



MEENAKSHI SUNDARARAJAN ENGINEERING COLLEGE

(Managed by I.I.E.T. Society, Affiliated to Anna University, Chennai,
Approved by AICTE, Accredited by NAAC with 'A' grade and NBA for programs applied)
363, Arcot Road, Kodambakkam, Chennai – 600 024, Tamil Nadu, India
Ph No: 044 – 24801636 Fax: 044 - 24811103



Criterion VII – Institutional Values and Best Practices

7.1 Institutional Values and Social Responsibilities

7.1.3 Facilities in the Institution for the management of degradable and non-degradable waste



MEENAKSHI SUNDARARAJAN ENGINEERING COLLEGE

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MEENAKSHI SUNDARARAJAN ENGINEERING COLLEGE
363, ARCOT ROAD, KODAMBAKKAM
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7.1.3 Description of the facilities in the Institution for the management of the following types of degradable and non-degradable waste

- Solid waste management
- Liquid waste management
- Biomedical waste management (NA)
- E-waste management
- Waste recycling system
- Hazardous chemicals and radioactive waste management (NA)

(A) SOLID WASTE MANAGEMENT

MSEC has taken various initiatives towards waste management. The Institute follows the principle of 3R (Reduce, Reuse and Recycle) to meet its objective of Sustainable Development by bringing ecological balance.

The vegetable waste from the canteen is disposed of regularly to keep the campus clean. However, waste is generated by all sorts of routine activities carried out in the College that includes paper, plastics, glass, metals, foods, etc. The college believes its utmost responsibility to remove all waste not only for the safety of the students but also not to harm the environment.

Adequate number of trash cans and dust bins are placed all over the campus. The collected waste is disposed-off with the help of Municipal Corporation on a daily basis. Waste generated in the college is segregated using different coloured (Blue ,Yellow ,Green) dustbins placed in the premises.

Composting facility is available for managing biodegradable/horticulture waste. Recyclable waste, dry waste and biodegradable/wet waste are processed and recycled. The paper-recycling unit, which has been operational in the college, generates fine quality paper which is used for various activities. The institute promotes minimal plastic usage and encourages staff and students not to use plastic in the premises.

Various awareness campaigns are organized on waste management. To sustain eco-friendly and green enabled campus, NSS programs like Swachh Bharat, Clean & Green activities and plantation in campus are regularly conducted.

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S. Prasad

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Facilities in the Institution for the management of degradable and non-degradable waste



Fig. 1: Main Block Back side - Solid waste Management: Segregation of waste

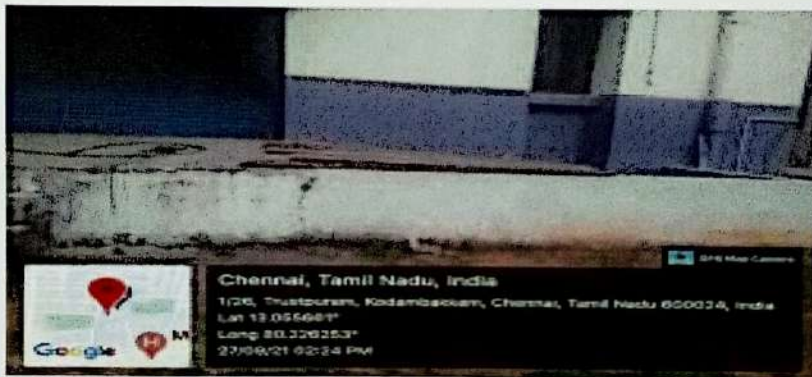


Fig. 2: Civil Block - Solid waste Management: Composting Back side



Fig. 3 : Civil Block - Solid waste Management: Composting - Back side

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S. Praveen

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Fig. 4: Civil Block - Solid waste Management: Composting - Back side

(b) LIQUID WASTE MANAGEMENT

Water conservation has become the need of the day. Rainwater harvesting is a way to capture the rainwater at the time of downpour, store that water above the ground or charge the underground water and use it later. The Institution has significant provisions for rainwater harvesting. The rain water is channelized properly to recharge the ground water level. Adequate arrangements are made to collect the roof water during rain is in place.

Rainwater harvesting:

Rain water harvesting system involves gathering of rainwater that runs from roof top, garden, road and playground. This is done to preserve the runoff water. This is one of the best solutions to tackle the present water crisis.

Objectives of rainwater harvesting:

- Recharge the groundwater sources.
- Reduce the loss of water by runoff.

Facilities provided for harvesting the rainfall in our campus:

MSEC, affiliated to Anna University is managed by Ganapathy Educational trust. The total strength of campus including students and staff is more than 3000. Water is the natural resource that is essential in life, always in high demand. Hence, keeping in view, rain water harvesting system can be considered as the best solution for fighting against water scarcity in campus. The rain water runoff harvested from roof top, garden, playground and other open lands is used to recharge the underground water potential and also reduce flood risk and improve living condition.

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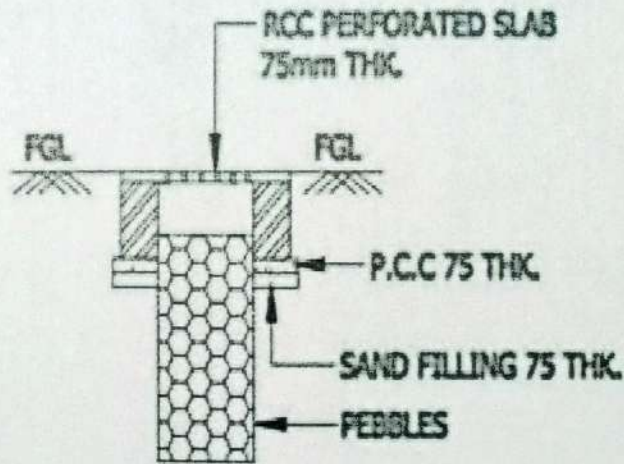
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C/S OF RAIN WATER CONSERVATION TRENCH

Fig. 5: Rain water Conservation Trench

The rain water conservation trenches as shown in the above figure are provided around the campus. This is one of the easiest and most effective means of harvesting rainwater. This conservation trench is about 10 feet height and also 5 feet width and 5 feet breadth in size, is filled with pebbles about a height of 7 feet. The trench is covered with perforated slabs wherever necessary. The rain water runoff collected in the trench is treated by the pebbles and the water enters into the ground in such a way that the groundwater potential is recharged. Closed canals are provided continuously around the campus to collect the rainwater runoff and discharged into the conservation trenches. These canals are provided continuously, i.e. excavated in the ground and then closed by perforated concrete slabs.

During heavy rainfall, (more than the average rainfall) the excess rain water flows through the canal and enters into the conservation trench, the excess water that gets overflowed will be collected in a sump that is constructed in the nearby trench. The water collected in the sump could be lifted to an overhead tank.

The average rainfall of Chennai city is 120 cm (Regional Meteorological Centre, Chennai). With this rainfall, our land comprising of 5 acres, harvests nearly 20 million litres of water per year. (against the total requirement of 160 million litres per year, nearly 12.5% requirement achieved by rain water harvesting system) This water directly enters in to the ground and enhances the quality and quantity of the existing ground water potential.

This type of ground water recharge improves our ground water potential, makes our garden green and provides a good environment to our students and staff. So our campus has well established system to make a sustainable environment.

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Through Rain water harvesting

100 cm rain fall

Height of rain fall: **100 cm = 1m**

Area: **5 acres = 20234.28 metre square**

Volume = area * height

= 1 m * 20234.28 metre square

= 20234.28 meter cube

= 20234.28 * 1000 (convert meter cube to litres)

= 20234280 litres

= **20 Million litres**



Fig. 6: Liquid waste Management: Effective rain harvesting system



Fig. 7 : Rain Water Harvesting

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Fig. 8 : Septic Tank-Disposal System

(c) BIOMEDICAL WASTE MANAGEMENT

Biomedical waste is not produced in the college and management of the same is not required.

(d) E-WASTE MANAGEMENT:

E-waste generated from various departments which cannot be reused or recycled is being disposed off centrally through certified eco-friendly vendors. Instead of buying a new machine, a buyback option is taken for technology upgrade. Any damages or reductions in capacity are set right by repairs. In addition, the college has emphasis on minimum paper usage to save carbon emission in printers.

E-waste is given to registered vendors, with an undertaking that the same will be processed or recycled in an environmentally sound manner as per the guidelines of Government of India. The e-waste includes a wide range of electronic and electrical items such as computers, printers, keyboards etc. Electronic machines and goods are put to optimum use. The institute takes efforts to minimize e-waste by repairing the computer peripheral and electronic components.

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(e) WASTE RECYCLING SYSTEM

- i. Vermicomposting
- ii. Waste Paper Recycling

Institution has taken initiatives towards waste management. The Institute follows the principle of 3R (Reduce, Reuse and Recycle) to meet its objective of Sustainable Development by bringing ecological balance.

The vegetable waste from the canteen is arranged to be disposed of regularly to keep the campus clean. Being an educational institution, the college does not generate any hazardous waste. Composting facility is available for managing biodegradable/horticulture waste. Recyclable waste, dry waste and biodegradable/wet waste are processed and recycled.

i. Vermicompost

Vermicompost is the product of the decomposition process using various species of worms, usually red wigglers, white worms, and other earthworms, to create a mixture of decomposing vegetable or food waste, bedding materials, and vermicast. This process is called vermicomposting, while the rearing of worms for this purpose is called vermiculture. It is one of the easiest methods to recycle agricultural waste and to produce quality compost; the earthworms consume biomass and excrete it in digested form called worm casts. Worm casts are popularly called as black gold. The cast are rich in nutrients, growth promoting substance and having properties of inhibiting pathogenic microbes. Vermicompost contains more of available nutrients than regular FYM or compost. Vermicomposting process is an answer to meet a huge demand of organic manure for popularizing the organic farming system in developing and underdeveloped countries of the world. The developed design of low cost vermin composting structure is capable of meeting the technological requirement for mass production of vermicompost.

It is one of the easiest methods to recycle waste and to produce quality compost earthworms which consume biomass and excrete its digested form called worm casts. It is cost efficient and economical than regular compost.



Fig. 11: Civil Block - Solid waste Management: Composting - Back side

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Waste Paper Recycling

Ph No: 044 – 24801636 Fax: 044 - 24811103



WASTE RECYCLING (2022)

NET

WOW
WELL BEING OUT OF WASTE

To
MS. MEENAKSHI SUNDARARAJAN ENGINEERING COLLEGE
ARCOT ROAD
KODAMBAKKAM
CHENNAI 600 024

Date: 21st Feb'2022

Dear Sir/Madam,

DELIVERY CHALLAN – A4 Paper Reams

Greetings from "WOW – Well Being out of Waste": a National Recycling Initiative by ITC Ltd PSPD and Nish Elgha Technologies Pvt Ltd !

Our heart full thanks to your Organization for being part of WOW Initiative. Reference to the enclosed statement of Collections of dry recyclable waste material, we are dispatching the A4 Paper JK Brand – Paper Reams of 75 GSM as an exchange towards the collections made.

Details are mentioned in the below table:

Period on: Jan'2022

Sl.	Name of the Client	Segment	Location	Total Quantity in kgs	Total Amount	No. of A4 Paper Reams
1	Meenakshi engg college	Educational Institutes	Kodampakkam	485	4170	21

JK 75GSM RED COPIER RS 197.00 PER REAM

Kindly acknowledge the photocopy of this Dispatch Note and retain the original for your office records.

For WOW-Chennai
M. Swaminathan
M. Swaminathan

Nish Elgha Technologies Pvt Ltd, Under ITC Ltd-WOW (Well Being out of waste)
SF No.651/3A, No.14, Anjaneyar Kovil Street, Vengaiwasal, Madambakkam, Chennai 600 073
Helpline 9677100845 / 9840922432 / 044-2278 0899 / chennaiwow@nishelgha.com

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verified by
S. Prasad

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NET

COLLECTION CHALLAN

From : M/s. MEENAKSHI SUNDARARAJAN ENGINEERING COLLEGE
 In Time :
 Vehicle No. : TN 11 AH 8134
 Date: 29-01-2022
 In Time :
 Location : MADAMBAKKAM
 Out Time:
 Concerned Person: Mr./Mrs. 1992
 Sl. No.

Dear Sir / Madam
 In compliance with "WOW" implementation for collection of dry waste from your organisation, we confirm having collected the following "Dry Recyclable Waste" for your premises today.

SL	DESCRIPTION	QTY (kg)
1	White / Office Records / Shredded Waste	194 kg
2	Color Records	116 kg
3	Old News Papers	168 kg
4	Mixed waste	
5	Kraft	07 kg
6	Others	/
TOTAL QTY		485 kg

Thanking you,
 Team WOW

Acknowledged by

Supervisor: *[Signature]*

[Signature]

NISH ELGHA TECHNOLOGIES PVT. LTD.

Tel No. 044 22780899 | CIN: 7220AP2001PTC36634

(Associates for ITC's WOW Initiative)

SF No. 651/3A, Flat No. 14, Anjaneyar Koil Street, Madampakkam, Chennai - 600 073.
 Contact: R. Saravanan - 98409 22432, M. Swaminathan - 96771 00845, G. Kudiyarasu - 99440 15467

Prepared by

verified by
[Signature]

[Signature]

PRINCIPAL
 MEENAKSHI SUNDARARAJAN ENGINEERING COLLEGE
 363, ARCOT ROAD, KODAMBAKKAM
 CHENNAI-600-024



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WoW (Well Being out of Waste) a National Recycling Initiative By ITC LTD,
 In Association with Nish Elgha Technologies Pvt Ltd
 14, Anjaneyar Koll Street, Madambakkam
 Chennai 600 073
 9840922432 / 044 - 2278 0899

Date	Source of Collection	ONP	Rate	AMT	White Waste	Rate	AMT	Kraft	Rate	Amt	Color Record	Rate	Amt	TOTAL QTY	Total Amt
29.01.2022	MEENAKSHI SUNDARARAJAN ENGINEERING COLLEGE	168	95	1596	194	9.5	1843	7	5	35	116	6	696	485	4,170.00

For WOW-Chennai

M. Swaminathan
 M.Swaminathan
 9677100845

WoW (Well Being out of Waste) a National Recycling Initiative By ITC LTD,
 In Association with Nish Elgha Technologies Pvt Ltd
 14, Anjaneyar Koll Street, Madambakkam
 Chennai 600 073
 98409 22432 / 044 - 2278 0899

Date	Source of Collection	ONP	Rate	AMT	White Waste	Rate	AMT	TOTAL QTY	Total Amt	Vehicle No
29.10.2022	MEENAKSHI SUNDARARAJAN ENGINEERING COLLEGE			0	345	9	3105	345	3,105.00	TN22M8160
01.11.2022	MEENAKSHI SUNDARARAJAN ENGINEERING COLLEGE	30	10	300	330	9	2970	360	3,270.00	TN22BX4854
							Total	705	6,375.00	

For WOW-Chennai

M. Swaminathan
 M.Swaminathan
 9677100845

Prepared by

AMM

verified by

S. Prasad

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Ph.No: 044 - 24801636 Fax: 044 - 24811103

A4 reems received against the Waste paper Disposal (2022)



NET



DC No.0218
Date: 18th Nov 2022

To
MS. MEENAKSHI COLLEGE FOR WOMEN
ARCOT ROAD
KODAMBAKKAM
CHENNAI 600 024

Dear Sir/Madam,

DELIVERY CHALLAN - A4 Paper Reams

Greetings from "WOW - Well Being out of Waste"; a National Recycling Initiative by ITC Ltd PSPD and Nish Elgha Technologies Pvt Ltd !

Our heart full thanks to your Organization for being part of WOW initiative. Reference to the enclosed statement of Collections of dry recyclable waste material, we are dispatching the A4 Paper JK Brand - Paper Reams of 75 GSM as an exchange towards the collections made.

Details are mentioned in the below table:

Period on: 29.10.2022 to 01.11.2022

Sl	Name of the Client	Segment	Location	Total Quantity in kgs	Total Amount	No. of A4 Paper Reams
1	Meenakshi college	Educational Institutes	Kodampakkam	705	6375	23 - 1 = 22

JK 75GSM RED COPIER RS 275.00 PER REAM

Kindly acknowledge the photocopy of this Dispatch Note and retain the original for your office records.

For WOW-Chennai

M. Swaminathan
M.Swaminathan

Nish Elgha Technologies Pvt Ltd, Associate with ITC Ltd-WOW (Well Being out of waste)
SF No.651/3A, No.14,Anjaneyar Kovil Street, Vengalvasal, Madambakkam, Chennai 600 073
Helpline 9677100845 / 9840922432 / 044-2278 0899 / chennaiwow@nishelgha.com

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verified by
[Signature]

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To
Meenakshi Sundararajan
Engineering College
Kodambakkam.

Date: 02.01.2024

Dear Sir/Madam,

DISPATCH NOTE – COPIER/STATIONERY

Greetings from "WOW – Wellbeing Out of Waste": A National Recycling by ITC PSPD

Our heart full thanks to your organization for being of WOW initiative. Reference to the enclosed statement of collections of dry recyclable waste material, we are dispatching the Copier an exchange towards the collections made.

Details are mentioned in the below table:

C.C.No/ Date	Name of the Client	Location	Segment	Total Quantity in kgs	Total Amount	No. of Reams
1212/ 30.12.2023	Meenakshi Sundararajan Engl College	Kodambakkam	Mixed Waste Papers	892x11	9812.00	JK Copier 75 GSM – 44 Reams
			Old News Papers	57x11	627.00	
			Colour Papers	222x6	1332.00	
			Kraft	12x6	72.00	
			Total	1183 kgs	11843.00	

C.C Value = Rs. 11843/-
 75 GSM JK - 44 Reams/ Rs. 270 per Ream = Rs. 11880/-
 Total Settlement Value = Rs. 11880/- (Rs. 37 excess amount adjust in next settlement)
 Reams Settled on date (02.01.2024)

Kindly acknowledge the photocopy of the dispatch note and retain the original for your office records
Contact

G. Kuriyarasu - 9844015467 | S. Karthikayan - 8056551666



Received
P. Val... ..

Prepared by
Am

certified by
S. Pr...

PRINCIPAL
MEENAKSHI SUNDARARAJAN ENGINEERING COLLEGE
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WE RECYCLERS

COLLECTION CHALLAN

From : M/s. Meenakshi Sundararajan Engg College
 GSTIN/UIN : 33DUCPS3578E12H
 In Time : Out Time: Date: 28/9/24
 Vehicle No : 9M 14 AB 1425
 HUB :
 In Time : Out Time: SI.No. 234
 Concerned Person : Mr/Mrs.

Dear Sir / Madam
In compliance with "WOW" Implementation for collection of dry waste from your organisation, we confirm having collected the following "Dry Recyclable Waste" from your premises today.

SL	DESCRIPTION	QTY (kg)
1.	White / Office Records / Shredded Waste	
2.	Color Records -	733.650 -
3.	Old News Paper -	309.950 -
4.	Mixed Waste -	861.350 -
5.	Kraft Box	
6.	Dustbin Waste Papers	
7.	BB -	17.450 -
8.	Others	
TOTAL QTY		1922.400 -

Thanking you,
Team WOW
Supervisor :

Acknowledged by

WE RECYCLERS

Plot: No.3/888, No.38,39,40, Kulakarai Street,
Dawood Nagar, Medavakkam, Chennai - 600 100, INDIA.
State Name : Tamil Nadu, Code : 33
E-Mail : joinwrecyclers@gmail.com
itcowkudiyarasu@gmail.com
(Associates for ITC's WOW initiative)

Contact :
G.Kudiyarasu-99440 15467 | S.Karthikeyan-80585 51886 | G.Saravanan-98404 34389

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(F) HAZARDOUS CHEMICALS AND RADIOACTIVE WASTE

Live (hazardous) waste is discarded after autoclaving (killing the microbes before discarding).

Radioactive waste is not generated in the college.

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Criterion VII – Institutional Values and Best Practices

7.1 Institutional Values and Social Responsibilities

7.1.4 Water conservation facilities available in the institution

GeoTagged Photos



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RAIN WATER HARVESTING



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Approved by AICTE, Accredited by NAAC with 'A' grade and NBA for programs applied)
363, Arcot Road, Kodambakkam, Chennai – 600 024, Tamil Nadu, India
Ph No: 044 – 24801636 Fax: 044 - 24811103



MAINTAINENCE OF DISTRIBUTION SYSTEM



Fig. 1: LOCATION: CIVIL BLOCK



Fig. 2: LOCATION: HOSTEL BLOCK

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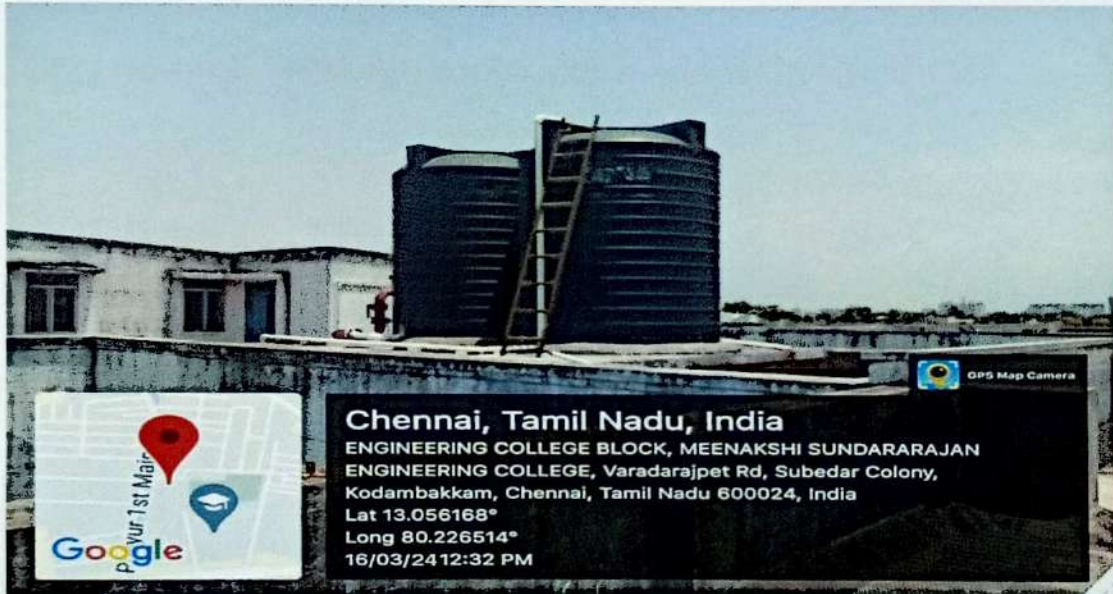


Fig. 3 : LOCATION: MECHANICAL BLOCK

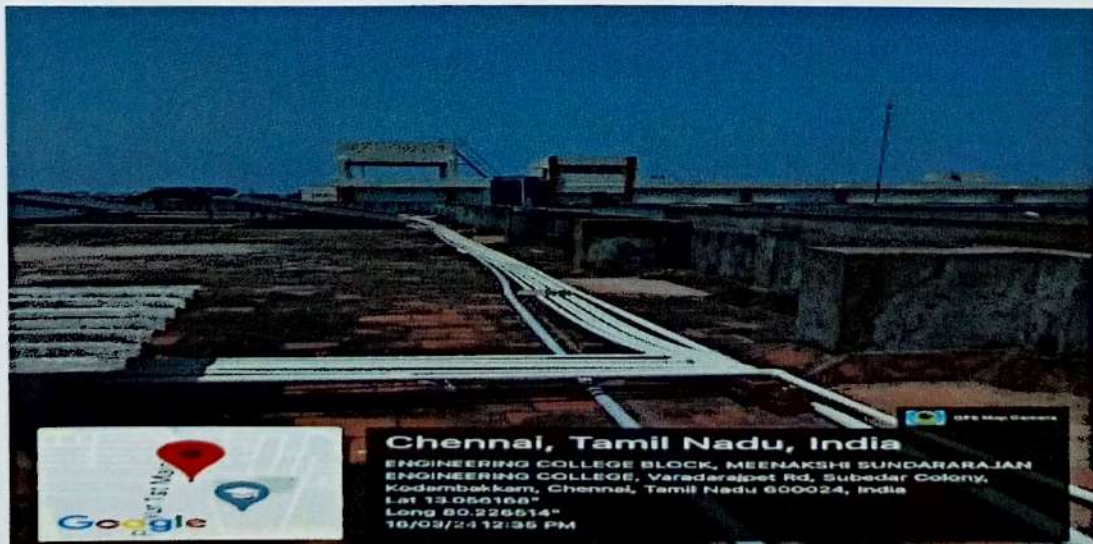


Fig. 4 : LOCATION: MAIN BLOCK

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