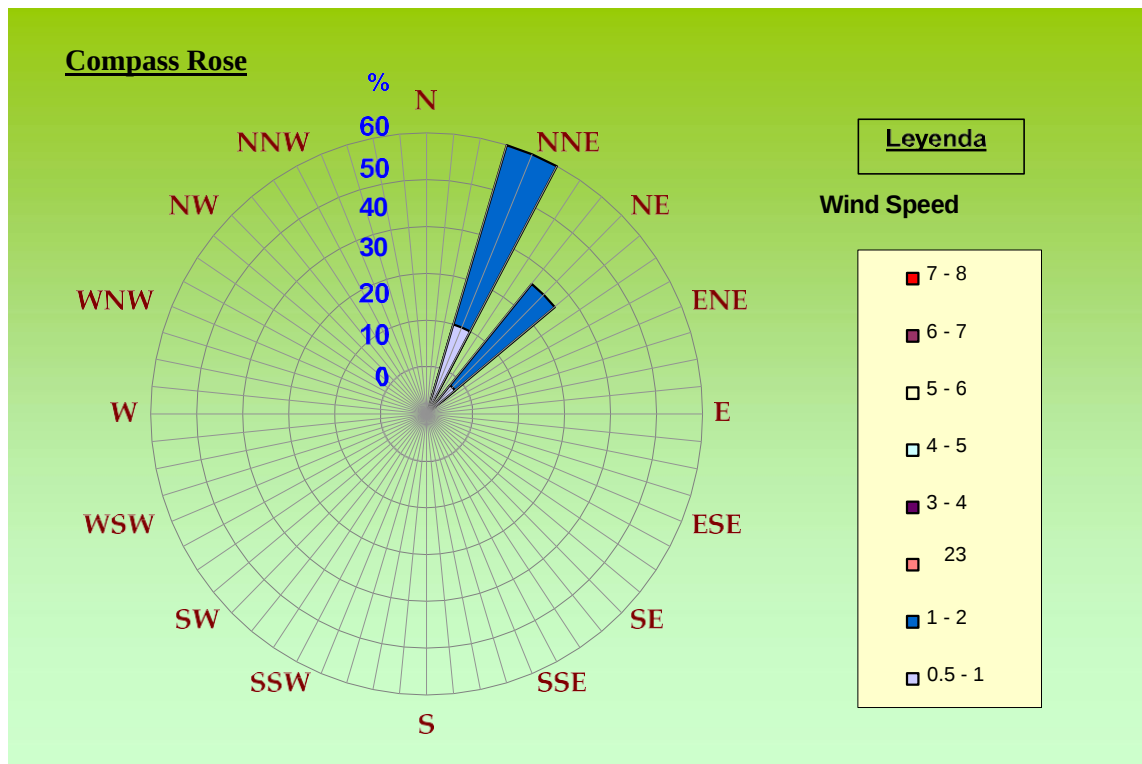


Table VI-8: Detailed results of Measurement Point CA - 02
Meteorological Parameters day 1.

METEOROLOGY						
Station/Sampling Code		CA-02		Description from the sampling point	LOCATED NEARBY INDUSTRIAL OVEN	
Coordinates WGS-84		E: 437198	N: 8 787461			
Date	Hour	Temperature (°C)	Humidity (%)	Wind speed (m/s)	Address of Wind	Pressure (mbar)
2025/02/18	1:00 PM	26.9	86.0	1.2	NNE	745.4
2025/02/18	2:00 PM	26.9	84.0	0.9	NNE	745.6
2025/02/18	3:00 PM	26.9	89.0	1.7	NNE	745.7
2025/02/18	4:00 PM	26.9	88.0	1.8	NE	745.7
2025/02/18	17:00	26.9	87.0	1.6	NE	745.5
2025/02/18	18:00	25.6	89.0	1.0	N	745.2
2025/02/18	7:00 PM	25.0	91.0	1.0	N	744.9
2025/02/18	8:00 PM	24.7	93.0	1.3	N	745.1
2025/02/18	9:00 PM	24.4	94.0	1.3	N	745.1
2025/02/18	22:00	24.2	95.0	1.1	N	745.2
2025/02/18	11:00 PM	23.9	95.0	1.1	N	745.4
2025/02/19	00:00	23.7	96.0	1.1	NNE	745.6
2025/02/19	01:00	23.2	96.0	1.1	NNE	745.2
2025/02/19	02:00	23.0	95.0	1.1	NE	745.8
2025/02/19	03:00	23.0	96.0	1.1	N	745.4
2025/02/19	04:00	23.0	96.0	0.9	N	745.7
2025/02/19	05:00	23.0	96.0	0.9	NE	744.8
2025/02/19	06:00	23.6	97.0	0.9	N	744.6
2025/02/19	07:00	23.5	96.0	0.9	N	744.4
2025/02/19	08:00	24.7	81.0	0.9	N	744.5
2025/02/19	09:00	24.8	80.0	1.4	NNE	745.9
2025/02/19	10:00	26.9	82.0	1.4	NNE	745.8
2025/02/19	11:00	27.1	81.0	0.9	NE	745.1
2025/02/19	12:00	28.5	80.0	0.9	N	745.8
Average		25.0	90.1	1.1	N	745.3
Maximum Value		28.5	97.0	1.8	--	745.9
Minimum Value		23.0	80.0	0.9	--	744.4

Wind Rose CA – 02 (day 01)

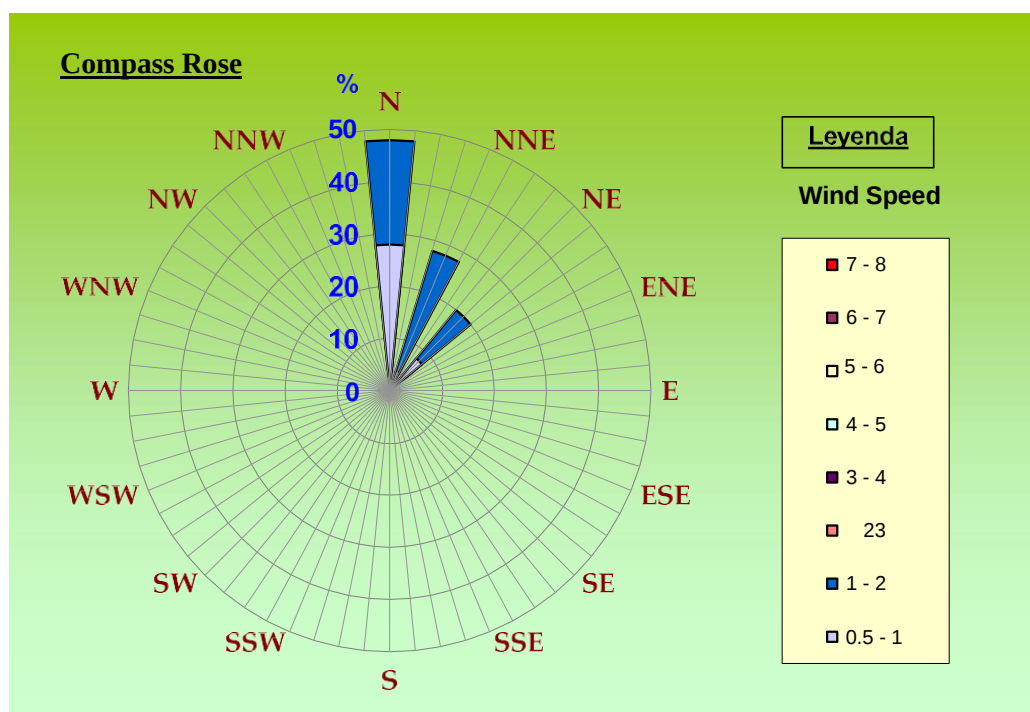


Table VI-9: Detailed results of Measurement Point CA - 02
Meteorological Parameters day 2.

METEOROLOGY						
Station/Sampling Code		CA-02		Description from the point sampling	LOCATED NEARBY INDUSTRIAL OVEN	
Coordinates WGS-84		E: 437198	N: 8 787461			
Date	Hour	Temperature (°C)	Humidity (%)	Wind speed (m/s)	Address of Wind	Pressure (mbar)
2025/02/19	1:00 PM	29.5	80.0	1.2	NE	745.4
2025/02/19	2:00 PM	30.1	79.0	1.2	NNE	745.1
2025/02/19	3:00 PM	30.4	75.0	1.1	NE	745.5
2025/02/19	4:00 PM	31.4	77.0	1.2	N	744.5
2025/02/19	17:00	30.7	79.0	1.2	NE	744.6
2025/02/19	18:00	24.4	84.0	1.8	NNE	744.6
2025/02/19	7:00 PM	24.3	93.0	0.9	NNE	744.6
2025/02/19	8:00 PM	24.0	94.0	0.9	NNE	744.2
2025/02/19	9:00 PM	24.3	94.0	0.9	N	744.0
2025/02/19	22:00	24.3	93.0	0.9	N	743.8
2025/02/19	11:00 PM	24.2	94.0	0.9	N	743.8
2025/02/20	00:00	24.0	94.0	1.1	N	743.7
2025/02/20	01:00	24.0	95.0	1.1	NNE	743.7
2025/02/20	02:00	23.6	96.0	1.1	NNE	743.7
2025/02/20	03:00	23.6	97.0	1.1	NNE	743.6
2025/02/20	04:00	23.5	96.0	0.9	NNE	743.4
2025/02/20	05:00	23.5	97.0	0.9	NNE	743.5
2025/02/20	06:00	23.7	84.0	0.9	NNE	743.4
2025/02/20	07:00	24.4	81.0	1.3	NNE	743.4
2025/02/20	08:00	24.5	83.0	1.3	NNE	743.9
2025/02/20	09:00	24.8	83.0	1.1	NNE	743.8
2025/02/20	10:00	26.7	81.0	1.7	NNE	743.7
2025/02/20	11:00	28.4	81.0	1.6	NNE	743.6
2025/02/20	12:00	28.7	81.0	1.0	NNE	743.5
Average		25.9	87.1	1.1	NNE	744.0
Maximum Value		31.4	97.0	1.8	--	745.5
Minimum Value		23.5	75.0	0.9	--	743.4

Wind RoseCA – 02 (day 02)

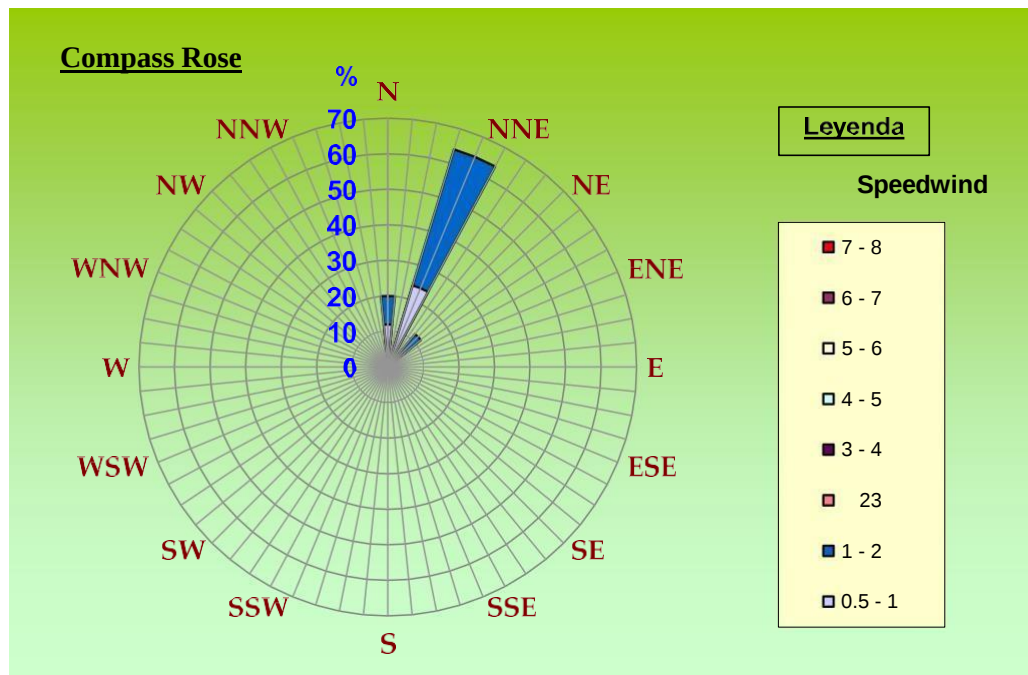


Table VI-10: Detailed results of Measurement Point CA - 02
Meteorological Parameters day 3.

METEOROLOGY						
Station/Sampling Code		CA-02		Description from the point sampling	LOCATED NEARBY INDUSTRIAL OVEN	
Coordinates WGS-84		E: 437198	N: 8 787461			
Date	Hour	Temperature (°C)	Humidity (%)	Wind speed (m/s)	Address of Wind	Pressure (mbar)
2025/02/20	1:00 PM	25.1	88.0	1.3	NNE	743.8
2025/02/20	2:00 PM	25.3	89.0	1.4	NNE	743.5
2025/02/20	3:00 PM	25.9	87.0	1.4	NNE	743.7
2025/02/20	4:00 PM	26.3	86.0	1.1	NE	743.6
2025/02/20	17:00	26.4	85.0	1.1	N	743.8
2025/02/20	18:00	26.0	86.0	1.4	N	743.5
2025/02/20	7:00 PM	25.8	89.0	1.0	N	743.7
2025/02/20	8:00 PM	25.1	92.0	1.1	NNE	743.4
2025/02/20	9:00 PM	24.2	95.0	1.3	NNE	743.2
2025/02/20	22:00	24.1	96.0	1.1	NNE	743.1
2025/02/20	11:00 PM	23.9	97.0	1.4	N	743.1
2025/02/21	00:00	23.9	97.0	0.9	N	743.1
2025/02/21	01:00	23.7	97.0	0.9	N	743.1
2025/02/21	02:00	23.7	98.0	0.9	N	743.1
2025/02/21	03:00	23.7	98.0	1.2	N	744.1
2025/02/21	04:00	23.5	98.0	1.2	N	744.1
2025/02/21	05:00	23.4	98.0	1.2	NNE	744.1
2025/02/21	06:00	23.8	84.0	1.5	NNE	743.5
2025/02/21	07:00	24.5	86.0	1.5	N	743.5
2025/02/21	08:00	24.9	85.0	1.3	N	744.7
2025/02/21	09:00	24.8	87.0	1.1	N	744.7
2025/02/21	10:00	27.5	84.0	1.1	N	744.8
2025/02/21	11:00	28.4	86.0	1.3	N	744.8
2025/02/21	12:00	28.9	82.0	1.1	NNE	744.8
Average		25.1	90.4	1.2	N	743.8
Maximum Value		28.9	98.0	1.5	--	744.8
Minimum Value		23.4	82.0	0.9	--	743.1

Wind RoseCA – 02 (day 03)

Compass Rose

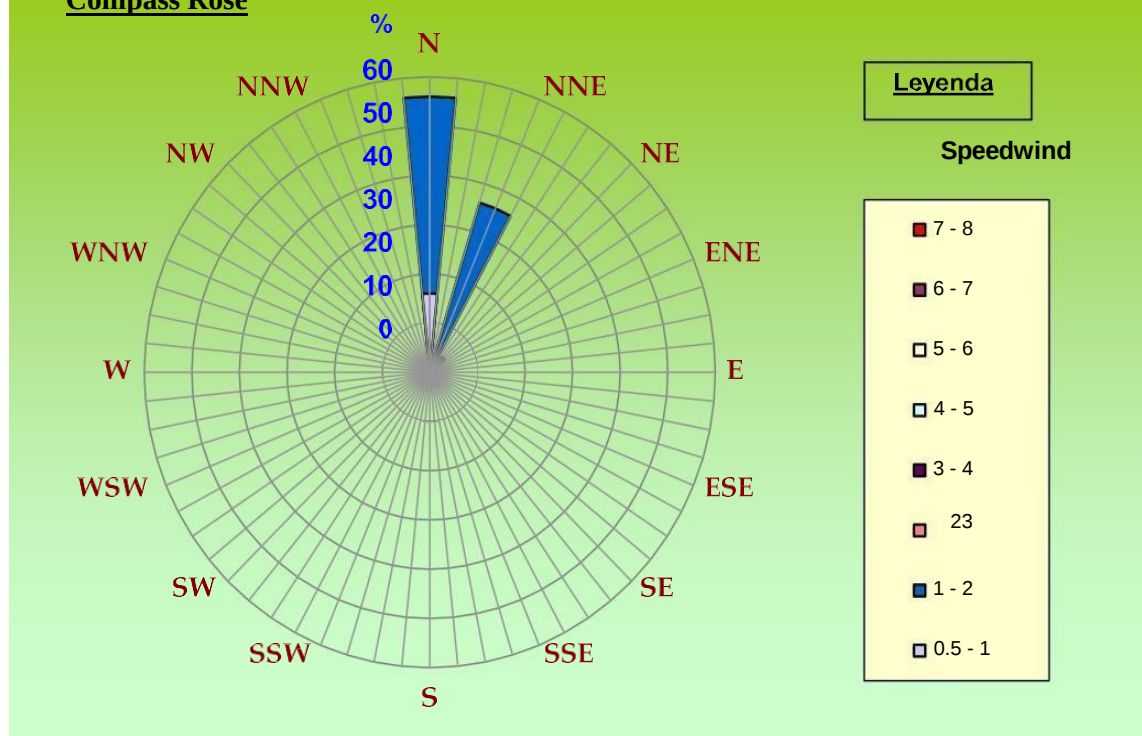


Table VI-11: Detailed results of Measurement Point CA - 02
Meteorological Parameters day 4.

METEOROLOGY						
Station/Sampling Code		CA-02		Description from the point sampling	LOCATED NEARBY INDUSTRIAL ZONE	
Coordinates WGS-84		E: 437198	N: 8787461			
Date	Hour	Temperature	Humidity	Wind speed (m/s)	Direction of Wind	Pressure
		(°C)	(%)			(mbar)
2025/02/21	1:00 PM	30.8	77.0	1.2	NNE	744.8
2025/02/21	2:00 PM	31.1	74.0	1.1	N	744.9
2025/02/21	3:00 PM	31.3	72.0	1.0	N	745.2
2025/02/21	4:00 PM	30.9	73.0	1.4	NNE	745.2
2025/02/21	17:00	30.1	69.0	1.3	NNE	745.3
2025/02/21	18:00	30.1	69.0	1.2	NNE	745.8
2025/02/21	7:00 PM	29.5	79.0	1.6	NE	745.2
2025/02/21	8:00 PM	26.3	87.0	1.1	N	745.1
2025/02/21	9:00 PM	26.0	90.0	1.2	NE	745.1
2025/02/21	22:00	26.2	91.0	1.1	NNE	744.6
2025/02/21	11:00 PM	24.3	93.0	1.1	NNE	744.8
2025/02/22	00:00	24.3	94.0	1.3	NE	744.8
2025/02/22	01:00	23.4	95.0	1.2	NE	744.5
2025/02/22	02:00	23.4	95.0	1.3	NE	744.9
2025/02/22	03:00	23.5	95.0	1.1	NNE	744.7
2025/02/22	04:00	23.3	94.0	1.5	NNE	744.5
2025/02/22	05:00	23.3	95.0	1.2	NNE	744.5
2025/02/22	06:00	23.5	97.0	1.2	NE	744.4
2025/02/22	07:00	24.5	94.0	1.2	NE	744.4
2025/02/22	08:00	24.7	89.0	1.2	NNE	744.5
2025/02/22	09:00	24.9	87.0	1.2	NNE	744.4
2025/02/22	10:00	26.3	84.0	1.2	N	744.5
2025/02/22	11:00	26.6	85.0	1.4	N	744.9
2025/02/22	12:00	28.4	83.0	1.1	NNE	744.7
Average		26.5	85.9	1.2	NNE	744.8
Maximum Value		31.3	97.0	1.6	--	745.8
Minimum Value		23.3	69.0	1.0	--	744.4

Wind RoseCA – 02 (day 04)

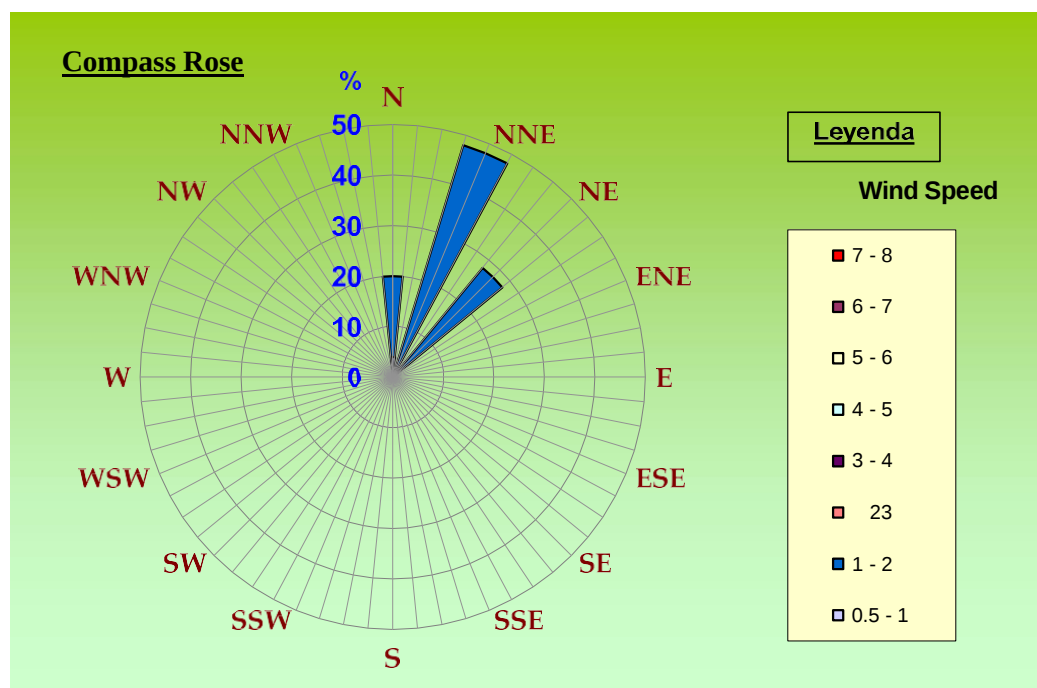


Table VI-12: Detailed results of Measurement Point CA - 02
Meteorological Parameters day 5.

METEOROLOGY						
Station/Sampling Code		CA-02		Description from the point sampling	LOCATED NEARBY INDUSTRIAL OVEN	
Coordinates WGS-84		E: 437198	N: 8 787461			
Date	Hour	Temperature (°C)	Humidity (%)	Wind speed (m/s)	Address of Wind	Pressure (mbar)
2025/02/22	1:00 PM	26.8	85.0	1.4	NNE	744.8
2025/02/22	2:00 PM	27.1	88.0	1.3	NNE	744.7
2025/02/22	3:00 PM	27.4	84.0	1.1	NNE	744.4
2025/02/22	4:00 PM	27.2	81.0	1.1	NNE	744.1
2025/02/22	17:00	26.8	84.0	1.4	NE	744.3
2025/02/22	18:00	26.6	83.0	0.9	NE	744.7
2025/02/22	7:00 PM	26.4	84.0	0.9	NE	744.9
2025/02/22	8:00 PM	25.1	90.0	0.9	NNE	745.8
2025/02/22	9:00 PM	24.7	93.0	1.3	N	745.4
2025/02/22	22:00	24.7	92.0	1.1	N	745.7
2025/02/22	11:00 PM	24.5	93.0	1.4	N	745.1
2025/02/23	00:00	23.6	96.0	1.2	NE	745.8
2025/02/23	01:00	23.5	96.0	1.1	NE	745.1
2025/02/23	02:00	23.2	97.0	1.1	NE	745.6
2025/02/23	03:00	23.3	97.0	1.1	N	746.0
2025/02/23	04:00	23.6	98.0	1.3	NNE	745.8
2025/02/23	05:00	23.4	98.0	1.3	NNE	746.4
2025/02/23	06:00	23.5	98.0	1.3	NNE	745.9
2025/02/23	07:00	23.8	98.0	1.3	NNE	746.1
2025/02/23	08:00	24.3	97.0	1.5	NE	746.2
2025/02/23	09:00	25.4	94.0	1.5	NE	746.4
2025/02/23	10:00	25.2	85.0	1.5	NE	746.2
2025/02/23	11:00	26.8	83.0	0.9	NE	746.4
2025/02/23	12:00	26.8	83.0	1.2	NE	746.1
Average		25.2	90.7	1.2	NE	745.5
Maximum Value		27.4	98.0	1.5	--	746.4
Minimum Value		23.2	81.0	0.9	--	744.1

Wind RoseCA – 02 (day 05)

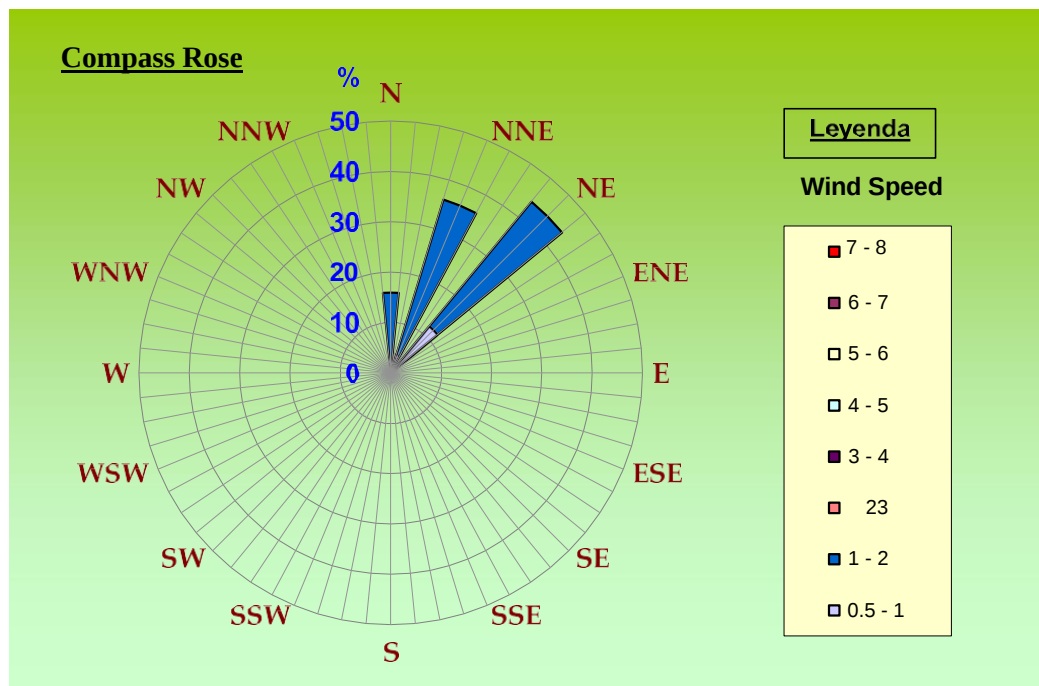


Table VI-13: Detailed results of Measurement Point CA - 03
Meteorological Parameters day 1.

METEOROLOGY						
Station/Sampling Code		CA-03		Description from the sampling point	LOCATED NEARBY TO ARTISANAL OVENS	
Coordinates WGS-84		E: 436927	N: 8 787373			
Date	Hour	Temperature (°C)	Humidity (%)	Wind speed (m/s)	Address of Wind	Pressure (mbar)
2025/02/23	3:00 PM	32.0	66.0	1.3	NE	734.5
2025/02/23	4:00 PM	32.3	66.0	1.1	NE	734.5
2025/02/23	17:00	31.1	64.0	0.9	NE	734.5
2025/02/23	18:00	30.2	67.0	0.9	NE	735.5
2025/02/23	7:00 PM	28.4	71.0	0.9	N	734.5
2025/02/23	8:00 PM	27.5	82.0	0.9	N	734.5
2025/02/23	9:00 PM	25.3	86.0	0.9	N	735.1
2025/02/23	22:00	24.3	90.0	0.9	N	734.6
2025/02/23	11:00 PM	24.2	94.0	1.3	NE	734.6
2025/02/24	00:00	24.2	95.0	1.3	NE	734.6
2025/02/24	01:00	24.4	96.0	1.3	NE	734.6
2025/02/24	02:00	24.2	97.0	1.3	N	734.8
2025/02/24	03:00	24.2	97.0	1.1	N	734.8
2025/02/24	04:00	24.0	97.0	1.1	NE	734.8
2025/02/24	05:00	24.1	97.0	1.1	NE	734.8
2025/02/24	06:00	24.6	98.0	1.1	NNE	736.1
2025/02/24	07:00	24.5	98.0	1.1	NE	736.1
2025/02/24	08:00	25.2	96.0	1.2	NNE	736.1
2025/02/24	09:00	25.9	88.0	1.2	NNE	736.1
2025/02/24	10:00	26.4	86.0	1.5	NE	734.3
2025/02/24	11:00	28.3	84.0	1.3	NE	734.3
2025/02/24	12:00	28.6	83.0	1.2	NE	734.3
2025/02/24	1:00 PM	29.4	84.0	1.2	NE	734.3
2025/02/24	2:00 PM	31.2	83.0	1.2	NE	734.3
Average		26.9	86.0	1.1	NE	734.9
Maximum Value		32.3	98.0	1.5	--	736.1
Minimum Value		24.0	64.0	0.9	--	734.3

Wind RoseCA – 03 (day 01)

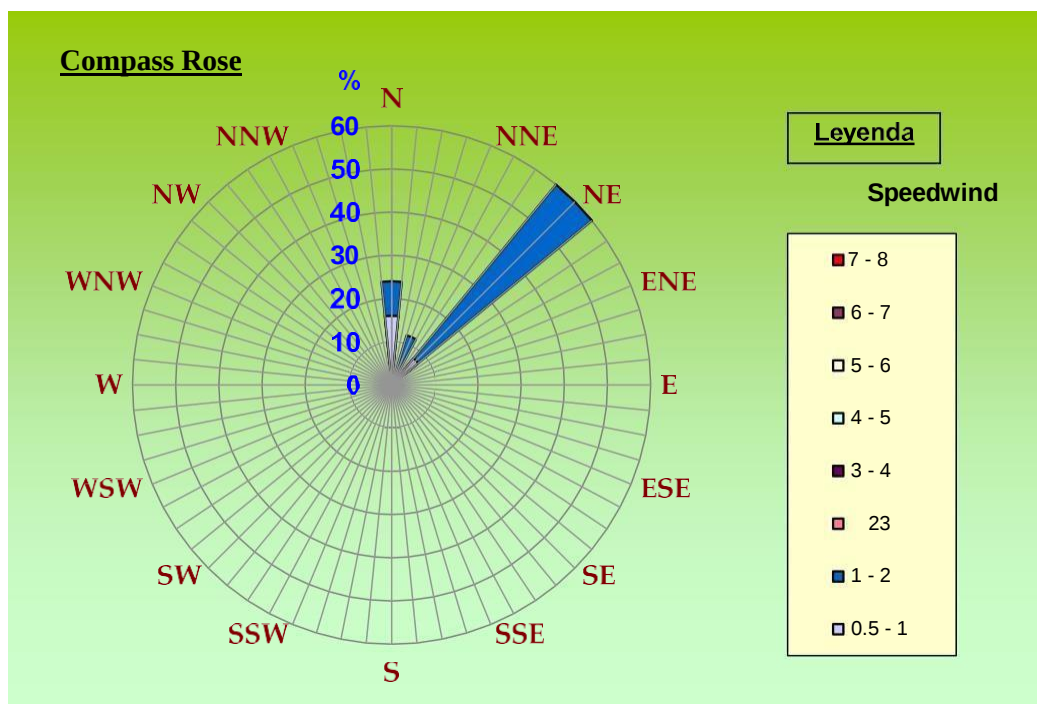


Table VI-14: Detailed results of Measurement Point CA - 03
Meteorological Parameters day 2.

METEOROLOGY						
Station/Sampling Code		CA-03		Description from the sampling point	LOCATED NEARBY TO ARTISANAL OVENS	
Coordinates WGS-84		E: 436927	N: 8 787373			
Date	Hour	Temperature (°C)	Humidity (%)	Wind speed (m/s)	Address of Wind	Pressure (mbar)
2025/02/24	3:00 PM	32.1	77.0	1.2	NE	734.5
2025/02/24	4:00 PM	31.4	78.0	1.2	N	735.1
2025/02/24	17:00	29.5	77.0	1.2	N	735.1
2025/02/24	18:00	28.3	81.0	2.6	N	735.1
2025/02/24	7:00 PM	26.5	84.0	2.1	N	735.1
2025/02/24	8:00 PM	26.1	86.0	1.2	N	734.5
2025/02/24	9:00 PM	25.5	87.0	1.4	NNE	735.1
2025/02/24	22:00	24.8	89.0	1.4	NNE	734.6
2025/02/24	11:00 PM	24.3	91.0	1.4	NNE	734.6
2025/02/25	00:00	23.7	94.0	1.4	NNE	734.6
2025/02/25	01:00	23.6	95.0	1.4	N	734.6
2025/02/25	02:00	23.6	94.0	1.4	N	734.8
2025/02/25	03:00	23.4	94.0	1.1	N	734.6
2025/02/25	04:00	23.0	95.0	1.0	NE	734.5
2025/02/25	05:00	23.1	96.0	1.0	NE	734.8
2025/02/25	06:00	23.1	96.0	0.9	N	736.1
2025/02/25	07:00	24.3	96.0	0.9	N	736.1
2025/02/25	08:00	24.3	95.0	0.9	NE	736.1
2025/02/25	09:00	24.9	90.0	1.3	N	736.1
2025/02/25	10:00	25.9	84.0	1.3	N	735.1
2025/02/25	11:00	27.8	78.0	1.3	N	735.1
2025/02/25	12:00	28.9	75.0	1.2	N	735.1
2025/02/25	1:00 PM	30.2	72.0	1.1	N	735.3
2025/02/25	2:00 PM	30.4	70.0	1.3	N	735.4
Average		26.2	86.4	1.3	N	735.1
Maximum Value		32.1	96.0	2.6	--	736.1
Minimum Value		23.0	70.0	0.9	--	734.5

Wind RoseCA – 03 (day 02)

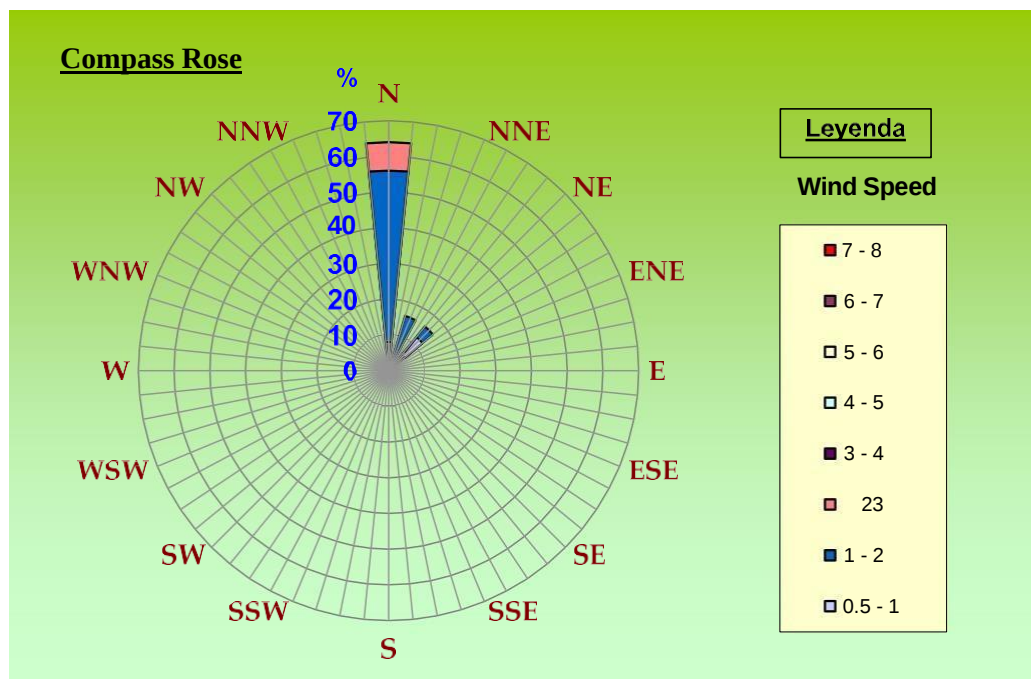


Table VI-15: Detailed results of Measurement Point CA - 03
Meteorological Parameters day 3.

METEOROLOGY						
Station/Sampling Code		CA-03		Description from the sampling point	LOCATED NEARBY TO ARTISANAL OVENS	
Coordinates WGS-84		E: 436927	N: 8 787373			
Date	Hour	Temperature (°C)	Humidity (%)	Wind speed (m/s)	Address of Wind	Pressure (mbar)
2025/02/25	3:00 PM	30.1	75.0	1.1	NE	735.2
2025/02/25	4:00 PM	30.2	77.0	1.1	N	735.3
2025/02/25	17:00	29.4	76.0	1.1	N	735.2
2025/02/25	18:00	28.3	78.0	1.1	N	735.5
2025/02/25	7:00 PM	27.1	79.0	1.1	N	734.5
2025/02/25	8:00 PM	26.4	78.0	0.9	N	734.5
2025/02/25	9:00 PM	26.3	83.0	0.9	NE	735.1
2025/02/25	22:00	24.8	88.0	0.9	NE	735.1
2025/02/25	11:00 PM	24.5	87.0	1.5	NE	735.1
2025/02/26	00:00	23.2	90.0	1.5	NNE	735.1
2025/02/26	01:00	23.2	92.0	1.5	N	734.6
2025/02/26	02:00	23.2	95.0	1.5	N	734.8
2025/02/26	03:00	23.1	95.0	1.5	N	734.8
2025/02/26	04:00	23.2	95.0	1.5	N	734.8
2025/02/26	05:00	23.1	96.0	1.5	NE	734.8
2025/02/26	06:00	23.5	97.0	1.3	N	735.1
2025/02/26	07:00	23.4	97.0	1.3	N	735.1
2025/02/26	08:00	25.7	88.0	1.3	N	735.1
2025/02/26	09:00	26.4	87.0	1.3	NE	735.1
2025/02/26	10:00	26.3	85.0	1.4	NE	734.9
2025/02/26	11:00	27.8	85.0	1.9	NE	734.9
2025/02/26	12:00	28.5	83.0	1.9	NE	734.9
2025/02/26	1:00 PM	29.9	80.0	0.9	NE	735.1
2025/02/26	2:00 PM	30.1	80.0	1.2	NNE	735.1
Average		26.3	86.1	1.3	N	735.0
Maximum Value		30.2	97.0	1.9	--	735.5
Minimum Value		23.1	75.0	0.9	--	734.5

Wind Rose CA – 03 (day 03)

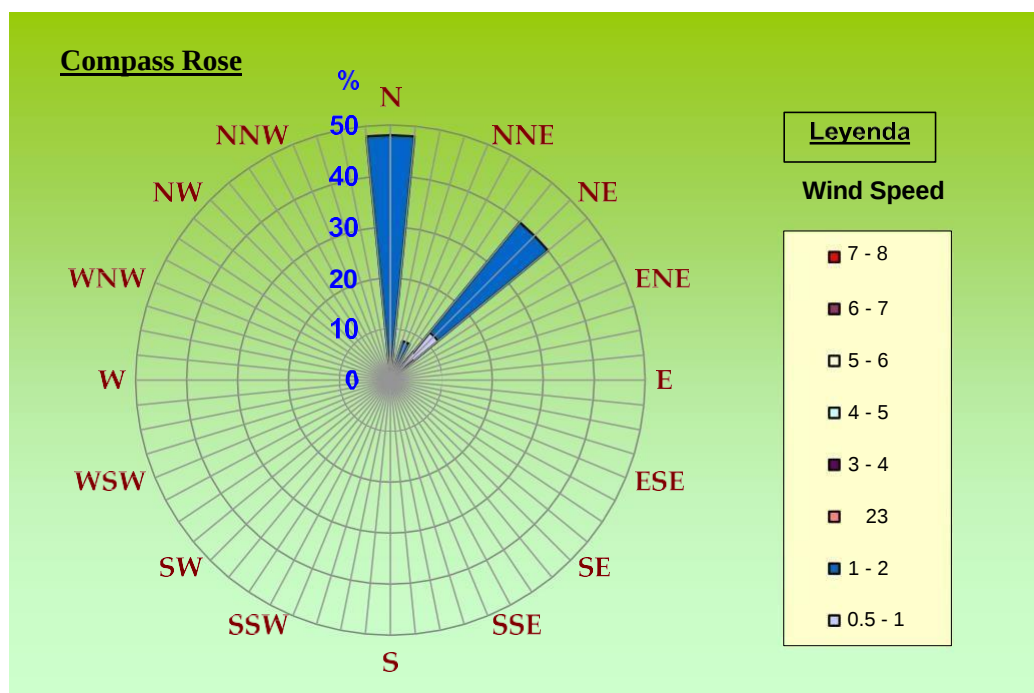


Table VI-16: Detailed results of Measurement Point CA - 03
Meteorological Parameters day 4.

METEOROLOGY						
Season / Sampling code		CA-03		Description from the sampling point	LOCATED NEARBY TO ARTISANAL OVENS	
Coordinates WGS-84		E: 436927	N: 8 787373			
Date	Hour	Temperature (°C)	Humidity (%)	Wind speed (m/s)	Address of Wind	Pressure (mbar)
2025/02/26	3:00 PM	30.1	79.0	2.5	NNE	734.7
2025/02/26	4:00 PM	29.5	80.0	1.8	NE	734.7
2025/02/26	17:00	28.4	85.0	1.8	NE	734.7
2025/02/26	18:00	28.1	85.0	1.8	NE	735.2
2025/02/26	7:00 PM	26.4	83.0	1.8	NE	735.2
2025/02/26	8:00 PM	25.9	83.0	1.4	NE	735.2
2025/02/26	9:00 PM	25.8	87.0	1.3	NE	735.1
2025/02/26	22:00	25.5	95.0	1.1	NE	734.8
2025/02/26	11:00 PM	24.5	96.0	1.1	NE	734.7
2025/02/27	00:00	24.6	96.0	1.1	N	734.5
2025/02/27	01:00	24.8	95.0	1.3	N	734.6
2025/02/27	02:00	23.9	95.0	1.3	NE	736.1
2025/02/27	03:00	23.8	95.0	1.3	NE	736.1
2025/02/27	04:00	23.8	95.0	1.1	NE	736.1
2025/02/27	05:00	23.7	96.0	0.9	NE	735.8
2025/02/27	06:00	23.6	96.0	1.2	NE	736.1
2025/02/27	07:00	24.5	96.0	1.3	N	736.1
2025/02/27	08:00	26.3	85.0	1.5	NE	736.1
2025/02/27	09:00	26.8	86.0	1.5	NE	736.1
2025/02/27	10:00	26.3	87.0	1.2	NE	735.3
2025/02/27	11:00	28.2	84.0	1.6	NE	735.3
2025/02/27	12:00	29.3	83.0	1.1	NE	734.8
2025/02/27	1:00 PM	29.3	83.0	1.0	NE	734.8
2025/02/27	2:00 PM	30.6	80.0	1.3	NE	734.8
Average		26.4	88.5	1.4	NE	735.3
Maximum Value		30.6	96.0	2.5	--	736.1
Minimum Value		23.6	79.0	0.9	--	734.5

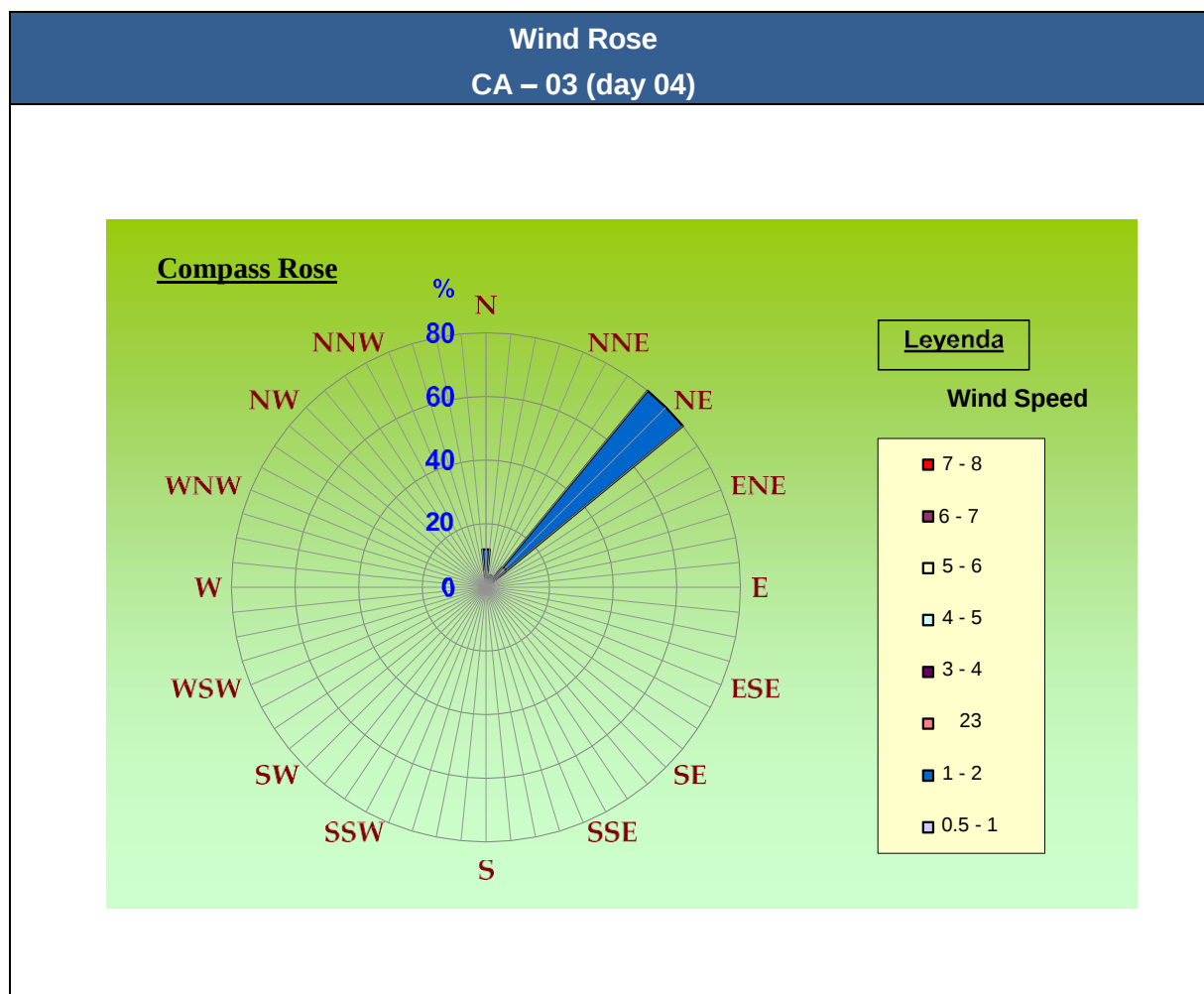


Table VI-17: Detailed results of Measurement Point CA - 03
Meteorological Parameters day 5.

METEOROLOGY						
Station/Sampling Code		CA-03		Description from the sampling point	LOCATED NEARBY TO ARTISANAL OVENS	
Coordinates WGS-84		E: 436927	N: 8 787373			
Date	Hour	Temperature	Humidity	Wind speed (m/s)	Address of Wind	Pressure
		(°C)	(%)			(mbar)
2025/02/27	3:00 PM	30.2	76.0	1.1	NE	734.6
2025/02/27	4:00 PM	30.1	75.0	1.2	NE	734.6
2025/02/27	17:00	29.6	76.0	1.3	NE	734.6
2025/02/27	18:00	28.5	77.0	1.0	N	734.8
2025/02/27	7:00 PM	27.6	78.0	1.0	N	734.5
2025/02/27	8:00 PM	27.4	84.0	1.0	N	734.5
2025/02/27	9:00 PM	25.9	86.0	1.0	NNE	735.3
2025/02/27	22:00	25.7	87.0	1.0	NNE	735.3
2025/02/27	11:00 PM	24.3	91.0	0.9	NNE	735.3
2025/02/28	00:00	24.3	91.0	1.1	NNE	735.3
2025/02/28	01:00	24.3	90.0	1.4	NNE	736.1
2025/02/28	02:00	24.3	92.0	1.2	NE	736.1
2025/02/28	03:00	24.1	93.0	1.5	NE	736.1
2025/02/28	04:00	24.1	93.0	1.8	NE	735.8
2025/02/28	05:00	24.2	93.0	1.4	NE	735.8
2025/02/28	06:00	24.3	92.0	1.3	N	736.1
2025/02/28	07:00	24.5	93.0	1.3	N	736.1
2025/02/28	08:00	25.8	83.0	1.3	N	736.1
2025/02/28	09:00	26.4	80.0	0.9	N	736.1
2025/02/28	10:00	27.8	82.0	1.2	NE	735.3
2025/02/28	11:00	27.9	84.0	1.2	NE	735.3
2025/02/28	12:00	28.5	85.0	1.2	NNE	735.3
2025/02/28	1:00 PM	29.3	86.0	1.2	NNE	735.5
2025/02/28	2:00 PM	30.1	84.0	1.1	NNE	735.5
Average		26.6	85.5	1.2	NE	735.4
Maximum Value		30.2	93.0	1.8	--	736.1
Minimum Value		24.1	75.0	0.9	--	734.5

Wind Rose CA – 03 (day 05)

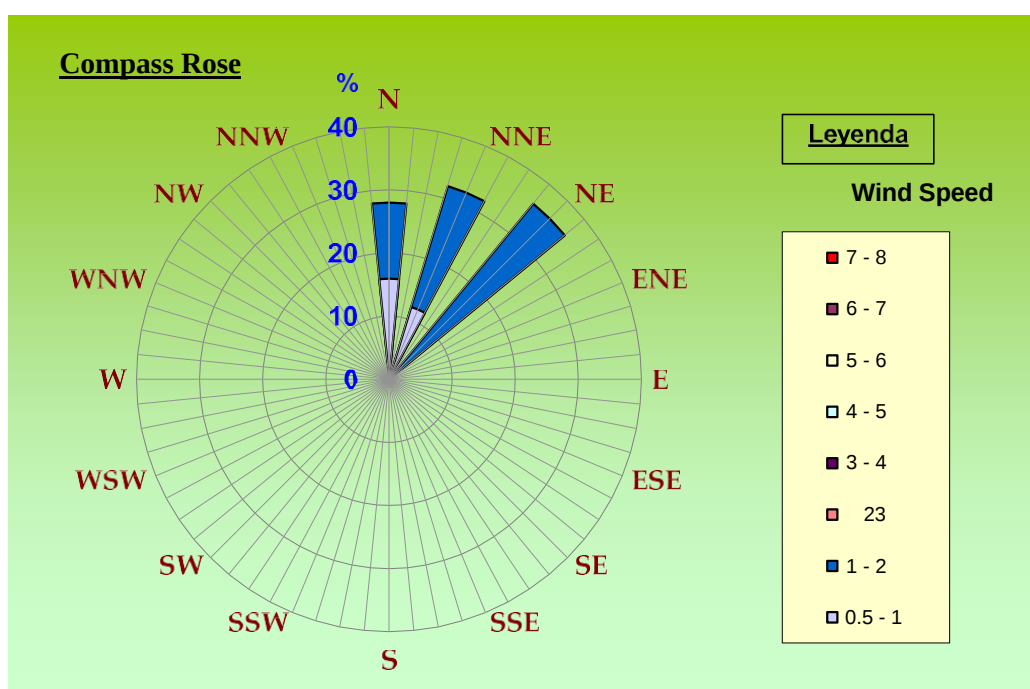


Table VI-18: Detailed results of Measurement Point CA - 04
Meteorological Parameters day 1.

METEOROLOGY						
Station/Sampling g Code		CA-04		Description from the sampling point	LOCATED NEARBY TO ARTISANAL OVENS	
Coordinates WGS- 84		E: 436940	N: 8 787488			
Date	Hour	Temperature	Humidity	Wind speed (m/s)	Addresso f Wind	Pressure
		(°C)	(%)			(mbar)
2025/02/23	2:00 PM	31.9	69.0	1.2	NE	734.2
2025/02/23	3:00 PM	30.5	70.0	1.2	NE	734.3
2025/02/23	4:00 PM	29.5	71.0	1.2	NE	734.1
2025/02/23	17:00	28.6	69.0	1.2	NE	734.1
2025/02/23	18:00	28.3	71.0	1.2	NE	734.3
2025/02/23	7:00 PM	27.2	71.0	1.2	NE	735.4
2025/02/23	8:00 PM	27.3	82.0	1.1	NE	735.0
2025/02/23	9:00 PM	26.2	86.0	1.1	N	735.3
2025/02/23	22:00	26.1	90.0	1.1	N	735.3
2025/02/23	11:00 PM	25.3	94.0	1.1	NE	734.9
2025/02/24	00:00	25.1	95.0	1.1	NE	734.7
2025/02/24	01:00	24.4	96.0	0.9	NE	734.8
2025/02/24	02:00	24.2	97.0	1.0	N	735.3
2025/02/24	03:00	24.2	97.0	1.4	N	735.1
2025/02/24	04:00	24.1	97.0	1.4	NE	735.1
2025/02/24	05:00	24.3	97.0	1.4	NE	735.2
2025/02/24	06:00	24.2	98.0	1.4	NNE	735.4
2025/02/24	07:00	24.2	98.0	1.4	NE	734.7
2025/02/24	08:00	25.4	86.0	1.2	NNE	734.6
2025/02/24	09:00	25.8	87.0	1.2	NNE	734.6
2025/02/24	10:00	26.9	85.0	1.5	NE	734.5
2025/02/24	11:00	28.1	83.0	1.3	NE	734.5
2025/02/24	12:00	28.7	84.0	1.2	NE	735.2
2025/02/24	1:00 PM	29.8	82.0	1.2	NE	735.1
Average		26.7	85.6	1.2	NE	734.8
Maximum Value		31.9	98.0	1.5	--	735.4
Minimum Value		24.1	69.0	0.9	--	734.1

Wind RoseCA – 04 (day 01)

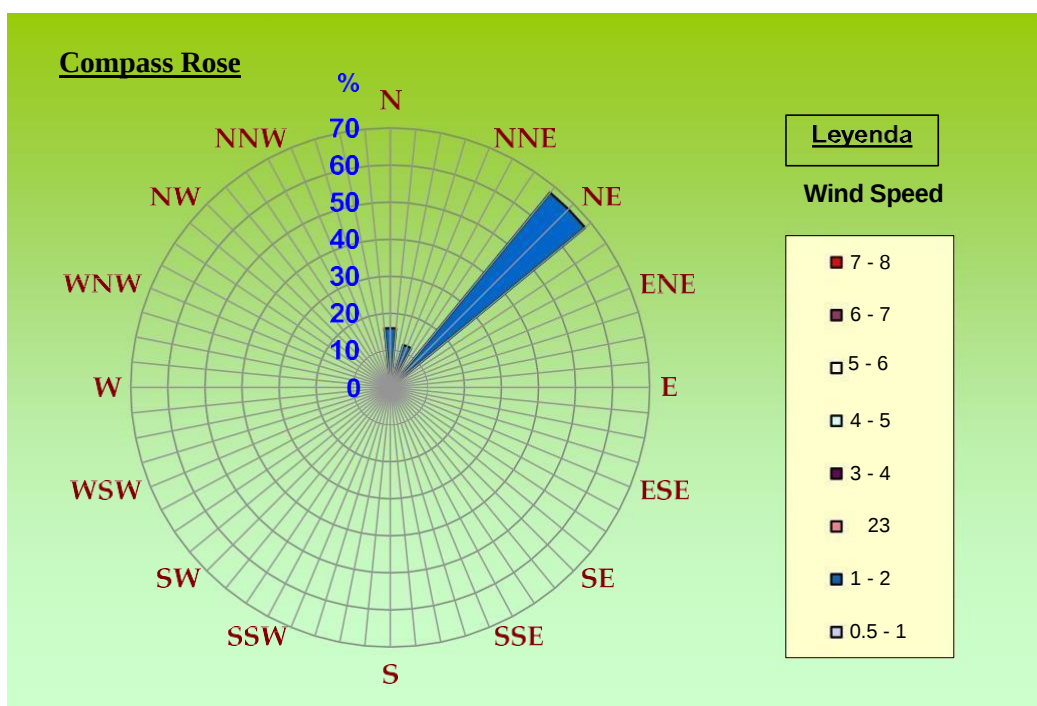


Table VI-19: Detailed results of Measurement Point CA - 04
Meteorological Parameters day 2.

METEOROLOGY						
Station/Sampling Code		CA-04		Description from the point sampling	LOCATED NEARBY TO ARTISANAL OVENS	
Coordinates WGS-84		E: 436940	N: 8 787488			
Date	Hour	Temperature (°C)	Humidity (%)	Wind speed (m/s)	Address of Wind	Pressure (mbar)
2025/02/24	2:00 PM	31.9	78.0	1.1	NE	734.1
2025/02/24	3:00 PM	31.6	78.0	1.1	NE	734.1
2025/02/24	4:00 PM	31.3	79.0	1.1	N	734.1
2025/02/24	17:00	28.9	79.0	2.1	N	734.1
2025/02/24	18:00	28.4	81.0	3.1	N	734.1
2025/02/24	7:00 PM	25.9	84.0	2.1	N	734.1
2025/02/24	8:00 PM	25.7	86.0	1.2	N	734.1
2025/02/24	9:00 PM	25.4	87.0	1.2	NNE	734.1
2025/02/24	22:00	24.5	89.0	1.2	NNE	734.3
2025/02/24	11:00 PM	24.0	91.0	1.2	NNE	734.3
2025/02/25	00:00	23.7	94.0	1.2	NNE	734.3
2025/02/25	01:00	23.6	95.0	1.1	N	734.5
2025/02/25	02:00	23.6	94.0	1.1	N	734.5
2025/02/25	03:00	23.4	94.0	1.1	N	734.5
2025/02/25	04:00	23.4	95.0	1.1	NE	734.5
2025/02/25	05:00	23.1	96.0	1.1	NE	734.7
2025/02/25	06:00	23.1	96.0	0.9	N	734.7
2025/02/25	07:00	24.4	96.0	1.1	N	734.7
2025/02/25	08:00	24.6	95.0	1.1	NE	734.7
2025/02/25	09:00	25.9	87.0	1.1	NE	735.2
2025/02/25	10:00	25.9	88.0	1.3	NE	735.2
2025/02/25	11:00	27.9	89.0	1.3	N	735.2
2025/02/25	12:00	28.8	85.0	1.3	N	734.9
2025/02/25	1:00 PM	29.8	84.0	1.3	N	734.9
Average		26.2	88.3	1.3	N	734.5
Maximum Value		31.9	96.0	3.1	--	735.2
Minimum Value		23.1	78.0	0.9	--	734.1

Wind RoseCA – 04 (day 02)

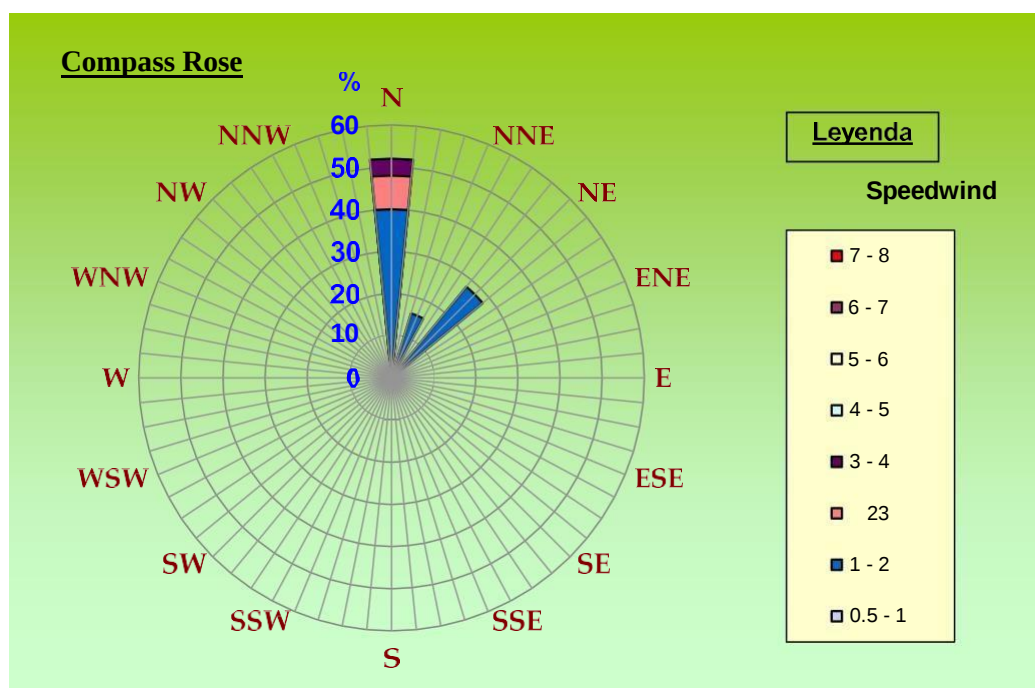


Table VI-20: Detailed results of Measurement Point CA - 04
Meteorological Parameters day 3.

METEOROLOGY						
Station/Sampling Code		CA-04		Description from the point of sampling	LOCATED NEARBY TO ARTISANAL OVENS	
Coordinates WGS-84		E: 436940	N: 8 787488			
Date	Hour	Temperature	Humidity	Wind speed (m/s)	Address of Wind	Pressure
		(°C)	(%)			(mbar)
2025/02/25	2:00 PM	31.2	75.0	1.3	N	734.1
2025/02/25	3:00 PM	30.2	78.0	1.6	NE	734.1
2025/02/25	4:00 PM	29.4	81.0	1.4	N	734.0
2025/02/25	17:00	28.4	81.0	1.1	NNE	734.0
2025/02/25	18:00	28.3	84.0	1.2	NE	734.0
2025/02/25	7:00 PM	27.1	84.0	1.1	N	734.0
2025/02/25	8:00 PM	26.3	83.0	1.1	N	734.6
2025/02/25	9:00 PM	25.5	83.0	1.1	NE	734.6
2025/02/25	22:00	25.4	88.0	1.1	NE	734.6
2025/02/25	11:00 PM	24.3	88.0	1.1	NE	734.8
2025/02/26	00:00	24.3	90.0	1.1	NE	734.8
2025/02/26	01:00	23.8	90.0	0.9	NE	735.1
2025/02/26	02:00	23.7	95.0	0.9	NE	735.2
2025/02/26	03:00	23.5	95.0	1.1	NE	735.4
2025/02/26	04:00	23.6	95.0	1.1	NE	735.4
2025/02/26	05:00	23.6	96.0	1.1	NE	734.6
2025/02/26	06:00	23.7	97.0	1.1	NE	734.6
2025/02/26	07:00	24.6	97.0	1.2	N	734.6
2025/02/26	08:00	24.6	86.0	1.2	N	734.2
2025/02/26	09:00	25.9	87.0	1.2	NE	734.2
2025/02/26	10:00	26.4	83.0	1.4	NE	734.1
2025/02/26	11:00	28.5	85.0	1.9	NE	734.1
2025/02/26	12:00	29.3	84.0	1.9	NE	734.6
2025/02/26	1:00 PM	29.5	84.0	1.4	NE	734.6
Average		26.3	87.0	1.2	NE	734.5
Maximum Value		31.2	97.0	1.9	--	735.4
Minimum Value		23.5	75.0	0.9	--	734.0

Wind RoseCA – 04 (day 03)

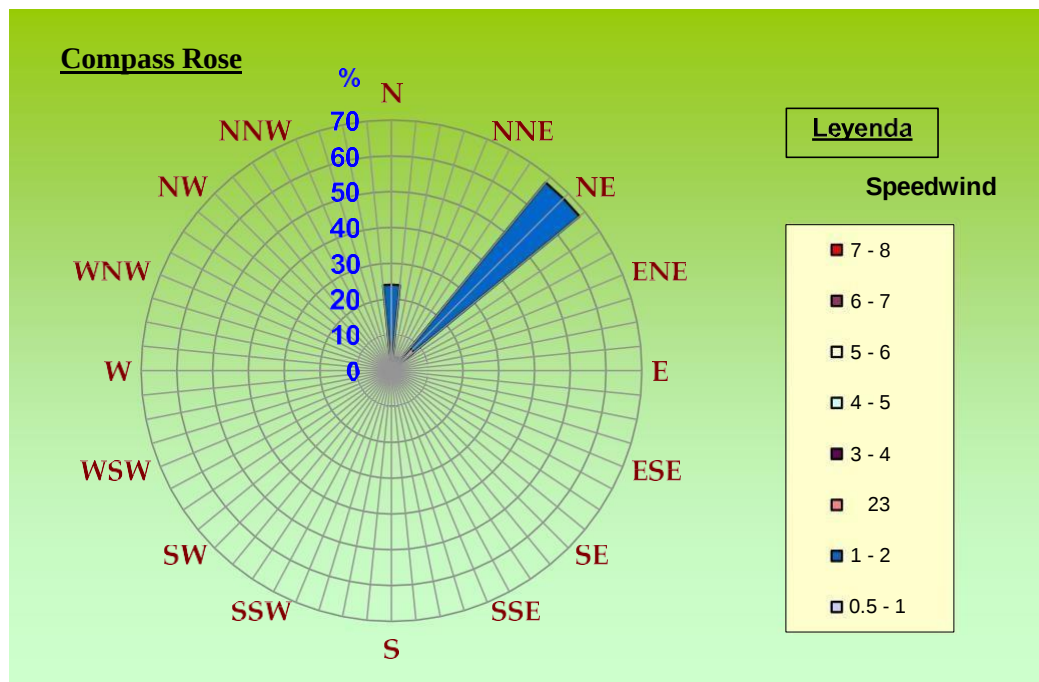


Table VI-21: Detailed results of Measurement Point CA - 04
Meteorological Parameters day 4.

METEOROLOGY						
Station/Sampling Code		CA-04		Description from the sampling point	LOCATED NEARBY TO ARTISANAL OVENS	
Coordinates WGS-84		E: 436940	N: 8 787488			
Date	Hour	Temperature (°C)	Humidity (%)	Wind speed (m/s)	Address of Wind	Pressure (mbar)
2025/02/26	2:00 PM	30.3	85.0	1.2	NNE	734.3
2025/02/26	3:00 PM	30.2	91.0	2.5	NNE	734.3
2025/02/26	4:00 PM	29.3	93.0	1.2	NE	734.3
2025/02/26	17:00	29.1	89.0	1.2	NE	734.3
2025/02/26	18:00	28.4	85.0	1.2	NE	735.2
2025/02/26	7:00 PM	27.3	86.0	1.2	NE	735.2
2025/02/26	8:00 PM	26.1	91.0	1.2	NE	735.2
2025/02/26	9:00 PM	25.3	93.0	1.2	NE	735.1
2025/02/26	22:00	24.8	95.0	1.2	NE	734.8
2025/02/26	11:00 PM	24.3	96.0	1.1	NE	734.9
2025/02/27	00:00	24.3	96.0	1.1	N	734.4
2025/02/27	01:00	24.3	95.0	1.1	N	735.7
2025/02/27	02:00	23.5	95.0	1.1	NE	735.6
2025/02/27	03:00	23.5	95.0	1.1	NE	735.8
2025/02/27	04:00	23.4	95.0	1.1	NE	736.2
2025/02/27	05:00	23.5	96.0	0.9	NE	736.3
2025/02/27	06:00	23.7	96.0	0.9	NE	736.4
2025/02/27	07:00	24.8	96.0	1.1	N	735.9
2025/02/27	08:00	25.1	88.0	1.5	NE	735.8
2025/02/27	09:00	25.7	89.0	1.5	NE	735.4
2025/02/27	10:00	26.7	87.0	1.2	NE	735.3
2025/02/27	11:00	28.5	86.0	1.6	NE	735.3
2025/02/27	12:00	29.9	85.0	1.3	NE	735.3
2025/02/27	1:00 PM	29.5	83.0	1.4	NE	735.3
Average		26.3	91.1	1.3	NE	735.3
Maximum Value		30.3	96.0	2.5	--	736.4
Minimum Value		23.4	83.0	0.9	--	734.3

Wind RoseCA – 04 (day 04)

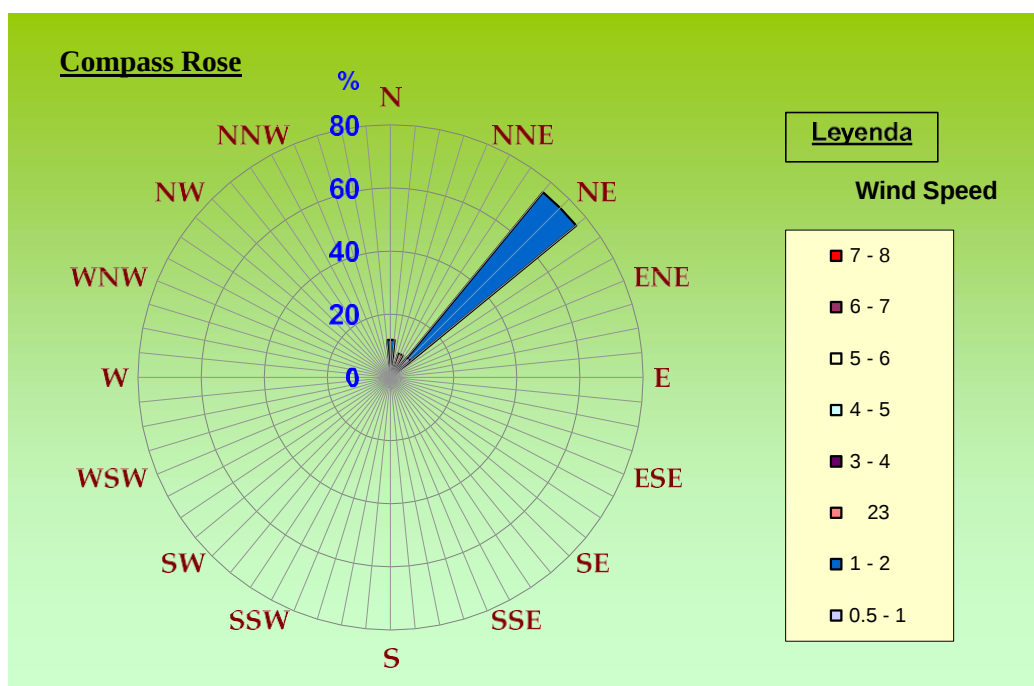
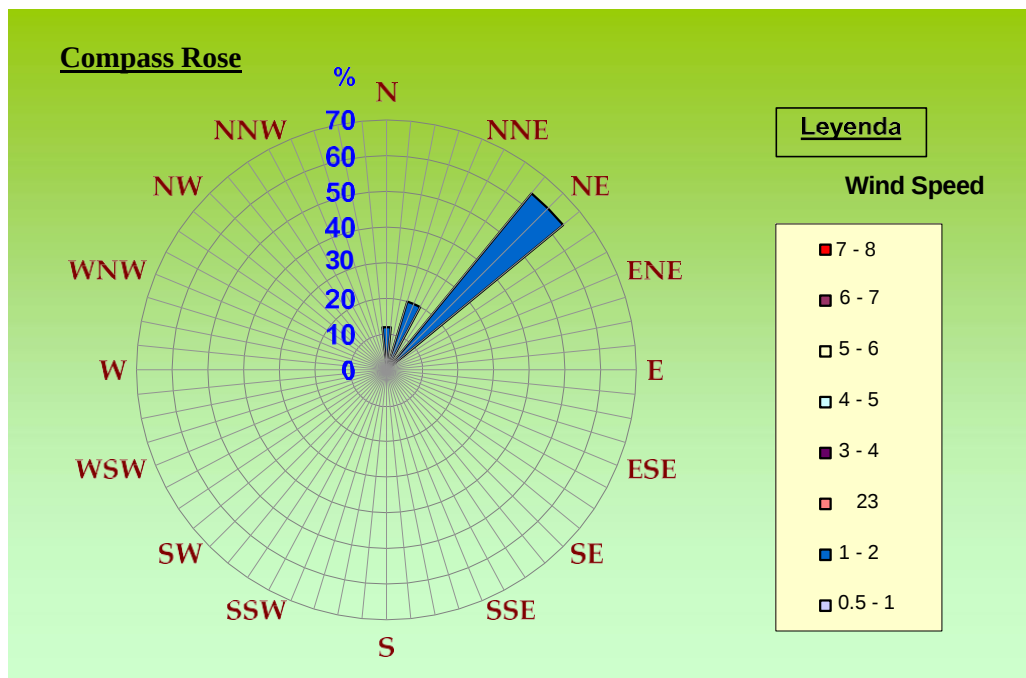


Table VI-22: Detailed results of Measurement Point CA - 04
Meteorological Parameters day 5.

METEOROLOGY						
Station/Sampling Code		CA-04		Description from the point sampling	LOCATED NEARBY TO ARTISANAL OVENS	
Coordinates WGS-84		E: 436940	N: 8 787488			
Date	Hour	Temperature (°C)	Humidity (%)	Wind speed (m/s)	Address of Wind	Pressure (mbar)
2025/02/27	2:00 PM	30.4	77.0	1.1	NE	735.1
2025/02/27	3:00 PM	30.1	78.0	1.1	NE	735.1
2025/02/27	4:00 PM	30.1	76.0	1.2	NE	735.1
2025/02/27	17:00	29.4	75.0	1.3	NE	734.9
2025/02/27	18:00	28.3	77.0	1.3	NE	734.9
2025/02/27	7:00 PM	28.1	78.0	1.3	NE	734.9
2025/02/27	8:00 PM	27.6	84.0	1.3	NE	734.8
2025/02/27	9:00 PM	27.4	86.0	1.1	NNE	734.8
2025/02/27	22:00	26.3	87.0	1.1	NNE	734.3
2025/02/27	11:00 PM	26.5	91.0	1.1	NNE	734.5
2025/02/28	00:00	25.4	91.0	1.1	N	734.5
2025/02/28	01:00	25.7	90.0	1.4	N	735.0
2025/02/28	02:00	24.8	92.0	1.2	NE	735.2
2025/02/28	03:00	24.5	93.0	1.5	NE	735.1
2025/02/28	04:00	24.3	93.0	1.8	NE	735.0
2025/02/28	05:00	24.3	93.0	1.4	NE	735.2
2025/02/28	06:00	24.3	92.0	1.3	N	734.7
2025/02/28	07:00	24.1	93.0	1.3	NE	734.7
2025/02/28	08:00	25.2	87.0	1.3	NE	734.5
2025/02/28	09:00	25.4	86.0	1.3	NE	734.5
2025/02/28	10:00	26.8	89.0	0.9	NE	734.4
2025/02/28	11:00	27.5	87.0	1.1	NE	734.6
2025/02/28	12:00	28.9	88.0	1.1	NNE	734.3
2025/02/28	1:00 PM	29.1	86.0	1.1	NNE	734.2
Average		26.9	86.2	1.2	NE	734.8
Maximum Value		30.4	93.0	1.8	--	735.2
Minimum Value		24.1	75.0	0.9	--	734.2

Wind RoseCA – 04 (day 05)



6.5. Comment

According to data collected by the meteorological station, weather conditions are suitable for air quality monitoring.

VII. ATMOSPHERIC EMISSION MONITORING

7.1. Specific objective

- Determine the concentration of gases resulting from emissions from stationary sources in the company.

7.2. Description of the sampling stations

Monitoring was carried out at a chimney; the location and description of the emission monitoring points are detailed in the following table.

Table VII-1: Location of Emission Monitoring Points.

Type of sampling	Monitoring points	Location of the Points
Atmospheric Emissions	EM-01	CAULDRON

Fountain: Own elaboration.

7.3. Analysis methodology

Table VII-2: Parameters and Analysis Methods – Atmospheric Emissions.

Parameters	Methodology	LCM
Nitrogen dioxide	CTM-022 / CTM-030; Determination of nitric oxide, nitrogen dioxide, and NO emissions _x , from stationary combustion sources by Electrochemical analyzer. / Determination of nitrogen oxides, carbon monoxide, and oxygen emissions from natural gas engines, boilers, and process heaters using portable analyzers.	0.19 mg/m ³
Carbon monoxide		1.14 mg/m ³
Nitric oxide		1.23 mg/m ³
Nitrous oxides		1.88 mg/
Oxygen		0.10%
Sulfur dioxide	EPA CFR 40, Part 60, Appendix A-4 to. Method 6 C.; Determination of sulfur dioxide emissions from stationary sources.	11.91 mg/m ³
Carbon monoxide	CTM-034; Draft method for the determination of O ₂ , CO and (NO and NO ₂) for periodic monitoring	0.1 ppm
Nitrous oxides		0.1 ppm
Particulate matter	EPA 46, Part 60, Appendix A. Method 5.1999; Determination of Particulate Matter from Stationary Sources.	1.2 mg/m ³

Fountain: Own elaboration.

7.4. Measuring Instrument

Table VII-3: Features of Measuring Equipment

Equipment	Brand	Code	Calibration date
Sampler Isokinetic EPA5	ECS	ECS-PE-033-05	March 19, 2024

7.5. Standards of comparison

Table VII-4: Permissible Limits of Atmospheric Emissions.

Parameter	Unit	Permissible Limit	Reference Standard
Particles	mg/m ³ N	50	IFC/WB (*)
Sulfur Dioxide	mg/m ³ N	2,000	
Nitrogen Oxides	mg/m ³ N	320 / 460	
Carbon Monoxide	mg/m ³ N	1 150	Decree No. 638 / 1995 (Venezuela) (**)

(*) IFC/WB International Finance Corporation of the World Bank. General Environmental Guidelines (01-07-98) / (30-04-2007).

(**) Air Quality and Atmospheric Pollution Control Regulations D. No. 638 (January 26, 1995).

Fountain: Own elaboration.

7.6. Results obtained

Table VII-5: Results of emissions monitoring at the burner station.

Assessment	Atmospheric Emissions					Coordinates	
Location	Cauldron (drying area)	Season		EM - 1	N: 8787439	E: 437148	
Parameter	Unit	1 st was a bullfig ht	2 nd Bullfig ht	3 rd was a bullfig ht	Average	LMP	Complies with the Standard
Carbon Monoxide (CO)	mg/m ³	57.50	183.33	377.92	206.25	1 150	BIRTHDAY
Nitrogen Oxides (NOx)	mg/m ³	128.99	110.65	124.53	121.39	320	BIRTHDAY
Sulfur Dioxide (SO ₂)	mg/m ³	10.20	9.70	11.40	10.43	2,000	BIRTHDAY
Particles	mg/m ³	22.37	23.63	21.37	22.46	50	BIRTHDAY

Note: The symbol (--) indicates that it does not correspond to a maximum limit that has been contemplated in the selected regulations.

Fountain: Own elaboration.

7.7. Comment

The monitoring of atmospheric emissions at the point (Cauldron) was carried out while the plant was operating normally.

VIII. AMBIENT NOISE LEVELS

8.1. Specific objective

- Determine the level of ambient noise existing in the area of influence during daytime hours in a timely manner and compare the results with the National Environmental Quality Standards for Noise established in Supreme Decree No. 085-2003-PCM.

8.2. Sampling and analysis methodology

Ambient noise measurements were conducted in accordance with the National Environmental Quality Standards for Noise, such as DS No. 085-2003-PCM, which in turn is based on Standard 1996-2:2008, Description, Measurement, and Evaluation of Environmental Noise. Part 2: Determination of Ambient Noise Levels.

A. General Guidelines

The ambient noise level was measured during the day. Based on these established criteria, the following descriptors were used: Equivalent Continuous Sound Pressure Level (CESL), which will be evaluated as a noise acceptance criterion.

The monitoring points stipulated in Annex XX of the Directorial Resolution of approval were located, where the sources generating noise were located and in turn generating the greatest impact on the outside environment.

Coordinate measurements were made with a GPS for each representative area, considering that they are located close to the transmitting source and the receiver.

There are no reflective surfaces or changing weather conditions.

B. Technical aspects used in noise measurement:

The sound level meter used for noise measurements is the Hangzhou Aihua Instruments, it is class 1 integrated, the weighting scale A was taken and the response is in "Slow", at the time of carrying out the environmental noise monitoring the following general guidelines were taken:

- The sound level meter was installed using a tripod as a support element in an appropriate location and orientation, keeping it separated from the operator's body at an acceptable distance, to avoid the phenomenon of wave concentration.
- The sound level meter microphone was placed at an angle of 75° to the floor, 1.50 m above the floor level.

The measurement took data such as the maximum sound pressure level (Lmax), minimum sound pressure level (Lmin), and equivalent continuous sound pressure level (LAeqT).

Table VIII-1: Methodology.

Rehearsal	Method	Units
Ambient Noise	NTP-ISO 1996-1 / NTP-ISO 1996-2, ACOUSTICS, Description, measurement and assessment of environmental noise. Part 1: Basic quantities and assessment procedures / Part 2: Determination of environmental noise levels.	dB

Fountain:Own elaboration.

8.3. Measuring Instrument

Table VIII-2: Measuring Equipment Characteristics

Equipment	Brand	Serial No.	Class	Calibration date
Sound level meter	ELICROM	626004	1	05/15/2024
Gauge Acoustic	LARSON DAVIS	19445	1	March 19, 2024

Fountain:Own elaboration.

8.4. Description of the sampling stations

The company is located in an industrial zone, where low vehicle traffic is observed. Environmental noise monitoring was carried out outside the plant at six (06) monitoring points, as established in its environmental management instrument. The following table details the location and description of the environmental noise control points.

Table VIII-3: Location of Environmental Noise Monitoring Points.

Spot	Description of the measurement point	UTM coordinates (WGS-84)	
		THIS	NORTH
RA-01	Located behind the warehouse	437 245	8 787 445
RA-02	Located in a log yard	437 067	8 787 542
RA-03	Located next to a tap and workers' housing	437 023	8 787 740
RA-04	Located at gate No. 2	436 727	8 787 793
RA-05	Located on the highway of	437 221	8 787 769
RA-06	Located next to the dining room and home	437 282	8 787 697

Fountain:Own elaboration.

8.5. Standards of comparison

The standards used for the evaluation of results are listed below, indicating the reference standard.

Table VIII-4: National Environmental Quality Standards for Noise.

Area	Daytime Schedule (1)	Night Schedule (2)	Unit
Special Protection Zone	50	40	dB (A)
Residential Area	60	50	
Shopping area	70	60	
Industrial Zone	80	70	
(1):from 07:01 to 22:00.			
(2):from 10:01 PM to 7:00 AM.			

Note:According to the National Environmental Quality Standards Regulation for Noise (DS No. 085-2003-PCM).

Fountain:Own elaboration.

8.6. Monitoring results

Sampling location: Company exterior. Sampling

date: February 19-21, 2025. Daytime hours:

Daytime.

Table VIII-5: Measurement Results – Ambient Noise Levels – Daytime.

Spot	Description of the measurement point	Geographic Location		Monitoring Date	Sampling Time		Noise Level (dBA)			ECA(1) for noise	Compliance with the Standard
		This	North		Start	End	Min.	Max.	They are equivalent L _{AeqT}		
RA-01	Located behind the warehouse	437 245	8 787 445	02/19/2025	4:00 PM	16:25	44.5	49.2	47.4	Industrial Zone 80 dB (A)	BIRTHDAY
RA-02	Located in a log yard	437 067	8 787 542	02/19/2025	15:25	15:50	44.7	67.2	54.1		BIRTHDAY
RA-03	Located next to the tapalready workers' housing	437 023	8 787 740	02/19/2025	14:50	15:15	43.9	68.2	54.3		BIRTHDAY
RA-04	Located at gate No. 2	436 727	8 787 793	21/02/2025	10:50	11:15	44.3	50.2	48.7		BIRTHDAY
RA-05	Located on the highway of	437 221	8 787 769	02/19/2025	14:20	14:45	44.9	69.1	55.3		BIRTHDAY
RA-06	Located next to the dining room and home	437 282	8 787 697	02/19/2025	1:50 PM	14:15	44.5	68.0	54.7		BIRTHDAY

(1) Environmental quality standard for Noise (DS No. 085-2003-PCM) – Industrial Zone.

Fountain: Own elaboration.

8.7. Comment

During the environmental noise quality monitoring outside the plant, low traffic of freight, public transport, and light vehicles was observed. No significant noise sources were recorded that could disrupt the environmental quality of the area.

IX. CONCLUSIONS AND RECOMMENDATIONS

10.1. Conclusions

Air Quality

- Concentrations of the parameters PM₁₀, CO, NO₂ and SW₂, obtained in The windward and leeward stations during environmental monitoring do not exceed the Environmental Quality Standards for Air, as established in Supreme Decree No. 003-2017-MINAM.
- From the results obtained, it can be stated that the influence on air quality due to the company's operations does not significantly influence the air quality in the area.

Atmospheric Emissions

- Regarding the monitoring of atmospheric emissions, at the boiler station (EM-01), according to the World Bank IFC guide (2007), it determines that the emissions from boilers obtained in the monitoring do not exceed the maximum permissible limit.

Ambient Noise Levels

- The ambient noise level taken outside the plant area does not exceed the Environmental Quality Standards for Noise, as stipulated in the DS No. 085-2003-PCM for industrial zoning.



10.2. Recommendations

- Continue to comply with the maintenance program for equipment, machinery, and vehicles that transit within the plant in order to reduce noise levels and the dispersion of particulate matter.
- Continue monitoring environmental control measures to reduce the impacts generated by the plant's activities.

ANNEXES

List of Annexes



Annex No. 1. Directorial Resolution No. 00151-2021-PRODUCE/DGAAMI.

Annex No. 2. Directorial Resolution No. 00360-2022-PRODUCE/DGAAMI.

Annex No. 3. Directorial Resolution No. 00026-2024-PRODUCE/DGAAMI

Annex No. 4. Directorial Resolution No. 0009-2022-ANA-AAA.MDD

Annex No. 5. Letter of completion of works and start of operation

Annex No. 6. Official Document No. 00003471-2024-PRODUCE/DGAAMI

Annex No. 7. Laboratory record

Annex No. 8. Company maintenance program.

Annex No. 9. Scrubber effectiveness report.

Annex No. 10. Preventive maintenance plan for biodigesters and its technical maintenance report.

Annex No. 11. Photographic evidence of the sludge drying pond.

Annex No. 12. Photographic evidence of sign maintenance Annex

No. 13. Artisanal oven maintenance program. Annex No. 14. Staff training documents.

Annex No. 15. Evidence of Annual Environmental Monitoring 2025

Annex No. 16. Certificate of calibration of monitoring equipment.

Annex No. 17. Chain of custody.

Annex No. 18. Test reports.

Annex No. 19. Flora and Fauna Report