



# NARAYANA COLLEGE OF NURSING


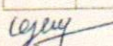
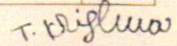
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## WASTE WATER ANALYSIS REPORT

	<b>UNIVERSAL</b>	Recognised by NABL and MoEF & CC, GOI, New Delhi. Certified by ISO 9001 : 2015 and ISO 45001 : 2018		
	<b>ENVIRO ASSOCIATES</b>			
<small>Since 1994</small>	<b>TEST REPORT</b>	Date: 28-06-2024		
REF.NO:UEA/NMCH/R1/0624	<b>WASTEWATER ANALYSIS</b>			
Name of the Industry & Adress	<b>M/s. Narayana Medical College &amp; Hospital,</b> Chinta reddy palem,Nellore, SPSR Nellore (Dist.).			
Sample Particulars	STP Inlet			
Date of collection	24-06-2024			
Date of Analysis	25-06-2024			
S No	Parameter	Units	Method	Result
1	pH @ 25.0°C	---	APHA 23 <sup>rd</sup> Edition,2017, 4500 H+ B	7.88
2	Total Dissolved Solids	mg/L	APHA 23 <sup>rd</sup> Edition,2017, 2540 C	1,569
3	Total Suspended Solids	mg/L	APHA 23 <sup>rd</sup> Edition,2017, 2540 D	253
4	Chemical Oxygen Demand	mg/L	APHA 23 <sup>rd</sup> Edition,2017: 5220 B	396
5	Bio Chemical Oxygen Demand (27°C @ 3 Days)	mg/L	IS: 3025 (Part-44)-1993, Reaffirmed 2014	168
6	Oil & Grease	mg/L	APHA 23 <sup>rd</sup> Edition,2017: 5520 B	4.6
 Analyst		 Authorised Signatory		
# 178, Ramakrishna Nagar, Opp. IOCL, Chengicherla, Hyderabad - 500 039. Ph: 040 - 4890 8772, e-mail: uea123@gmail.com, www.universalenviro.in <b>WTP, STP, ETP &amp; ZLD (Supply, O&amp;M)   POLLUTION TESTING &amp; ANALYSIS   ENV. AUDIT   OTHER ENV. SERVICES</b>				
<small>Note: This report is subject to the terms and conditions mentioned overleaf</small>				

*Dr. B. Chamy*  
 Principal  
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 Chinthareddypalem,  
 NELLORE - 524 003

## Central Clinical Laboratory Report

### DEPARTMENT OF MICROBIOLOGY

### CULTURE REPORT FOR WATER ANALYSIS

SAMPLE: 1. NARAYANA NURSING INSTUTION RO- PLANT WATER 5 TH FLOOR SAMPLE - 2

NO OF SAMPLES RECIVED: 2

SAMPLE RECIVED ON: 21/09/2024

REPORTED ON: 23/09/2024

MEDIUM: HI SELECTIVE H<sub>2</sub>S MEDIUM KIT

METHOD: Quantitative estimation of CFU/ml of water.

REFFERING HOSPITAL: NARAYANA MEDICAL COLLEGE HOSPITAL

#### REPORT:

1. NARAYANA NURSING INSTUTION RO- PLANT WATER 5<sup>TH</sup> FLOOR ( COLLEGE ) : NO GROWTH OBSERVED AFTER 48 HRS OF AEROBIC INCUBATION.
2. NARAYANA NURSING INSTUTION RO- PLANT WATER 5<sup>TH</sup> FLOOR ( MESS ) : NO GROWTH OBSERVED AFTER 48 HRS OF AEROBIC INCUBATION.

#### INTER PRETATION:

<200CFU/ml of water is permissible according to CDC guidelines 2009.

#### SUGGESTED:

1. DISINFECT WATER DISTRIBUTION SYSTEM ONCE IN THREE DAYS.
2. AVOID INCORPORATING JOINTS TO WATER SYSTEM AND AVOID UNUSED BRANCHES AND TAPS.
3. STORAGE TANKS SHOULD BE FITTED WITH ULTRA FILTERS.
4. SEND THE WATER FOR MICR BIAL COUNTS ONCE IN TWO WEEKS.

VERIFIED BY TECHNICIAN

*Dr. Bodhuni*  
Principal

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*[Signature]*  
MICROBIOLOGIST  
25/9/2024

*Bringing Life to Lives*



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 ISO 45001: 2018

REF.NO:UEA/NMCH/R1/0223

**TEST REPORT**

Date: 21-02-2023

**WASTEWATER ANALYSIS**

Name of the Industry & Address : **M/s. Narayana Medical College & Hospital,**  
 Chinta reddy palem, Nellore,  
 SPSR Nellore (Dist.).

Sample Particulars : STP Inlet  
 Date of collection : 16-02-2023  
 Date of Analysis : 17-02-2023

S No	Parameter	Units	Method	Result
1	pH @ 25.0°C	---	APHA 23 <sup>rd</sup> Edition, 2017, 4500 H+ B	7.63
2	Total Dissolved Solids	mg/L	APHA 23 <sup>rd</sup> Edition, 2017, 2540 C	1,499
3	Total Suspended Solids	mg/L	APHA 23 <sup>rd</sup> Edition, 2017, 2540 D	253
4	Chemical Oxygen Demand	mg/L	APHA 23 <sup>rd</sup> Edition, 2017: 5220 B	378
5	Bio Chemical Oxygen Demand (27°C @ 3 Days)	mg/L	IS: 3025 (Part-44)-1993, Reaffirmed 2014	152
6	Oil & Grease	mg/L	APHA 23 <sup>rd</sup> Edition, 2017: 5520 B	3.9

*[Signature]*  
 Analyst

*[Signature]*  
 T. Krishna  
 Authorised Signatory



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**TEST REPORT**

REF.NO:UEA/NMCH/R1/0623

Date: 15-06-2023

**WASTEWATER ANALYSIS**

Name of the Industry & Address : **M/s. Narayana Medical College & Hospital.,**  
 Chinta reddy palem, Nellore,  
 SPSR Nellore (Dist.).

Sample Particulars : **STP Inlet**  
 Date of collection : **08-06-2023**  
 Date of Analysis : **09-06-2023**

S No	Parameter	Units	Method	Result
1	pH @ 25.0°C	---	APHA 23 <sup>rd</sup> Edition, 2017, 4500 H+ B	7.61
2	Total Dissolved Solids	mg/L	APHA 23 <sup>rd</sup> Edition, 2017, 2540 C	1,528
3	Total Suspended Solids	mg/L	APHA 23 <sup>rd</sup> Edition, 2017, 2540 D	261
4	Chemical Oxygen Demand	mg/L	APHA 23 <sup>rd</sup> Edition, 2017: 5220 B	384
5	Bio Chemical Oxygen Demand (27°C @ 3 Days)	mg/L	IS: 3025 (Part-44)-1993, Reaffirmed 2014	161
6	Oil & Grease	mg/L	APHA 23 <sup>rd</sup> Edition, 2017: 5520 B	3.2

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*Dr. Bahuj*  
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**TEST REPORT**

REF.NO:UEA/NMCH/R2/0623

Date: 15-06-2023

**WASTEWATER ANALYSIS**

Name of the Industry & Adress : **M/s. Narayana Medical College & Hospital.,**  
 Chinta reddy palem,Nellore,  
 SPSR Nellore (Dist.).

Sample Particulars : STP Outlet  
 Date of collection : 08-06-2023  
 Date of Analysis : 09-06-2023

S No	Parameter	Units	Method	Result	Standards
1	pH @ 25.0°C	---	APHA 23 <sup>rd</sup> Edition,2017, 4500 H+ B	7.39	5.5-9.0
2	Total Dissolved Solids	mg/L	APHA 23 <sup>rd</sup> Edition,2017, 2540 C	919	2100
3	Total Suspended Solids	mg/L	APHA 23 <sup>rd</sup> Edition,2017, 2540 D	25.3	200
4	Chemical Oxygen Demand	mg/L	APHA 23 <sup>rd</sup> Edition,2017: 5220 B	54.1	250
5	Bio Chemical Oxygen Demand (27°C@ 3 Days)	mg/L	IS: 3025 (Part-44)-1993, Reaffirmed 2014	15.2	100
6	Oil & Grease	mg/L	APHA 23 <sup>rd</sup> Edition,2017: 5520 B	<1.0	10

Note: APPCB standards for discharge of treated water on land for irrigation.

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## TEST REPORT

REF.NO:UEA/NMCH/R2/0522

Date: 31-05-2022

### WASTEWATER ANALYSIS

Name of the Industry & Address : **M/s. Narayana Medical College & Hospital,**  
Chinta reddy palem, Nellore,  
SPSR Nellore (Dist.).

Sample Particulars : STP Outlet  
Date of collection : 24-05-2022  
Date of Analysis : 25-05-2022

S No	Parameter	Units	Method	Result	Standards
1	pH @ 25.0°C	---	APHA 23 <sup>rd</sup> Edition, 2017, 4500 H+ B	7.53	5.5-9.0
2	Total Dissolved Solids	mg/L	APHA 23 <sup>rd</sup> Edition, 2017, 2540 C	906	2100
3	Total Suspended Solids	mg/L	APHA 23 <sup>rd</sup> Edition, 2017, 2540 D	28.3	200
4	Chemical Oxygen Demand	mg/L	APHA 23 <sup>rd</sup> Edition, 2017: 5220 B	53.5	250
5	Bio Chemical Oxygen Demand (27°C@ 3 Days)	mg/L	IS: 3025 (Part-44)-1993, Reaffirmed 2014	13.2	100
6	Oil & Grease	mg/L	APHA 23 <sup>rd</sup> Edition, 2017: 5520 B	<1.0	10

Note: APPCB standards for discharge of treated water on land for irrigation.

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## TEST REPORT

REF.NO:UEA/NMCH/R1/0822

Date: 12-08-2022

### WASTEWATER ANALYSIS

Name of the Industry & Adress : **M/s. Narayana Medical College & Hospital,**  
Chinta reddy palem, Nellore,  
SPSR Nellore (Dist.).

Sample Particulars : STP Inlet  
Date of collection : 05-08-2022  
Date of Analysis : 06-08-2022

S No	Parameter	Units	Method	Result
1	pH @ 25.0°C	---	APHA 23 <sup>rd</sup> Edition, 2017, 4500 H+ B	7.39
2	Total Dissolved Solids	mg/L	APHA 23 <sup>rd</sup> Edition, 2017, 2540 C	1,423
3	Total Suspended Solids	mg/L	APHA 23 <sup>rd</sup> Edition, 2017, 2540 D	252
4	Chemical Oxygen Demand	mg/L	APHA 23 <sup>rd</sup> Edition, 2017: 5220 B	336
5	Bio Chemical Oxygen Demand (27°C @ 3 Days)	mg/L	IS: 3025 (Part-44)-1993, Reaffirmed 2014	137
6	Oil & Grease	mg/L	APHA 23 <sup>rd</sup> Edition, 2017: 5520 B	3.8

Artist



*B. Bahini*  
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**TEST REPORT**

REF.NO:UEA/NMCH/R8/0922

Date: 30-09-2022

**WASTEWATER ANALYSIS**

Name of the Industry & Address : **M/s. Narayana Medical College & Hospital.,**  
 Chinta reddy palem, Nellore,  
 SPSR Nellore district.

Sample Particulars : STP Inlet  
 Date of collection : 21-09-2022  
 Date of Analysis : 22-09-2022

S. No	Parameter	Units	Method	Result
1	pH @ 25.0°C	---	APHA 23 <sup>rd</sup> Edition, 2017, 4500 H+ B	7.24
2	Total Dissolved Solids	mg/L	APHA 23 <sup>rd</sup> Edition, 2017, 2540 C	1,178
3	Total Suspended Solids	mg/L	APHA 23 <sup>rd</sup> Edition, 2017, 2540 D	249
4	Chemical Oxygen Demand	mg/L	APHA 23 <sup>rd</sup> Edition, 2017: 5220 B	376
5	Bio Chemical Oxygen Demand (27°C @ 3 Days)	mg/L	IS: 3025 (Part-44)-1993, Reaffirmed 2014	93.1
6	Oil & Grease	mg/L	APHA 23 <sup>rd</sup> Edition, 2017: 5520 B	5.5

*[Signature]*  
 Analyst



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**TEST REPORT**

REF.NO:UEA/NMCH/R1/1122

Date: 29-11-2022

**WASTEWATER ANALYSIS**

Name of the Industry & Address : **M/s. Narayana Medical College & Hospital,**  
Chinta reddy palem,Nellore,  
SPSR Nellore (Dist.).

Sample Particulars : STP Inlet  
Date of collection : 23-11-2022  
Date of Analysis : 24-11-2022

S No	Parameter	Units	Method	Result
1	pH @ 25.0°C	---	APHA 23 <sup>rd</sup> Edition,2017, 4500 H+ B	7.59
2	Total Dissolved Solids	mg/L	APHA 23 <sup>rd</sup> Edition,2017, 2540 C	1,488
3	Total Suspended Solids	mg/L	APHA 23 <sup>rd</sup> Edition,2017, 2540 D	249
4	Chemical Oxygen Demand	mg/L	APHA 23 <sup>rd</sup> Edition,2017: 5220 B	362
5	Bio Chemical Oxygen Demand (27°C @ 3 Days)	mg/L	IS: 3025 (Part-44)-1993, Reaffirmed 2014	143
6	Oil & Grease	mg/L	APHA 23 <sup>rd</sup> Edition,2017: 5520 B	4.1

*Analyst*

*T. Prithvi*  
Authorised Signatory



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## WATER CONSERVATION POLICY

TITLE	WATER CONSERVATION POLICY		
Policy No.	01	Issue No	002
No. Of Pages	3	Date	30.12.2023
Effective From	31.12.21	Next Revision	29.12.2026

*Dr. B. S. Srinivas*  
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## POLICY AND PROCEDURE -WATER CONSERVATION POLICY

1. **PURPOSE:** To utilize the water resources effectively, regulate water conservation and sustainable management in Narayana college of Nursing.
2. **SCOPE:** To implement continuous transmission and automated water distribution systems throughout the campus.
3. **RESPONSIBILITY:** Project manager, maintenance engineer, supervisors and technicians (plumbers and tank operators) are responsible for proper maintenance of facility.
4. **PROCEDURES:**
  - ✓ Maintenance department shall ensure that they undertake regular maintenance of water supply system as per the periodic maintenance plan of the hospital.
  - ✓ Maintenance department shall periodically check for any leaking taps, pipes, overflowing tanks etc. It should be ensured that designated staff is responsible for carrying out these activities. Immediate corrective actions need to be undertaken by the maintenance engineer for any fault noticed during the inspection for water wastage.
  - ✓ Maintenance department should ensure that they promote water conservation in the institution by use of displays and also by periodic sensitization of the staff for water conservation.
  - ✓ The institution has done rain water harvesting technique of collection and storage of rainwater at the surface or in subsurface aquifers, before it is lost as surface runoff.
  - ✓ The institution has sewage treatment plant to recycle the waste water by treating and reusing it for beneficial purpose such as ground water replacement, gardening and environment restoration.

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- ✓ The institution has sewage treatment plant to recycle the waste water by treating and reusing it for beneficial purpose such as ground water replacement, gardening and environment restoration.
- ✓ Constant monitoring of sewage treatment plant process by maintenance department
- ✓ Maintenance department shall calculate the requirements of the facility and should ensure that they have enough provisions for storage of water as per calculated requirement.
- ✓ Maintenance engineer shall take appropriate measures for ensuring the quality of water. The basic measures that can be undertaken are:
  - Regular cleaning of water tanks and reservoirs.
  - Regular maintenance of RO plants and water dispensing machines.
  - Regular water testing for any growth of micro-organisms.
  - Chlorination of water.

The records for water testing and cleaning of tanks and dispensing system should be retained by the maintenance department.

Prepared by	
Verified by	
Approved by	 Principal

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IQAC COORDINATOR  
NARAYANA COLLEGE OF NURSING  
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