Proceedings of the Commissioner Collegiate Education, Telangana :: Hyderabad.

Present: Sri.Navin Mittal, IAS

Sub Collegiate Education- Jignasa Student Study Projects-2021– List of Selected Student Study Projects for State Level Presentation- Instructions- Issued- Reg.

Ref: File No. CCE-AC/JIGN/1/2021-ACADEMIC CELL Dated:15.09.2021

Commissionerate of Collegiate Education gives prominence to provide the opportunity to the students of all Government Degree Colleges to explore problems and challenges which have real world applications through project based learning. Learning through projects also increases the possibility of long-term retention of what students have learnt and establishes the linkage between theory and practice.

In view of the above, the Department has received a total of 855 Study Projects from all the Government Degree Colleges in 15 subjects. The projects were evaluated by a committee consisting of subject experts who have an aptitude for research and innovation. Out of 855 Projects, 285 projects have been selected in 15 subjects for state level presentation.

The subject wise selected list of Jignasa Study Projects for State Level Presentations is placed in the Annexure - I

In this regard, all the Principals of GDCs as per the Annexure-I are directed to ensure that the Mentor/Supervising faculty shall guide the students and prepare them thoroughly for state level presentations. Further, the Principals also instructed to send the soft copies of full length Study Projects which are selected for State Level Presentations by 18th April, 2022 to jignasa-ce@telangana.gov.in and instruct the faculty supervisors to submit the hard bound copies at the time of

presentations. **Dates and Venue for state level presentations shall be communicated shortly.**

The Principals also directed to instruct the faculty who have supervised the projects and got transferred in local cadre allotments to guide the faculty and students of the previous college.

Annexure-I

JIGNASA 2021 -Student Study Projects – Selected list for State Level Presentations

S.No	District	Name of the GDC	Subject	Name of the Project	Name of the Supervisor
1	Hyderabad	GDC (W) Begumpet	English	Assessment of Errors in Written and Spoken Language: A Study of Undergraduate Students in Government Degree College.	Dr. M. Nancy Serena
2	Hyderabad	GDC (W) Nampally	English	Contemporary Indian Women Writers and their Impact on the Society.	Mrs. Khaderunnisa
3	Hyderabad	GDC Khairatabad	English	COVID 19: Challenges of Online English Language Learning at UG Level	Sujatha Patwari
4	Hyderabad	GDCA Nayapul	English	Mother Tongue Influence On English Language Pronunciation : A Study	Dr.J.V.N.Mallikarjuna
5	Khammam	GDC A Khammam	English	The Strategies to improve Academic Performance in English	Dr.G.Varalaxmi
6	Khammam	GDC Sathupally	English	Students from back ground- poor communication skills in English- A study	M. Rambabu
7	Mahabubnagar	GDC A Mahabubanagar	English	Linguistic ambiguity in newspapers headlines : A critical study	G. Ranga Suryanarayana

S.No	District	Name of the GDC	Subject	Name of the Project	Name of the Supervisor
		Sangareddy		estimation of casein in various milk samples	kumari
187	Sangareddy	GDC Jogipet	Chemistry	Effect of environmental pollution on water bodies of study of Singoor project	Ch.Srikanth
188	Siddipet	GDC A Siddipet	Chemistry	Identification of elements affecting the soil health in and around Siddipet	Dr. Veerabathini Manohar
189	Suryapet	GDC Huzurnagar	Chemistry	To study the foaming capacities of soaps	K.Ravikumar
190	Wanaparthy	GDC (W) Wanaparthy	Chemistry	Water analysis – A study in various village of GDC(W) Wanaparthy students	Dr. K. Damodhar Reddy, Dr. K. Jagadeeswaraiah
191	Hanamkonda	GDC Hanamkonda	Mathematics	Golden Ratio and Its Applications	M.Venugopal & M. Radhika
192	Hyderabad	GDC (W) Begumpet	Mathematics	Application of mathematics in validation and verification of check digit	K Sri Koteswar Rao
193	Hyderabad	GDC Khairatabad	Mathematics	Magic squares and their Applications	Dr K.Venkateswarlu
194	Hyderabad	GDC Nayapul	Mathematics	Application of Linear programming for Profit Maximization and Cost Minimization : A case study of SP Accure Labs Private limited ~ Pharmacy company in Hyderabad	Dr. K. Sarada, KM.Swarna Latha
195	Hyderabad	GDC Vidyanagar	Mathematics	Applications of Mathematics in Nanotechnology	Dr.D. Malleswari
196	Kamareddy	GDC Kamareddy	Mathematics	Cryptography	A.Rajendher
197	Karimnagar	GDC (W) Karimnagar	Mathematics	Tricks in Vedic Mathematics	V.Radhakishan
198	Karimnagar	GDC Karimnagar	Mathematics	Large numbers in Ancient India	Dr.M.Archana

S.No	District	Name of the GDC	Subject	Name of the Project	Name of the Supervisor
275	Karimnagar	GDC Karimnagar	Computer Science & Applications	Demonstration of EDUQFIX for implementation in GDC's of Telangana State	K.Samuel Praneeth Chowdary
276	Khammam	GDC A Khammam	Computer Science & Applications	Online examination system	Dr.K.NageswarRao
277	Mahabubabad	GDC Garla	Computer Science & Applications	Face detection	Aleti Rajesh
278	Mahabubnagar	GDC A Mahabubanagar	Computer Science & Applications	Cyber Crime and Security	Shylaja
279	Mancherial	GDC Luxettipet	Computer Science & Applications	Development of website for samajik charitable trust	T.Sathish
280	Mulugu	GDC Eturunagaram	Computer Science & Applications	Student Information Management System	Pudota. Jeevaveni
281	Mulugu	GDC Mulugu	Computer Science & Applications	Creating an education web portal: A Study	Tejavath Srinu
282	Nalgonda	GDC A Nalgonda	Computer Science & Applications	Face recognition based attendance system	Mohd Thousif Ahemad and SP Venkata Ramana
283	Nizamabad	GDC A Nizamabad	Computer Science & Applications	G-tutor	P.Vivekanand & M.Kiran Kumar
284	Sangareddy	GDC Patancheru	Computer Science & Applications	Cyber Security-credit card fraud detection	R. Vishwa Bharathi
285	Siddipet	GDC A Siddipet	Computer Science & Applications	Women's Technological status	Mansoor Ahmed

(Orders of CCE have been obtained in the Note File)

Signed by D Thiruvengala Chary
Date: 17-03-2022 15:58:29
Reason: Approved

For Commissioner of Collegiate Education

GOVERNMENT DEGREE COLLEGE FOR WOMEN
WANAPARTHY
DEPARTMENT OF CHEMISTRY

A Project Work on

WATER ANALYSIS - A STUDY IN VARIOUS VILLAGE OF GDC(W) WANAPARTHY STUDENTS

Submitted by:

1. **B SAIAKSHITHA (B.Sc Life science III Year)**
2. **J VENNELA (B.Sc Life science III Year)**
3. **AYESHA FIRDOUS (B.Sc Life science III Year)**
4. **N MANASA VEENA (B.Sc Life science III Year)**
5. **THONDA SWATHI (B.Sc Life science III Year)**

Guided by:

Dr. K. DAMODHAR REDDY

Dr. K. JAGADEESWARAIAH

WATER ANALYSIS - A STUDY IN VARIOUS VILLAGE OF GDC(W) WANAPARTHY STUDENTS

Aim Objectives:

To find the Quality Assessment of Bore well and Tap Water in various village Wanaparthy dist.

Introduction:

Water is one of the important compounds that which influences the human life. Initially, mankind used water for domestic purposes such a drinking, cooking, washing. However, the present uses of water may be classified as domestic, public, commercial and industrial. Due to fast growth of industries, population and large quantity use of different chemicals, fertilizers and pesticides in producing crops are causing heavy and rapid pollution in aquatic environment leading to deterioration of water condition and depletion of aquatic biota. Due to use of polluted water, human suffers from water borne diseases. It is need and compulsion to check the water pollutants at regular interval of time. The water may consist of pollutants and toxic metals which are injurious and damage the human health.

Methodology:

Wanaparthy district tropical region which consists of wet and dry climate. The annual mean temperature is 28°C; monthly mean temperatures is 22–35°C. The underground water level in and around the Wanaparthy district shows reasonable variations during the year. Samples mentioned in the above location were collected without adding any preservatives. Physical parameters of water, like Power of hydrogen ion concentration(pH), Total Dissolved Solids (TDS), and Electrical Conductivity (EC) were determined with the help of digital portable analyser.

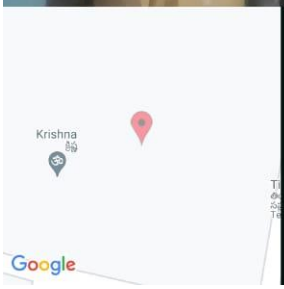
Observations and Results:

The study was carried out in a part of Wanaparthy district, Telangana State, India, to assess the groundwater quality for drinking, irrigation and industrial purposes. Groundwater samples collected from the study area were analyzed for pH, electrical conductivity (EC), total dissolved solids (TDS), calcium (Ca^{2+}), magnesium (Mg^{2+}), sodium (Na^{+}), potassium (K^{+}), bicarbonate (HCO^{-}), chloride (Cl^{-}), sulphate (SO^{2-}), nitrate (NO_3^{-}) and fluoride (F^{-}). The quality of groundwater shows an alkaline condition with a dominance of Na and HCO ions. The values of chemical parameters were compared with the drinking water quality standards and found that the TDS, Mg^{2+}, Na^{+}, SO^{2-}, NO_3^{-} and F^{-} are more than their recommended limits in most groundwater samples. Irrigation water quality was assessed with respect to alkali hazard (SAR), salinity hazard

(EC), percent sodium (%Na), permeability index (PI), residual sodium carbonate (RSC), magnesium ratio (MR) and Kelly's ratio (KR).

Conclusions

Most groundwater samples are not suitable for irrigation except based on RSC parameter. According to the TDS, HCO^-, and SO^{2-}, the groundwater in a few samples causing incrustation and corrosion is unfit for industrial purpose. Therefore, groundwater quality management measures were suggested to improve the water quality.



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Longitude	78.469143	78°28'8" E

2022-04-30(Sat) 04:32(pm)

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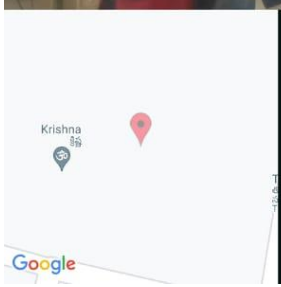
100°F



9FQ9+8HJ, Nampally Station Rd, Sri Balaji Enclave, Ghosha Mahal, Nampally, Hyderabad, Telangana 500001, India

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