

**7.1.4: Kindly provide Green audit reports on water conservation by recognized bodies**

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Mumbai - 20

**GREEN AUDIT REPORT**  
on  
**WATER MANAGEMENT & CONSERVATION**

**S N D T WOMEN'S UNIVERSITY,**  
Mumbai 400 020



Year: 2022-23

Prepared by:

**ENGRESS SERVICES**

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*G. S.*

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**Mumbai**

# Registration Certificates: UDYAM, MEDA, ASSOCHAM GEM-CP, ISO: 9001 & 14001:

**UDYAM REGISTRATION CERTIFICATE**

UDYAM REGISTRATION NUMBER: UDYAM-MH-26-0135636

NAME OF ENTERPRISE: ENGRESS SERVICES

TYPE OF ENTERPRISE:

S.No.	Classification Year	Enterprise Type	Classification Date
1	2023/24	Micro	03/02/2024
2	2021/22	Micro	26/06/2022
3	2021/22	Micro	27/07/2021

MAJOR ACTIVITY: SERVICES

SOCIAL CATEGORY OF ENTREPRENEUR: GENERAL

NAME OF UNIT(S):

S.No.	Name of Unit(s)
1	Engress Services

OFFICIAL ADDRESS OF ENTERPRISE:

S.No.	Name of Premises/Building	Village/Town	Post	Block	City	State	Pin Code	Distric	Mobile	Email
1	26	Lalmar	Pune	1	Pune	MAHARASHTRA	411009	PUNE	9767447244	engr1213@gmail.com

DATE OF INCORPORATION/REGISTRATION OF ENTERPRISE: 13/04/2021

DATE OF COMMENCEMENT OF PRODUCTION/BUSINESS: 13/04/2021

NATIONAL INDUSTRY CLASSIFICATION CODE(S):

S.No.	NIC 2 Digit	NIC 4 Digit	NIC 5 Digit	Activity
1	76	7610	76109	Services

DATE OF UDYAM REGISTRATION: 27/07/2021



**Maharashtra Energy Development Agency**

CERTIFICATE OF REGISTRATION FOR CLASS 'A'

Name and Address of the firm: M.J. Engress Services, Yashwantrao Chavan Marg, Near Maharashtra Energy Conservation Programme, Pune-411009

Registration Category: Empowered/Authorized for Energy Conservation Programme

Registration Number: MEDA/CN/2022/Class A/132

• The Agency is authorized to conduct energy audits, identify energy conservation opportunities, and implement energy conservation measures.

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## **ACKNOWLEDGEMENT**

We Engress Services, Pune, express our sincere gratitude to the management of SNDT Women's University, Mumbai, for awarding us the assignment of Water Consumption & Conservation Study Report of their Churchgate, Juhu and Pune Campuses for the Year: 2022-23

We are thankful to all staff members for helping us during the field study.



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## **EXECUTIVE SUMARY**

1. **SNDT Women's University**, has three Campuses, namely at **Churchgate, Juhu and Pune**. The Main source of Water is from the Municipal Corporation Water Supply and the borewells inside the University premises.

### **2. Present Per Day Water Consumption:**

No	Campus	Per day Water Consumption in Liters
1	Churchgate	96000
2	Juhu	200000
3	Pune	180000
4	Total	476000

### **3. Rain Water Harvesting/Conservation Practices:**

- Water Collection through Pipes from all the terraces
- Ring well Facility at the Churchgate Campus
- Recharging the borewell at Pune Campus

  
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## **CHAPTER-I**

### **INTRODUCTION**

#### **1. Key Study Points:**

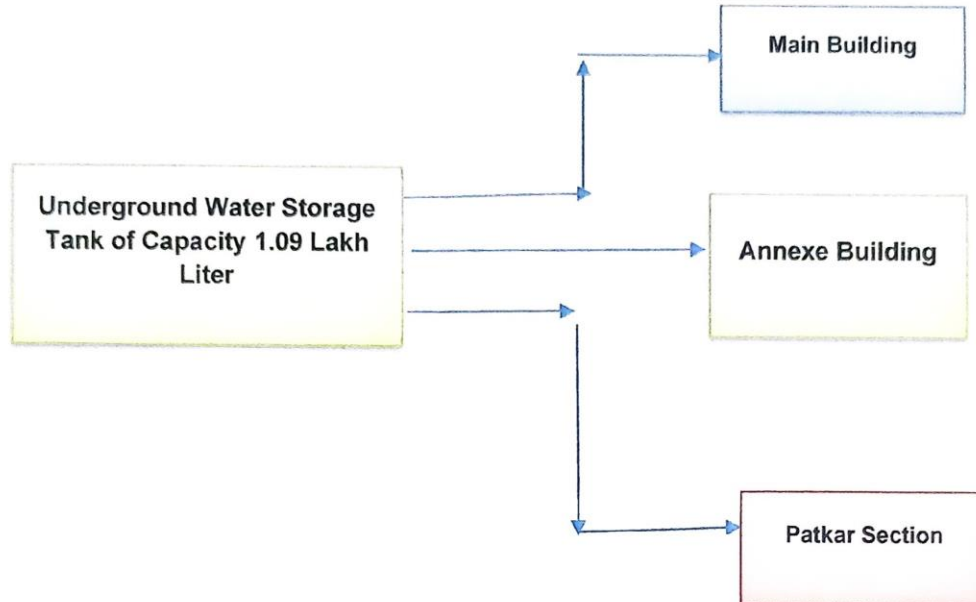
<b>No</b>	<b>Particulars</b>
1	Introduction
2	Study of Present Water Consumption
3	Study of Rain Water Management & Conservation Practices

  
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## CHAPTER-II

### STUDY OF PRESENT WATER CONSUMPTION

#### 1. Study of Single Line Diagram at Churchgate Campus:



#### 1.1 Distribution System Details:

There is one Underground Water tank of Capacity 1.09 Lakh Liters at the Maon entrance. The Water supply is from the Mumbai Municipal Corporation. Ther are Overhead Tanks at all the 3 Building Sections.

#### 2. Study of Water Distribution System at Juhu Campus:

No	Location	Storage Tank Capacity in Liters
1	Main Gate	100000
2	U M I T	98000
3	S V T	98000
4	MANA	48000
5	Exam Bhavan	30000
6	P V P	30000
7	Gate No 3	10000
8	Total	414000

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### 3. Study of Water Distribution System at Pune Campus:

The Main Underground Water Tank is of Capacity 4 Lakh Liters. There are Overhead Tanks at each building.

The Main Blocks are:

- Campus Admin
- College of Education
- Hostel Blocks
- Arts College
- Home Science College
- Management College
- Hostel Blocks

### 4. Water Consumption Estimation:

Based on the Field Study and discussions with the respective Pump operators at the 3 Campuses, we present herewith daily water consumption estimate  
Water Consumption Estimation per Day:

No	Campus	Consumption in Liters/Day
1	Churchgate	96000
2	Juhu	200000
3	Pune	180000
4	<b>Total</b>	<b>476000</b>

  
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## CHAPTER III

### STUDY OF RAIN WATER MANAGEMENT & CONSERVATION

#### 3.1 Rain Water management at Churchgate Campus:

The University has implemented Ring Well type arrangement to store the Rain water falling on the terrace.

Photograph of Rain Water Collecting Pipe:



Rain Water  
Collecting Pipe

#### 3.2 Rain Water management at Pune Campus:

The rain water falling on the terrace is collected through Pipes and is used to increase the Underground Water Table.

Photograph of Rain Water Collecting Pipe: Pune Campus:



Rain Water  
Collecting Pipe

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### 3.3 Rain Water management at Juhu Campus:

The rain water falling on the terrace is collected through Pipes and is used to increase the Underground Water Table.

#### Photograph of Rain Water Collecting Pipe: Pune Campus:



Rain Water  
Collecting Pipe

### 3.4 Further Water conservation Opportunities:

- Installation of Water Meters
- Maintenance of Water Consumption Data- On Monthly basis
- Usage of Water Efficient nozzles
- Usage of Dual Flush system for flushing

  
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## CHAPTER IV

### Study of waste water recycling practices.

As per the green campus policy institutions preserve natural resources like water and biodiversity, manage waste and educate about climate change and sustainability and optimize energy effectiveness, while bringing about sense of citizenship among students through participation and addressing well-being of the students.

Science and technology colleges conduct many experiments using condensers such as extraction from medicinal plants, synthesis of APIs etc. where water is recycled through condensers. Following is the photograph of such water recycling.



**Soxhlet apparatus used for extraction in laboratories utilizes water recycling technique to save water.**

University has installed waste water recycling plant at SNDTWU campus. The plant will help to recycle the waste water which is reused for various purposes such as for gardens and flush tanks, etc.

**Conclusion:** The university is practising various water conservation practices satisfactorily.



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