INTERSHIP PROJECT REPORT SUBMITTED TO

SRI ASNM GOVT (A) DEGREE COLLEGE



Submitted by

SHAIK, YASHMEEN

Regd.No: 2023051

Under the Internal guidance of

DR.M. RAMAKRISHNA

DEPARTMENT OF ZOOLOGY

SRI A.S.N.M. GOVT(A) DEGREE COLLEGE

PALAKOL, W.G.Dt

2020 - 2023

Student's Declaration

I, Shaik.Yashmeen a student of BSC BZC Program, Reg. No. 2023051 of the Department of Zoology SRI ASNM GOVT (A) COLLEGE do hereby declare that I have Completed the mandatory internship from 26/09/2022 to 16/11/2022 in FORTUNE AQUA LABS PVT ,LTD under the Faculty Guide ship of Dr.M.Ramakrishna Department of Zoology, SRI ASNM GOVT (A) COLLEGE.

SK. Yashmeen (Signature and Date)

Endorsements

n. Rame E Faculty Guide 16/11/28.

M. Rame 6 16/11/28
Head of the Department

Principal

PRINCIPAL

Sri A.S.N.M. GOVT. COLLEGE (A) PALAKOL-534 260, W.G.DIST

ACKNOWLEDGEMENT

First I wish to express my sincere gratitude to Dr.M.Ramakrishna sir for providing me an opportunity to do my internship at SRI ASNM GOVT (A) College. For me, it was a unique experience to study about water quality testing. This internship period was a great chance of learning and professional development

I also express my deepest thanks to Dr.Vijay Kumar sir for giving necessary advice and guidance. He has arranged all facilities to make our internship programme more meaningful. His research papers and PowerPoint presentations were very useful for me. I thank him for his valuable guidance.

I sincerely thank to Kum P. Jyotsna sri madam for her careful and precious guidence which was extremely valuable for my study, both theoretically and practically. I also wish to express my gratitude to the officials and staff members including my parents help during my internship period.

I would like to express my sincere thanks to **U.PRADAD BABU**, owner of **AQUA FORTUNE**INDUSTRY for giving me this opportunity to finish my internship in his industry.

Finally, I would like to extend my deep gratitude towards my family and my friends for their support in carrying out this work Successfully.

Signature of the candidate

Shaik, Yashmeen

CERTIFICATE

This is to Certify that the project entitled "Water Anylasis", is bonafied work done by Shaik. Yashmeen with Regd no 2023051 ddurin2020-2023 in partial fulfillment of the Requirement for the award of degree of "Bachelor of Science" SRI A.S.N.M.GOVT(A)DEGREE COLLEGE, PALAKOL.

Head of the department
DEPARTMENT OF ZOOLOGY
IRI A. S. N. M. GOVT. COLLEGE
PALAKOL - 534 260

PRINCE SUIDE DEPARTMENT OF ZOOLOGY RIA. S. N. M. GOVT. COLLEGE

External Examiners

Fortune Aqualabs Pvt.Ltd

#2A-6-19; Near Railway Gate

P.P.ROAD ; PALAKOLLU; W.G.Dt; A.P; 534260 : fortunelab.pkl@gmail.com

: www.fortunelabs.in

Contact:98480 99097 ; 7075 373737; 7396 373737(BVRM)







Date: 16-11-2022 PALAKOL

CERTIFICATE FROM INTERN ORGANIZATION

This is to certify that SHAIK YASHMEEN Reg.No.2023051 of SRI A.S.N.M.GOVT COLLEGE (A) PALAKOL W.G.Dt., A.P., underwent internship in FORTUNE AQUALABS PVT Ltd. From 26/09/2022 to 16/11/2022.

The overall performance of the intern during his/her internship is found to be Satisfactory.

PLACE: PALAKOL

Date: 26/11/2022

Authorized Signatory

DECLARATION

I here by declare that the project entitled "Water Anylasis" is an authentication work carried out by me in the department of zoology, SRI A.S.N.M. GOVT(A) DEGREE COLLEGE during the period of 2020-2023 under esteemed guidance Of DR.M.RAMAKRISHNA(Department of Zoology).

S.K. Yashmeen Signature of the candidate

SHAIK . YASHMEEN

ACKNOWLEDGEMENT

I take the opportunity to thank one and all who have helped in making the project possible. I am thankful to authorities of SRI A.S.N.M GOVT (A) DEGREE COLLEGEPalakol, for giving this opportunity to workin a project as part of curriculum. I am very much thankful to our internal guide DR.M.RAMAKRISHNA, Department of zoology, for providing this grate opportunity.

I would like to express my respect and thanks to P. Jyotsna SRI, GUEST FACULTY OF DEPARTMENT OF ZOOLOGY, SRI.A.S.N.M. GOVT(A) DEGREE COLLEGEPALAKOL.

I would like to express my sincere thanks to U.PRADAD BABU, owner of AQUA FORTUNE INDUSTRY for giving me this opportunity to finish my internship in his industry.

lam grateful to my father sri SHAIK.MASTHANand my siblings for their moral guidance and encouragement and for permitting me to blossom in all my endeavours.

I wish to extend my warm thanks to those who helped me directly or indirectly during my project period. I sincerely apologize if I forget to mention anybody and thanks to all concerned from the bottom of my heart.

> SK. Vashmeen Signature of the candidate

> > SHAIK . YASHMEEN

CONTENTS

Introduction

About water

Different types of water

Water Sampling Procedure

Types of Samples

Collection of water samples

Water Treatment methods

PHYSICAL PARAMETERS

- Taste & Odour
- Temperature
- Turbidity
- Colour
- Total solids

CHEMICAL PARAMETERS

- Chlorides
- Sulphides
- Alkanity
- Salinity
- Total Hardness
- pH
- Calcium Hardness
- Magnesium Hardness
- Ammonium
- Nitrite
- Nitrate
- Phosphate
- Flouride
- Acidity
- Chlorine
- Biological Oxygen Demand
- Dissolved oxygen

INTRODUCTION

It is a transparent colorless chemical substance with one oxygen atom covalently bonded to two hydrogen atoms. Water is cycled continuously on Earth through evaporation, transpiration, condensation, precipitation, and other means.

A chemical substance, with chemical formula H₂O, that is a clear, colorless, odorless, and tasteless liquid that may also occur in various forms such as gas (water vapor) and solid (ice).

Microbiological water analysis is a method of analyzing water to estimate the numbers of bacteria present and to allow for the recovery of microorganisms in order to identify them. The method of examination is the plate count.

WATER QUALITY

Water quality is measured by several factors, such as the concentration of dissolved oxygen, bacteria levels, the amount of salt (or salinity), or the amount of material suspended in the water (turbidity). In some bodies of water, the concentration of microscopic algae and quantities of pesticides, herbicides, heavy metals, and other contaminants may also be measured to determine water quality.



WHY TO TEST WATER QUALITY:

Water quality tests will give information about the condition of the waterway. By testing water over a period of time, the changes in the quality of the water can be seen. Parameters that may be tested include temperature, pH, turbidity, salinity, nitrates and phosphates.

Water testing is carried out to meet the regulatory requirements and adhere to the safety procedures that are needed for pollutant-free water. This is a broad concept that involves several procedures to analyze and evaluate the quality of water. Everyone who is affected by the water industry must test water sources. This could be the governmental organizations trying to regulate the quality of water to protect us from the health risks involved with using chlorinated water or it could be homeowners trying to ensure that the water is suitable for consumption.

Water, whether it is meant for business purposes, agriculture, domestic purposes, or is used by public municipalities and private homeowners must be tested regularly in order to keep the source of water safe and free from environmental risks and potential health disorders.

Why is it important to test the quality of water ?

In the whole world, a majority of the people rely on the private water supply. This includes ponds, dugouts, and wells. A superior quality of water is crucial to the economic, health, and social well-being of the people. Monitoring the quality of your water and testing it regularly is very important to maintain reliable and safe water sources and eliminate the potential health risks related to water contamination.

When the water is tested it offers the knowledge; we require to address the problem that is currently involved with the water quality. It will also ensure that the water quality is protected from every potential cause of contamination and an appropriate approach is involved with the treatment system.

It is vital to check the suitability of the water quality before its use. It can be for irrigation, livestock watering, drinking, or spraying. It will also help you in making an informed decision about how to use the water and what should be done about its purity.

DIFFERENT TYPES OF WATER:

- 1. Tap Water : The water that you get from your faucet is called tap water. This is generally sourced from a dam or river, treated at a water treatment facility, stored in a reservoir, and then supplied to homes through water pipelines. While the quality of tap water generally has to meet the government guidelines and often does at the water treatment plant, intermittent supply through old distribution pipelines (which run parallel to sewage lines in many cities of India), can render this water unsafe, especially during peak summer and during the rainy season which is prone to flooding. For this reason, the use of a water purifier in your home at the point of use is often a practical and safe solution.
- Mineral Water: Mineral Water, as the name suggests, is water enriched with vital minerals, mostly calcium and magnesium. Natural mineral water is taken from underground sources which are rich in mineral content and then packaged and sold as natural mineral water.

Now, as you can imagine, this process of bottling at the source and then distributing is quite expensive as compared to tap water, but the natural mineral content does provide some health benefits. This includes aiding the digestive system, promoting better immune health, and so on.

6. BRACKISH WATER:

Brackish water means water where the salinity is appreciable but not at a constant high level. The salinity may be subject to considerable variation due to the influx of fresh or sea waters Brackish water refers to a water source that is somewhat salty (more so than freshwater) but not as salty as seawater. The exact amount of salinity will vary depending on environmental factors and can not be precisely defined. Brackish water is water with salinity levels between seawater and freshwater. It occurs where surface or groundwater mixes with seawater, in deep "fossil aquifers," and where salt dissolves from mineral deposits over time as precipitation percolates down into aquifers.

Nutrients in water:

The quick growth of the fauna in brackish waters and the recruitment of allocutions Species depends on the amount of food available. This is to a large extent determined by the Fertility of the water. Rivers bring in organic and nitrogenous matter while sea -water brings in its rich supply of potassium and calcium. Brackish water being a mixture of both is a. Relatively .Fertile medium for the production of fish food. The capacity of brackish vvater for Yielding fish food, in turn, depends on the quantity of phytoplankton and :filamentous algae That it can produce. The productivity of f1sh depends on the presence of :fish and other aquatic Animals which can convert the evitable plant food into fish protein.

7. GROUND WATER:

Groundwater is fresh water (from rain or melting ice and snow) that soaks into the soil and is stored in the tiny spaces (pores) between rocks and particles of Soil. Groundwater accounts for nearly 95 percent of the nation's fresh water Resources. It can stay underground for hundreds of thousands of years, or it can Come to the surface and help fill rivers, streams, lakes, ponds, and wetlands. Groundwater can also come to the surface as a spring or be pumped from a well. Both of these are common ways we get groundwater to drink. About 50 percent Of our municipal, domestic, and agricultural water supply is groundwater.

Some hazardous substances dissolve very slowly in water. When these Substances seep into groundwater faster than they can dissolve, some of the Contaminants will stay in liquid form. If the liquid is less dense than water, it will Float on top of the water table, like oil on water. Pollutants in this form are called Light non-aqueous phase liquids (LNAPLs). If the liquid is more dense than Water, the pollutants are called dense non-aqueous phase liquids (DNAPLs). DNAPLs sink to form pools at the bottom of an aquifer. These pools continue to Contaminate the aquifer as they slowly dissolve and are carried away by moving Groundwater. As DNAPLs flow downward through an aquifer, tiny globs of liquid Become trapped in the spaces between soil particles. This form of groundwater Contamination is called residual contamination.

WATER SAMPLING PROCEDURE:

(A) Assessment of Sampling Location:

- Unsatisfactory environmental condition e.g. surroundings dusty, covered with Debris, or poorly ventilated;
- Leaking taps;
- Taps connected to anti-splash nozzles, rubber tubings or other accessories;
- 4. Taps connected to heaters or water filters (that cannot be detached); or
- Taps with sand strainers that cannot be detached.

(B) Sampling Method:

- 1. Detach sand strainer or water filter from tap with appropriate tools;
- 2. Check for the correct sample bottle and label;
- Turn on cold water tap at maximum flow and start timing;
- Let water flow for 2 to 5 minutes depending on how often the tap is used (If the Internal plumbing system has not been used for a long period of time, flush the System thoroughly before sampling);
- After flushing, open cap of the sample bottle;
- Keep holding the sample bottle cap in one hand while sample is being collected To ensure it does not come into contact with anything to avoid contamination;
- Fill the sample bottle carefully to prevent overfill (Figure 1);
- Carefully put the cap back on the sample bottle;
- The following should be noted during sampling:
- Never rinse the bottle; the sampling bottle shall be so held that the water Does not come in contact with the hand before entering into the bottle;
 - Make sure that all samples are correctly labeled (sampling point, date and Flushing time)
 - Reinstall tap sand strainer or water filter with tools;
 - Store water samples in ice-boxes with freezer packs and deliver to Laboratory on the same day.

Objectives of water Sampling:

- To observe and measure how water quality changes over time.
- To identify the acidity and alkalinity of water.
- Identification of contaminant sources.
- Development and refinement of water management plans. Water SamplingDCE-IIUI.

TYPES OF SAMPLES:

Grab sample: A grab sample is a discrete sample which is collected at a specific location at a certain point in time. If the environmental medium varies spatially or temporally, then a single grab sample is not representative and more samples need to be collected

Composite sample: A composite sample is made by thoroughly mixing several grab samples. The whole composite may be measured or random samples from the composites may be withdrawn and measured Water Sampling DCE-IIUI.

Integrated sampling: Integrated sampling is carried out by collecting Mixture of grab samples collected from different Points simultaneously. The points may be Horizontal or vertical variation. Examples include River, stream or reservoir or lake that varies in Composition across the width and depth. Also in Industries that have different streams and Combined treatment is proposed, than Integrated sampling of different streams can be Made to understand the significant effect on Treatment.



COLLECTION OF WATER SAMPLES

Obtaining representative samples is of primary importance for a relevant Description of the environment. In order to collect a representative sample That will yield the information required,

- study objectives, including Data-quality requirements,1 must be understood in the context of the Water system to be sampled, and
- (2) artifacts of the sampling process Must be minimized.2 Field personnel must be alert to conditions that Could compromise the quality of a simple.

Collect a representative sample: Use appropriate methods and Quality-assurance measures to ensure that the field sites selected And the samples collected accurately represent the environment Intended for study and can fulfill data-quality objectives'

Think contamination: To ensure the integrity of the sample, be Aware of possible sources of contamination. Contamination Introduced during each phase of sample collection (and Processing) is additive and usually is substantially greater than Contamination introduced elsewhere in the sample-handling And -analysis process.

WATER TREATMENT METHODS:

Treatment of raw water to produce water of potable quality can be expensive. It is advisable to determine the quantity of water needing treatment, as not all water used in a fishery harbour or processing plant needs to be of potable quality. Sizing of the equipment is crucial to produce acceptable water at reasonable cost. The main point to remember is that separate systems and pipelines are required for potable and non-potable water to avoid cross contamination. Each system must be clearly identified by contrasting coloured pipelines.

Water used for drinking, cleaning fish and ice-making must be free from pathogenic bacteria and may require secondary treatment or even complete treatment depending on chemical elements that need to be removed. Water for other needs like general cleaning may perhaps need only primary treatment.

PRIMARY TREATMENT:

There are four methods of primary treatment: chlorination; ozone treatment; ultraviolet treatment; and membrane filtration.

Chlorination: Fresh or sea water can be chlorinated using either chlorine gas or hypo chlorites. Chlorinated water minimizes slime development on working surfaces and helps control odour.

Chlorination Treatment:

The main advantages of using chlorine gas are:

- It is the most efficient method of making free chlorine available to raw water.
- It lowers the pH of the water slightly.
- Control is simple; testing simple; and it is not an expensive method.

The main disadvantages are:

- Chlorine gas is toxic and can combine with other chemicals to form combustible and explosive materials.
- Automatic control systems are expensive.
- Chlorine cylinders may not be readily available at small centers.
- Chlorine expands rapidly on heating and hence the cylinders must have fusible plugs set at 70°C. It also reacts with water, releasing heat. Water should not therefore be sprayed on a leaking cylinder.

Secondary treatment

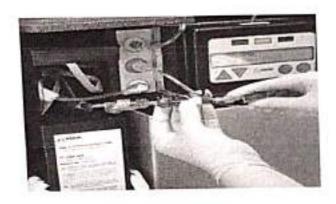
Secondary treatment of water consists of sedimentation and filtration followed by chlorination. Sedimentation can be carried out by holding the raw water in ponds or tanks. The four basic types of filtration are cartridge filtration, rapid sand filtration, multimedia sand filtration, and up-flow filtration Cartridge filtration: This system is designed to handle waters of low turbidity and will remove solids in the 5 to 100 micron range.

The main advantages are:

- Low cost and 'in-line' installation.
- Change of cartridge is simpler.
- Operation is fool-proof. Once the cartridge is clogged, flow simply stops.

The main disadvantages are:

- Sudden increase in turbidity overloads the system.
- Cartridges may not be readily available and large stocks may be required.



COMPLETE TREATMENT

Complete treatment consists of flocculation, coagulation, sedimentation and filtration followed by disinfection. Flocculation and coagulation will assist in removing contaminants in the water, causing turbidity, colour odour and taste which cannot be removed by sedimentation alone. This can be achieved by the addition of lime to make the water slightly alkaline, followed by the addition of coagulants like Alum (aluminium sulphate), ferric sulphate or ferric chloride. The resultant precipitate can be removed by sedimentation and filtration.

Chemical treatment may be required to reduce excessive levels of iron, manganese, chalk, and organic matter. Such treatment is usually followed by clarification. Iron may be removed by aeration or chlorination to produce a flocculant which can be removed by filtration. Manganese may be removed by aeration followed by adjustment of pH and upflow filtration. Most colours can be removed by treatment with ferric sulphate to precipitate the colours.

WATER QUALITY TESTS

WATER QUALITY PARAMETERS:

Water quality is one of the most important factors in a healthy ecosystem. Rain water supports a diversity of plants and animals.

- The quality of the water you consumeoruse in municipalor industrial processes must meet Specific parameters to ensure that drinking water remains freedom contaminants that could cause health issues.
- Water quality measurement include physical, chemical and biological parameters

I. PHYSICAL PARAMETERS

TASTE & ODOUR:

Objectionable taste and odour can more likely be found at the source (raw water!than at the consumer tap. pleasant tastes and odours can arise from inorganic ororganic compounds in water sources, occurring naturally or as a result of human activity. unpleasant taste or odour may indicate a failure of drinking-water treatment, and should be investigated to ensure that microbial and chemical &quality of the water is not compromised.

A Major cause of taste and odour complaints is chemical disinfection. Utilities with large distribution systems may apply large chlorine doses to ensure a residual throughout the distribution system. In community or household settings, it can be difficult to ensure a consistent chlorine dose while maintaining the desired residual, typically near 0.5 mg/labove a residual free chlorine concentration of between .0 and 1. mg/l there is anincreasing likelihood of complaints from consumers. Chloramines' can also give rise to taste and odour problems.

Total dissolved solids (T3'! are a measure of salinity that can have an important effect on the taste of drinking-water. The palatability of water with a T3' level of less than 0mg/l is generally considered to be good drinking water becomes significantly unpalatable at T3' levels greater than 1 mg/l. 45cessive pumping or lack of rainfall in coastal areas can lead to saltwater intrusion, increasing the salinity in freshwater a&ulfers. roundwater with high T3' may be too saline to be accepted by users when drilling salinity should be tested as early as possible, and certainly before well completion.

TEMPERATURE:

Temperature is another physical parameter of water that refers to how cold or warm the stream is. In water quality monitoring and scientific field research, temperature is measured in degrees Celsius. Celsius temperature data can be converted to Fahrenheit by multiplying the Celsius reading by 9/5 and adding 32.

Temperature is a critical water quality and environmental parameter because it governs the kinds and types of aquatic life, regulates the maximum dissolved oxygen concentration of the water, and influences the rate of chemical and biological reactions.

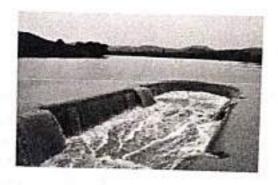
Water temperature plays an important role in almost all USGS water science. Water temperature exerts a major influence on biological activity and growth, has an effect on water chemistry, can influence water quantity measurements, and governs the kinds of organisms that live in water bodies.

- Immerse the thermometer in the sample to the proper depth for a correct reading. Record the temperature to the nearest fraction of a degree Celsius before removing.
- Record the temperature of water sample at different depth at different time intervals. Plot the graph of temperature vs time for each sample.

TURBIDITY:

The Turbidity in water is the reduction of transparency due to the presence of particulate matter such as clay or silt, finely divided organic matter, plankton or other microscopic organisms. These cause light to be scattered and absorbed rather than transmitted in straight lines through the sample. The colloidal material e5erts turbidity provides adsorption sites for chemicals that may be harmful or cause undesirable tastes andodours. 3isinfection of turbid water is difficult because of the adsorptive characteristics of some colloids and because the solids may partly shield organisms from disinfectant. In natural water bodies, turbidity may impart a brown or other colour to water and may interfere with light penetration and photosynthetic reaction in streams and lakes.

Turbidity measurement results are used to control the amount of coagulant and other chemical aids that produce a water of the desired clarity. 'satisfactory operation of rapid sand filters generally depends upon effective removal of turbidity by chemical coagulation before the water is admitted to the filters.



ELECTRICAL CONDUCTIVITY:

Rapid estimation of the dissolved solids content of the water supply can obtained by electrical conductivity measurements, which indicates the capacity of a sample to carry an electrical current, and is related to the concentration of ionized substances in the water. 3 separtures from normal conductivity may signal changes in the mineral composition of the source water, seasonal variations in reservoirs, daily chemical fluctuations in rivers, or the intrusion of industrial wastes.

How well a sample of water can carry or conduct electrical current Determines its 'Contamination levels.

- Conductivity levels will increase as the amount of ions in the water increases.
- > High conductivity means that the water contains a high amount of contaminants.
- Potable water and ultra-pure water are practically unable to conductance electrical current.

COLOUR:

Colour in water may be due to inorganic ions, such as iron & manganese, humus & peat Materials, plankton, weeds and industrial wastes. The term 'colour' is used to mean true Colour that is the colour of water from which turbidity has been removed. The term Apparent colour includes not only the colour due to substances in solution, but, also that Due to suspended matter. Apparent colour is determined on the original sample without Filtration or centrifugation.

APPARATUS:

- Nessler cylinders 50 mL capacity.
- Centrifuge or filter assembles with glass fiber filters or membrane filters with Functional pore sizes of approximately 0.45µm.

REAGENTS:

- Standard chloro palatinate solution Dissolve 1.246 gm potassium Chloroplatinate (K2PtCl6) (equivalent to 500 mg metallic platinum) and 1.0 gm.
- Crystalline cobaltous chloride (CoCl3.6H2O) (equivalent to 250 mg metallic cobalt) in
- Distilled water containing 100 mL concentrated hydrochloric acid. Dilute to 1000mL
 With distilled water. This standard solution is equivalent to 500 colour units.

PROCEDURE:

Apparent color – Observe the color of the sample by filling a matched Nessler
 Cylinder to the 50 mL mark with water and compare with standards. Compare by
 looking vertically downward through the cylinder towards a white surface placed at
 Such an angle that light is reflected upwards through the column of liquid. If
 turbidity has not been removed, report the colour as 'apparent colour'. If the colour
 exceeds 70 Units, dilute the sample with distilled water until the colour is in the
 range of the standards.

TRUE COLOR:

Remove turbidity by centrifuging the sample until the supernatant liquid is clear. Compare the centrifuged sample with distilled water to ensure that turbidity has been removed. If the sample is clear, then compare with the standards.

Calculation:

Color units/Hazen Units = 50A V

Where,

A= Estimated color of diluted sample

V= Volume in ml of sample taken for dilution

REPORT:

S.NO	Color Units / Hazen units	Record to nearest
1	1 to50	1
2	51 to 100	10
3	101 to 250	15
4	251 to 500	20

TOTAL SOLIDS:

Many factors can contribute to the total solids in water. Soil erosion is a large contributor. An increase in water Flow or a decrease in stream-bank vegetation can speed Up the process of soil erosion and contribute to the Levels of suspended particles such as clay and silt. Naturally occurring rocks or minerals in the soil such as Halite, Nacl, or limestone, CaCO3, may also dissolve into the water, adding to the total solids. Total solids can also come from various types of runoff. Agricultural runoff often contains fertilizers and Suspended soil particles. Other sources include Industrial wastes, effluent from water treatment plants, And urban runoff from parking lots, roads, and rooftops.

Materials Required :

- Sampling bottles
- Drying oven
- 100-mL graduated cylinder
- Analytical balance (0.001 g)
- Two 250 mL beakers and tongs or gloves to hold beaker.

CONCLUSION:

Freshwater is a finite and limited resource on Earth and, increasingly, much of it is polluted, by both pathogenic microbes and chemical contaminants. Human demand for freshwater is increasing; in particular, water is required to irrigate crops to feed the rapidly expanding human population.

There is no life without water. Water is not only important for human beings but for the entire ecosystem. Without enough water, the existence of humans, as well as animals, is next to impossible. After fresh air, water is the second most important natural resource for the survival of any living being.

Conserving water reduces wear and tear on major resources such as water and wastewater treatment plants and the distribution systems that deliver water to the public.

Traditionally, water management policies and practices have dealt only with problems of water distribution to meet the ever-increasing demand, rather than better management of existing resources. The largely fragmented approach that results has contributed to the overexploitation of water resources

- Restate your topic and why it is important,
- Restate your thesis/claim,
- Address opposing viewpoints and explain why readers should align with your position, Call for action or overview future research possibilities.

WEEKLY REPORT

WEEK - 1 (From Dt..... to Dt....)

Dbje	ctive of the Activity Done:
Deta	iled Report: I start my internship at FORTUNE AQUA
LA	35 PVT, LTD' in palakollu on the first day, I went
	a lab and I visit the total lab and the water
	sting equipments.
1 9.5	on the second day, the lab incharge gave me a
i	resoduction about aquaculture & aqua labs. The
	expose of aqua labs are to testing the water quality
	on the third day, they tell about the advantages &
op	portunities of aquaculture & labs. Now a days Aqua
1	abs are more needed during this period of time.
_[3	ecause, mater is more polluted in present situation
0	n the fourth day, the lab incharge gave lab
	recautions like wearing apron, testing the samples wir viesence of lab Assistant.
Ľ	on the fifth day, the oreagents which are used for
-	testing the water samples like EDTA, H2SO4, EBT, Nach
F	Ammonium buffer, methyl orange, Phenophalain at
-	On the sixth day, they teach about to the apparatu
+	using for Testing samples like test tulies, Burette,
-	Burette stand, pipette, conical flasks, Conductivity
-	meter, pH meter, Salinity meter, electronic
	microscopes, Hot air oven, Incubators etc

ACTIVITY LOG FOR THE FIRST WEEK

DAY & DATE	BRIEF DESCRIPTION OF THE DAILY ACTIVITY	LEARNING OUTCOME	Person In-charge Signature
Day –	I went to a Fostune Aqua Lab PVt, LTD at PalaKollu. I visit the Lab and I Know about the water testing earlipments.	Knowing about the lab and cquipment present un it.	iso
Day -	In the Second day, the lab incharge gave introduction about the purpose of aqua labs & water analysis.	Aqua laby are more needed during this revied of time. It helps to maintain good water quality.	¥6
Day – 3	The lab incharge said about advantages of opportunities of the aqua Julture of labs.	Now a days in Aqua culture has a good opportunities to the students.	
Day –	recautions to the students.	rake preventine	DO
Day -	The reagents which are used for testing water rample. Eg: EDTA, H2 SO4, EBT, NAOH, Ammonium Buffer, methyl orange, Phenophalein etc	I Known about the wage of reagents	700
Day -	Apparatus:	Known about the	26

WEEKLY REPORT

WEEK - 2 (From Dt..... to Dt.....)

Objective of the Activity Done: Detailed Report: In the second week, the lab assistant Teach about the types of water like fresh, xalt, Brackish and ground water etc. In these organisation testing the bone, pond, plant & Construction purpose using waters. On the second day, they tell about the process of weater testing contain 3 types of parameters they are physical, chemical, and Biological on the third day the lab organizer teach about the physical parameters like colows, odows & Taste, Conductivity, temperature, turbidity on the fourth day, they tell about the chemical parameters like Alkalinity, Hardness, Cat, magnesium hardness, pth, Salinity, Ammoneum nitrate, lead, chlorine, zine etc. on the fifth day, the lab uncharge tell about biological parameters like Algae, Bacteria, virus & protozoa. on the sixth day, they tell about ranges of mater are Alkalinity 50-300 PPM, Hardness-40-400 PPM, pH 7.5-8.5, Salinity 12-25, Ca hardness-75-200 mg/L mg12 Hardness - 1.98 (or) 219.51 mg/L, Dissolved oxygen 5-6 ppm, Ammonium- < 0.1 PPm, nityate - < 0.5 ppm, Chlorine -1.5 - 2.0 PPM. The value is higher than the normal range it should be harmful and take advices from the lab uncharge and apply it.

ACTIVITY LOG FOR THE SECOND WEEK

DAY & DATE	BRIEF DESCRIPTION OF THE DAILY ACTIVITY	LEARNING OUTCOME	Person In-charge Signature
Day -	The lab airstant tell about the types of water like; Fireth, Salt, Brackish ground water etc	In the lab Bore pond, plant water a construction purpose waters are tested.	CB_
Day -	The process of water testing Contain 3 types of parameters * physical * Chemical * Biological	Known about the types of Parameters.	EB
Day -	And the third day, they tell about physical parameters: * Colows * Temperature * Conductivity * Twibidity	I known about the physical parameters	[Des-
Day 4	And the next day, they said	Knowing about the chemical parameters	te
Day 5	Biological parameters:	I known about the biological parameters	£85
Day 6	All construction -	these sunges of parameters of has a good water	26

WEEKLY REPORT

WEEK - 3 (From Dt..... to Dt....)

Objective of the Activity Done: Detailed Report: On the third week, the lab uncharge teach about the alkalinity procedure and Chemical usage for alkalinity are H2 Soy, methyl orange, methyl green and also tell about how to calculate the value of alkalinity. In the next day, I practise the Alkalinity test. on the third day, they tell about the Handness procedure like using apparatus, Calculations and Chemical reagents wage are EDTA, EBT, Ammonium buffer on the next day, I peractise the Hardness test and standard oranges of test on the fifth day Handness is the lab incharge briefly tell about the calcium hardness and their procedure, how to Calculate the Ca Hardness value. The end point of Cat 2 hardness is blue. The trange of Calcium hardness (CH) us 200-400 PPM. on the Sexth day, they teach about the magnesium test and their procedure, generally subtract the total hardness. and Calcium hardness gives magnesium hardness. TH-CH=MH

ACTIVITY LOG FOR THE THIRD WEEK

DAY & DATE	BRIEF DESCRIPTION OF THE DAILY ACTIVITY	LEARNING OUTCOME	Person In-charge Signature
Day –	The lab incharge said about the alkalinity procedure; Chemical usage and their Calculations.	I know about the Alkalinity test In which the end point is orange.	50
Day -	In the next day, I Practised the Alkalinity test.	I know about the uses of Alkalinity test. The range of Alkalinity is bet	<u>C</u>
Day –	Hardness & procedure and chemical usage and their Calculation	I Known about the Hardness test Its viange is un bet 40-400 PPM.	CB
Day -	The next day, I practised the Hardness test.	I Known about the oranges and uses of these tests.	Etc.
Day -	The lab incharge briefly tell about the Calcium hardness and their procedure, and Calculation.	I know about the purpose of test Range - 200-400ppm End point is blue.	110
Day 6	1	Knowing about the magnesium hardenen test.	26

WEEKLY REPORT

WEEK - 4 (From Dt..... to Dt....)

Objective of the Activity Done: In the fourth week, the laboratory uncharge teacher about the PH test. It shows that acidic (or) basic (or) neutral nation of acater and tell about the peroceclive of testing. The pH standard trange is present in between 7.5-8.5. These trange of water has a good water quality on the second day, they tell about the Salinity test which is used to determine the salt content present in water by using the Salinity meter. The range of salinity in water is 12-25. On the third day, the Ammonium test is to tell about the Ammoneium Content present in water & also tell about the procedure of testing. The trange of Ammonium is < 0.1 PPM. It will gives green colour on the fourth day, they tell about the procedure of nitrate test The trange of nitrate is LO.5 PPM. It will gives the pink colows. On the fifth day, the lab uncharge information about disadvantages of lead present in water and also tell how to cidentify the lead content present un water on the sixth day, they tell about the procedure of testing, their chemical usage, Advantages & Disadvantages of zine present in arater.

ACTIVITY LOG FOR THE FOURTH WEEK

DAY & DATE	BRIEF DESCRIPTION OF THE DAILY ACTIVITY	LEARNING OUTCOME	Person In-charge Signature
Day -	pH test is used to tell about the acidic, basic, neutral nature of water & Tell about the procedure of test.	pH nange of water us present in blw 7.5-8.5. These sarge of water has a good water quality.	Be
Day -	The Salinely test used to	The orange of salinity in water	B
Day –	Ammonium text is to tell about Ammonium content present in water & also tell about the precedence of texting	The ammohium orange of arater 20.1 PPM. It will gives green colows & their uses.	Clar
Day -	They tell about the procedure of nitrate test	I known about the uses & ranges are <0.5 ppm. It will gives pink colows	趋
Day -	How to identify the dead content present in mater		DB-
	Zinc testing and their chemical usage Advantages of zinc powert in water	Known about the zenc test.	Mez

ACTIVITY LOG FOR THE FIFTH WEEK

DAY & DATE	BRIEF DESCRIPTION OF THE DAILY ACTIVITY	LEARNING OUTCOME	Person In-charge Signature
Day –	They tell about Chlorine test. It is a toxic gas. The Chlorine in water indicates the water is clean.	Naturally found in water in the end point of chlorine is yellow & uses of chlorine in water	<u>Do</u>
Day - 2	Algae is a microscopic plant	Algae proluïde owygen to the organisms living in water	CB_
Day –	Bacteria is a single alled plant and also explain their procedure of testing.	Blue green algae Can oceduce mitrogen gas an Pond water	Ro
Day -	winses are tiny biological structures. And tell about the procedure & uses of winses.	uviuses helps in gene therapy & wectors etc	(b)
Day -	Protozoans can be seen under nicroscope. And they tell about procedure of testing.	Knowing about the procedure of protozoa	26
Day 6	water qualities: -> use a mater filters, -> clean mater aerators -> Boil the drinking mater. -> Property dispose of hazardomste	How to maintain a good water quality of Conditions	Ele .

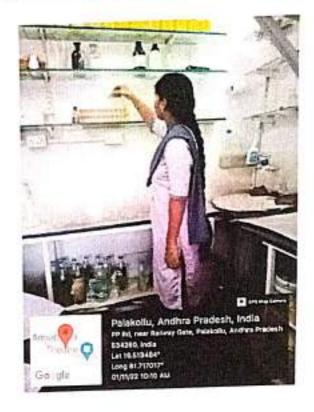
WEEKLY REPORT

WEEK - 5 (From Dt..... to Dt.....)

Objective of the Activity Done: Detailed Report: In the fifth week, they tell about the Chlorine test and their procedure. The Chlorine test us used for bore water analysis. It is a toxic gas which is harmless to human. The end point of the Chlorine is yellow. On the second day the lab incharge tell about the algae. It is a micro scopic plant and teach about the procedure of testing. Algae Consumes Co, and releases o. It helps to hive the organisms present in the water. on the third day, they teach about the bacteria present in water How to identify there presence in water Blue - green algae can reduce No, gas in pond water to ammonia. which us used to in perotein synthesis on the fourth day, they tell about the wiruses and their procedure of testing, rivuses are having biological structure. Some viruses are used in gene therapy, vectors etc. On the zifth day they tell about problems procedure of testing. on the sixth day they tell about how to improve the water qualities in pends. * use a water filters, Clean areaters, Boil the drinking water, properly dispose of hazandous.

Photos Collected During The Internship









WATER ANALYSIS

INTERNSHIPPROJECT REPORT SUBMITTED

To

SRI A.S.N.M GOVT (A) COLLAGE, PALAKOL



Submitted by,

EETHAKOTA NAVYA SRI

Reg NO: 2023060

Under the guidance of

KUM.P.JYOTSNA SRI

DEPARTMENT OF ZOOLOGY

SRI A.S.N.M GOVT (A)COLLEGE
PALAKOLLU
2023-2024

An Internship Report On (Title of the Internship)

Submittedinaccordancewiththerequirementforthedegreeof......

NameoftheCollege: SRI A.S.N.M. GOVT (A) COLLEGE PALAKOLLU

Department; ZOOLOGY

NameoftheFacultyGuide:Kum.P.JYOSTNA SRI

DurationoftheInternship:From26/9/2022To16/10/2022

Name of the Student: EETHAKOTA NAVYA SRI

Programme of StudyYear of Study:III YEAR

Register Number:2023060

Student's Declaration

I,EETHAKOTA NAVYA SRI,a studentofB.Sc. CBZProgram,Reg.No. 2023060of theDepartmentof zoology, SRI A.S.N.M. GOVT (A)College do hereby declare that I have completed the mandatory internship from-26/9/2022 to 16/11/2022 Aqua fortune lab p.v.t, l.t.d under the Faculty Guide ship Department ZOOLOGY, SRI A.S.N.M GOVT (A) COLLEGE

Endorsements

P. Tyolana sn 16/11/12

(Signature and Date)

E. Mavya sri

HeadoftheDepartment 1/22

Principal

PRINCIPAL Sri A.S.N.M. GOVT. COLLEGE (A)

PALAKOL-534 260, W.G.DIST

ACKNOWLEDGEMENT

I take the opportunity to thank one and all who have helped in making the project possible. I am thankful to authorities of SRI A.S.N.M GOVT COLLEGE (A), PALAKOL for giving this opportunity to work in project as part of curriculum. I am very thankful to our internal guide Kum.P.Jyostna sriDepartment of zoology or providing this great opportunity

I would like to express my respect thanks to DR.RAMAKRISHNA, HOD, Department of zoology, Sri

A.S.N.MGOVT (A) college, palakol.

I am very much thanksful E.PRASAD BABU ,FORTUNE AQUA LAB PRIVATE LIMITED, PALAKOL, gavetheopportunityto finish the two months internship in his industry.

I am very graceful to my fatherSri.E.SRINIVAS RAOand my siblings for their moral guidance and encouragement and for permitting me to blossom in all my endeavours

I wish to extend my warm thanks to these who helped me directly and indirectly during my project period . I sincerely apologize if I forgot to mention anybody and thanks to all concerned from the bottom of my heart.

Signature of the students (EETHAKOTA NAVYA SRI) E-NOVYO Svi

Certificate from Intern Organization

This is to certify that EETHAKOTA NAVYA SRI (Name of the intern) Reg.No2023060 of SRI A.S.N.M GOVT (A) COLLEGE underwent internship in FORTUNE AQUA LAB P.V.T.,L.T.D PALAKOL from 26/9/2022 to 16/11/2022 The overall performance of the intern during his/her internship is found to be Satisfactory

Authorized Signatory With Bate

Fortune Aqualabs Pvt.Ltd

#2A-6-19; Near Railway Gate

P.P.ROAD ; PALAKOLLU; W.G.Dt; A.P; 534260 Email : fortunelab.pkl@gmail.com

website : www.fortunelabs.in

Contact:98480 99097 ; 7075 373737; 7396 373737(BVRM)







Date: 16-11-2022

PALAKOL

CERTIFICATE FROM INTERN ORGANIZATION

This is to certify that EETHAKOTA NAVYA SRI Reg.No2023060 of SRI A.S.N.M.GOVT COLLEGE (A) PALAKOL W.G.Dt., A.P., underwent internship in FORTUNE AQUALABS PVT Ltd. From 26/09/2022 to 16/11/2022.

The overall performance of the intern during his/her internship is found to be Satisfactory.

PLACE: PALAKOL

Date: 16/11/2022

Authorized Signatory

PALAKO

Analytical Chemists For

er, Aqua culture water, Strimp PCR, Feed Quality Analysis (Protien, Fe

INTERNSHIP PROJECT REPORT SUBMITTED TO SRI A.S.N.M GOVT (A) DEGREE COLLEGE



Submitted by

P.SANTHOSH KUMAR

Reg: 2023047

Under the internal guidance of

Dr.M.RAMAKRISHNA

DEPARTMENT OF ZOOLOGY

SRI A.S.N.M GOVT (A)DEGREE COLLEGE

Palakol

2020-2023

AnInternshipReport On WATER QUALITY MANAGEMENT

Submittedinaccordancewiththerequirementforthedegreeof......

NameoftheCollege : Sri Asnm Govt (A) palakollu

Name of the Department : zoology

NameoftheFacultyGuide : Dr.M.Ramakrishna

DurationoftheInternship:From: 26/09/2022 To: 26/11/2022

Name of the Student : P.Santhosh Kumar

Programme of StudyYear of Study:III Year

Register Number :2023047

DateofSubmission : 1.6/11/2022

Student's Declaration

I,P.Santhosh Kumar, astudentofB.Sc CBZ Program,Reg.No. 2023047of theDepartmentofZoology,SRI

GOVT(A)Collegedoherebydeclarethatlhavecompletedthe mandatory internship from 26/09/2022 to J.6/11/2022 in FORTUNEAQUA LAB PVT,LTDundertheFacultyGuideshipof Dr.M.Ramakrishna,Department of Zoology, Sri Asnm Govt (A) College.

SignatureandDate

Endorsements

M. Ram Ce FacultyGuide (6/11) 22

M. Readofthe Department

Principal

PRINCIPAL

Sri A.S.N.M. GOVT. COLLEGE (A) PALAKOL-534 260, W.G.DIST

ACKNOWLEDGEMENTS

I take the project thank one and all who have helped in making the project possible. I am thankful to authorities of SRI A.S.N.M GOVT (A) Degree College palakol, W.G.Dt, for giving this opportunity to work an a project as part of curriculum. I am very thankful to our internal guide Dr.M.Rama Krishna Department of Zoology, for providing this grate opportunity.

I would like to express my respect and thanks to Dr.M.Rama Krishna guest faculty of Botany, SRI A.S.N.M Govt (A) Degree college palakol, W.G.Dt.

I am very much thankful to E. PRASAD BABU ,FORTUNE AQUA LAB PRIVATE LIMITED. PALAKOL, gave the opportunity to finish the two months intern ship in his industry.

I am graceful to my father P.Lakshman Rao and my siblings for their moral guidence and encouragement and for permitting me to blossom in all my endeavours.

I wish to extend my warm thanks to those who helped me directly or directly during my project period. I sincerely apologize if I forget to mention anybody and thanks to all concerned from the bottom of my heart.

Signature of candidate (P.Santhosh Kumar)

Fortune AqualabsPvt .Ltd

#2A-6-19; Near Railway Gate

P.P.ROAD ; PALAKOLLU; W.G.DI ; A.P ; 534260 Email : fortunelab.pkl@gmail.com

website : www.fortunelabs.in

Contact:98480 99097 ; 7075 373737; 7396 373737(0VRM)



Date: 16-11-2022 PALAKOL

CERTIFICATE FROM INTERN ORGANIZATION

This is to certify that PEETHALA SANTHOSH KUMAR Reg.No2023047 of SRI
A.S.N.M.GOVT COLLEGE (A) PALAKOL W.G.Dt., A.P., underwent internship in FORTUNE
AQUALABS PVT Ltd. From 26/09/2022 to 16/11/2022.

The overall performance of the intern during his/her internship is found to be Satisfactory.

PLACE: PALAKOL

Date: 16/11/2022

U. AuthorizedSignatory

Analytical Chemists For

Drinking Water, Domestic Water, Construction Water, All Borewet Rew Water, Aque culture water, String PCR, Feed Quality Analysis (Protein, Fat. Moisbure, Ash)

INTERNSHIPPROJECT REPORT SUBMITTED To

SRI A.S.N.M GOVT (A) COLLAGE, PALAKOL



Submitted by,

M.JOHNY

Reg NO: 2023064

Under the guidance of

M. RAMA KRISHNA

DEPARTMENT OF ZOLOGY

SRI A.S.N.M GOVT (A),COLLEGE
PALAKOLLU
2023-2024

An Internship Report On WATER QUALITY MANAGEMENT

Submittedinaccordancewiththerequirementforthedegreeof......

NameoftheCollege: SRI A.S.N.M. GOVT (A) COLLEGE PALAKOLLU

Department: ZOOLOGY

Name of the Faculty Guide: DR.M.RAMAKRISHNA

DurationoftheInternship: From 26/09/2022 To 26/11/2022

Name of the Student: M.JOHNY

Programme of Study: III Year

Year of Study: 2022-2023

Register Number: 2023064

Date of Submission: 16/11/2022

Student's Declaration

I, M.Johny, a student of B.Sc CBZ Program, Reg.No. 2023064 of the Department of Zoology, SRI ASNM GOVT[A] COLLEGE do hereby declare that I have completed the mandatory internship from 26/0/22 to 16/11/22 in FORTUNE AQUA LABS PVT, LTD under the Faculty Guide ship of DR.M.RAMAKRISHNA, Department of ZOOLOGY, Sri Asnm Govt [A] College.

Signature and Date

Endorsements

nika 6 FacultyGuide 16/11/22

M-Kanne CHeadoftheDepartment 16 11 22

Principal

PRINCIPAL Sri A.S.N.M. GOVT. COLLEGE (A) PALAKOL-534 260, W.G.DIST

ACKNOWLEDGEMENT

I take the opportunity to thank one and all who have helped in making the project possible. I am thankful to authorities of SRI A.S.N.M GOVT COLLEGE (A), PALAKOL for giving this opportunity to work in project as part of curriculum, I am very thankful to our internal guide Dr.M.RAMAKRISHNA Department of zoology, For providing this great opportunity

I would like to express my respect thanks to Dr.M.RAMAKRISHNA, HOD, Department of ZOOLOGY SR A.S.N.M GOVT college, palakol.

I would like to express my sincere thanks to U.PRASAD BABU, owner of Aqua fortune lab for giving me this opportunity to finish my internship in his industry.

I am very graceful to my father's sri M SRI KRISHNA PRASAD and my siblings for their moral guidance and encouragement and for permitting me to blossom in all my endeavours

I wish to extend my warm thanks to these who helped me directly and indirectly during my project period . sincerely apologize if I forgot to mention anybody and thanks to all concerned from the bottom of my heart

> M. Johny signature of the candidate

> > (M JOHNY)

Fortune Aqualabs Pvt.Ltd

#2A-6-19; Near Railway Gate

P.P.ROAD ; PALAKOLLU; W.G.Dt; A.P; 534250

mail : fortunelab.pkl@gmail.com

website : www.fortunelabs.in

Contact98480 99097 ; 7075 373737; 7396 373737(BVRM)







Date: 16-11-2022

PALAKOL

CERTIFICATE FROM INTERN ORGANIZATION

This is to certify that MANUKONDA JOHNY Reg.No2023064 of SRI A.S.N.M.GOVT COLLEGE (A) PALAKOL W.G.Dt., A.P., underwent internship in FORTUNE AQUALABS PVT Ltd. From 26/09/2022 to 16/11/2022.

The overall performance of the intern during his/her internship is found to be Satisfactory.

PLACE: PALAKOL

Date: 16/11/2022

U. Authorized Signatory

INTERNSHIPPROJECT REPORT SUBMITTED

To

SRI A.S.N.M GOVT (A) COLLAGE, PALAKOL



Submitted by:

RAMALAKSHMI GUDALA

Reg NO: 2023061

Under the guidance of

Kum: P. JYOTSNA SRI

DEPARTMENT OF ZOLOGY

SRI A.S.N.M GOVT (A)COLLEGE
PALAKOL
2023-2024

AnInternshipReport On (TitleoftheInternship)

Submittedinaccordancewiththerequirementforthedegreeof.....

NamcoftheCollege:SRI A.S.N.M. GOVT (A) COLLEGE PALAKOLLU

Department:ZOOLOGY

NameoftheFacultyGuide: P.JYOTSNA SRI

DurationoftheInternship:From 26/09/2022 To 16/11/2022

Name of the Student: GUDALA RAMALAKSHMI

Programme of Study: BSC(CBZ)

Year of Study: III BSC

Register Number:2023061

DateofSubmission: | 6/11/2022

Student's Declaration

I RAMA LAKSHMI GUDALA, a student of BSC CBZ. Program, RegNo. 2023061 of The Department of Zoology, SRI ASNM GOVT COLLEGE (A) PALAKOL do hereby declare that I have completed the mandatory internship from |6/10/2022 to 16/11/2022 in FORTUNE AQUA LABS PVT.LTD, PALAKOL under the Faculty Guideship of Kum PJYOTSNA SRI, , Department of ZOOLOGY, SRI ASNM GOVT COLLEGE(A) PALAKOL.

> 3. Ramolakohi 16/11/22 (Signatureand Date)

Endorsements

P. Tyokinasi 16/4/22 FacultyGuide

Principal

PRINCIPAL Sri A.S.N.M. GOVT. COLLEGE (A)

PALAKOL-534 260, W.G.DIST

ACKNOWLEDGEMENT

I take the opportunity to thank one and all who have helped in making the project possible. I am thankful to authorities of SRI A.S.N.M GOVT (A) College Palakol ,for giving this opportunity to work on a project as part of curriculum. I am very thankful to our internal guide P. JYOTSNA SRI Department of zoology, for providing this great opportunity.

I am very much thank full to **U. Prasad babu, fortune aqua lab Pvt. Ltd.** Palakol give the opportunity to finish the 2 months internship in his industry

I would like to express my respect and thanks to Dr. M.Ramakrishna, HOD ZOOLOGY, Dr.Y.VIJAYAKUMAR, HOD BOTANY and V. SaiSree madam lecturer in Botany moral guidance and encouragement I wish to extend my warm thanks to those who helped me directly or indirectly during my project period. I sincerely apologize if I forget to mention any body and thanks to all concerned from the bottom of my heart.

Signature of candidate

RAMALAKSHMI GUDALA

Fortune AqualabsPvt .Ltd

#2A-6-19 ; Near Railway Gate

P.P.ROAD ; PALAKOLLU; W.G.Dt; A.P; 534260

: fortunelab.pkl@gmail.com : www.fortunelabs.in

Contact:98480 99097 ; 7075 373737; 7396 373737(BVRM)



Date: 16-11-2022 PALAKOL

CERTIFICATE FROM INTERN ORGANIZATION

This is to certify that GUDALA RAMA LAKSHMI Reg.No2023061 of SRI A.S.N.M.GOVT COLLEGE (A) PALAKOL W.G.Dt., A.P, underwent internship in FORTUNE AQUALABS PVT Ltd. From 26/09/2022 to 16/11/2022.

The overall performance of the intern during his/her internship is found to be Satisfactory.

PLACE: PALAKOL

Date: 16/11/2022

Authorized Signatory LOUAL

WATER ANALYSIS

INTERNSHIPPROJECT REPORT SUBMITTED

To

SRI A.S.N.M GOVT (A) COLLAGE, PALAKOL



Submitted by,

Yalamarthi Chandini

Reg NO: 2023071

Under the guidance of

Dr. M.Rama Krishna

DEPARTMENT OF zoology

SRI A.S.N.M GOVT (A)COLLEGE
PALAKOLLU

An Internship Report On (TitleoftheInternship)

Submittedinaccordancewiththerequirementforthedegreeof......

NameoftheCollege: SRI A.S.N.M. GOVT (A) COLLEGE PALAKOLLU

Department: Zoology

NameoftheFacultyGuide: Dr. M.rama Krishna

DurationoftheInternship:From26/9/2022To.16[1/2022

Name of the Student: YALAMARTHI CHANDINI

Programme of StudyYear of Study:III YEAR

Register Number: 2023071

Student'sDeclaration

I,Y.CHANDINI student of B.Sc. CBZ Program, Reg.No. 2023071 of the Department of zoology, SRI A.S.N.M. GOVT (A)College do hereby declare that I have completed the mandatory internship from 26/9/2022 in 16/11/2022 Fortune Aqua lab p.v.t, 1.t.d under the Faculty Guide ship Department zoology, SRI A.S.N.M GOVT (A) COLLEGE

(Signature and Date)

Endorsements

PacultyGuide 16/112 -

MeadoftheDepartment

Principal

PRINCIPAL STA.S.N.M. GOVT. COLLEGE (A) PALAKOL-534 260, W.G.DIST y. c. L. D. V. K. Boraneswari

ACKNOWLEDGEMENTS

I take the project thank one and all who have helped in making the project possible. I am thankful to authorities of SRI A.S.N.M GOVT (A) Degree College palakol, W.G.Dt, for giving this opportunity to work an a project as part of curriculum. I am very thankful to our internal guide Dr.M.rama Krishna Department of zoology, for providing this grate opportunity.

I would like to express my respect and thanks to M.rama Krishna guest faculty of Botany, SRI A.S.N.M Govt (A)Degree college palakol, W.G.Dt.

I am very much thankful to E. PRASAD BABU ,FORTUNE AQUA LAB PRIVATE LIMITED. PALAKOL, gave the opportunity to finish the two months intern ship in his industry.

I am graceful to my father y.n.v.s.kumar Kumar and my siblings for their moral guidence and encouragement and for permitting me to blossom in all my endeavours.

I wish to extend my warm thanks to those who helped me directly or directly during my project period. I sincerely apologize if I forget to mention anybody and thanks to all concerned from the bottom of my heart.

Signature of candiate

Y.C.LOV. K. patameswari

Certificate from Intern Organization

ThisistocertifythatY.chandini (Name of the intern) Reg.No2023071SRI A.S.N.M GOVT (A) COLLEGE underwent internship in FORTUNE AQUA LAB P.V.T.,L.T.D PALAKOLfrom26/9/2022to. 6/11/2022 The overall performance of the intern during his/her internship is found to be Satisfactory

Authorized Signatory with Date

Fortune Aqualabs Pvt .Ltd

#2A-6-19; Near Railway Gate

P.P.ROAD ; PALAKOLLU; W.G.Dt; A.P; 534260 Email : fortunelab.pkl@gmail.com

website : www.fortunelabs.in

Contact:98480 99097 ; 7075 373737; 7396 373737(BVRM)



Date: 16-11-2022

PALAKOL

CERTIFICATE FROM INTERN ORGANIZATION

This is to certify that YALAMARTHI CHANDINI L D V K PARAMESWARI Reg.No.2023071 of SRI A.S.N.M.GOVT COLLEGE (A) PALAKOL W.G.Dt., A.P., underwent internship in FORTUNE AQUALABS PVT Ltd. From 26/09/2022 to 16/11/2022.

The overall performance of the intern during his/her internship is found to be Satisfactory.

PLACE: PALAKOL

Date: 16/11/2022

O. Authorized Signatory

WATER ANALYSIS

INTERNSHIP PROJECT REPORT SUBMITTED To



SRI A.S.N.M GOVT (A) COLLAGE, PALAKOL

Submitted by,

Donga devidurga

Reg NO: 2023059

Under the guidance of

Kum P.JYOTSNA SRI

DEPARTMENT OF ZOLOGY

SRI A.S.N.M GOVT (A) COLLEGE
PALAKOLLU
2023-2024

An Internship Report On WATER QUALITY MANAGEMENT

Submitted in accordance with the requirement for the degree of

NameoftheCollege: SRI A.S.N.M. GOVT (A) COLLEGE PALAKOLLU

Department: Zoology

NameoftheFacultyGuide: Kum.P.JYOTSNA SRI

DurationoftheInternship: From 26/09/2022 To 26/11/2022

Name of the Student: D.Devi Durga

Programmerof Study: III Year

Year of Study: 2022-2023

Register Number: 2023059

DateofSubmission: 16/11/2022

Student's Declaration

I, D.DeviDurga, astudent of BSc CBZ Program, Reg.No. 2023059 of the Department of Zoology, SRI ASNM GOVT[A] COLLEGE do hereby declare that I have completed the mandatory internship from 26/0/22 to £6/11/22 in FORTUNE AQUA LABS PVT, LTD under the Faculty Guide ship of Kum.P.JYOTSNA SRI, Department of Zoology, Sri Asnm Govt [A] College.

D. Devidurge Signature and Date

Endorsements

FacultyGuide

HEADY THE PERSONNELL PROPERTY OF ZOOLOGY

EN A. S. N. M. GOVT. COLLEGE

PALAKOL - 634 260

Principal

ACKNOWLEDGEMENT

I take the opportunity to thank one and all who have helped in making the project possible. I am thankful to authorities of SRI A.S.N.M GOVT COLLEGE (A), PALAKOL for giving this opportunity to work in project as part of curriculum. I am very thankful to our internal guide P.JYOTSNA SRI Department of zoology, For providing this great opportunity

I would like to express my respect thanks to DR.M.RAMAKRISHNA ,HOD ,Department of zoology,sri A.S.N.M GOVT college,palakol.

I am very graceful to my father Donga Durgarao and my siblings for their moral guidance and encouragement and for permitting me to blossom in all my endeavours

I wish to extend my warm thanks to these who helped me directly and indirectly during my project period .I sincerely apologize if I forgot to mention anybody and thanks to all concerned from the bottom of my heart

LD. Deviduge Signature of the Student

(Donga devidurga)

Fortune Aqualabs Pvt .Ltd

#2A-6-19; Near Railway Gate

P.P.ROAD ; PALAKOLLU; W.G.DI; A.P ; 534260

Email : fortunelab.pkl@gmail.com

website : www.fortunelabs.in Contact:98480 99097 ; 7078 373737; 7396 373737(8VRM)





Date: 16-11-2022 PALAKOL

CERTIFICATE FROM INTERN ORGANIZATION

This is to certify that DONGA DEVI DURGA Reg.No2023059 of SRI A.S.N.M.GOVT COLLEGE (A) PALAKOL W.G.Dt., A.P., underwent internship in FORTUNE AQUALABS PVT Ltd. From 26/09/2022 to 16/11/2022.

The overall performance of the intern during his/her internship is found to be Satisfactory.

PLACE: PALAKOL

Date: 16/11/2022

Authorized Signatory