7.1.6. A.
Reports.

Quality Audit Reports

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3	Noise Report
4	Water Testing Report

Air quality report. 7.1.6.1 (A) Reports.

SKYLAB
ANALYTICAL LABORATORY

MOEF & CC APPROVED AND NABL (ISO 17025) CERTIFIED ENVIRONMENT LABORATORY

Customer / Organization / Location :-

23.02.2024

To,

Terna Public Charitable Trust's
Terna Engineering College.

Plot No 12, Sector-22 Opposite Nerul (W) Railway Station, Nerul, Navi Mumbai, Maharashtra 400706.
Kind Attention :- **Dr. Preeti Zade Madam.**

Report No. SLAL/67/02/2024. Date :- 23rd February 2024. Date of Sampling :- 16th February 2024.

Sample Collected by Open Bottle method for 5 Minutes.

Test – Ambient Air Quality Monitoring. Testing Results.

Ambient Air Quality was monitored at 1 Location.

Test Parameters	*Sulphur Dioxide (So2)*	*Nitrogen Dioxide (No2)*	*Particulate Matter (PM 10)*	*Particulate Matter (PM 2.5)*	*Carbon Monoxide (CO)*
Unit	*mg/m3*	*mg/m3*	*mg/m3*	*mg/m3*	*mg/m3*
Specification Limits as per MPCB	*80*	*80*	*100*	*60*	*02*
Sample Point					
Ground Floor	1	1	5	10	0.002

(All Values are found within the MPCB limits)

Testing Equipment ID No. SLAL/INST/77. Calibrated on 21.07.2023. Calibration Due on 20.07.2024.

For Sky Lab Analytical Laboratory

Mr. Saurabh Pansare.
(Director)

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TERNA ENGINEERING COLLEGE TPCT'S Nerul, Navi Mumbai - 400706

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MIDC, Village Kon, Tal. Bhiwandi - 421311 Dist. Thane, Maharashtra, INDIA.**Contact-** 02522-297784/85
Email- mails@skylabenviro.com **Website-** www.skylabenviro.com

Customer / Organization / Location :-

23.02.2024

To,
Terna Public Charitable Trust's
Terna Engineering College.

Plot No 12, Sector-22 Opposite Nerul (W) Railway Station, Nerul, Navi Mumbai, Maharashtra 400706.
Kind Attention :- **Dr. Preeti Zade Madam.**

Report No. SLAL/68/02/2024. Date :- 23rd February 2024. Date of Sampling :- 16th February 2024.

Sample Collected by Open Bottle method by holding the bottle for 5 Minutes near the mouth of the Stack while the Engine is running.

Test – Diesel Generator Stack Emission Quality Monitoring.
Testing Results. Diesel Generator Stack Emissions tested for 1 DG Set

Test Parameters	*Sulphur Dioxide (So2)*	*Nitrogen Dioxide (No2)*	*Particulate Matter*	*Carbon Monoxide (CO)*
Unit	*mg/m3*	*mg/m3*	*mg/m3*	*mg/m3*
Specification Limits as per MPCB	*100*	*50*	*150*	*150*
Sample Point				
DG	**35**	**32**	**92**	**75**

(All Values are found within the MPCB limits)
Testing Equipment ID No. SLAL/INST/64.
Calibrated on 10.08.2023. Calibration Due on 09.08.2024.

For Sky Lab Analytical Laboratory

Mr. Saurabh Pansare.
(Director)

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Terna Engineering College
Green Audit Report 18th June 2024.
Plot No 12, Sector-22 Opposite Nerul (W) Railway Station, Nerul, Navi Mumbai, Maharashtra 400706.

Green Audit Report.

Water Audit Report

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Plot No 12, Sector-22 Opposite Nerul (W) Railway Station, Nerul, Navi Mumbai, Maharashtra 400706.

Green Audit was conducted by

Mr. Saurabh Pansare.

(Director of SKY Lab)

Green Audit was conducted On

10th & 11th June 2024.

For Green Audit the Data considered for the Period

July 2023 to May 2024.

Green Audit Report Date

18th June 2024.

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Green Audit Report 18th June 2024.
Plot No 12, Sector-22 Opposite Nerul (W) Railway Station, Nerul, Navi Mumbai, Maharashtra 400706.

Inclusions & Exclusions while performing the Green Audit.

1) Carbon emissions due to Students Travelling is not considered.
2) Carbon emissions due to Faculty & Staff Travelling are considered.
3) Carbon emissions during Industrial Visits travelling not considered.
4) Carbon emissions from the Construction of Building are not considered as the Building is more than 10 Years old.
5) All Wood is more than 6 years old so not considered. (Classroom Faculty Platforms).
6) Plywood is not considered as Plywood is already recycled.
7) Total Consumption of Electricity for the Institute is considered.
8) Total Consumption of Water for the Institute is considered.
9) LPG Cylinders are consumed in Canteen.
10) Green Cover is considered of the Whole Campus & very difficult to allocate for the Institute premises.
11) Emissions from Tiles, Paints & Printers are not considered.
12) Illumination & Ambient Air Quality Monitoring is performed at 10 Locations.
13) Diesel Generator Stack Emissions monitoring is performed.
14) Analysis of Water entering the drains / soak pits is not performed. as it was an Online Remote Audit. (Sewage water, Lab washing water, Washing & Cleaning water) is let out in drains.
15) Municipality Raw Water Analysis is performed.
16) Radiation due to Wifi & Mobile Phones is not considered.
17) Rain Water harvesting is performed but could not be quantified so not considered.
18) Solar Power Generation is considered.

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Green Audit Report 18th June 2024.
Plot No 12, Sector-22 Opposite Nerul (W) Railway Station, Nerul, Navi Mumbai, Maharashtra 400706.

Air.

Ambient Air Quality monitored at 10 locations of the Institute.

Ambient Air Quality was monitored at 1 Location.

	Test Parameters	*Sulphur Dioxide (So2)*	*Nitrogen Dioxide (No2)*	*Particulate Matter (PM 10)*	*Particulate Matter (PM 2.5)*	*Carbon Monoxide (CO)*
	Unit	*mg/m3*	*mg/m3*	*mg/m3*	*mg/m3*	*mg/m3*
	Specification *Limits as per MPCB*	*80*	*80*	*100*	*60*	*02*
Sr. No.	**Sample Point**					
01	**Ground Floor**	**1**	**1**	**5**	**10**	**0.002**

Stack Emissions of the Diesel Generator is also monitored.

Diesel Generator Stack Emissions tested for 1 DG Set

	Test Parameters	*Sulphur Dioxide (So2)*	*Nitrogen Dioxide (No2)*	*Particulate Matter*	*Carbon Monoxide (CO)*
	Unit	*mg/m3*	*mg/m3*	*mg/m3*	*mg/m3*
	Specification *Limits as per MPCB*	*100*	*50*	*150*	*150*
Sr. No.	**Sample Point**				
01	**DG**	**35**	**32**	**92**	**75**

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Noise Level was monitored at 10 Locations.

Sr. No.	Sample Point	Unit Decibels (dB)	Specification Limits as per MPCB	Results
01	Ground Floor	*dB*	55 dB Institute Area	45
02	1st Floor Right Side	*dB*	55 dB Institute Area	47
03	1st Floor Left Side	*dB*	55 dB Institute Area	42
04	2nd Floor Right Side	*dB*	55 dB Institute Area	43
05	2nd Floor Left Side	*dB*	55 dB Institute Area	45
06	3rd Floor Right Side	*dB*	55 dB Institute Area	48
07	3rd Floor Left Side	*dB*	55 dB Institute Area	49
08	4th Floor Right Side	*dB*	55 dB Institute Area	41
09	4th Floor Left Side	*dB*	55 dB Institute Area	46
10	5th Floor Right Side	*dB*	55 dB Institute Area	47

Illumination Level was monitored at 10 Locations.

Sr. No.	*Sample Point*	*Unit Lumens (lm)*	*Specification Limits as per IS 6665*	*Results*
01	Ground Floor	*lm*	200 to 300 Work Place	510
02	1st Floor Right Side	*lm*	200 to 300 Work Place	660
03	1st Floor Left Side	*lm*	200 to 300 Work Place	680
04	2nd Floor Right Side	*lm*	200 to 300 Work Place	660
05	2nd Floor Left Side	*lm*	200 to 300 Work Place	640
06	3rd Floor Right Side	*lm*	200 to 300 Work Place	630
07	3rd Floor Left Side	*lm*	200 to 300 Work Place	670
08	4th Floor Right Side	*lm*	200 to 300 Work Place	670
09	4th Floor Left Side	*lm*	200 to 300 Work Place	670
10	5th Floor Right Side	*lm*	200 to 300 Work Place	760

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Wash Basin Tap Water Testing was monitored at 1 Location.

Test – Water Quality. Testing Results.

Sr. No.	*Test Parameters*	*Unit*	*Specification Limits as per MPCB*	*Results*
01	P H		6.5 – 8.5	7.4
02	Colour	*C.U*	100	<6
03	Suspended Solids	*mg/L*	100	78
04	Total Dissolved Solids	*mg/L*	2100	720
05	Total Alkalinity	*mg/L*	400	62
06	Chemical Oxygen Demand (COD)	*mg/L*	1000	64
07	Biological Oxygen Demand (BOD)	*mg/L*	400	19
08	Chloride	*mg/L*	600	8.7
09	Sulphate	*mg/L*	1000	1.5
10	Phenolic Compounds	*mg/L*	1	BDL
11	Nitrate	*mg/L*	2	0.2
12	Calcium	*mg/L*	150	27.4
13	Magnesium	*mg/L*	20	4.3
14	Fluoride	*mg/L*	3	BDL

Biological Testing Not Performed.

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Water.

Water used for

Drinking, Cleaning, Washing & Flushing & In Laboratory.

For Gardening the Rain water Harvested stored in the pond is utilized.

Water Meters are not specifically demarcated for the Engineering College. So accurate allocation for Engineering College is not possible.

Average Monthly Consumption as given by the College is

26,323 Liters per Month X 11 Months

= 2,89,553 Liters.

Total Consumption of water from July 2023 to May 2024 will be

Consumption of Water given is 2,89,553 Liters for 11 Months.

So considering 330 Working Days

Total Consumption of water from July 2023 to May 2024 will be

Water Foot Print is

2,89,553 / 330 = 878 Liters per Day.

So the Water Foot Print is 878 Liters of Water Per Day.

A separate Water Foot Print Certificate is given to the Institute.

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Electricity.

Total Consumption of Electricity is considered from the Meter reading shown in the Electricity Bill.

Electricity Meters are not specifically demarcated for the Engineering College. So accurate allocation for Engineering College is not possible.

Electricity used for

Tube Lights, Lights & Fans, Computers & Printers, To run the Utilities.

The details of the Electricity Units consumed from July 2023 to May 2024.

Average Monthly Consumption as given by the College is

1 Unit = 1 KWH

5,000 Units/ KWH per Month X 11 Months

= 55,000 Units/KWH.

Power Generation by running the Diesel Generator.

Diesel Generator of capacity 200 KVA

Diesel Consumption is 500 Liters for 11 Month.

Total Diesel Consumption is 500 Liters for 11 Months.

Measures taken for Energy / Electricity Conservation.

1) Replacing the conventional Florescent Tube Lights with LED Tube Lights.
2) Replacing the CFL Blubs with LED Bulbs.
3) Periodic Maintenance of the Diesel Generator to get Optimum performance.

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LPG Consumption

Liquefied Petroleum Gas.

33 LPG Cylinders for the period selected (July 2023 to June 2024)

(In Each LPG Cylinder the gas is 14.2 Kg is taken as base)

So in a period of 11 Months the Total consumption of LPG gas was 14.2 Kg X 33 = 469 Kg.

so a Monthly Average of 43 Kg per month.

(LPG Cylinders used in Canteen Only. Canteen is common for all colleges in campus, appropriation not possible so taken full consumption).

Paper.

Each A 4 paper is used from both the sides.

After use on both the sides then it is given for recycling (Paper Mesh).

To the extent possible use of soft copies of documents is promoted.

For the period **July 2023 to May 2024**

The consumption was 30 Reams of Paper of 70 GSM.

(500 Sheets in each Ream & each Ream of 2.18 kg)

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Consumption of Petrol by Staff Travelling to & fro the Institute.

Staff Travelling Details for the Period July 2023 to May 2024 as shared by the Institute

According to the data given by the Institute. For the period

July 2023 to May 2024.

Petrol Driven Cars	
Distance Travelled by staff To & Fro the Institute by 4 Wheeler per month based on a 24 days working Month	**Petrol Consumption per day by 4 Wheeler in a month by taking an average Fuel efficiency of 12 KMPL**
15 Staff X 20 Km Average Distance Travelled per day so 15 X 20 X 24 Days = 7,200 Km per Month	**600 Liters Per Month**
So 600 Liters Petrol per Month X 12 Months = 7,200 Liters Per Year.	
Diesel Driven Cars	
Distance Travelled by staff To & Fro the Institute by 4 Wheeler per month based on a 24 days working Month	**Diesel Consumption per day by 4 Wheeler in a month by taking an average Fuel efficiency of 12 KMPL**
5 Staff X 20 Km Average Distance Travelled per day so 5 X 20 X 24 Days = 2,400 Km per Month	**200 Liters Per Month**
So 200 Liters Diesel per Month X 12 Months = 2,400 Liters Per Year.	

So total Petrol Consumption from July 2023 to May 2024 is 7,200 Liters per Year. 600 Liters per Months.

So total Diesel Consumption from July 2023 to May 2024 is 2,400 Liters per Year. 200 Liters per Months.

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So Following is the Calculation of the Carbon Foot Print.

Calculation of Kg of CO2 emissions

1	2 *As per GRI Standards*	3	4	5
Category	**Kg of CO2 per unit of consumption**	**Average Monthly Consumption**	**Calculation 2*3**	**Total Kg of CO2 2*3=5**
Electricity	**0.371 Kg per KWH**	***5,000 KWH***	**5,000 X 0.371**	**1,855**
Diesel	**2.68 Kg per liter**	***46* Liters**	**46 X 2.68**	**124**
LPG	**3 Kg per Kg**	**43 Kg.**	**43 X 3**	**129**
Diesel	**2.68 per liter**	**200 Liters**	**200 X 2.68=**	**536**
Petrol	**2.31 per liter**	**600 Liters**	**600 X 2.31=**	**1,386**
		TOTAL		**4,030**

***GRI* (Global Reporting Initiative) Standards.**

So the Average Monthly CO2 Emissions are 4,030 Kg of CO2.

A separate Carbon Foot Print Certificate is given to the Institute.

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Green Cover Details.

Green cover area in the campus is considered and not only for the Engineering College.

Various Types trees planted in the campus.

There are currently **300 Trees** in the Campus.

Additional trees will be planted in the Academic year 2024- 2025.

Hazardous Waste Disposal

E waste not disposed in the period July 2023 to May 2024.

Batteries not disposed in the period July 2023 to May 2024.

Laboratory Waste & Used Chemicals & Reagents are diluted & let out in a pit specifically prepared for Chemical waste.

General Waste Disposal

Paper Waste disposed to local scrap merchant. No details provided.
Dried leaves waste generated 50 Kg per month so for 11 Months 550 Kg waste generated.
All collected dried leaves waste is kept in a pit to prepare natural Soil fertilizer.

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Suggestions for Environment / Green Audit / Water Audit related activities to be carried out by the Institute.

1) STP (Sewage Treatment Plant) can be installed for processing & reusing the Sewage waste water.
2) The Flushing Tanks of WC (Toilets) to be modified such that only half gets filled & thus while flushing only half of the water is used.
3) Drip irrigation can be implemented for the Trees.
4) To fit the atomizer devise to taps to save water.
5) Measures to be taken & implemented to save water or to recycle water.
6) Testing of the water in the drain as it is directly going into the soil.
7) Motion sensors can be fitted for the Light fittings in Washrooms, Lift and Lobby where continuous usage is not there.
8) To verify the radiation from Wifi & Mobile phones.
9) To conduct Poster & other Innovative Environment Idea Competition among students.
10) Installation of Secondary Electricity & Water Meters for getting accurate consumption figures.

The Above Report is prepared based on the Records / Data & Facts given by the Office bearers of Terna Engineering College.

(The Person signing the report will not be responsible as Proof of Data is not verified.)

For Sky Lab Analytical Laboratory

Mr. Saurabh Pansare.
(Director)
(18th June 2024)

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Noise Report.

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Customer / Organization / Location :-

23.02.2024

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Plot No 12, Sector-22 Opposite Nerul (W) Railway Station, Nerul, Navi Mumbai, Maharashtra 400706.
Kind Attention :- **Dr. Preeti Zade Madam.**

Report No. SLAL/70/02/2024. Date :- 23rd February 2024. Date of Sampling :- 16th February 2024.

Monitoring Performed by Holding the DB Meter for 1 Minute in decided Areas.
Test – Noise Level. Testing Results. Test Method - IS 9989:1981
Noise Level was monitored at 10 Locations.

Sr. No.	Sample Point	Unit Decibels (dB)	Specification Limits as per MPCB	Results
01	Ground Floor	dB	55 dB Institute Area	45
02	1st Floor Right Side	dB	55 dB Institute Area	47
03	1st Floor Left Side	dB	55 dB Institute Area	42
04	2nd Floor Right Side	dB	55 dB Institute Area	43
05	2nd Floor Left Side	dB	55 dB Institute Area	45
06	3rd Floor Right Side	dB	55 dB Institute Area	48
07	3rd Floor Left Side	dB	55 dB Institute Area	49
08	4th Floor Right Side	dB	55 dB Institute Area	41
09	4th Floor Left Side	dB	55 dB Institute Area	46
10	5th Floor Right Side	dB	55 dB Institute Area	47

(All Values are found within the MPCB & Office Noise limits)
Testing Equipment - DB Meter ID No. SLAL/INST/31.
Calibrated on 21.10.2023. Calibration Due on 20.10.2024.

For Sky Lab Analytical Laboratory
Mr. Saurabh Pansare.
(Director)

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Water Testing Report.

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Kind Attention :- **Dr. Preeti Zade Madam.**

23.02.2024

Report No. SLAL/71/02/2024. Date :- 23rd February 2024. Date of Sampling :- 16th February 2024.

Test – Water Quality. Testing Results.

Sample Collected from Wash Basin Tap Water Testing was monitored at 1 Location.

Sr. No.	Test Parameters	Unit	Specification Limits as per MPCB	Results
01	P H		6.5 – 8.5	7.4
02	Colour	C.U	100	<6
03	Suspended Solids	mg/L	100	78
04	Total Dissolved Solids	mg/L	2100	720
05	Total Alkalinity	mg/L	400	62
06	Chemical Oxygen Demand (COD)	mg/L	1000	64
07	Biological Oxygen Demand (BOD)	mg/L	400	19
08	Chloride	mg/L	600	8.7
09	Sulphate	mg/L	1000	1.5
10	Phenolic Compounds	mg/L	1	BDL
11	Nitrate	mg/L	2	0.2
12	Calcium	mg/L	150	27.4
13	Magnesium	mg/L	20	4.3
14	Fluoride	mg/L	3	BDL

Biological Testing Not Performed. ***BDL – Below Detection Limits.***
The Water Sample is Chemically suitable for Drinking after Filtration ***(All Values are found within the MPCB limits)***
Testing Equipment ID No. SLAL/INST/33. Calibrated on 21.09.2023. Calibration Due on 20.09.2024.

SKYLAB ANALYTICAL LABORATORY

For Sky Lab Analytical Laboratory

Mr. Saurabh Pansare.
(Director)

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MIDC, Village Kon, Tal. Bhiwandi - 421311 Dist. Thane, Maharashtra, INDIA. **Contact-** 02522-297784/85
Email- mails@skylabenviro.com **Website-** www.skylabenviro.com

National Accreditation Board for Testing and Calibration Laboratories

SCOPE OF ACCREDITATION

Laboratory Name :	SKYLAB ANALYTICAL LABORATORY, 202 & 302, CFC-3, ASMEETA TEXPA, PLOT NO. 1, BHIWANDI INDUSTRIAL AREA, M.I.D.C., VILLAGE KON, BHIWANDI, KALYAN, MAHARASHTRA, INDIA		
Accreditation Standard	ISO/IEC 17025:2017		
Certificate Number	TC-5150	**Page No**	27 of 27
Validity	16/05/2024 to 15/05/2026	**Last Amended on**	-

S.No	Discipline / Group	Materials or Products tested	Component, parameter or characteristic tested / Specific Test Performed / Tests or type of tests performed	Test Method Specification against which tests are performed and / or the techniques / equipment used
565	CHEMICAL- WATER	Packaged Drinking Water	Silica, as SiO2	IS 3025 (Part 35)
566	CHEMICAL- WATER	Surface Water	Magnesium Hardness	IS 3025 (Part 46)
567	CHEMICAL- WATER	Surface water	Phosphorus, as P	IS 3025 (Part 31)

NOTE- The Laboratory has demonstrated competence for the stated scope for WATER. This however does not fully cover the specification requirements of BIS for the Packaged Drinking Water as per IS 14543 and the Packaged Natural Mineral Water IS 13428.

PRINCIPAL
TERNA ENGINEERING COLLEGE
Sector, Navi Mumbai - 400 706

TPT's