

STUDENTS STUDY TITLE OF THE PROJECT

**ANALYSIS OF WATER IN DIFFERENT AREAS OF VIKARABAD
DISTRICT**

SEARCH PROJECT FOR THE ACADEMIC YEAR 2021-22

Under the

JIGNASA

Undertaken By

SADIYA, MUSKAN ANSARI, AFSHA JABEEN, M. SRIKANTH, ABDUL ASIF, M. NEHA



Under the Supervision of

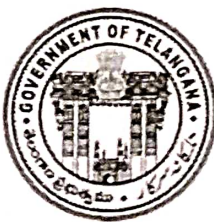
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DEPARTMENT OF CHEMISTRY

Government Degree College, Kodangal,

Vikarabad district



DECLARATION

We **SADIYA, MUSKAN ANSARI, AFSHA JABEEN, M. SRIKANTH, ABDUL ASIF, M. NEHA**, declare that this Research Project Work entitled "ANALYSIS OF WATER IN DIFFERENT AREAS OF VIKARABAD DISTRICT, TELANGANA has been originally carried out us under the supervision of **V. SRIDHAR KUMAR**, Lecturers in CHEMISTRY, Government Degree College, kodangal, Vikarabad district and this has not been submitted for any Research Project work either in part in full to any other Govt. Degree Colleges in Telangana State.

Names & Signature

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2. MUSKAN ANSARI
3. AFSHA JABEEN
4. M. SRIKANTH
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CERTIFICATE

This is to certify that the project work incorporated in this Research Project entitled "ANALYSIS OF WATER IN DIFFERENT AREAS OF VIKARABAD DISTRICT, TELANGANA." Has been carried out **SADIYA, MUSKAN ANSARI, AFSHA JABEEN, M. SRIKANTH, ABDUL ASIF, M. NEHA** CHEMISTRY students under the supervision. I further certify that the Research Project work done by FIVE students is original and has been submitted for any Research project either in part or in full to any other degree college.

The assistance and help taken during the period of investigation and source of Literature is fully acknowledged.

(V. SRIDHAR KUMAR)

Department of CHEMISTRY

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ACKNOWLEDGEMENT

We feel it great honor and proud privilege to extend our heartfelt gratitude to sri. N.Navin Mittal IAS garu, the Commissioner of College of Collegiate Education ,Hyderabad,Telangana for introducing such a wonderful , research oriented and skills development program of JIGNASA

To degree college students across the state of telangana . Indeed ,This program develops the academic qualities , inquisitiveness , creative talent and the research in the students ,Thank you very much sir for providing us an opportunity to undertake study projects under the JIGNASA – Student study projects.

We feel immensely happy to extend deep sense of gratitude to our lecturer and research supervisor V.SRIDHAR KUMAR , Lecturer in CHEMISTRY , Department of CHEMISTRY , Govt Degree College, Kodangal Vikarabad district ,who has guide to research work with meticulous care and scholarly advise .

He spread his valuable time , evinced keen interest personal care and offered to constructive suggestions at every stage of our research work , without which this study project would not have
Seen the light of the day

We owe a great debt of gratitude to Sri Prof .J, Rajaram beloved principal of this college and man of reforms and smart-techno-savvy-administrator, for this constant motivation , encouragement for understanding this study project and constructive suggestions for completion of this project. we feel honor to be the student of a great college.

We express our sincere thanks to V.SRIDHAR KUMAR, Department of CHEMISTRY For their suggestions and encouragement during the course of our research work .

We thank one and all to have directly and indirectly encouraged and supported us to carry out this study projects.

1. **SADIYA**
2. **MUSKAN ANSARI**
3. **AFSHA JABEEN**
4. **M. SRIKANTH**
5. **ABDUL ASIF**
6. **M. NEHA**

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OBJECTIVES:

- *To interact with people of Kodangal and Parigi in the study area for the knowledge for drinking purpose*
- *To know the constituents in ground water of Parigi and kodangal*
- *To know the deficient ions in ground water compared with the drinking water standards*
- *To create an awareness among the people of villages the standards of drinking water*

METHODOLOGY:

The data required for water quality analysis in the present study has been obtained from rural water supply and sanitation department of Government of Telangana

The data pertaining to the test results of the water samples analyzed from the ground water sources of Parigi and Kodangal in the year 2021 in the month of December have been collected for the study

The analytical data of the samples collected from the villages of Kodangal mandal and Kosgi mandal have been used to assess the ground water quality of the area through the determination of WQI Comparison with BIS:10500-1991 For drinking water and statistical analysis. For studying the variation of water quality analysed data of the samples collected

STATISTICAL ANALYSIS OF DATA:

Important statistical parameters of concentrations for various chemical constitutions of ground water area of the Parigi and Kodangal which may be due to soil type and use geology geomorphic set up human activities open dumping of solid wastes open for drinking purpose

WATER QUALITY INDEX :

The assessment of ground water quality in the given area and its suitability for human consumption is computed based on water quality index values. The average value of each of the six water quality parameter (TDS, PH,TA,TH Cl) and F for Parigi and Kodangal village has been computed from the individual sample values and given in table

The WQI of each village is also calculated by sub Index method (S1 method) and from the computed WQI values the ground water is classified into two types good water and poor water

ACKNOWLEDGEMENTS:

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Indeed this program develops the academic qualities inquisitiveness creative talent and the research in the students thank you very much sir for providing us and opportunity to undertake study projects under the JIGNASA Student study project.

FINDINGS AND ANALYSIS:

In this present work we have visited the villages of kodangal and parigi regions of Vikarabad , Telanagana collected the ground water and analysed to know the value of ions like TDS, PH, Total alkalinity total hardness, chloride, fluoride content and is compared with the water quality index of BIS (Bureau of Indian standards of drinking water)