

(ACADEMY OF MARITIME EDUCATION AND TRAINING)

(A de novo Category DEEMED TO BE UNIVERSITY Under Section 3 of UGC Act 1956)

CRITERION 7 INSTITUTIONAL VALUES AND BEST PRACTICES **KEY INDICATOR** 7.1 INSTITUTIONAL VALUES AND SOCIAL

RESPONSIBILITIES

QIM / QnM

7.1.4 Water conservation facilities available in the Institution:

ADDITIONAL INFORMATION



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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

1. Rain water Harvesting:

Rainwater collected from rooftops connected to existing down-takes leading to a common header flows through a filter. The filtered water is then led to a nearby sump and then piped for domestic use

	Rain Water Harvesting Areas -2015-16			
SI No.	Description	Location	No. Of Chambers	Depth
1		Mahatma Gandhi Block - North side	1	
2	On Chamber: Rain Water Harvesting On Pipe : Rain Water Harvesting	Mahatma Gandhi Block - South side	1	
3		Rabindranath block- North side	1	
4		Rabindranath block- west side	1	7 ft Each
5		Bharathiar block- North side	1	
6		Yamuna Hostel - East side	1	
7		Yamuna Hostel - North side	1	
Total Chambers7 Nos.				



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	Rain Water Harvesting Areas - 2016-17			
SI No.	Description	Location	No. Of Chambers	Depth
1	On Chamber: Rain Water Harvesting On Pipe : Rain Water Harvesting	Mahatma Gandhi Block - North side	1	
2		Mahatma Gandhi Block - South side	1	
3		Rabindranath block- North side	1	
4		Rabindranath block- west side	1	
5		Bharathiar block- North side	1	7 ft
6		Yamuna Hostel - East side	1	Each
7		Yamuna Hostel - West side	1	
8		Yamuna Hostel - North side	1	
9		VOC block - South side	1	
Total Chambers9 Nos.				

Rain Water Harvesting Areas 2017-18

SI No.	Description	Location	No. Of Chambers	Depth/ Capacity (ltrs)
1		Mahatma Gandhi Block - North side	1	
2		Mahatma Gandhi Block - South side	1	
3	On Chamber: Rain Water Harvesting On Pipe : Rain Water Harvesting	Rabindranath block- North side	1	
4		Rabindranath block- west side	1	
5		Bharathiar block- North side	1	7ft Each
6		Yamuna Hostel - East side	1	
7		Yamuna Hostel - West side	1	
8		Yamuna Hostel - North side	1	
9		VOC block - South side	1	
10		Kaveri Hostel - South side	1	
		Total Chambers	10 Nos.	



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Rain Water Harvesting Areas - 2018-19

SI No.	Description	Location	No. Of Chambers	Depth
1		Mahatma Gandhi Block - North side	1	
2		Mahatma Gandhi Block - South side	1	
3	On Chamber: Rain Water Harvesting On Pipe : Rain Water Harvesting	Rabindranath block- North side	1	
4		Rabindranath block- west side	1	
5		Bharathiar block- North side	1	
6		Yamuna Hostel - East side	1	
7		Yamuna Hostel - West side	1	
8		Yamuna Hostel - North side	1	6 ft Each
9		VOC block - South side	1	
10		VBS Rajan Library block - South side	1	
11		VBS Rajan Library block - South side	1	
12		VBS Rajan Library block - South side	1	
13		Kaveri Hostel - South side	1	
Total Chambers			13 Nos.	

	Rain Water Harvesting Areas - 2019-20			
SI No.	Description	Location	No. Of Chambers	Depth
1		Mahatma Gandhi Block - North side	1	
2		Mahatma Gandhi Block - South side	1	
3		Rabindranath block- North side	1	
4	On Chamber: Rain Water Harvesting On Pipe : Rain Water Harvesting	Rabindranath block- west side	1	
5		Bharathiar block- North side	1	
6		Yamuna Hostel - East side	1	
7		Yamuna Hostel - West side	1	6 ft Each
8		Yamuna Hostel - North side	1	
9		VOC block - South side	1	
10		VBS Rajan Library block - South side	1	
11		VBS Rajan Library block - South side	1	
12		VBS Rajan Library block - South side	1	
13		Kaveri Hostel - South side	1	
Total Chambers 13 Nos.				



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Rainwater harvesting pits



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2. BOREWELL /OPEN WELL RECHARGE:

Water is a very scarce and crucial natural resource. In recent years, the state and the region is facing a acute shortage of water not only due to uneven and erratic rainfall but also due to improper management of rainwater.

Drought is a common feature. Rainwater harvesting and its reutilization for providing protective irrigation proved effective in assured crop production. Groundwater is clearly the preferred source for farmers. This is one of the reasons why the region has experienced explosive growth in groundwater demand during recent decades and this is one of the reasons why groundwater demand will further expand with changing climate.

However, groundwater lifeline is in precarious situation and is likely to remain for many coming years the water table is depleting at an alarming rate. Large number of wells, hand pumps and tube wells become dry in many areas causing acute shortage of irrigation and drinking water supply in the state. Sustainable crop production in rain fed areas can be achieved if supplemental irrigation can be provided.

Groundwater is the major source for providing supplemental irrigation particularly during dry spell in kharif and in rabi seasons. Looking to the enhancement of groundwater potential, An open well located in the campus and it is recharged by rain water



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Borewell recharge points



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3. Construction of tanks and bunds:

AMET has found to have Red loam soil .It is formed by decomposition of granite, gneiss, and diorite rocks. This soil is cloddy, porous and lacks concretion materials. Red loam soil is lower in nitrogen, phosphorus and organic matter but mainly rich in potash and leaching. Hence construction of tanks and bunds are not necessary.





In-house pond



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4. Waste water recycling:

Sewage treatment plant:

STP Capacity – 530 KLD

Type- FBBR Type

The treated water is used for gardening and flushing of toilets in hostel blocks. NABL accredited labs certify the quality of treated water. The STP treated water test report of analysis from the NABL accredited laboratory is attached in the annexure. The Treated water results are under the Tolerance limit as per TNPCB (Tamil Nadu Pollution Control Board).



Sewage Treatment Plant



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Sewage Treatment Plant

Treated Water Test Result

SL.NO	Parameters	Results	TNPCB Limits
1	pH	6.85	5.5-9
2	TSS	12	30
3	Colour	Colourless	2100 B
4	COD	84	250
5	BOD	10	20
б	Chlorides	285	1000
7	Sulphates	78	1000
8	Oil and Grease	<1.0	10



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Utilization of STP treated Water to gardens

5. MAINTENANCE OF WATER DISTRIBUTION SYSTEMS IN THE CAMPUS

The ground water is pumped into storage tanks located at different places in the campus. There are nine numbers of overhead storage tanks and one Elevated Service Reservoir in the campus. The water is distributed through well laid pipe network. Drinking water after treating in RO plant is supplied through a separate set of distribution pipes and water for all other purpose is supplied through another set of distribution pipes. Entire distribution system is well supervised by Civil works committee to ensure that there are no leakages and wastages of precious water through joints, valves etc. Waste usage of water is reduced using low pressure flushes. All the stakeholders of the college are well educated to use water economically and efficiently.



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Watering of Plants





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Plan showing Distribution of water in the campus



Water Distribution system



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ACADEMY ND TRAINING Dr.P.SARAVANAN 231 DEEMED TO BE UNIVERSITY IN MARITIME EDUCATION REGISTRAR 15.07.2019 The District Collector Kanchipuram Distric Tamil Nadu. Respected Sir. S /b Water Scarcity - Maintenance of Pond covered with Garbage, Grass and mud etc - Permission requested - Regarding. Our University is situated in Kanathur village of Kanchipuram District. The problem of Water Searcity caused serious dislocation of the normal activity of the people. The problem can be solved by maintaining the existing pond by increasing the storage capacity of water. The could be achieved by de-silting the pond. Our University is willing to contribute the service of NSS Volunteers to clean the nearby pond by removing the silt, garbage, grass and mud filled in the pond through which the pond will be renovated and useful to store more rain water. In this regard, we request your kind permission to de-silt the pond very near to our institution by utilizing the services of our NS + Volunteers. With Thanks & Regards Copy to EGISTRAR 1. Block Development Officer Registrer ACADENY OF MARITIME EDUCATION Thiruppur Panchavat Union (Deemed to be University u/s 3 of UG # 135, East Cost Roa 2. Village Administrative Officer Kanathur - 603 112, Chenr Kanathur Village East Coast Road, Kanamur - 603 112, Chennai, India. Tel.: 044-2744 4625 / 627 Fax: 044-2747 280 Email : office@-metuniv.ac.in Website : www.ametuniv.ac.in

Notification for cleaning temple pond



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Water body Conservation through Lake and Pond Cleanup programme







Porur Lake Clean Up



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Pond clean up



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Temple Pond Clean Up