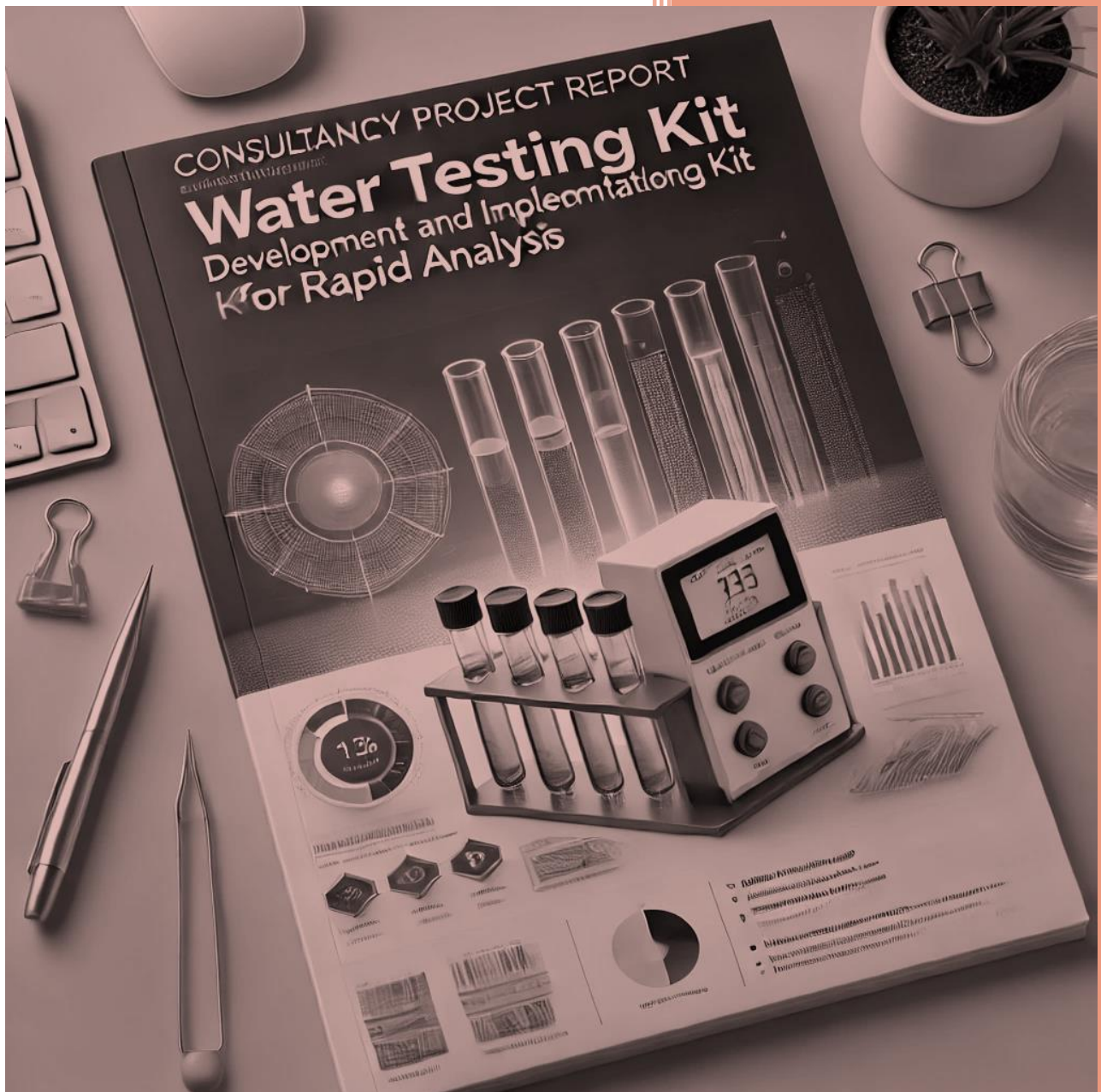




Consultancy Project Report: Development and Implementation of Water Testing Kit for Rapid Analysis 2022-23



Consultancy Project Report: Development and Implementation of Water Testing Kit for Rapid Analysis

Project Overview:

The Chemistry Department of Shri Shivaji Education Society's Science College, Nagpur, undertook a consultancy project aimed at developing a Water Testing Kit for rapid on-field analysis. The project was led by **Dr. Sarang S. Dhote and Dr. Yogita K. Meshram**, with the primary goal of providing a practical and hands-on learning experience for undergraduate students.

Objective:

The main objective of the project was to design a user-friendly Water Testing Kit that could be employed by students for efficient and rapid water analysis in real-world scenarios. The initiative aimed to enhance the practical knowledge of undergraduate students and contribute to water quality assessment.

Development Process:

Under the expert guidance of Dr. Dhote and Dr. Meshram, the team meticulously designed and assembled the Water Testing Kit. The kit incorporated essential components for assessing key water quality parameters, ensuring simplicity in operation while maintaining accuracy in results. The development process focused on creating a robust tool that could be easily utilized by students with minimal training.

Distribution to Educational Institutes:

The Water Testing Kit was distributed to various educational institutes affiliated with RTM Nagpur University, SGB Amravati University, and Gondwana University, and also to the Environmental Agency. This strategic dissemination aimed to extend the benefits of the project to a broader academic community and foster collaboration in the realm of water quality assessment.

After the payment for purchasing the **Water Testing Kits**, the respective institutions have also agreed to engage in **collaborative research** with the **JAL project** of **SSEA's Science College**. This partnership aims to further enhance the scope of water analysis by integrating their resources and expertise with JAL's innovative methodologies. The collaboration not only strengthens the network between institutions but also promotes the exchange of knowledge and research, contributing significantly to the development of water testing techniques and sustainable water management solutions.

Demonstration Sessions:

Dr. Sarang S. Dhote conducted comprehensive demonstration sessions for students in all institutes that acquired the Water Testing Kit. The sessions provided insights into the proper usage of the kit, interpretation of results, and an overall understanding of water quality parameters. These demonstrations played a crucial role in ensuring that the end-users could utilize the kit effectively.

Hands-on Training on World Water Day:

To commemorate World Water Day on March 25, 2023, hands-on training sessions were organized under the guidance of Dr. Yogita K. Meshram and Dr. Sarang S. Dhote. These sessions allowed students to actively engage with the Water Testing Kit, further enhancing their practical skills. The World Water Day event provided a platform for students to apply their knowledge in a meaningful and timely context.

Conclusion:

The consultancy project undertaken by the Chemistry Department at Shri Shivaji Education Society's Science College has successfully resulted in the development and implementation of a valuable Water Testing Kit. This initiative not only contributes to the academic advancement of undergraduate students but also serves as a practical solution for water quality assessment in the affiliated institutes. The dedication and expertise of Dr. Sarang S. Dhote and Dr. Yogita K. Meshram have played a pivotal role in the project's success, setting a standard for best practices in experiential learning within the field of chemistry.



Figure 1- Distribution of Water Testing Kit on 25/03/2023



Figure 2- Demonstration of Advanced On Field Water Testing Kit by Dr. Sarang Dhote @ J. D. Patil Sangludkar Mahavidyalaya, Darpur Dist. Amravati, [M.S.], India on 13/11/2022.

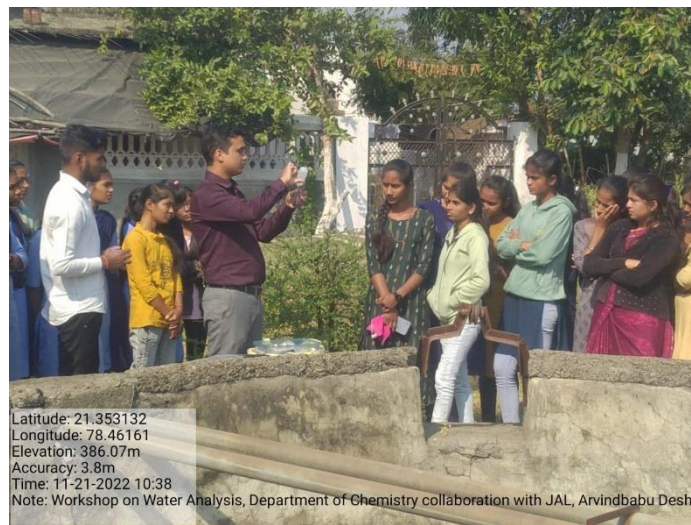


Figure 3- Demonstration of Advanced On Field Water Testing Kit by Dr. Sarang Dhote @ Arvindbabu Deshmukh College, Bharsingi Dist. Nagpur, [M.S.], India on 21/11/2022.



Figure 4- Hand Over Advanced Water Testing Kit to Dr. N. Patankar Chairman of Envinzoa, Nagpur.



Shri Shivaji Education Society, Amravati's

SHIVAJI SCIENCE COLLEGE

CONGRESS NAGAR, NAGPUR - 440012

Short DCR Report (All Receipt Book)

Receipt Date From 01/09/2022 To 11/08/2023

Session : 2022-2023

Sr. No.	Receipt Number	Student Name	Course	Fee Type	Payment By	Amount
Counter No. : C1						
Receipt Book Name : N.G DEGREE COLLEGE MISC						
Date : 12/11/2022						
1	C1/NG DC/O/2022-2023/2938	PRINCIPAL J.D.P.S. DARYAPUR	B.SC - I		C:0, B:2,000	2,000
Total Receipts on Date 12/11/2022 : 1						12/11/2022 Total Fees Collection : 2,000
Date : 15/11/2022						
1	C1/NG DC/O/2022-2023/2940	PRINCIPAL NABIRA MAHAVIDYALYA KATOL	B.SC - I		C:0, B:2,000	2,000
Total Receipts on Date 15/11/2022 : 1						15/11/2022 Total Fees Collection : 2,000
Date : 18/11/2022						
1	C1/NG DC/O/2022-2023/2939	PRINCIPAL ARVINDBABU DESHMUKH MAHAVIDYALYA BHARSINGI	B.SC - I		C:0, B:2,000	2,000
Total Receipts on Date 18/11/2022 : 1						18/11/2022 Total Fees Collection : 2,000
Date : 22/11/2022						
1	C1/NG DC/O/2022-2023/2983	PRINCIPAL KHATRI MAHAVIDYALAYA CHANDRPUR	B.SC - I		C:0, B:2,000	2,000
Total Receipts on Date 22/11/2022 : 1						22/11/2022 Total Fees Collection : 2,000
Date : 15/02/2023						
1	C1/NG DC/O/2022-2023/3542	PRINCIPAL SHIVAJI COLLEGE AKOLA	B.SC - I		C:2,000, B:0	2,000
Total Receipts on Date 15/02/2023 : 1						15/02/2023 Total Fees Collection : 2,000
Date : 17/02/2023						
1	C1/NG DC/O/2022-2023/3549	PRINCIPAL SURYODAYA COLLEGE OF ENGINEERING AND TECHNOLOGY NAGPUR	B.SC - I		C:2,000, B:0	2,000
Date : 21/02/2023						
1	C1/NG DC/O/2022-2023/3557	PRINCIPAL S.PUNDLIK MAHARAJ COLLEGE. NANDURA	B.SC - I		C:0, B:5,000	5,000
Total Receipts on Date 21/02/2023 : 1						21/02/2023 Total Fees Collection : 5,000
Date : 20/03/2023						
1	C1/NG DC/O/2022-2023/3749	PRINCIPAL YASHWANTRAO CHAVAN SCIENCE COLLEGE LAKHANDUR	B.SC - I		C:2,000, B:0	2,000
Total Receipts on Date 20/03/2023 : 1						20/03/2023 Total Fees Collection : 2,000
Date : 23/03/2023						
1	C1/NG DC/O/2022-2023/3903	PRINCIPAL S S JAISWAL COLLEGE ARJUNI MORGAEON	B.SC - I		C:0, B:2,000	2,000
Total Receipts on Date 23/03/2023 : 1						23/03/2023 Total Fees Collection : 2,000
Date : 24/03/2023						
1	C1/NG DC/O/2022-2023/3924	PRINCIPAL RASHTRAPITA MAHATMA GANDHI ARTS AND SCIENCE COLLEGE NAGBHID	B.SC - I		C:0, B:2,000	2,000
Total Receipts on Date 24/03/2023 : 1						24/03/2023 Total Fees Collection : 2,000
Date : 25/03/2023						
1	C1/NG DC/O/2022-2023/3964	PRINCIPAL SANT GADGE MAHARAJ MAHAVIDYALAY HINGNA WATER TESTING KIT	B.SC - I		C:2,000, B:0	2,000
2	C1/NG DC/O/2022-2023/3977	PRINCIPAL N.H COLLEGE BRAMHAPURI	B.SC - I		C:2,000, B:0	2,000
Total Receipts on Date 25/03/2023 : 2						25/03/2023 Total Fees Collection : 4,000
N G DEGREE COLLEGE MISC Total Fees Collection :						27,000
C1 Total Fees Collection :						27,000
Grand Total :						27,000

Indicates cancel receipt

B indicates amount by chq/DD and C indicates amount by Cash

Print Date : 08/12/2023



Shri Shivaji Education Society, Amravati's

SHIVAJI SCIENCE COLLEGE

CONGRESS NAGAR, NAGPUR - 440012

Short DCR Report (All Receipt Book)

Receipt Date From 01/09/2022 To 11/08/2023

Session : 2023-2024

Sr. No.	Receipt Number	Student Name	Course	Fee Type	Payment By	Amount
Counter No. : C1						
Receipt Book Name : N G DEGREE COLLEGE MISC						
Date : 19/04/2023						
1	C1/NG DC/O/2023-2024/33	N.PATANKAR ENVINZOA NAGPUR	B.SC - I		C:2,000, B:0	2,000
Total Receipts on Date 19/04/2023 : 1						19/04/2023 Total Fees Collection : 2,000
						N G DEGREE COLLEGE MISC Total Fees Collection : 2,000
						C1 Total Fees Collection : 2,000
						Grand Total : 2,000

Bank Account wise Summary


Sr No.	Bank Name	AccountNumber	Amount
1	CENTRAL BANK OF INDIA	3753531013	2,000.00
TOTAL :			2,000.00


Receipts Summary

Sr.No.	Counter	Receipt No. From	Receipt Number To	Cancel Receipt Nos
1	C1	C1/NG DC/O/2023-2024/33	C1/NG DC/O/2023-2024/33	

Total Receipts Cancelled :

Cancelled Receipt Nos. :


Dr A A Halder
Coordinator, IQAC
Science College,
Congress Nagar, Nagpur


Prof. M. P. Dhore
Principal
Science College,
Congress Nagar, Nagpur

