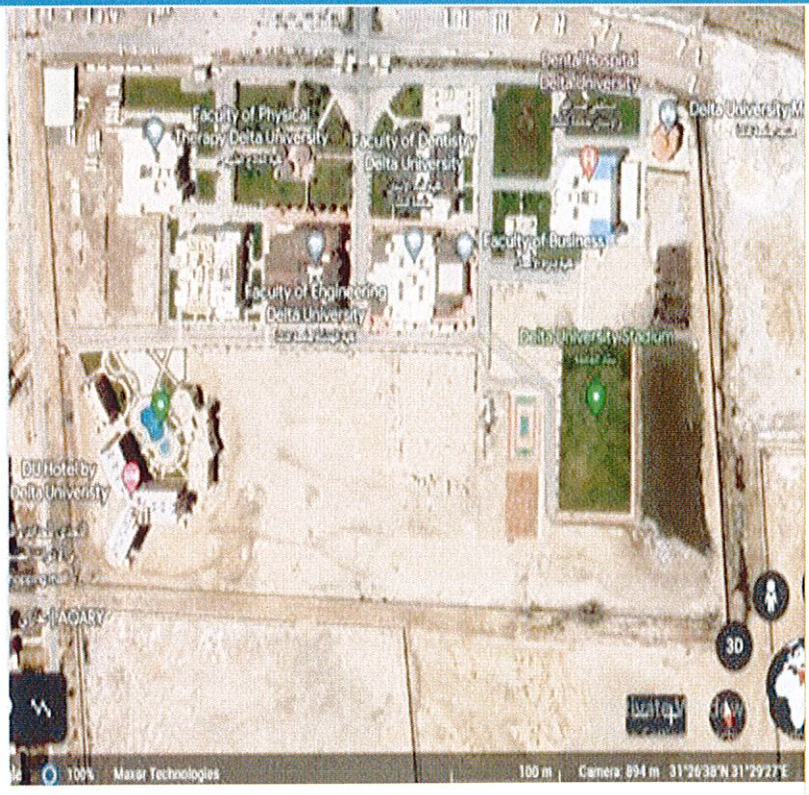
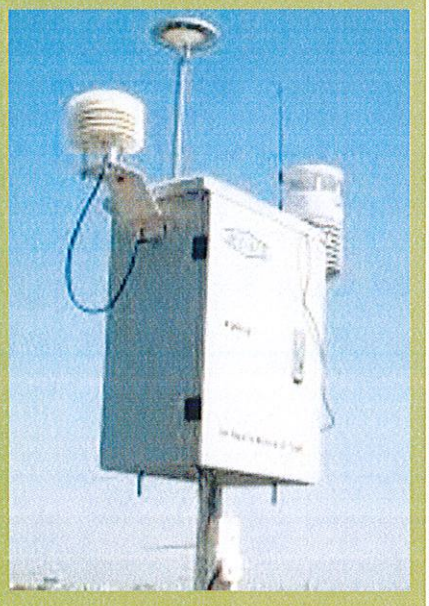
July, 2022

Ambient Air Monitoring Report For

Delta University For Science And Technology

Gamasa - International Coastal Road - Dakahlia Governorate





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ISO / IEC 17025:2017
Certified from EEAA

Team Work

IES Lab Team Work

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Dr .Marwa Saad	QM for IES Lab
Ch. Ashraf Khattab	Technical manager of the (IES lab)
Chem. Mohamed Rashed	Deputy for technical manger
Chem. Amin Khaled Amin	Deputy for quality manger
Tech / Mahmoud Imam	IES Sampling team
Tech / Hesham Saad	IES Sampling team

IES is an accredited and registered expertise office from the Environmental Affairs Agency with registration number 20/1/9/2022 where its laboratories are certified in environmental measurements from the Egyptian Accreditation Council (EGAC) ISO / IEC 17025:2017and the IES Lab applied all ISO/IEC17025:2017 requirements.

Report prepared by : **Dr .Marwa Saad**

Signature :

Report Reviewed by: **Dr. Ragab Abou Bakr**

Signature

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Certified from EEAA.....

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INTRODUCTION

According to the contract between Delta University for Science and Technology and **International Environmental Services (IES Lab.)** to conduct the ambient air quality measurements at Delta University For Science And Technology area which located at Gamasa - International Coastal Road - Dakahlia Governorate. IES Lab is an accredited and registered expertise office from the Environmental Affairs Agency with registration number 20/30/8/2018 where its laboratories are certified in environmental measurements from the Egyptian Accreditation Council (EGAC) ISO / IEC 17025), measurements were conducted on 6th July, 2022.

Objectives

The overall objective of the monitoring program is to assess of environment as a baseline study and actual case study measurements at Delta University for Science and Technology area.

GIA will typically include:

- Areas occupied by internal walls (whether structural or not) and partition.
- Service accommodation such as WCs, showers, changing rooms and the like.
- Columns, piers, whether free standing or projecting and inwards from an external wall chimney breasts, lift wells, stairwells etc.
- Lift rooms, plant rooms, tank room, foul stores, whether or not above roof level
- Open-sided covered areas (should be stated separately).

Scope of Work

The scope of work of the present monitoring rounds includes the sampling and analysis of active Areas in the surrounding area at Delta University for Science and Technology area.

The following ambient air pollutants where the target parameters to be measured during the monitoring program:

- Total Suspended Particulate (TSP)
- Thoracic particulate (PM_{10})
- Fine particulate ($PM_{2.5}$)
- Noise levels.
- Gaseous Air pollutants.
  - Nitrogen dioxide (NO_2).
  - Sulfur dioxide (SO_2).
  - Carbon monoxide (CO).
  - Carbon Dioxide (CO_2)
  - VOCs & CH_4

Assigned locations

The exact coordinates and timings of the sampling locations are shown in Table 1, shows the locations of measurements.

Table 1 Sampling locations for Delta University for Science and Technology area

- ***Assigned Locations:***

The following location is assigned by Company at the Delta University for Science and Technology **area:**

Sampling Location Name		GPS Readings (WGS 84 Coordinates)	
		N coordinates	E coordinates
Air P.1	North side	31°26'37.0"	31°29'39.0"
Air P.2	South side	31°26'31.0"	31°29'35.0"
Air P.3	East side	31°26'33.0"	31°29'36.0"
Air P.4	West side	31°26'31.0"	31°29'40.0"

"Location Map"



Figure (1)Sampling locations for Delta University For Science And Technology area

PPLICABLE NATIONAL LEGISLATION AND REGULATORY FRAMEWORK

The results of ambient air quality measurements were compared to the national limits set in Annex 5 of the Executive Regulation (D964/2015) for the ambient air quality.

Table 2 lists the corresponding applicable national ambient air quality permissible limits.

Table 2: Applicable national permissible limits for ambient air quality levels

Pollutant	Area	Maximum Concentration ($\mu g/m^3$)			
		1 hour	8 hours	24 hours	Year
Nitrogen dioxide (NO_2)	Urban Area Industrial Area	300 300	--- ---	150 150	60 80
Sulphur dioxide (SO_2)	Urban Area Industrial Area	300 350	---	125 150	50 60
Carbon monoxide (CO)	Urban Area Industrial Area	30 (mg/m^3)	10 (mg/m^3)	---	---
Ozone (O_3)	Urban Area Industrial Area	180 180	120 120	--- ---	--- ---
Total suspended particles (TSP)	Urban Area Industrial Area	--- ---	--- ---	230 230	125 125
Thoracic particles (PM10)	Urban Area Industrial Area	--- ---	--- ---	150 150	100 100
Particulate Matter (PM2.5)	Urban Area Industrial Area	--- ---	--- ---	100 100	70 70
Total suspended particles measured as black smoke	Urban Area Industrial Area	--- ---	--- ---	150 150	60 60
Lead	Urban Area Industrial Area	--- ---	--- ---	--- ---	0.5 1
Ammonia	Urban Area Industrial Area	--- ---	--- ---	120 120	--- ---

1.1.1 Work place conditions

The facility must operate such that any possible leakage or emission of air pollutants inside the workplace will not affect workers' health and safety (A45and 47/D1741). Annex 8 of the Executive Regulation provides the maximum limits for air pollutants inside the workplace.

The facility must operate such that humidity and temperature will be maintained within the set limits for workers (A46/D338, Annex 9 of the Executive Regulation). Suitable Personal Protective Equipment (PPE) is to be provided as required for workers in different areas of the facility (A46/D338).

1.1.2 Noise Emissions

The facility must meet noise regulations for within the workplace, outside the facility and for the area as a whole (A44/D1741). Permissible noise levels inside the workplace are also regulated in Annex 7 of the Executive Regulation and are presented in table 3.

Table 3: Maximum Permissible Limits for Noise Intensity inside the Workplace (dB (A)) (Annex 7 of the Executive Regulations of Law 9/2009)

Type of Place and Activity	Noise Limits (dB(A))
Work place with up to 8 hours shifts and aiming to limit noise hazards on sense of hearing.	**90**
Work place where acoustic signals and good audibility are required.	**80**
Work rooms for the follow up, measurement and adjustment of high performance operations.	**65**
Work rooms for computers, typewriters or similar equipment.	**70**
Work rooms for activities requiring routine mental concentration.	**60**

Intensity of noise shall not exceed 90 dB(A) during a daily 8-hour work shift. In case of increasing noise level intensity above 90 dB(A), the period of exposure must be reduced according to table (4).

Table 4: Periods of Exposure to Noise Intensities Above 90 dB (A) (Annex 7 of the Executive Regulations of Law 9/2009)

Noise intensity level (dB(A))	**93**	**96**	**99**	**102**	**105**
Period of exposure (hours)	**4**	**2**	**1**	**½**	**¼**

SAMPLING METHODOLOGY

A field visit was carried out on 6th July, 2022. on which a one-hour average measurement were conducted for SO_2, NO_2, CO, TSP, PM_{10} and $PM_{2.5}$ using an active air sampling technique for the specific locations.

Ambient Air Quality Monitoring Station used for active air measurements is an integrated system of which include several analyzers with data recording devises. A typical system would include gas analyzers for ambient air analysis, meteorological sensors, data recording, and signal transmission instrumentation enclosed in a shelter (2 x 4 x 2.5 meters) mounted over a suitable vehicle.

IES used an up-to-date ambient air quality monitoring station containing standard ambient air analyzer as well as full parameters weather monitoring station.

Ambient air pollutants

The most common gaseous air pollutants (also known as "criteria pollutants") are ground-level ozone, carbon monoxide, sulfur oxides, and nitrogen oxides. These pollutants can be harmful to health and the environment, and cause property damage. To acquire baseline information on background levels of Thoracic Particulates, IES conducted active sampling using a dust sampler. The sampler measures the respirable fraction of airborne dust (of particle size 0.1 to 10 µm) with a measuring range of 0.001 to 400 mg/m^3 and an accuracy of ± 5 % of the reading.

Ambient air quality monitoring station include

- NO_2 analyzer: ISO 7996 equivalent to (U.S.A EPA Reference method – RFNA-1289-74)
- Chemiluminescence SO_2 analyzer: ISO 10498 equivalent to (U.S.A EPA Reference method – EQSA-0486-60)
- UV Fluorescence CO analyzer: ISO 4224 equivalent to (U.S.A EPA Reference method – RFCA-0981-54)
- IR GFC PM_{10} analyzers: ISO 10473 equivalent to (U.S.A EPA Reference method EQPM-1102-150) –
- Beta Gauge $PM_{2.5}$ analyzers: ISO 12103-1
- A2 T.S.P high volume sampler equivalent to (EPA Compendium method I.O. 2.1)
- A calibration system: Calibration Cylinders for (NO, CO & SO_2)-USA Zero air unit models 111 – USA Span Calibration unit 146i - USA

General Specifications

Nitrogen Monoxide, Nitrogen Dioxide and Nitrogen Oxides NO, NO_2& NO_X Analyzer (Thermo Scientific NO_2 Analyzer - Model 42i- USA)

- Approval and Certification: U.S.EPA (USA), UBA/ TUV (Germany), / Sira Certification Service
- Measuring Method. Chemiluminescence Technology
- Ranges. Auto ranging feature, Multiple Ranges to cover from 0 to 20 ppm (especially from 0 to 1 ppm)
- Zero Noise: ≤ 0.2 ppb
- Lower Detectable Limit: ≤ 0.4 ppb
- Zero drift (daily): < 0.5 ppb
- Span drift (daily): < 0.5% of full scale
- Response time: fast, ≤ 100 seconds
- Precision: ≤ 0.5% of reading
- Linearity: ≤ ± 1% of full scale
- Operating temperature: not exceed 40 °C

Sulphur Dioxide SO_2 Analyzer (Thermo Scientific SO_2 Analyzer model 43i-USA)

- Approval and Certification: U.S.EPA (USA), UBA/ TUV (Germany), / Sira Certification Service
- Measuring Method: UV Fluorescence Technology
- Ranges.: Auto ranging feature, Multiple Ranges to cover from 0 to 10 ppm (especially from 0 to 1 ppm)
- Zero Noise: ≤ 0.5 ppb
- Lower Detectable Limit: ≤ 1 ppb
- Zero drift (daily): ≤ 1 ppb
- Span drift (daily): ≤ 1% of full scale
- Response time: fast, ≤ 100 seconds
- Precision: ≤ 0.5% of reading
- Linearity: ≤ ± 1% of full scale
- Operating temperature: not exceed 40 °C

Carbon Monoxide CO Analyzer (Thermo Scientific CO Analyzer model 48i-USA)

- Approval and Certification: U.S.EPA (USA), UBA/ TUV (Germany), / Sira Certification Service
- Measuring Method: Non Destructive Infra-Red Gas Filter Correlation (IRGFC) Technology
- Ranges: Auto ranging feature, Multiple Ranges to cover from 0 to 200 ppm (especially from 0 to 50 ppm)
- Zero Noise: ≤ 0.02 ppm
- Lower Detectable Limit: ≤ 0.04 ppm
- Zero drift (daily): ≤ 0.1 ppm
- Span drift (daily): < 0.5% of reading
- Response time: fast, ≤ 100 seconds
- Precision: ≤ 0.5% of reading
- Linearity: ≤ ± 1% of full scale
- Operating temperature: not exceed 40 °C

Ambient Respirable Particulate Matter Monitor_PM_{10} (Particulate Monitor Thermo Scientific FH 62C14)

- Approval and Certification: U.S.EPA (USA), UBA/ TUV (Germany), / Sira Certification Service
- Measuring Method: Sequential Particulate Collection on Individual Filter Membranes coupled with Beta Ray Attenuation
- Sampling at ambient temperature with measurement of both the outside temperature and the temperature near the filter medium.
- Sampling on filter membranes which can be used for further Chemical analyses as required by current regulations and standards.
- Completely automatic management of sampling and measurement quality controls.
- On line monitoring of all parameters characterizing the sampling process with relevant warnings of possible anomalies.
- Eliminates any interference of natural airborne radioactivity.
- User selectable reporting of mass concentration based on standard or actual flow rate.
- Sampling and measurement data storage on internal buffer.

- The analyzer should be equipped with batteries in order to avoid possible data losses due to power failures.
- Source: Beta Ray Source with appropriate activity
- Ranges: 0-500 µg/ m3 (2.3 m3/ h operating flow rate); 0-1,000 µg/ m3 (1 m3/ h operating flow rate)
- Lower Detectable Limit: ≤ 1.5 µg/ m3 (24 hour cycle time, 2.3 m3/ h operating flow rate)
- Precision: ≤ 0.4 µg/ m3 (24 hour cycle time, 2.3 m3/ h operating flow rate)
- Correlation Coefficient R > 0.98

Ambient Total Suspended Particulate Monitor TSP (HIVOL PLUS)

- Particulate Size: Total Suspended Particulates
- EPA Designation: 40 CFR Part 50 Appendix B
- Flow Controller: PLUS Technology
- Motor Style: Brush or Brushless Style Motor Assembly
- Timer: Programmable Digital
- Elapsed Time Indicator: Digital, Hours and Tenths
- Flow Range: 35-60 CFM
- Housing: Anodized Aluminum
- Filter Holder: Stainless Steel
- Barometric Pressure Sensor: 600-800 mmHg
- Temperature Sensor: -40 to 90oC
- Data Logs(4): Timer, Interval, Power, Calibration

Ambient Fine Particulate Matter Monitor_$PM_{2.5}$ (Casella Microdust Pro - Dust Monitor)

- Measuring Range: 0.001 mg/m3 - 250,000 mg/m3
- Zero Stability: <2µg/m3
- Batteries:3 x AA
- External Power: 12VDC (via -PC18 supply)
- Logging Interval:1 sec to 60 minutes
- Communication: Mini B USB
- Instrument Size: 172 x 72 x 33 mm (6.8 x 2.8 x 1.3")
- Probe Size: 35 x 205 mm (1.4 x 8.1")

- Tripod Mount: 1/4" Whitworth
- Resolution: 0.001mg/m3
- Operating temp: 0 - 55°C
- Battery run time: Approx 13 hours
- Weight: 600g including batteries (<22oz)
- Analogue output: 0 - 2.5V DC FSD
- Alarm output: Switched open drain <15V & 500mA DC

Noise Monitoring Equipment

The noise measurement will be carried out by using Type I which will be capable of recording the referenced noise level parameters.

The kit we are proposing to use is as follows:

- Sound Level Meter Casella - 62X- UK, compliant with IEC 1672 Class 1 standard.
- Sound Level Calibrator, compliant with IEC 942 Class 1 standard.

Device Name	Device's Measured parameter	Method of measurements	Device's photo
Sound Level Meter Casella - 62X- UK	-Measurement and assessment of environmental noise -Determination of occupational noise exposure	ISO -1996 part I ISO -1996 part II ISO 9612	

RESULTS

Average air quality environmental measurements results

at Delta University for Science and Technology area

Date: 6th July, 2022

Table 5: The average results for (TSP, PM_{10}&$PM_{2.5}$) ($\mu g/m^3$)

Location	TSP $\mu g/m^3$	PM_{10} $\mu g/m^3$	$PM_{2.5}$ $\mu g/m^3$
Air P.1	105	28	13
Air P.2	100	24	10
Air P.3	118	32	15
Air P.4	121	34	17
Egyptian Guideline	230	150	80

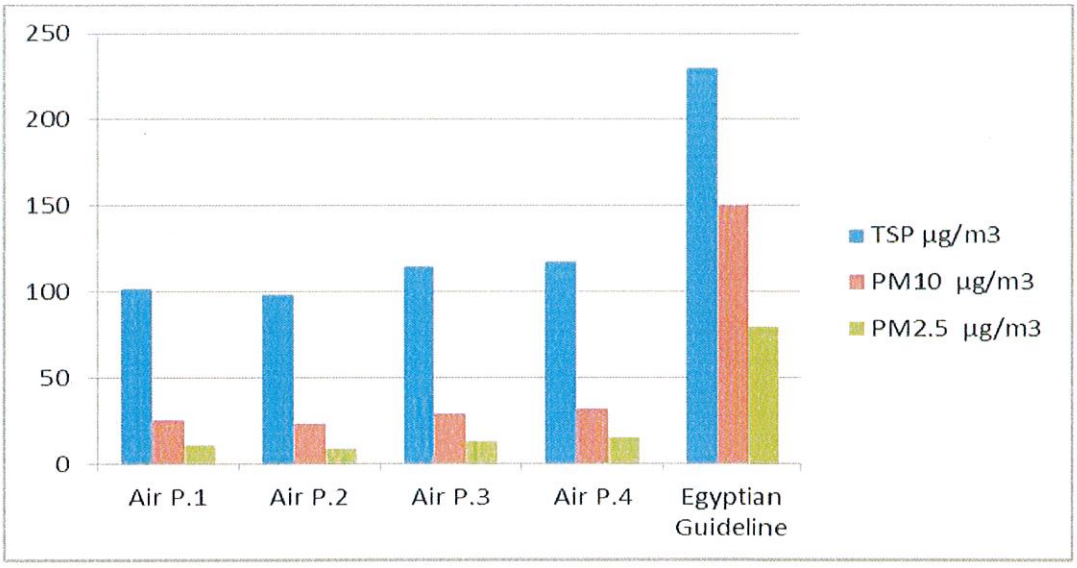
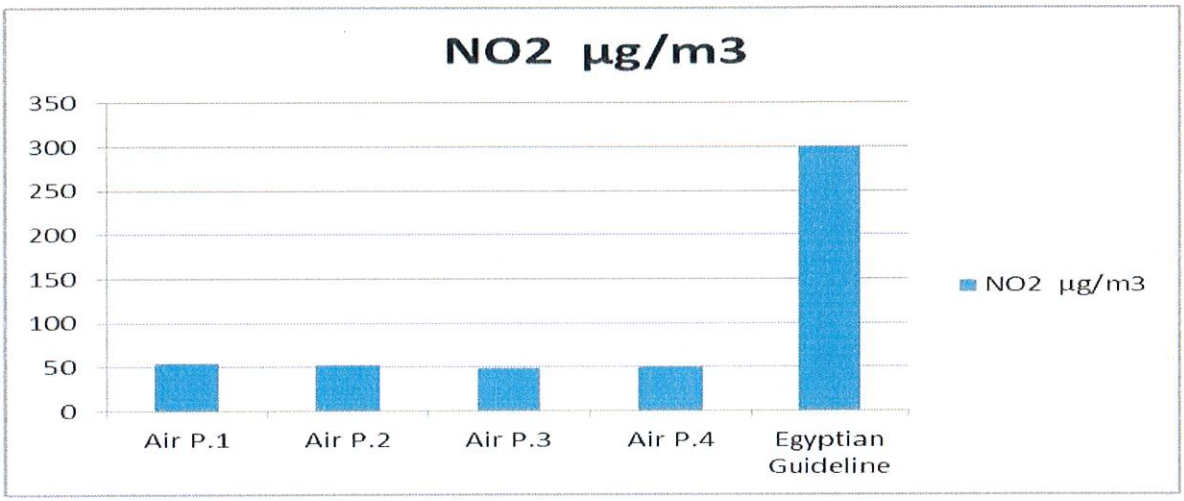


Figure 2 :The average results for (TSP , PM_{10}&$PM_{2.5}$) ($\mu g/m^3$)

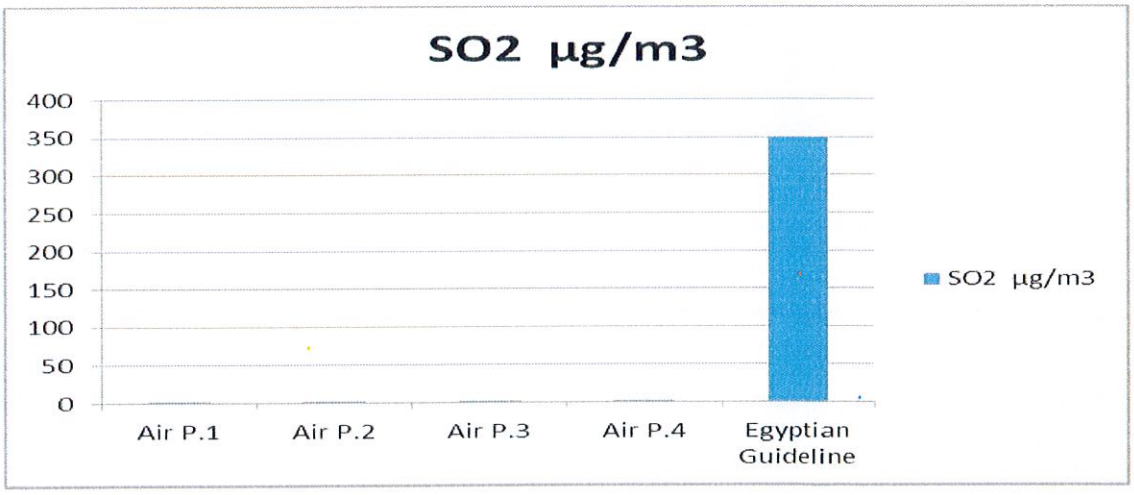
Date: 6th July, 2022

Table 6: The average results for (CO , SO_2 , CO_2, VOCs, CH_4 and NO_2)

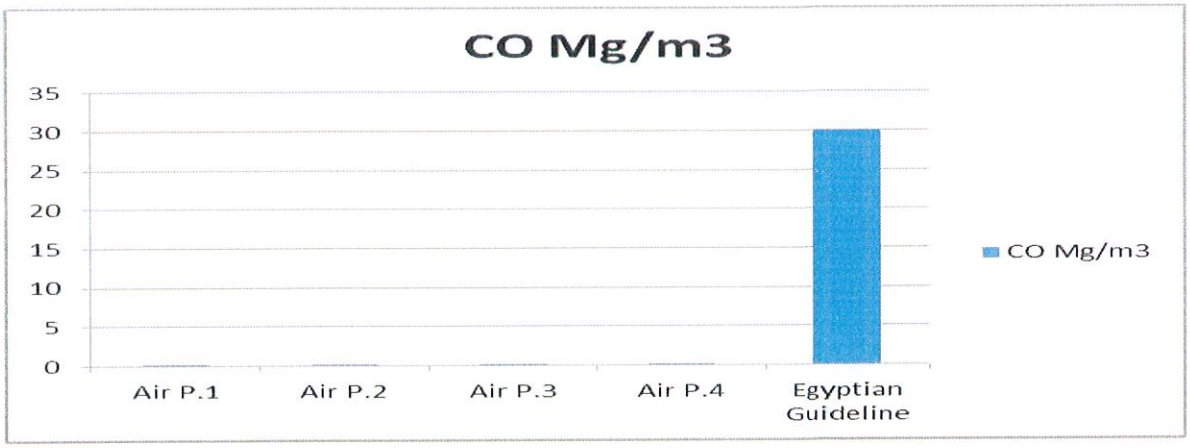
Location	NO_2 $\mu g/m^3$	SO_2 $\mu g/m^3$	CO mg/m^3	CO_2 ppm	VOCs ppm	CH_4 ppm
Air P.1	57	0.19	0.17	325	Nil	0.12
Air P.2	53	0.25	0.18	329	Nil	0.13
Air P.3	49	0.26	0.19	310	Nil	0.09
Air P.4	51	0.24	0.24	318	Nil	0.16
Egyptian Guideline	300	350	30	----	------	-----



The average results for (NO_2)



The average results for (SO2)

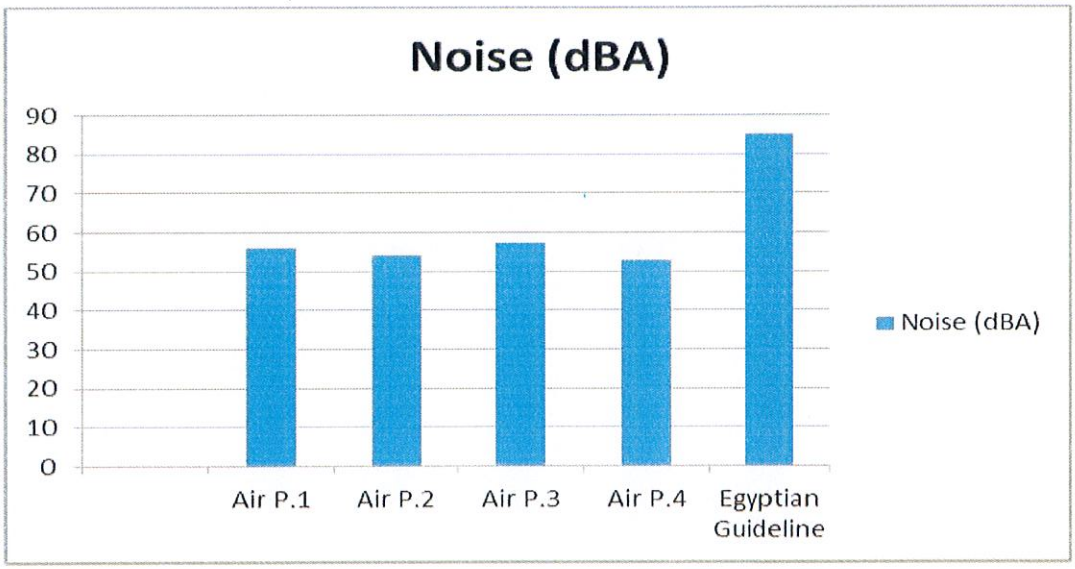


The average results for (CO)

Date: 6th July, 2022

Table 7: The average results for Noise levels (dBA)

Location	Noise (dBA)
Air P.1	57.1
Air P.2	55.2
Air P.3	57.8
Air P.4	52.9
Egyptian Guideline	85



The average results for Noise levels (dBA)

CONCLUSION AND RECOMMENDATIONS

Based on the results of ambient air quality measurements during air quality monitoring measurements during the period of **6th July, 2022**

. it is concluded that ambient air quality gaseous and particulates levels at measurement locations are way below the maximum national limits for all the measured parameters,

Particulate measurements (TSP , PM_{10} and $PM_{2.5}$):

All measurements for the particulates pollutants (TSP&PM10 and PM2.5) were complying with the maximum allowable limits according to law 4/1994 for Environment protection and its amendments by law No.9/2009 and the executive regulation issued in 1995 and its amendments no. 710 in 2012 and no. 964 in 2015.

Gaseous air pollutants:

All measurements for the gaseous pollutants (NO_2, SO_2, CO_2 , VOCs , CH_4 and CO) were complying with the maximum allowable limits according to law 4/1994 for Environment protection and its amendments by law No.9/2009 and the executive regulation issued in 1995 and its amendments no. 710 in 2012 and no. 964 in 2015.

Noise Levels:

All measurements for the Noise levels were complying with the maximum allowable limits according to law 4/1994 for Environment protection and its amendments by law No.9/2009 and the executive regulation issued in 1995 and its amendments no. 710 in 2012 and no. 964 in 2015.

Indoor air quality measurements

Assigned locations *for the Delta University Buildings*

The exact coordinates and timings of the sampling locations are shown in Table 1, shows the locations of measurements.

Table 7: Sampling locations for Delta University for Science and Technology area

- ***Assigned Locations:***

The following location is assigned by GPS

Sampling Location Name	GPS Readings (WGS 84 Coordinates)	
	N coordinates	E coordinates
Faculty of Engineering	31°26'30.0"	31°29'39.0"
the hotel	31°26'33.0"	31°29'35.0"
Faculty of Dentistry	31°26'32.0"	31°29'38.0"
Faculty of Physical Therapy	31°26'26.0"	31°29'45.0"
Business administration building	31°26'31.0"	31°29'42.0"
faculty of Pharmacy	31°26'32.0"	31°29'36.0"



Figure (2) Sampling locations for *Delta University Buildings*

RESULTS

Average air quality environmental measurements results

At Delta University Buildings area

Date: 6th July, 2022

Table 8: The average results for (TSP, PM_{10}&$PM_{2.5}$) (mg/m^3)

No	Location	TSP mg/m^3	PM_{10} mg/m^3	$PM_{2.5}$ mg/m^3
1-	**Faculty of Engineering**			
	Ground floor next to the reception	0.298	0.108	0.051
	Teaching room at the College of Engineering	0.205	0.099	0.043
	Carpentry workshop next to the saw	0.918	0.326	0.199
	Welding workshop	1.635	0.525	0.219
	Materials testing lab	0.218	0.106	0.058
2-	**Business administration building services area**	0.194	0.085	0.040
3-	**Plant greenhouse in the garden of the College of Pharmacy**	0.185	0.079	0.035
4-	**The hotel is next to the pool**	0.188	0.082	0.038
5-	**Faculty of Dentistry**			
	Service center Fourth floor, next to Delta Plus	0.192	0.084	0.039
	Wooden pergola at the Faculty of Dentistry	0.201	0.096	0.045
6-	**Faculty of Physiotherapy, second floor**	0.184	0.078	0.036
Guideline		**10**	**3.0**	**--**

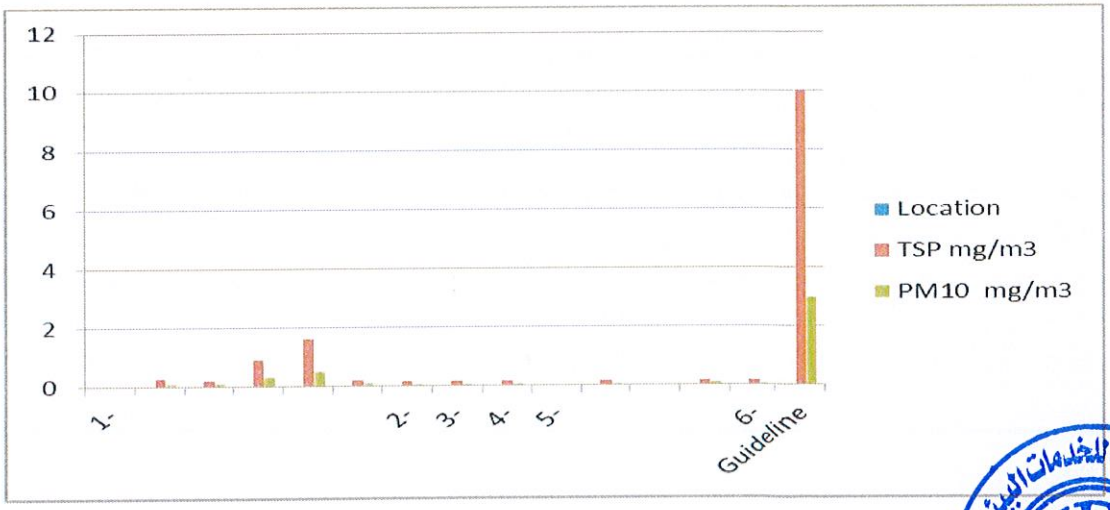


Figure 8: The average results for (TSP, PM_{10}) ($\mu g/m^3$)

Date: 6th July, 2022

Table 9: The average results for (CO, SO_2 and NO_2)

No	Location	NO_2 ppm	SO_2 ppm	CO ppm	CO_2 ppm	VOC_s ppm	CH_4 ppm
1-	**Faculty of Engineering**						
	Ground floor next to the reception	0.10	0.08	0.68	396	Nil	0.21
	Teaching room at the College of Engineering	0.09	0.09	0.55	385	Nil	0.22
	Carpentry workshop next to the saw	1.05	0.68	1.18	427	0.37	0.39
	Welding workshop	1.5	1.19	3.59	519	0.55	0.45
	Materials testing lab	0.08	0.09	0.75	415	0.13	0.28
2-	**Business administration building services area**	0.06	0.07	0.49	358	Nil	0.24
3-	**Plant greenhouse in the garden of the College of Pharmacy**	0.07	0.08	0.71	386	0.18	0.27
4-	**The hotel is next to the pool**	0.08	0.11	0.64	379	0.14	0.25
5-	**Faculty of Dentistry**						
	Service center Fourth floor, next to Delta Plus	0.09	0.12	0.48	367	0.19	0.20
	Wooden pergola at the Faculty of Dentistry	0.09	0.06	0.39	372	Nil	0.19
6-	**Faculty of Physiotherapy, second floor**	0.06	0.04	0.37	375	Nil	0.17
Guideline		**3**	**2**	**25**	**5000**	**----**	**---**

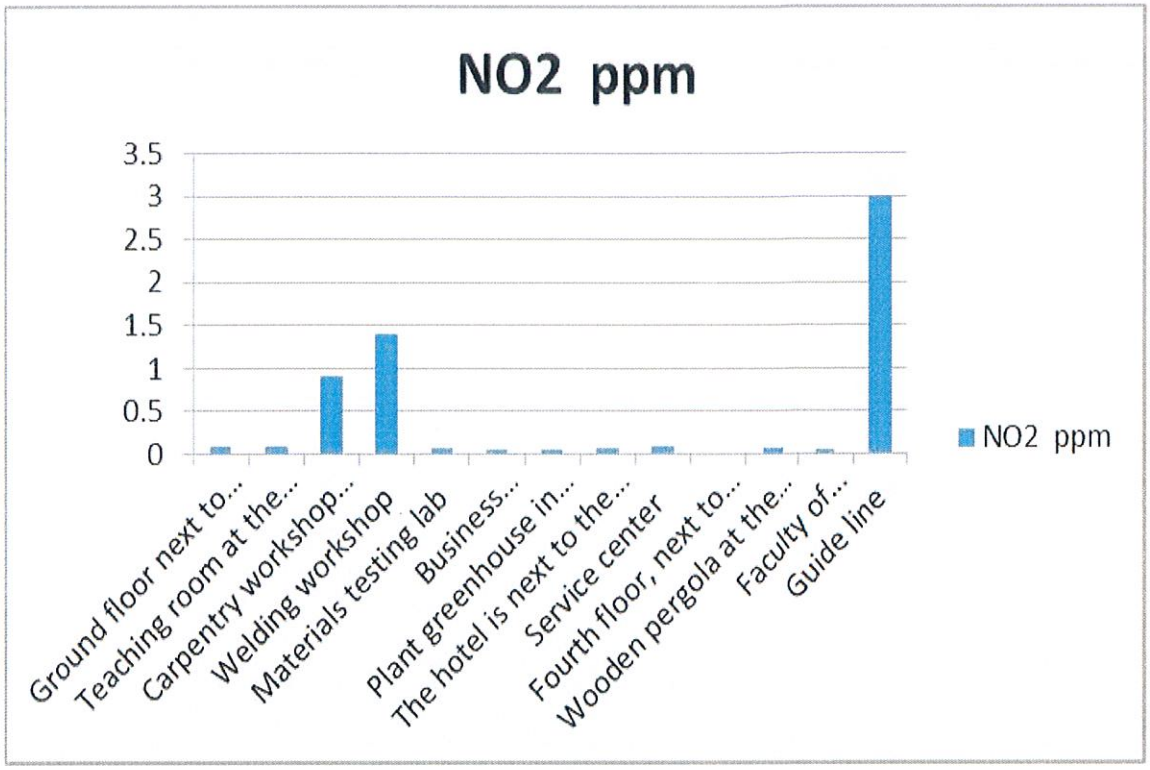
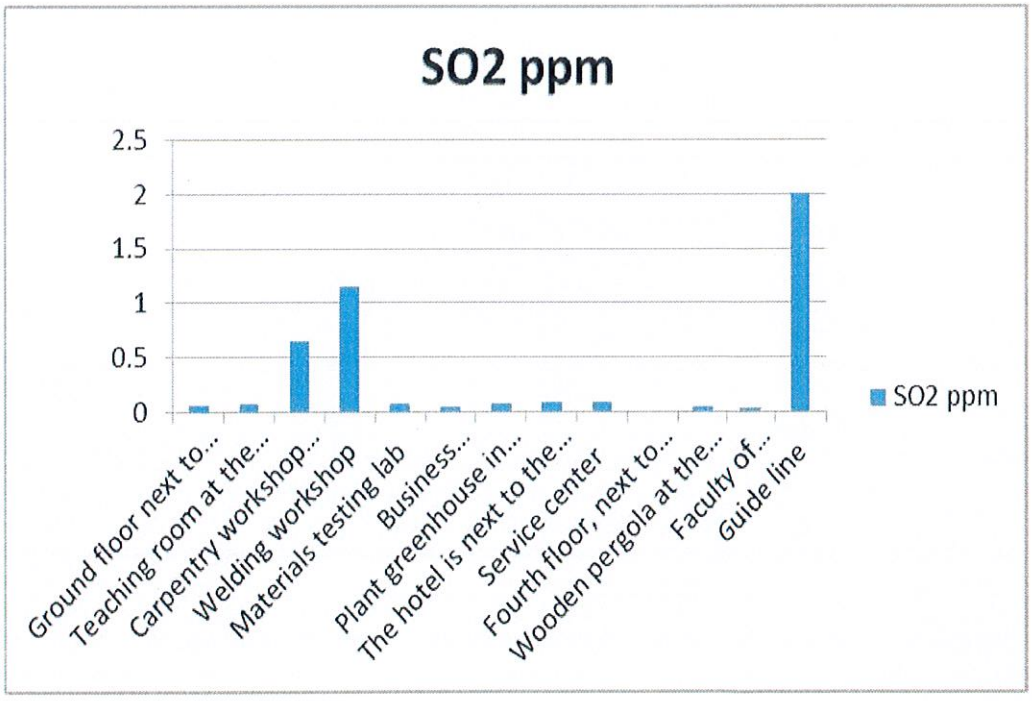
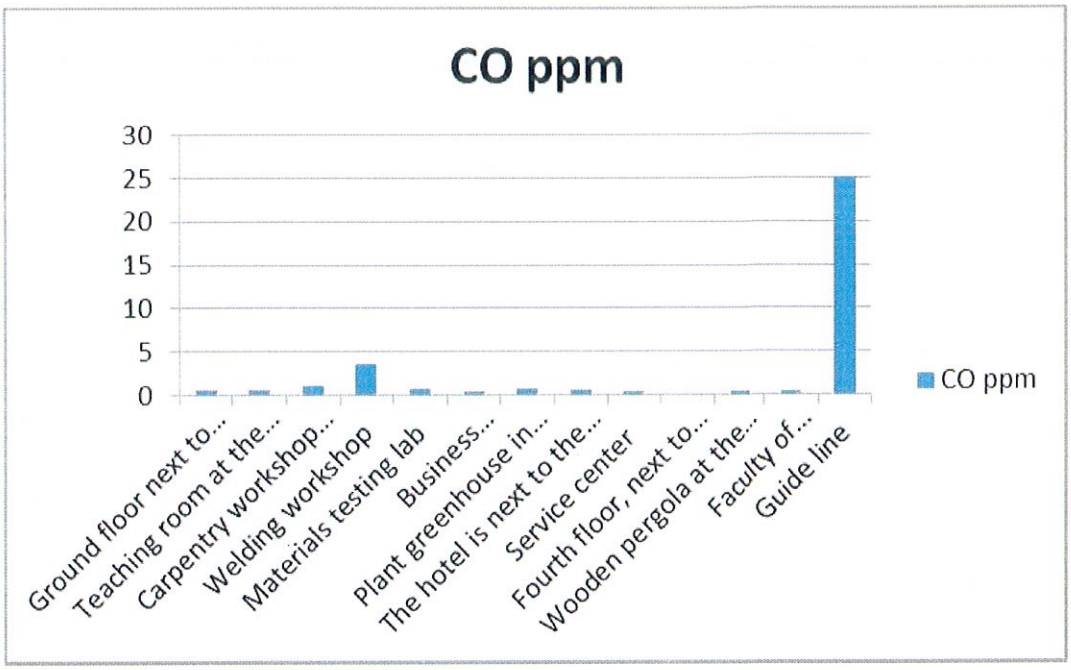
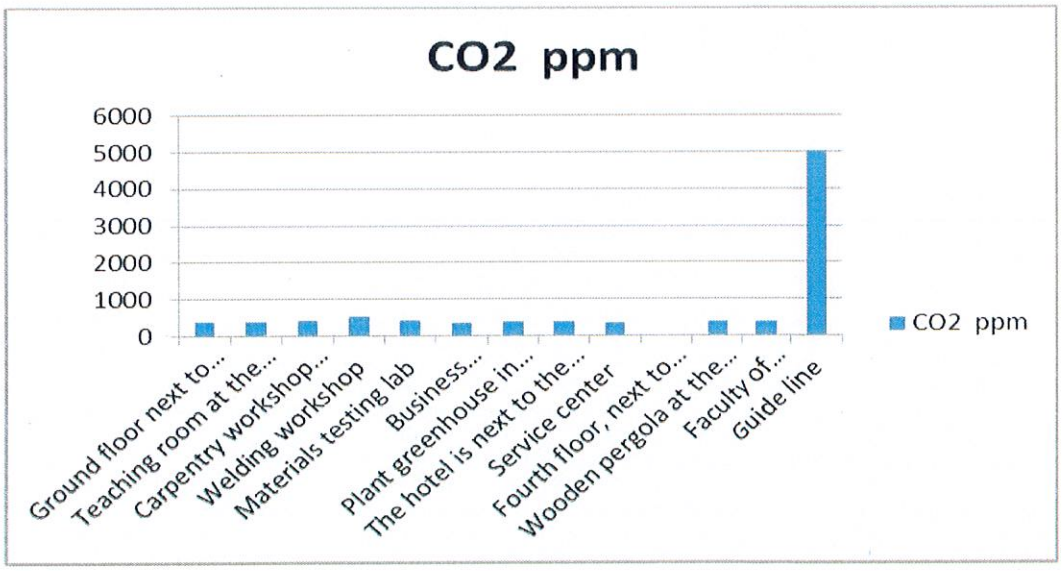


Figure 9: The average results for (NO2)



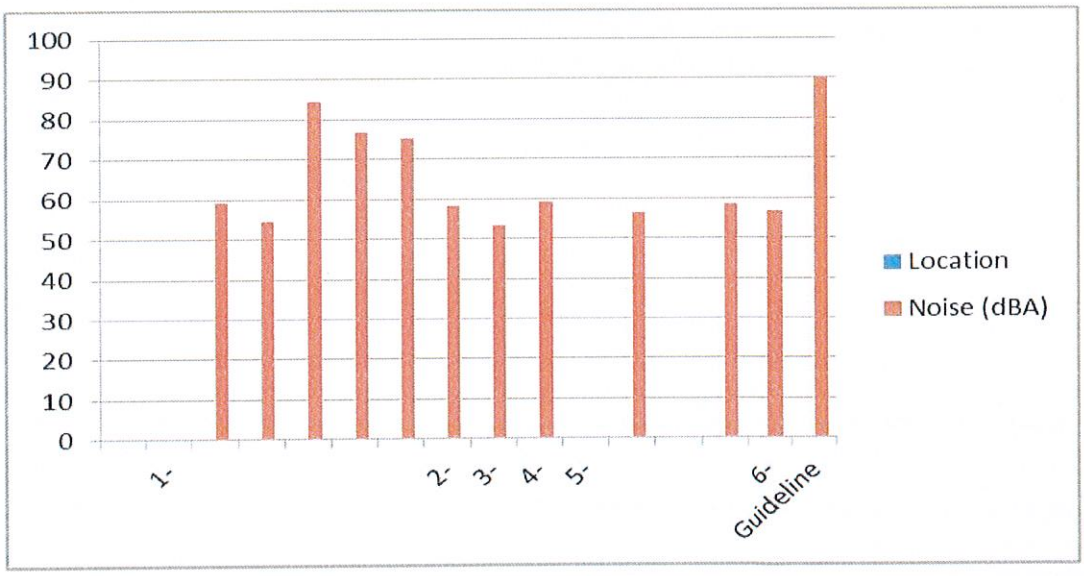

CO ppm
30
25
20
15
10
5
0
Ground floor next to...
Teaching room at the...
Carpentry workshop...
Welding workshop
Materials testing lab
Business...
Plant greenhouse in...
The hotel is next to the...
Service center
Fourth floor, next to...
Wooden pergola at the...
Faculty of...
Guide line
CO ppm


CO2 ppm
6000
5000
4000
3000
2000
1000
0
Ground floor next to...
Teaching room at the...
Carpentry workshop...
Welding workshop
Materials testing lab
Business...
Plant greenhouse in...
The hotel is next to the...
Service center
Fourth floor, next to...
Wooden pergola at the...
Faculty of...
Guide line
CO2 ppm

Date: 6th July, 2022

Table 10: The average results for Noise levels (dBA)

No	Location	Noise (dBA)
1-	**Faculty of Engineering**	
	Ground floor next to the reception	59.8
	Teaching room at the College of Engineering	54.7
	Carpentry workshop next to the saw	84.5
	Welding workshop	76.7
	Materials testing lab	75.4
2-	**Business administration building services area**	58.8
3-	**Plant greenhouse in the garden of the College of Pharmacy**	53.5
4-	**The hotel is next to the pool**	59.4
5-	**Faculty of Dentistry**	
	Service center Fourth floor, next to Delta Plus	56.6
	Wooden pergola at the Faculty of Dentistry	58.7
6-	**Faculty of Physiotherapy, second floor**	56.9
Guideline		**90**



The average results for Noise levels (dBA)

Recommendations

It is recommended that monitoring should continue for all the regulated parameters after location rehabilitation in order to verify/assure compliance

FUTURE RE COMMENDATION

It is recommended that monitoring should continue for all the regulated parameters, in order to verify/assure compliance.

REFERENCES

Egyptian Law 9/2009 and Decree 1095/2011&710/2012 &964/2015 Annex 1 (amendments to executive regulations of Law 4).

The Middle East Library for Economic Services. January 2006. ISBN 977-5249-85-6.

International Finance Corporation (IFC) 2007: Environmental, Health and Safety Guidelines. www.ifc.org/ehsguidelinesupdate

ATTACHMENT

Appendix's

Certification of Consultant from EEAA & ISO/IEC17025:2017

Calibration Certificates for the Used Equipment's

All the measurements were done under the supervision of

Dr.Ragab Abd El-Khaliq Abo Bakr

.....

Ministry of Higher Education
& Scientific Research
National Institute of Standards

وزارة التعليم العالى والبحث العلمى
المعهد القومى للمعايرة

El- Sadat (Tersa) St., El Haram, Giza, Egypt - P.O.Box 136 Giza - Code 12211 - Tel./ Fax: +202 - 33867462 - NIS Tel +202 - 37401113

CERTIFICATE OF CALIBRATION
شهادة معايرة

Certificate No:	796/12C001/31/68/2022

- **NIS Lab** (اسم المعمل): **Acoustics Metrolgy Lab.**
- **Issued For** (صادرال): الدولية للخدمات البيئية - IES Lab
  برج الجوهرة - اعلى بنك مصر - الحوامدية - الجيزة
- **Contact Information of the Customer** (بيانات التواصل بالزبون): 01001058421
- **Location of Calibration** (مكان اجراء المعايرة): NIS
- **Device Description** (اسم ووصف الجهاز تحت المعايرة): **Sound Level Meter**
  - **Manufacturer** (اسم الشركة المنتجة): CASELLA
  - **Model/Type** (موديل الجهاز): CEL-620A
  - **Serial Number** (الرقم المسلسل للجهاز): 1286357
  - **Code** (كود): -----

Date of Receipt (تاريخ الاستلام)	22/05/2022	**Date of Calibration** (تاريخ المعايرة)	31/05/2022
Issue Date (تاريخ الإصدار)	02/06/2022	**Due Date** (تاريخ إعادة المعايرة)	30/05/2023

Approved by

Head of Laboratory	NIS President
Dr. Mahmoud Y.Elaidey	Prof. Dr. Noha E. Khaled

This certificate is issued in accordance with the laboratory accreditation requirements. It provides traceability of measurement to recognized National standards, and to the units of measurement realized at the NIS pr other recognized national standards laboratories. This certificate May not be reproduced other than in full by photographic process. This certificate refers only to the particular item submitted for testing

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CERTIFICATE OF CALIBRATION

شهادة معايرة

• Certificate No.	796/12C001/31/68/2022		
• Customer	IES Lab - الدولية للخدمات البيئية		
• Loaction	NIS	• Date of Receipt	22/05/2022
• Calibrated by	Dr.Hatem Khalaf	• Date of Calibration	31/05/2022
• Number of pages	4	• Issue Date	02/06/2022
• File name	-----	• Due Date	30/05/2023
• Device Under Calibration			
Device Description	Sound Level Meter		
Manufacturer	CASELLA	-----	-----
Model/Type	CEL-620A	-----	-----
Serial Number	1286357	-----	-----
Code	-----	-----	-----
• Enviromental Conditions			
Temperature (°C)	(23±0.5)	Humidity (%)	(55±5.0)
Pressure (kPa)	(101.40±0.02)	-----	-----

• Calibration Method

The calibration was carried out according to IEC 61672-1:2013 " Electro-acoustics . Sound Level Meter . Part 1: Specifications"

• Traceability

Description of Reference Device	Serial Number	Calibration Date	Certificate No.	Expanded Uncertainty	Traceability
Multifunction Acoustic Calibrator	1899917	22/11/2021	NIS/12/MAC//01/2021	0.24 dB	NIS
Laboratory Standrad Microphone	2787505	20/01/2022	NIS/12/MIC//half.03/2022	0.05 dB	NIS

• Uncertainty Statement

The combined standard uncertainty is calculated based on IEC 60924:2004 which include at least the standard uncertainty reported for the reference standard, the standard uncertainty for the measurement process, the standard uncertainty for any uncorrected errors. The combined standard uncertainty is multiplied by a coverage factor (k) of 2 to provide an expanded uncertainty, which defines a level of confidence of approximately 95 percent (95.45 %). The expanded uncertainty presented in this certificate/report is consistent with the ISO/IEC GUIDE 98-3:2008 "Uncertainty of measurement — Part 3: Guide to the expression of uncertainty in measurement (GUM:1995)".

• ISO 17025 Statement

All NIS laboratories implement the NIS unified quality management system which was built to be in compliance with ISO 17025:2017. It is the customer responsibility to indicate - on the calibration label - the due date for calibration in accordance with the aforementioned ISO/SOP calibration procedure and in compliance with ISO 17025:2017.

Calibrated by
Dr.Hatem Khalaf

Reviewed by
Dr. Mohamed Abd-Elbasseer

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CERTIFICATE OF CALIBRATION

شهادة معايرة

Certificate No.	796/12C001/31/68/2022	Serial Number	1286357
• Conformity Statement			
Conformity Criterion	Not applicable		
Decision	-----		

• Calibrated Items

Frequency Weighting : dB (A and C)
Time Weighting : Fast and Slow
Level Range : (20-140) dB

• Calibration Results

1) Frequency Weighting

Reference Frequency : 1000 Hz
Reference Level : 94 dB
Time Weighting : Fast
Level Range : (20-140) dB

A-Weighting

f (Hz)	Difference Between Measured and Referebce Level (dB)	IEC 61672 Acceptance Limits (dB)		Epanded Uncertainty (dB) k=2
		Class 1	Class 2	
31.5	-1.2	±1.5	±3.0	0.16
63	-0.6	±1.0	±2.0	0.15
125	-0.1	±1.0	±1.5	0.15
250	0.0	±1.0	±1.5	0.15
500	0.0	±1.0	±1.5	0.15
1000	**0.0**	**±0.7**	**±1.0**	**0.15**
2000	0.5	±1.0	±2.0	0.15
4000	2.3	±1.0	±3.0	0.15
8000	0.2	+1.5;-2.5	±5.0	0.16

C-Weighting

f (Hz)	Difference Between Measured and Referebce Level (dB)	IEC 61672 Acceptance Limits (dB)		Epanded Uncertainty (dB) k=2
		Class 1	Class 2	
31.5	-2.2	±1.5	±3.0	0.16
63	-0.6	±1.0	±2.0	0.15
125	0.0	±1.0	±1.5	0.15
250	0.0	±1.0	±1.5	0.15
500	0.0	±1.0	±1.5	0.15
1000	**0.0**	**±0.7**	**±1.0**	**0.15**
2000	0.5	±1.0	±2.0	0.15
4000	2.4	±1.0	±3.0	90.50
8000	0.3	+1.5;-2.5	±5.0	0.16

Calibrated by
Dr.Hatem Khalaf
Hatem Khalaf

Reviewed by
Dr. Mohamed Abd-Elbasseer
Dr. Moh

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CERTIFICATE OF CALIBRATION

شهادة معايرة

Certificate No.	796/12C001/31/68/2022	Serial Number	1286357

Weighting Difference

A-Weighting	C-Weighting	Deviation (dB)	IEC 61672 Acceptance Limits (dB)		Epanded Uncertainty (dB) k=2
			Class 1	Class 2	
94.0	94.0	0.0	±0.2	±0.2	0.15

2) Time Weighting

Reference Frequency : 1000 Hz
Reference Level : 94 dB
Level Range : (20-140) dB
Frequency Weighting : A-Weighting

Fast	Slow	Deviation (dB)	IEC 61672 Acceptance Limits (dB)		Epanded Uncertainty (dB) k=2
			Class 1	Class 2	
94.0	94.0	0.0	±0.1	±0.1	0.15

3) Level Linearity

10 dB Changing [Level Range: (30-130) dB]

A-Weighting

Reference Level (dB)	Measured Level (dB)	Deviation (dB)	IEC 61672 Acceptance Limits (dB)		Epanded Uncertainty (dB) k=2
			Class 1	Class 2	
104.0	104.1	0.1	±0.3	±0.5	0.15
114.0	114.1	0.1	±0.3	±0.5	0.15

C-Weighting

Reference Level (dB)	Measured Level (dB)	Deviation (dB)	IEC 61672 Acceptance Limits (dB)		Epanded Uncertainty (dB) k=2
			Class 1	Class 2	
104.0	104.0	0.0	±0.3	±0.5	0.15
114.0	114.0	0.0	±0.3	±0.5	0.15

Calibrated by *Dr.Hatem Khalaf*

Reviewed by *Dr. Mohamed Abd-Elbasseer*

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Aeroqual Limited
109 Valley Road, Mount Eden, Auckland, New Zealand
Phone: +64-9-623 3013 Fax: +64-9-623 3012
www.aeroqual.com

Calibration Certificate No. 11260

Calibration Date: 06 Jan 2022 10:17

Model: Sulphur Dioxide 0-10 ppm

Serial No: ESO-0501153-007

Environmental Conditions

Temperature 24.2 ℃

Relative Humidity 45.6 %

Measurements

Calibration Standard /ppm	0.00	7.08	0.00	0.00
AQL Sensor (Mean) /ppm	0.00	7.10	0.00	0.00
AQL Sensor (Std. Dev) /ppm	0.006	0.006	0.000	0.000

*The Mean and Standard Deviation are calculated from three consecutive readings.

Calibration Standard

The Aeroqual sensor is calibrated against a certified UV fluorescence analyser.

QC Approval: Farid Yanes

Date: 06 Jan 2022

Aeroqual Limited
109 Valley Road, Mount Eden, Auckland, New Zealand
Phone: +64-9-623 3013 Fax: +64-9-623 3012
www.aeroqual.com

Calibration Certificate No. 11158

Calibration Date: 21 Dec 2021 15:42

Model: Carbon dioxide 0-5000ppm

Serial No: CE--1712151-003

Environmental Conditions

Temperature 26.9 ℃

Relative Humidity 41.6 %

Measurements

Calibration Standard /ppm	0	4000	0	0
AQL Sensor (Mean) /ppm	0	3935	0	0
AQL Sensor (Std. Dev) /ppm	0.000	0.816	0.000	0.000

*The Mean and Standard Deviation are calculated from three consecutive readings.

Calibration Standard

This sensor was calibrated against a certified mixture of carbon dioxide in synthetic air diluted with zero air using mass flow controllers with calibrations traceable to the National Institute of Standards and Technology (NIST).

QC Approval: Farid Yanes

Date: 21 Dec 2021



Aeroqual Limited
109 Valley Road, Mount Eden, Auckland, New Zealand
Phone: +64-9-623 3013 Fax: +64-9-623 3012
www.aeroqual.com

Calibration Certificate No. 11260

Calibration Date: 06 Jan 2022 10:17

Model: Nitrogen Dioxide 0-1 ppm

Serial No: ENW 1812151-010

Environmental Conditions

Temperature 24.2 ℃

Relative Humidity 45.6 %

Measurements

Calibration Standard /ppm	0.00	7.08	0.00	0.00
AQL Sensor (Mean) /ppm	0.00	7.10	0.00	0.00
AQL Sensor (Std. Dev) /ppm	0.006	0.006	0.000	0.000

*The Mean and Standard Deviation are calculated from three consecutive readings.

Calibration Standard

The Aeroqual sensor is calibrated against a certified UV fluorescence analyser.

QC Approval: Farid Yanes

Date: 06 Jan 2022

Trademan
ENGINEERING & TRADING PROJECTS

تـــريـــد مـــــان
للمشروعات الهندسية والتجارية

٢٠٢٢/٣/٢

شهادة معايرة

السادة / شركة الدولية للخدمات البيئية

تشهد شركة تريدمان للمشروعات الهندسية والتجاريه بصفتها الوكيل الوحيد في ج.م.ع لشركة RAE Sys. الامريكية بأنه قد تم معايرة خلية قياس (VOCs) الخاصة بالجهاز رقم M01C019040 موديل MultiRAE Lite

Type of gas	Applied value ppm	Reading value ppm
VOCs	100 ppm	100 ppm

علما بان معايرة هذة الخلايا سارية لمدة ٦ شهور من تاريخة حتى (٢٠٢٢/٩/١)

وهذه شهادة منا بذلك.

وتفضلوا سيادتكم بقبول فائق الاحترام ،،،

المدير العام
تريد مان
للمشروعات الهندسية والتجارية
م/ انسي ريضا

Kornelsh El Nile, Nekabet El Mohandesin Building 2,Beside El salam Hospital,Cairo
P.O. Box : 812 Maadi - Cairo
Tel.:(+2-02)2526 0268 - 2525 9620 - 2524 4044 Fax:(+2-02)2525 3936
E - mail: trademan@link.net
www.trademaneg.com

عمارة نقابة المهندسين رقم ٢، كورنيش النيل بجوار مستشفى السلام الدولى - القاهرة
ص . ب : ٨١٢ المعادى - القاهرة
تليفون : ٢٥٢٤٤٠٤٤ - ٢٥٢٥٩٦٢٠ - ٢٥٢٦٠٢٦٨(٢٠٢+) فاكس : ٢٥٢٥٣٩٣٦ (٢٠٢+)
بريد إلكترونى : trademan@link.net

CASELLA

Certificate of Calibration and Conformity



Instrument Type	CEL-712 Microdust Pro		
Serial Number	4806446	**Probe Serial Number**	2315432
Firmware revision	08		

Calibration Principle:

The sensitivity of this instrument has been established using a factory reference 'Calibration Insert'. The 'Calibration Insert' utilises the optical light scattering technique.

The factory reference 'Calibration Insert' has demonstrated traceability to gravimetric calibration using Casella's Wind tunnel dust generation system using ISO 12103-1 A2 Fine test dust (Natural ground mineral dust, predominantly silica, Arizona Road Dust equivalent, Particle size range 0.1 to 80 µm).

The value shown on the supplied user 'Calibration Insert' is to provide a stable method for the user to return to the instrument sensitivity level back to factory conditions and thus traceable to wind tunnel gravimetric tests.
For calibration and optimum accuracy to user specific dusts, types and conditions, please refer to the user handbook.

Test Conditions:

Temperature :-		°C
Humidity :-	52	%RH
Pressure :-	1018	mBar

Equipment used for Calibration of "Reference Insert":

Wind Tunnel:-	Casella Wind Tunnel	Serial Number:	EQ11223
Microbalance:-	Cahn C-33	Serial Number:	SN75611
Velocity Probe:-	DA40 Vane Averno	Serial Number:	SN10060
Flow Meter:-	BGI TriCal	Serial Number:	EQ10851

Calibration Results:

Casella Factory Reference 'Calibration Insert' :-	Serial Number:	EQ11062	Value:	14.347
Supplied 'Calibation Insert' For Probe :-	Serial Number:	2315432	Value:	113.6

Declaration of conformity:

This test certificate confirms that the instrument as specified above has been successfully tested and adjusted to comply with the manufacturer's published specifications.

This product is certified as being compliant to the requirements of the CE Directive.

Test Engineer: Nicola Cartwright
Date of Issue: 19/12/2022

CASELLA CEL
part of
IDEAL INDUSTRIES Ltd
Company Reg. No. 1824671

Casella
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Tel: +44 (0) 1234 844100
Fax: +44(0) 1234 841490
E-mail: info@casellasolutions.com
Web: www.casellasolutions.com

Casella Inc.
a subsidiary of Ideal Industries, Inc
415 Lawrence Bell Drive, Unit 4
Buffalo, NY 14221, USA
Toll Free (800) 366-2966
Tel: (716) 276 3040
Fax: (716) 276 3043
E-mail: info@casellaUSA.com

Ideal Industries India Pvt.Ltd.
229-230, Spazedge, Tower -B Sohna Road,
Sector-47, Gurgaon-122001, Haryana (India)
Tel: +91 124 4495100
E-mail: casella.sales@ideal-industries.in

Ideal Industries China
No. 61, Lane 1000, Zhangheng Road,
Pudong District Shanghai, 201203, China
Telephone: 0086-21-31263188
Fax: 0086-21-61605906
Email: Info@casellasolutions.cn

SENKO
SenKo Co., Ltd

We hereby certify that we have tested above products in accordance with the SENKO's standard inspection procedures and that the quality is in fully conformity with the specifications and the standards.

Calibration and Test Certificate

Calibration date : 2022.01.03
Certificate date : 2022.01.03

Specification

Product Name	Serial No.	Sensor	Range
SP-MGT-P	SJ0319118	CH4	0 ~ 100 %LEL
		O2	0 ~ 30 %vol
		CO	0 ~ 500 ppm
		H2S	0 ~ 100 ppm

Calibration

Gas	Concentration	Reading	Response Time(T90)
CH4	50 %LEL	49 %LEL	≤ 30 seconds
O2	18.0 %vol	18.0 %vol	
CO	100 ppm	104 ppm	
H2S	25 ppm	25.4 ppm	

Factory Alarm Settings

	Low Alarm	High Alarm	STEL	TWA
CH4	10 %LEL	25 %LEL	-	-
O2	19.5 %vol	23.5 %vol	-	-
CO	20 ppm	100 ppm	100 ppm	20 ppm
H2S	5 ppm	10 ppm	10 ppm	5 ppm

Performance Test

Start up	:	***Pass***
Self-Diagnosis	:	***Pass***
Zero Calibration	:	***Pass***
Span Calibration	:	***Pass***
Temperature Test	:	***Pass***
Alarm Test	:	***Pass***

Calibrated by *Approved by*

SENKO Co., Ltd. 15 Road. Oesammiro, Osan-si, Gyeonggi-do, 447-230, South Korea.
Phone: 82-31-492-0445 Fax: 82-31-492-0446 Home://www.senko.co.kr

Accreditation Certificate No. (219016A)

Arab Republic of Egypt

Egyptian Accreditation Council (EGAC)

Certifies that

International Environmental Services Company Laboratory

El Gawhara Tower - 7th Floor - Mahmoud Abd El Ghany Street
El Sheikh Etman Village - El Hawamdeya City
Giza Governorate - Egypt

Has been accredited by EGAC in compliance with the requirements of

ISO/IEC 17025:2017

In Some Environmental Measurements

The scope of accreditation is described in the attached schedule No. (219016B)
Scope Issue No. (01)

Issue No. (01): September 17, 2020 **Valid to: September 16, 2024**

Subject to continued compliance to the above standard and the requirements of EGAC

EGAC is an ILAC MRA Signatory in the Field of Calibration, Testing, Medical Labs, Proficiency Testing Providers and Inspection Bodies Accreditation

Eng. Hany El Desouki
Hany El Desouki
EGAC Executive Director

Nevein Gamea
Nevein Gamea
Chairman of EGAC
Minister of Trade and Industry

شهادة اعتماد رقم (٢١٩٠١٦ أ)

جمهـورية مصر العربيـــة

المجـــلس الوطـــنى للاعتمـــاد (إيجـاك)

يشهد بأن

معمل الشركة الدولية للخدمات البيئية

برج الجوهرة – الدور السابع – شارع محمود عبد الغنى – قرية الشيخ عثمان – مدينة الحوامدية

محافظة الجيزة – مصر

قد حصل على اعتماد المجلس حيث تم تقييمه طبقاً للمواصفة الدولية

ISO/IEC 17025:2017

في بعض القياسات البيئية

الموضحة بالبيان المرفق رقم (٢١٩٠١٦ب)

رقم إصدار المجال (٠١)

إصدار رقم (٠١) : ١٧ سبتمبر ٢٠٢٠ صالحة حتى : ١٦ سبتمبر ٢٠٢٤

شرط الحفاظ على التوافق مع المواصفات أعلاه والمتطلبات الخاصة بالمجلس

والمجلس الوطنى للاعتماد موقع على اتفاقية الاعتراف المتبادل مع منظمة التعاون الدولى لاعتماد المعامل (ILAC)

فى مجال اعتماد معامل المعايرة والاختبار والتحاليل الطبية ومقدمى خدمه إختبارات الكفاءة الفنية وجهات التفتيش

نيـڤين جامع

نيفين جامع

رئيس المجلس

وزير التجارة والصناعة

مهندس / هانئ الدسوقي

المدير التنفيذى للمجلس

وزارة البيئة
جهاز شئون البيئة

شهادة قيد واعتماد

بيت خبرة فى مجال البيئة (مكتب استشارى)

يشهد جهاز شئون البيئة بأنه قد تم قيد واعتماد بيت الخبرة (المكتب الاستشارى)

الشركة الدولية للخدمات البيئية

بيتا للخبرة فى مجال البيئة بناء على قرار اللجنة العليا المؤرخ فى ١ / ٩ / ٢٠٢٤ ومديره المسئول

السيد / **رجب عبد الخالق ابو بكر**

إعمالا للمادة رقم ١٣ مكرر من القانون رقم ٤ لسنة ١٩٩٤ والمعدل بالقانون رقم ٩ لسنة ٢٠٠٩

فى شأن حماية البيئة ولائحته التنفيذية المعدلة بالقرار رقم ١٠٩٥ لسنة ٢٠١١

برقم قيد : ٢٠٢٤/٩/١/٢٠

وهذه الشهادة سارية لمدة خمس سنوات اعتبارا من ١ / ٩ / ٢٠٢٤ وحتى ٣١ / ٨ / ٢٠٢٩

وتعتبر هذه الشهادة لاغية فى حالة وقف الترخيص لبيت الخبرة لأى سبب قانونى .

الرئيس التنفيذى
رئيس الامانة الفنية للجنة العليا للقيد والاعتماد

وزير البيئة
رئيس اللجنة العليا للقيد والاعتماد

وزارة البيئة

وزارة البيئة
جهاز شئون البيئة

شهادة قيد واعتماد

استشارى بيئى

يشهد جهاز شئون البيئة بأن السيد / **رجب عبد الخالق أبو بكر حسن**

قد تم قيده واعتماده كاستشارى بيئى فى مجال **أعمال إرصد الذاتى للمنشآت وإدارة شبكات الرصد**

بناء على قرار اللجنة العليا للقيد والاعتماد المؤرخ فى ٤ / ٢ / ٢٠٢٠ إعمالا للمادة رقم ١٣

مكرر من القانون رقم ٤ لسنة ١٩٩٤ والمعدل بالقانون رقم ٩ لسنة ٢٠٠٩ فى شأن حماية

البيئة ولائحته التنفيذية المعدلة بالقرار رقم ١٠٩٥ لسنة ٢٠١١

وهذه الشهادة سارية لمدة خمس سنوات اعتبارا من ٤ / ٢ / ٢٠٢٠ وحتى ٣ / ٢ / ٢٠٢٥

رقم القيد : ٢٠٢٠/٢/٤/٢٠٩

وتعتبر هذه الشهادة لاغية فى حالة وقف الترخيص لسيادته لأى سبب قانونى .

الرئيس التنفيذى
رئيس الامانة الفنية للجنة العليا للقيد والاعتماد

وزير البيئة
رئيس اللجنة العليا للقيد والاعتماد

وزارة البيئة

وزارة البيئة
جهاز شئون البيئة

شهادة قيد واعتماد

استشارى بيئى

يشهد جهاز شئون البيئة بأن السيد / **رجب عبد الخالق أبو بكر**

قد تم قيده واعتماده كاستشارى بيئى فى مجال **إجراء القياسات البيئية في المعامل المعتمدة**

بناء على قرار اللجنة العليا للقيد والاعتماد المؤرخ فى ٥ / ١٠ / ٢٠٢٠ إعمالا للمادة رقم ١٣

مكرر من القانون رقم ٤ لسنة ١٩٩٤ والمعدل بالقانون رقم ٩ لسنة ٢٠٠٩ فى شأن حماية

البيئة ولائحته التنفيذية المعدلة بالقرار رقم ١٠٩٥ لسنة ٢٠١١

وهذه الشهادة سارية لمدة خمس سنوات اعتبارا من ٥ / ١٠ / ٢٠٢٠ وحتى ٤ / ١٠ / ٢٠٢٥

رقم القيد : ٢٠٢٠/١٠/٥/٨١

وتعتبر هذه الشهادة لاغية فى حالة وقف الترخيص لسيادته لأى سبب قانونى .

الرئيس التنفيذى
رئيس الامانة الفنية للجنة العليا للقيد والاعتماد

وزير البيئة
رئيس اللجنة العليا للقيد والاعتماد

وزارة البيئة
جهاز شئون البيئة

شهادة قيد واعتماد
استشاري بيئي

يشهد جهاز شئون البيئة بان السيد / محمد سليم حسن سليم

قد تم قيده واعتماده كاستشاري بيئي في مجال إعداد دراسات تقويم التأثير البيئي

بناء على قرار اللجنة العليا للقيد والاعتماد المؤرخ في ٢٩ / ٥ / ٢٠١٨ اعمالا للمادة رقم ١٢ مكرر من القانون رقم ٤ لسنة ١٩٩٤ والمعدل بالقانون رقم ٩ لسنة ٢٠٠٩ في شأن حماية البيئة ولائحته التنفيذية المعدلة بالقرار رقم ١٠٩٥ لسنة ٢٠١١

وهذه الشهادة سارية لمدة خمس سنوات اعتبارا من ٢٩ / ٥ / ٢٠١٨ وحتى ٢٨ / ٥ / ٢٠٢٣

رقم القيد : ٢٠١٨/٥/٢٩ | ٢٠٨

وتعتبر هذه الشهادة لاغية في حالة وقف الترخيص لسيادته لأي سبب قانوني

الرئيس التنفيذي
رئيس الأمانة الفنية للجنة العليا للقيد والاعتماد

وزير البيئة
رئيس اللجنة العليا للقيد والاعتماد

وزارة البيئة

وزارة البيئة
جهاز شئون البيئة

شهادة قيد واعتماد
إخصائي بيئي

يشهد جهاز شئون البيئة بان السيد / أمين خالد أمين عبد الحميد

قد تم قيده واعتماده كإخصائي بيئي في مجال إجراء القياسات البيئية في المعامل المعتمدة

بناء على قرار اللجنة العليا للقيد والاعتماد المؤرخ في ٥ / ٢ / ٢٠٢٣ إعمالاً للمادة رقم ١٢ مكرر من القانون رقم ٤ لسنة ١٩٩٤ والمعدل بالقانون رقم ٩ لسنة ٢٠٠٩ في شأن حماية البيئة ولائحته التنفيذية المعدلة بالقرار رقم ١٠٩٥ لسنة ٢٠١١

وهذه الشهادة سارية لمدة خمس سنوات اعتبارا من ٥ / ٢ / ٢٠٢٣ وحتى ٤ / ٢ / ٢٠٢٨

رقم القيد : ٢٠٢٣/٢/٥/١٩٢

وتعتبر هذه الشهادة لاغية في حالة وقف الترخيص لسيادته لأي سبب قانوني .

الرئيس التنفيذي
رئيس الأمانة الفنية للجنة العليا للقيد والاعتماد

وزير البيئة
رئيس اللجنة العليا للقيد والاعتماد

وزارة البيئة

وزارة البيئة
جهاز شئون البيئة

شهادة قيد واعتماد
استشاري بيئي

يشهد جهاز شئون البيئة بان السيد / هبة سليم حسن سليم

قد تم قيده واعتماده كاستشاري بيئي في مجال إعداد دراسات تقويم التأثير البيئي

بناء على قرار اللجنة العليا للقيد والاعتماد المؤرخ في ٢٣ / ١٠ / ٢٠١٨ اعمالا للمادة رقم ١٢ مكرر من القانون رقم ٤ لسنة ١٩٩٤ والمعدل بالقانون رقم ٩ لسنة ٢٠٠٩ في شأن حماية البيئة ولائحته التنفيذية المعدلة بالقرار رقم ١٠٩٥ لسنة ٢٠١١

وهذه الشهادة سارية لمدة خمس سنوات اعتبارا من ٢٣ / ١٠ / ٢٠١٨ وحتى ٢٢ / ١٠ / ٢٠٢٣

رقم القيد : ٢٠١٨/١٠/٢٣/٣٤٠

وتعتبر هذه الشهادة لاغية في حالة وقف الترخيص لسيادته لأي سبب قانوني

الرئيس التنفيذي
رئيس الأمانة الفنية للجنة العليا للقيد والاعتماد

وزير البيئة
رئيس اللجنة العليا للقيد والاعتماد