

SNDT Women's University

Shreemati Nathibai Damodar Thackersey Women's University



NAAC - SSR

CRITERION VII

Supporting Documents

for

7.1.4: Water conservation facilities available in the Institution:

- 1. Rain water harvesting**
- 2. Borewell /Open well recharge**
- 3. Construction of tanks and bunds**
- 4. Waste water recycling**
- 5. Maintenance of water bodies and distribution system in the campus**

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WATER CONSUMPTION ESTIMATION & RAIN WATER MANAGEMENT STUDY REPORT

S N D T WOMEN'S UNIVERSITY,

Mumbai 400 020



Year: 2023-24

Prepared by:

ENGRESS SERVICES

Yashashree, 26, Nirmal Bag Society
Near Mukhtangan English School, Parvati, Pune 411009
Phone: 09890444795 Email: engress123@gmail.com



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

भारत सरकार
Government of India
सूक्ष्म, लघु एवं मध्यम उद्यम मंत्रालय
Ministry of Micro, Small and Medium Enterprises

UDYAM REGISTRATION CERTIFICATE

UDYAM REGISTRATION NUMBER: UDYAM-MH-26-8135636

NAME OF ENTERPRISE: ENGRESS SERVICES

S.No.	Classification Year	Enterprise Type	Classification Date
1	2023-24	Micro	03/02/2024
2	2022-23	Micro	26/06/2022
3	2021-22	Micro	27/07/2021

TYPE OF ENTERPRISE: SERVICES

MAJOR ACTIVITY: GENERAL

SOCIAL CATEGORY OF ENTREPRENEUR: GENERAL

NAME OF UNIT(S): Engress Services

OFFICIAL ADDRESS OF ENTERPRISE:

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

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

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

NATIONAL INDUSTRY CLASSIFICATION CODE(S): 79 - Activities of head offices, management consultancy activities

DATE OF UDYAM REGISTRATION: 27/07/2021



MAHARASHTRA ENERGY DEVELOPMENT AGENCY
Maharashtra Energy Development Agency
(Government of Maharashtra Institution)
Aundh Road, Opposite Spicor College Road, Near Commissionerate of Animal Husbandary,
Aundh, Pune, Maharashtra-411007
Ph No: 020-35000450
Email: ee@maharaja.com, Web: www.maharaja.com

ECN/2022-23/CR-41/1709 18th May, 2022

CERTIFICATE OF REGISTRATION FOR CLASS 'A'

We hereby certify that, the firm having following particulars is registered with MAHARASHTRA ENERGY DEVELOPMENT AGENCY (MEDA) under given category as "Energy Planner & Energy Auditor" in Maharashtra for Energy Conservation Programme of MEDA.

Name and Address of the firm: M/s Engress Services
Yashashree, 26, Nirmal Bag Society,
Near Mukangan English School,
Purvati, Pune - 411 009.

Registration Category: Empowered Consultant for Energy Conservation Programme for Class 'A'

Registration Number: MEDA/ECN2022-23/Class A/EA-12.

- Energy Conservation Programme intends to identify areas where wasteful use of energy occurs and to evaluate the scope for Energy Conservation and take concrete steps to achieve the evaluated energy savings.
- MEDA reserves the right to visit at any time without giving prior information to verify quarterly activities performed by the firm and canceling the registration, if the information is found incorrect.
- This empowerment is valid till 09th May, 2024 from the date of registration, to carry out energy audits under the Energy Conservation Programme.
- The Director General, MEDA reserves the right to cancel the registration at any time without assigning any reasons thereof.

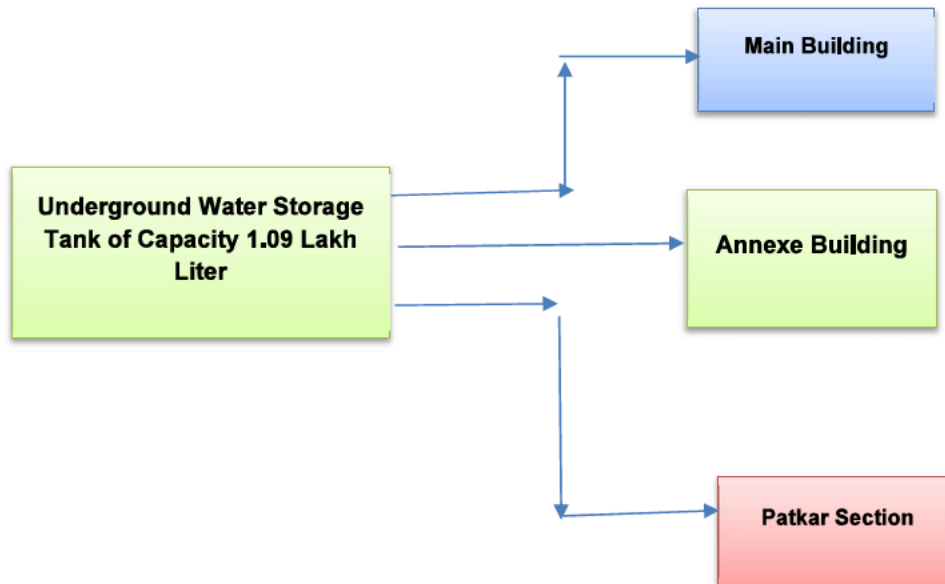
General Manager (EC)



Engress Services, Pune

CHAPTER 1. STUDY OF WATER CONSUMPTION ESTIMATION

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

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	Total	476000

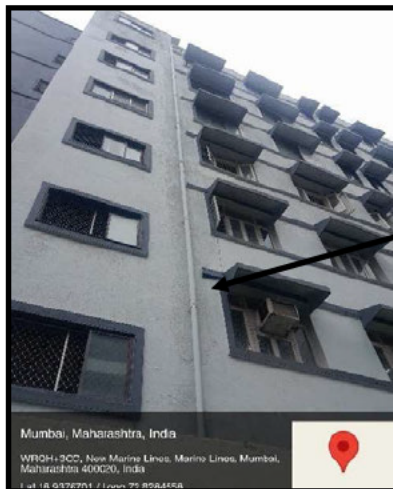
CHAPTER II

STUDY OF RAIN WATER MANAGEMENT

2.1 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

2.2 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

2.3 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

CHAPTER II

STUDY OF WATER CONSERVATION OPPORUNITIES

In this Chapter we present various Opportunities to reduce the Water Consumption.

- Installation of Water Meters at all Main outgoing pipe Sections
- Usage of Auto Controller Unit for all Pump houses
- Usage of Efficient Water Nozzles
- Usage of Dual Flush System at all Wash rooms
- Installation of Sand Filter units in all Water pipe lines running down from the terrace
- Prepare Water Consumption Charts for all Campuses and recording the Data on Daily basis