



Grams: ENGCOL

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**INDUSTRIAL CONSULTANCY SERVICES**  
**UNIVERSITY COLLEGE OF ENGINEERING KAKINADA**  
**Jawaharlal Nehru Technological University Kakinada**  
**KAKINADA – 533 003 A.P., INDIA**

Ref : Job No: UCEK/JNTUK/CE/ICS/PH/ 18A /2024-25

Date : 12.08.2024

**From**  
**Dr.N.Mohan Rao,**  
**M E .P h D .**  
**Professor of Mechanical Engineering,**  
**Principal & Chief Co-ordinator, ICS**

**To**  
**Tripura English Medium School,**  
**Tripura Nagar,**  
**Rajahmundry.**

**Sir:**

**Sub: JNTU College of Engineering, Kakinada – ICS – Analysis of Water Samples collected and supplied by Tripura English Medium School, Tripura Nagar, Rajahmundry.**

Ref No : Your letter No: Nill Date;-26-07-2024.

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Herewith I am enclosing the Test Results (Annexure-1), of Water samples collected and supplied by you for analysis to the Environmental Engineering Laboratory of this College.

The bill for testing charges is also enclosed.

Encl: 1) Test results.  
2) Bill

yours faithfully,

*N. Mohan Rao*

Principal  
Chief Coordinator, ICS

Principal & Chief Coordinator  
Industrial Consultancy Services  
University College Engg. Kakinada  
JNTUK, KAKINADA (AP)



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**ANNEXURE – 1**

**Name of the Work : analysis of Water Samples collected and supplied by**

Tripura English Medium School, Tripura Nagar, Rajahmundry.

(All the Units, unless otherwise specified, are in mg/l. 1ppm = 1 mg/l)

**Standards mentioned are Drinking Water Standards as per IS 10500-2012**

S.No.	Parameter	Value	Desirable Standards	Maximum Permissible in the absence of alternate sources
<b>PHYSICAL</b>				
1.	Appearance	Normal	--	--
2.	Turbidity (NTU)	Nil	1	5
3.	Colour Hazens	5	5	15
4.	Taste	Agreeable	Agreeable	--
5.	Odour (TON)	Agreeable	Agreeable	--
<b>CHEMICAL</b>				
6.	pH at 25 <sup>0</sup> C	6.59	6.5-8.5	6.5-8.5
7.	E.C. (micromho/cm) at 20 <sup>0</sup> C	126	--	--
8.	Suspended Solids (SS)	Nil	--	--
9.	Total Dissolved Solids (TDS)	82	500	2000
10.	P- Alkalinity as CaCO <sub>3</sub>	Nil	--	--
11.	M- Alkalinity as CaCO <sub>3</sub>	164	200	600
12.	Total Hardness as CaCO <sub>3</sub>	116	200	600
13.	Calcium as Ca	17	75	200
14.	Magnesium as Mg	15	30	100
15.	Carbonate as CO <sub>3</sub>	Nil	--	--
16.	Bicarbonate as HCO <sub>3</sub>	200	--	--
17.	Chloride as Cl <sup>-</sup>	52	250	1000
18.	Free Residual Chlorine	Nil	0.2	--
19.	Sulphate as SO <sub>4</sub>	24	200	400
<b>MICRO BIOLOGICAL</b>				
20.	MPN in 100 ml	Nil	Not detectable in 100ml of sample	
21.	Faecal Streptococci	Nil	Not detectable in 100ml of sample	

(Analysis: The water is suitable for drinking and all other domestic purposes with reference to Desirable Standards.)

*N. Mohan Rao*

Principal Chief Coordinator, ICS  
Principal & Chief Coordinator  
Industrial Consultancy Services  
University College Engg. Kakinada  
JNTUK, KAKINADA. (AP)

## BILL

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UNIVERSITY COLLEGE OF ENGINEERING KAKINADA  
JAWAHARLAL NEHRU TECHNOLOGICAL UNIVERSITY KAKINADA

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Professor of Mechanical Engineering,  
Principal & Chief Co-ordinator, ICS

To

Tripura English Medium School,  
Tripura Nagar,  
Rajahmundry.

Name of the Work: **Analysis of Water Samples collected and supplied by Tripura English Medium School, Tripura Nagar, Rajahmundry**

Sl. No.	Description of Work	No. of Test	Rate /Test Rs.	Amount	
				Rs	Ps
1.	Physical, Chemical and Biological Analysis of Water samples	1	1500/-	1500	00
	G. S. T. @ 18%			270	00
	(Rupees One Thousand Seven Hundred and Seventy Only)			Total: 1770	00

*N. Mohan Rao*

PRINCIPAL  
CHIEF COORDINATOR, ICS.

Principal & Chief Coordinator  
Industrial Consultancy Services  
University College Engg. Kakinada  
JNTUK, KAKINADA. (AP)



OFFICE OF THE PRIMARY HEALTH CENTRE, DOWLAISWARAM

**SANITARY CERTIFICATE**

This is to certify that the premises of the TRIPURA ENGLISH MEDIUM SCHOOL, TRIPURA NAGAR, RAJAHMUNDRY, Rajahmundry Rural Mandal is clean and tidy, the building is having proper ventilation and lighting Protected water and usage water is adequately provided. Latrines and Urinals are provided to staff and Boy's & Girl's separately and other sanitary arrangements are also provided. The above premises are being maintained in good sanitary conditions.

It is certified that there is NO objection for running this School from the *Public Health* point of view.

This Sanitary certificate is issued for **ACADEMIC YEAR – 2024-2025**.

Date : 16.07.2024

Dowlaiswaram.

Copy to

The Principal,

Tripura English Medium School

Tripura Nagar, Rajahmundry Rural.

East Godavari Dist.



*Handwritten signature in green ink*  
16.07.2024  
Medical Officer  
Primary Health Centre  
DOWLAISWARAM