

PG CHEMISTRY – BEST PRACTICE

1. Title: Water Quality Analysis

2. Goals:

- ❖ To check whether the water quality is in compliance with the standards, and hence, suitable or not for the designated use.
- ❖ To monitor the efficiency of a system, working for water quality maintenance
- ❖ To check whether up gradation / change of an existing system is required and to decide what changes should take place.
- ❖ To monitor whether water quality is in compliance with rules and regulations.

3. Context:-

- ❖ The objective of water quality monitoring is to obtain quantitative information on the physical, chemical, and biological characteristics of water via statistical sampling
- ❖ The aim of laboratory analyses is to obtain accurate and precise data for your water quality monitoring program in a safe College.

4. The Practice:-

- ❖ Parameters that are frequently sampled or monitored for water quality include temperature, dissolved oxygen, pH, conductivity, and turbidity.
- ❖ The water samples collected and from different areas of College and analysed in the chemistry lab for every month

The Following parameters were checked:

1. Turbidity 2. P^H 3.Total Dissolved Solids 4.Total Hardness 5.Sodium
6.Potassium 7.Calcium

Analytical Report:

Collected by: A.Kiran Kumar II M.Sc Date Collected: 2-11-2022

Time: 7.40AM Sample Identification: Zoology Department
Analysed Lab: PG Chemistry

Analysis	Result	Units
p ^H	7.5	
Hardness	456	ppm
TDS	174	ppm
Conductivity	350	μS/cm
Calcium	65	mg/l
Sodium	95	mg/l
Potassium	20	mg/l

Submitted By: Dr.G.Krishnaveni

Analytical Report:

Collected by: A.Kiran Kumar II M.Sc Date Collected: 2-11-2022

Time: 7.40AM Sample Identification: Commerce Department
Analysed Lab: PG Chemistry

Analysis	Result	Units
PH	7.5	
Hardness	456	ppm
TDS	174	ppm
Conductivity	453	$\mu\text{S/cm}$
Calcium	65	mg/l
Sodium	95	mg/l
Potassium	20	mg/l

Submitted By: Dr.G.Krishnaveni

Analytical Report:

Collected by: K.Rajesh II M.Sc Date Collected: 3-12-2022

Time: 7.40AM Sample Identification: Commerce Department
Analysed Lab: PG Chemistry

Analysis	Result	Units
PH	7.8	
Hardness	456	ppm
TDS	174	ppm
Conductivity	453	$\mu\text{S/cm}$
Calcium	65	mg/l
Sodium	95	mg/l
Potassium	20	mg/l

Submitted By: Dr.T.Bhagya Kumar

Analytical Report:

Collected by: Ch.Venkateswarlu I M.Sc Date Collected: 3-12-2022

Time: 7.40AM Sample Identification: Commerce Department
Analysed Lab: PG Chemistry

Analysis	Result	Units
PH	7.8	
Hardness	456	ppm
TDS	174	ppm
Conductivity	453	$\mu\text{S/cm}$
Calcium	65	mg/l
Sodium	95	mg/l
Potassium	20	mg/l

Submitted By: Dr.T.Bhagya Kumar

Analytical Report:

Collected by: Ch.Venkateswarlu I M.Sc Date Collected: 4-1-2023

Time: 7.40AM Sample Identification: Commerce Department
Analysed Lab: PG Chemistry

Analysis	Result	Units
PH	7.4	
Hardness	556	ppm
TDS	174	ppm
Conductivity	453	$\mu\text{S/cm}$
Calcium	69	mg/l
Sodium	95	mg/l
Potassium	20	mg/l

Submitted By: K.P.T.Vijaya Bhaskar

Analytical Report:

Analytical Report:

Collected by: Ch.Venkateswara Rao II M.Sc Date Collected: 4-1-2023

Time: 7.40AM Sample Identification: Commerce Department

Analysed Lab: PG Chemistry

Analysis	Result	Units
PH	6.9	
Hardness	456	ppm
TDS	174	ppm
Conductivity	257	$\mu\text{S/cm}$
Calcium	65	mg/l
Sodium	95	mg/l
Potassium	20	mg/l

Submitted By: K.P.T.Vijaya Bhaskar

Analytical Report:

Collected by: Ch.Venkateswara Rao II M.Sc Date Collected: 3-02-2023

Time: 7.40AM Sample Identification: Commerce Department
Analysed Lab: PG Chemistry

Analysis	Result	Units
PH	6.9	
Hardness	456	ppm
TDS	174	ppm
Conductivity	257	$\mu\text{S/cm}$
Calcium	65	mg/l
Sodium	95	mg/l
Potassium	20	mg/l

Submitted By: Dr.K.Kiran Kumar

Analytical Report:**Collected by: Ch.Venkateswara Rao II M.Sc Date Collected: 1-03-2023****Time: 7.40AM Sample Identification: Commerce Department****Analysed Lab: PG Chemistry**

Analysis	Result	Units
PH	6.8	
Hardness	456	ppm
TDS	177	ppm
Conductivity	257	$\mu\text{S/cm}$
Calcium	65	mg/l
Sodium	95	mg/l
Potassium	20	mg/l

Submitted By: Dr.G.Krishnaveni

Analytical Report:

Collected by: Ch.Venkateswara Rao II M.Sc Date Collected: 01-03-2023

Time: 7.40AM Sample Identification: Commerce Department
Analysed Lab: PG Chemistry

Analysis	Result	Units
PH	6.8	
Hardness	356	ppm
TDS	173	ppm
Conductivity	257	$\mu\text{S/cm}$
Calcium	65	mg/l
Sodium	95	mg/l
Potassium	20	mg/l

Submitted By: K.P.T.Vijaya Bhaskar

Analytical Report:

Collected by: B.Sony Pavan II M.Sc Date Collected: 2-04-2023

Time: 7.40AM Sample Identification: Commerce Department
Analysed Lab: PG Chemistry

Analysis	Result	Units
PH	6.9	
Hardness	456	ppm
TDS	174	ppm
Conductivity	257	$\mu\text{S/cm}$
Calcium	65	mg/l
Sodium	95	mg/l
Potassium	20	mg/l

Submitted By: K.P.T.Vijaya Bhaskar

Analytical Report:**Collected by: B.Sony Pavan II M.Sc Date Collected: 02-04-23****Time: 7.40AM Sample Identification: Commerce Department**
Analysed Lab: PG Chemistry

Analysis	Result	Units
PH	6.9	
Hardness	456	ppm
TDS	174	ppm
Conductivity	295	$\mu\text{S/cm}$
Calcium	65	mg/l
Sodium	95	mg/l
Potassium	20	mg/l

Submitted By: Dr.T.Bhagya Kumar

Analytical Report:**Collected by: Ch.Venkateswarlu I M.Sc Date Collected: 01-05-2023****Time: 7.40AM Sample Identification: Commerce Department**
Analysed Lab: PG Chemistry

Analysis	Result	Units
PH	7.7	
Hardness	452	ppm
TDS	174	ppm
Conductivity	295	$\mu\text{S/cm}$
Calcium	61	mg/l
Sodium	92	mg/l
Potassium	23	mg/l

Submitted By: Dr.T.Bhagya Kumar

Analytical Report:

Collected by: Ch.Venkateswarlu I M.Sc Date Collected: 01-05-2023

Time: 7.40AM Sample Identification: Commerce Department
Analysed Lab: PG Chemistry

Analysis	Result	Units
PH	6.7	
Hardness	356	ppm
TDS	174	ppm
Conductivity	295	$\mu\text{S/cm}$
Calcium	65	mg/l
Sodium	95	mg/l
Potassium	20	mg/l

Submitted By: O.Sailaja

Analytical Report:

Collected by: Ch.Venkateswarlu I M.Sc Date Collected: 03-06-2023

Time: 7.40AM Sample Identification: Commerce Department
Analysed Lab: PG Chemistry

Analysis	Result	Units
PH	6.8	
Hardness	346	ppm
TDS	174	ppm
Conductivity	295	$\mu\text{S/cm}$
Calcium	65	mg/l
Sodium	95	mg/l
Potassium	20	mg/l

Submitted By: O.Sailaja

Analytical Report:

Collected by: O.Manikanta II M.Sc Date Collected: 03-06-2023

Time: 7.40AM Sample Identification: Commerce Department
Analysed Lab: PG Chemistry

Analysis	Result	Units
PH	6.9	
Hardness	456	ppm
TDS	174	ppm
Conductivity	495	$\mu\text{S/cm}$
Calcium	65	mg/l
Sodium	95	mg/l
Potassium	20	mg/l

Submitted By: Dr.G.Krishnaveni

Analytical Report:

Collected by: O.Manikanta II M.Sc Date Collected: 02-07-2023

Time: 7.40AM Sample Identification: Commerce Department
Analysed Lab: PG Chemistry

Analysis	Result	Units
PH	6.9	
Hardness	456	ppm
TDS	174	ppm
Conductivity	495	$\mu\text{S/cm}$
Calcium	65	mg/l
Sodium	95	mg/l
Potassium	20	mg/l

Submitted By: Dr.G.Krishnaveni

Analytical Report:

Collected by: O.Manikanta II M.Sc Date Collected: 02-07-2023

Time: 7.40AM Sample Identification: Commerce Department
Analysed Lab: PG Chemistry

Analysis	Result	Units
PH	6.9	
Hardness	456	ppm
TDS	174	ppm
Conductivity	395	$\mu\text{S/cm}$
Calcium	65	mg/l
Sodium	95	mg/l
Potassium	20	mg/l

Submitted By: Dr.G.Krishnaveni

Analytical Report:

Collected by: O.Manikanta II M.Sc Date Collected: 01-08-2023

Time: 7.40AM Sample Identification: Commerce Department
Analysed Lab: PG Chemistry

Analysis	Result	Units
PH	6.9	
Hardness	456	ppm
TDS	174	ppm
Conductivity	395	$\mu\text{S/cm}$
Calcium	65	mg/l
Sodium	95	mg/l
Potassium	20	mg/l

Submitted By: K.Swathi

Analytical Report:**Collected by: O. Srikanth II M.Sc Date Collected: 01-08-2023****Time: 7.40AM Sample Identification: UG Chemistry****Analysed Lab: PG Chemistry**

Analysis	Result	Units
PH	7.9	
Hardness	456	ppm
TDS	174	ppm
Conductivity	375	$\mu\text{S/cm}$
Calcium	65	mg/l
Sodium	85	mg/l
Potassium	30	mg/l

Submitted By: K.Swathi

Analytical Report:

Collected by: T.Srikanth II M.Sc Date Collected: 02-09-2023

Time: 7.40AM Sample Identification: Inter Block
Analysed Lab: PG Chemistry

Analysis	Result	Units
PH	6.9	
Hardness	456	ppm
TDS	174	ppm
Conductivity	375	$\mu\text{S/cm}$
Calcium	65	mg/l
Sodium	95	mg/l
Potassium	20	mg/l

Submitted By: O.Sailaja

Analytical Report:**Collected by: T.Srikanth II M.Sc Date Collected: 02-09-2023****Time: 7.40AM Sample Identification: MCA Department**
Analysed Lab: PG Chemistry

Analysis	Result	Units
PH	6.9	
Hardness	456	ppm
TDS	174	ppm
Conductivity	375	$\mu\text{S/cm}$
Calcium	65	mg/l
Sodium	95	mg/l
Potassium	20	mg/l

Submitted By: O.Sailaja

Analytical Report:

Collected by: Ch.Venkateswarlu I M.Sc Date Collected: 04-10-2023

Time: 7.40AM Sample Identification: Botany Department
Analysed Lab: PG Chemistry

Analysis	Result	Units
PH	7.8	
Hardness	456	ppm
TDS	174	ppm
Conductivity	345	$\mu\text{S/cm}$
Calcium	63	mg/l
Sodium	95	mg/l
Potassium	20	mg/l

Submitted By: O.Sailaja

Analytical Report:

Collected by: Ch.Venkateswarlu I M.Sc Date Collected: 04-10-2023

Time: 7.40AM Sample Identification: Commerce Department
Analysed Lab: PG Chemistry

Analysis	Result	Units
PH	7.9	
Hardness	356	ppm
TDS	174	ppm
Conductivity	345	$\mu\text{S/cm}$
Calcium	55	mg/l
Sodium	95	mg/l
Potassium	24	mg/l

Submitted By: O.Sailaja

Analytical Report:

Collected by: G.Maresh II M.Sc Date Collected: 01-11-2023

Time: 7.40AM Sample Identification: Autonomous

Analysed Lab: PG Chemistry

Analysis	Result	Units
PH	6.9	
Hardness	456	ppm
TDS	174	ppm
Conductivity	340	$\mu\text{S/cm}$
Calcium	65	mg/l
Sodium	95	mg/l
Potassium	20	mg/l

Submitted By: Dr.K.Kiran Kumar

Analytical Report:

Collected by: G.Mahesh II M.Sc Date Collected: 01-11-2023

Time: 7.40AM Sample Identification: Near Office Room
Analysed Lab: PG Chemistry

Analysis	Result	Units
PH	6.9	
Hardness	456	ppm
TDS	174	ppm
Conductivity	385	$\mu\text{S/cm}$
Calcium	65	mg/l
Sodium	95	mg/l
Potassium	20	mg/l

Submitted By: Dr.K.Kiran Kumar

Analytical Report:

Collected by: D.Prasanth Raju II M.Sc Date Collected: 02-12-2023

Time: 7.40AM Sample Identification: UG Chemistry Department
Analysed Lab: PG Chemistry

Analysis	Result	Units
PH	6.9	
Hardness	456	ppm
TDS	174	ppm
Conductivity	385	$\mu\text{S/cm}$
Calcium	65	mg/l
Sodium	95	mg/l
Potassium	20	mg/l

Submitted By: Dr.K.Kiran Kumar

Analytical Report:

Collected by: D.Prasanth II M.Sc Date Collected: 02-12-2023

Time: 7.40AM Sample Identification: PG Chemistry Department
Analysed Lab: PG Chemistry

Analysis	Result	Units
PH	6.9	
Hardness	456	ppm
Conductivity	385	$\mu\text{S/cm}$
Turbidity	Not Observed	
Calcium	65	mg/l
Sodium	95	mg/l
Potassium	20	mg/l

Submitted By: Dr.K.Kiran Kumar

Analytical Report:

Collected by: Ch.Venkateswarlu II M.Sc Date Collected: 01-01-2024

Time: 7.40AM Sample Identification: Commerce Department
Analysed Lab: PG Chemistry

Analysis	Result	Units
PH	7.6	
Hardness	456	ppm
Conductivity	278	$\mu\text{S/cm}$
Turbidity	Not Observed	
Calcium	62	mg/l
Sodium	95	mg/l
Potassium	20	mg/l

Submitted By: K.Swathi

Analytical Report:

Collected by: Ch.Venkateswarlu II M.Sc Date Collected: 01-01-2024

Time: 7.40AM Sample Identification: MBA Department

Analysed Lab: PG Chemistry

Analysis	Result	Units
PH	6.9	
Hardness	456	ppm
TDS	174	ppm
Conductivity	278	$\mu\text{S/cm}$
Calcium	60	mg/l
Sodium	95	mg/l
Potassium	20	mg/l

Submitted By: K.Swathi

Analytical Report:

Collected by: Ch.Venkateswarlu II M.Sc Date Collected: 02-02-2024

Time: 7.40AM Sample Identification: Physics Department
Analysed Lab: PG Chemistry

Analysis	Result	Units
PH	7.6	
Hardness	458	ppm
TDS	174	ppm
Conductivity	274	$\mu\text{S}/\text{cm}$
Calcium	65	mg/l
Sodium	95	mg/l
Potassium	20	mg/l

Submitted By: O.Sailaja

Analytical Report:**Collected by: Ch.Venkateswarlu II M.Sc Date Collected: 02-02-2024****Time: 7.40AM Sample Identification: Commerce Department**
Analysed Lab: PG Chemistry

Analysis	Result	Units
PH	7.9	-
Hardness	456	ppm
Conductivity	274	$\mu\text{S/cm}$
Turbidity	Not Observed	-
Calcium	65	mg/l
Sodium	95	mg/l
Potassium	24	mg/l

Submitted By: O.Sailaja

