

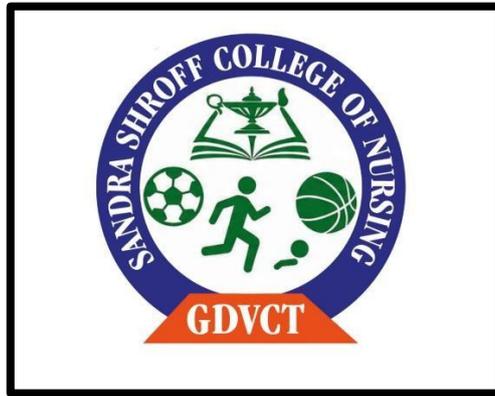


SANDRA SHROFF COLLEGE OF NURSING

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REPORT ON FIELD VISIT TO MAA FOUNDATION VAPI

DATE: 09/04/2025



SUBMITTED BY
SUBJECT OF IN-CHARGE OF SOCIOLOGY


Dr. Anita Nawale
I/C. Principal
S.S.C.N. VAPI

SIGNATURE OF INCHARGE PRINCIPAL



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DATE:09/04/2025

To The Coordinator/Director Maa Foundation

Chala Vapi.

Subject: Permission for Sociology Students' Visit to Maa Foundation

Dear "Sir/Madam",

I am writing to request permission for our students to visit Maa Foundation as part of their sociology curriculum requirement. The visit aims to enrich their understanding of social institutions and their significant role in society.

Our group consists of 74 students from 1st year GNM, 1st Year B.Sc. Nursing and 2 faculty members, and we would greatly appreciate the opportunity to explore the foundation's work and engage in any activities or discussions that may be planned during the visit.

The proposed date for the visit is 09-04-2025, and we are flexible to adjust as per your availability. Kindly let us know the guidelines, timings, and other necessary details for arranging this educational visit.

Please feel free to contact us at sscn2003@yahoo.com for further coordination.

Thank you for considering our request. We look forward to your positive response.

Sincerely,

Prof. Mr. Samuel Fernandis,

Principal, SSCN, Vapi.

OBJECTIVE FOR THE SOCIAL INSTITUTION VISIT

1. To Identify the structure, functions, and services provided by the social institution.
2. To Identify key roles and functions of Maa Foundation (Social Institution)
3. To Develop empathy and understanding of diverse social backgrounds.
4. To Gain insight into how nurses can collaborate with such institutions to deliver holistic care.



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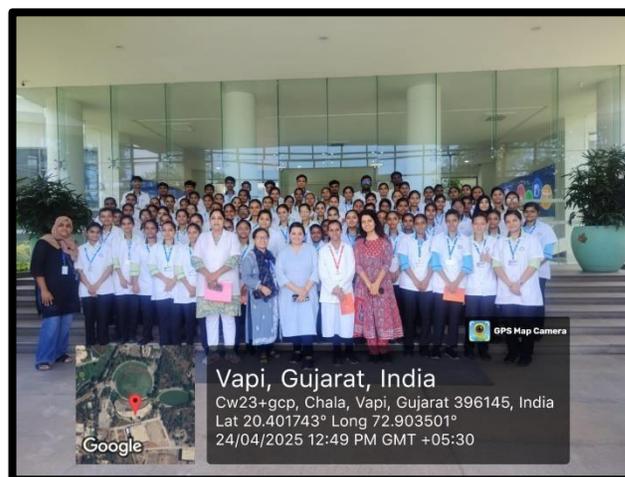
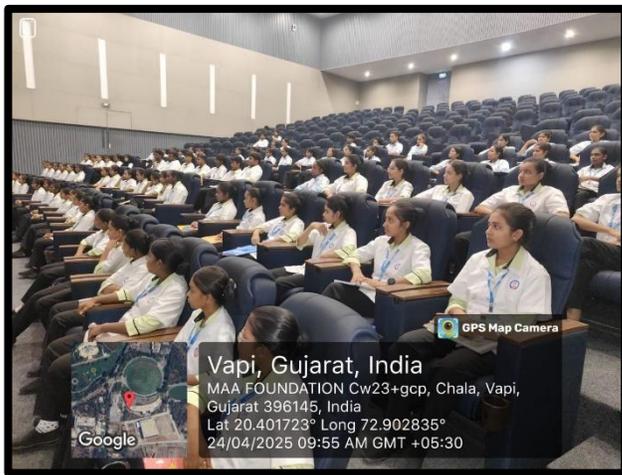
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REPORT

As a part of academic requirements, I Mrs. Sheetal M K, Nursing Tutor and Subject In-Charge of sociology, has planned an educational visit to Maa Foundation Vapi. It provides scholarship for those students, who are both, deserving and economically background (needy) seeking admission for higher educational professional courses, in any Govt, recognized institutions. And it also works as NGO.

The visit was informatic. They gave orientation & counselling session to the students. Merit tour was provided to all. Students gain knowledge regarding social institutions. Complementary high snacks were provided to all.

The event was organized under the **guidance of and Prof. Mr. Samuel Fernandis, Principal and Mrs. Sheetal M K, Nursing Tutor S.S.C.N. Vapi.**





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VISIT REPORT

ON

Department of Microbiology Laboratory, Blood Bank and Pathology Laboratory, G.M.E.R.S.

Date: 31st January 2025

Place: Department of Microbiology Laboratory, Blood Bank and Pathology Laboratory, G.M.E.R.S. Medical College, Valsad

Batch: B.Sc. Nursing Semester III

Number of Students: 55 Students

Accompanied by: 2 Faculty Members

An educational visit to the Department of Microbiology Laboratory, Blood Bank and Pathology Laboratory of G.M.E.R.S. Medical College, Valsad was organized by Sandra Shroff College of Nursing, Vapi for B.Sc. Nursing Semester III students during the academic year 2024–2025. Prior permission for the visit was obtained from the Dean, G.M.E.R.S. Medical College, Valsad. The visit was planned as part of the academic curriculum to enhance students' practical knowledge and clinical exposure.

A total of 55 B.Sc. Nursing Semester III students accompanied by two faculty members participated in the visit. The visit aimed to provide students with firsthand exposure to microbiology laboratory procedures, blood bank functioning and pathology diagnostic services, thereby strengthening the theoretical knowledge gained in classrooms.

During the visit, students were oriented to the vision, mission and objectives of the Microbiology Department. They were explained various sections of the laboratory, including specimen collection, processing and reporting. Demonstrations were given on different diagnostic tests such as staining techniques, culture methods, sensitivity testing and infection control practices. Emphasis was laid on biosafety measures, sterilization techniques and prevention of hospital-acquired infections.

In the Blood Bank, students were introduced to blood grouping, cross-matching procedures, donor screening, storage of blood and blood components, and transfusion safety protocols. The importance of maintaining proper documentation, cold chain management and ethical considerations in blood transfusion services was explained in detail.

The Pathology Laboratory visit included demonstrations of hematological investigations, biochemical tests and histopathological procedures. Students gained knowledge about sample handling, quality control measures and interpretation of common laboratory investigations. Hospital waste management practices followed in the laboratories were also explained, highlighting segregation, disposal methods and adherence to biomedical waste management rules.

This educational visit provided valuable practical exposure and helped students correlate theoretical concepts with real-life laboratory practices. It enhanced their understanding of diagnostic services,



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infection control, professional ethics and patient safety. Overall, the visit was highly informative and beneficial, contributing significantly to the professional development of nursing students.

The institution expresses sincere gratitude to the Dean and staff of G.M.E.R.S. Medical College, Valsad for granting permission and extending their cooperation for the successful completion of the educational visit.



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Report on Visit to Old Age Home (Adhar Trust)

SANDRA SHROFF COLLEGE OF NURSING, VAPI

Batch : 1st Year M.Sc. Nursing, 2nd Year B.Sc. (4th sem) & 2nd Year GNM (Batch 2025–2026)

Date of Visit: 6th June 2025 (Saturday)



INTRODUCTION:

As part of the 1st Year M.Sc curriculum, a clinical visit was organized to Adhar Trust Old Age Home, Vapi. This educational visit provided valuable exposure to the healthcare needs and psychosocial conditions of elderly individuals living in institutional care. It was a crucial learning experience to understand the multifaceted aspects of geriatric nursing.

OBJECTIVES OF THE VISIT:

General Objectives:

1. To understand the healthcare needs of elderly residents in an old age home.
2. To observe the role of medical-surgical nursing in geriatric care.
3. To explore common health issues, preventive care, and rehabilitation strategies for older adults.

Specific Learning Objectives:

1. Understanding Geriatric Care in an Old Age Home.
2. Learn about the physical, psychological, and social needs of elderly residents.
3. Identify age-related health conditions such as arthritis, hypertension, diabetes, dementia, and osteoporosis.
4. Observe the nursing role in elderly care, including palliative and end-of-life care.



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5. Learn about the prevention and management of common geriatric issues.
6. Understand psychosocial and emotional well-being.
7. Study the involvement of family and caregivers.
8. Understand ethical and legal considerations in elderly care.

SELECTION OF VISIT AREA:

Adhar Trust Old Age Home was chosen due to its reputation for quality geriatric services in the Vapi region. It is known for holistic care and provides a realistic learning environment for nursing students.

ORGANIZATION STRUCTURE:

The organization operates under the trust named "Adhar Trust." It is managed by a team of administrators, medical officers, nurses, social workers, and support staff. The hierarchy ensures smooth coordination among departments like medical care, administration, nutrition, and recreation.

PHYSICAL FACILITIES:

The facility includes:

1. Separate male and female rooms.
2. Common dining and recreational areas.
3. Well-maintained gardens for physical activity.
4. Medical check-up room and pharmacy.
5. Basic physiotherapy equipment.
6. Clean and hygienic sanitation facilities.

FUNCTIONING:

1. The home functions 24/7 and offers:
2. Routine medical check-ups.
3. Medication administration.
4. Individualized care plans.
5. Nutritional meals as per medical needs.
6. Recreational and spiritual activities.
7. Emotional support and counseling.
8. Emergency healthcare services and referrals.



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STAFFING:

Staff includes:

1. 1 Medical Officer (Doctor)
2. 4 Registered Nurses
3. 2 Physiotherapists
4. 2 Social Workers
5. 6 Caregivers
6. 1 Counselor
7. Administrative and housekeeping staff

All staff is trained in geriatric care and contributes to a supportive and respectful environment for the residents.

OBJECTIVES MET:

1. We observed common age-related conditions and nursing interventions.
2. Understood the structure and functioning of an old age home.
3. Interacted with residents and understood their emotional and social challenges.
4. Observed the role of nurses in managing chronic diseases and end-of-life care.
5. Identified preventive and rehabilitative strategies used in elderly care.
6. Gained insight into ethical and legal aspects of elderly care.

CONCLUSION:

The visit to Adhar Trust Old Age Home was an enriching experience. It strengthened our understanding of geriatric nursing and sensitized us to the needs of the elderly population. It also enhanced our awareness of the responsibilities of nurses in providing holistic and empathetic care to older adults.



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SANDRA SHROFF COLLEGE OF NURSING, VAPI



INTRODUCTION

As a part of Community Health Nursing- I Requirements we visited water purification plant, Vapi on 03/05/2025 at 10:00 am. The total students was 56 B. Sc. Nursing (5th SEM) and were accompanied two faculty members Mrs. Suparna Chakraborty and Mrs. Hetal Patel. Students learn about different methods of water purification plant.

The following are the following of the visit:



Objectives:

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1. To understand the purification of water—how raw water is treated and made safe for drinking.
2. To learn about infrastructure and staffing pattern.
3. To study various techniques like filtration, sedimentation, chlorination, and reverse osmosis.
4. To learn about water quality standards.

ACTIVITY DURING FIELD VISIT:

Water purification plants are essential facilities that ensure safe drinking water for communities. This water purification plant is run by Municipal Corporation, Vapi.

The following methods are used for the water purification.

- Collection
- Coagulation
- Flocculation
- Chlorination
- Filtration
- Disinfection

This visit started from the initial where the waste water of city and raw water which come from the river “Daman Ganga”. After then many processes are doing by the different machines. A water purification plant is a facility designed to remove impurities and contaminants from water sources, making it suitable for human consumption or industrial use.

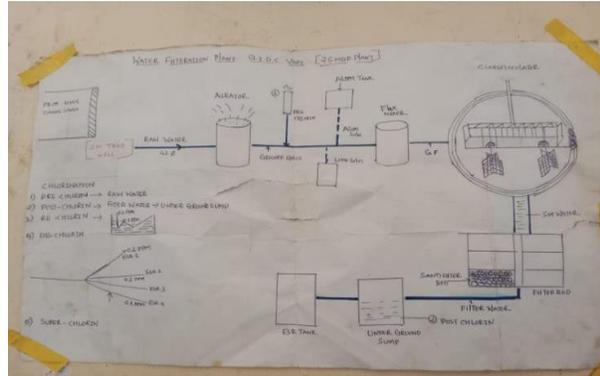




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These plants employ various processes such as sedimentation, filtration and disinfection to ensure the water meets safety standards.



The source of raw water is from the Daman Ganga river and its storage is in a tank or well, which serves as the raw water input for the treatment plant.

Tank or well – The raw water may be temporarily stored in a tank or well upon reaching the treatment plant. This storage helps in managing fluctuations in water flow and ensures a steady supply to the treatment process.





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Oxidation :-Dissolved metals such as iron and manganese can oxidize from their soluble forms to insoluble forms, Gas Removal Aeration helps to remove gases such as hydrogen sulfide and methane, which can cause odor and taste issues in water.

1. pH Adjustment :-Aeration can also adjust the pH of the water by removing excess carbon dioxide, thereby stabilizing the pH level,

2. Lime Solution:-Adding lime solution in water treatment processes (lime usually in the form of calcium hydroxide, $\text{Ca}(\text{OH})_2$).Raw Water in Aerator When raw water is introduced into an aerator, it undergoes a process designed to improve its quality through aeration.) Introduction of Raw Water Raw water from the Daman Ganga river or any source is first brought into the aerator) Aeration Processing the aerator, the water is exposed to air or oxygen. Oxidation Dissolved metals such as iron and manganese can oxidize fromtheir soluble forms to insoluble forms.

3. Gas Removal :-Aeration helps to remove gases such as hydrogen sulfide and methane, which can cause odor and taste issues in water Adjustment Aeration can also adjust the pH of the water by removing excess carbon dioxide, thereby stabilizing the pH level.---Lime Solution Adding lime solution in water treatment processes (lime usually in the form of calcium hydroxide, $\text{Ca}(\text{OH})_2$).

4. Coagulation Lime can also act as a coagulant aid in water treatment. It helps in the formation of flocks during coagulation and flocculation process folcs are larger particles formed by the aggregation of smaller particles and impurities in the water, making them easier to remove during sedimentation and filtration stages.





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CHLORINATION

The chlorination is a methods of water purification, In that total 5 methods are using purify the water.

1. Pre-chlorination :It is adding of chlorine in water before coagulation and filtration.
2. Post chlorination:It is a process of adding the chlorine in the water after all other treatment process.
3. Re chlorination:
4. De-chlorination: It is a process of removing chlorine from the water.
5. Super chlorination: It is the process of applying high dose of chlorine to meet normal chlorine residual.

CONCLUSION

At the end of the field visit students gain knowledge regarding collection, filtration. Chlorination, sedimentation, orthotuludine test and distribution of water system



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SANDRA SHROFF COLLEGE OF NURSING, VAPI

DEPARTMENT OF COMMUNITY HEALTH NURSING

VISIT REPORT

ON

OLD AGE HOME (AADHAR TRUST, VAYASKA SAHAVAAS)

DATE: 3RD MAY 2025

“AADHAAR TRUST –VAYASKA SAHAVAAS”

Location: Dungri, Pariya road, Pariya high school, Tal. Pardi, Udvada Gujarat

Date of Visit: 03/05/2025 **Time:** 10:00 am

Name of Faculty involved: Mrs. Ashvini Patel and Mrs. Ketika Patel





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OLD AGE HOME

“Old age home is a Multi residence housing facility intended for senior citizen.”

We visited the Aadhaar old Age Home in Pariya as part of our requirements for Community Health Nursing- II, along with the 3rd year GNM students from Sandra Shroff College of Nursing, Vapi.

INTRODUCTION

On 3rd May 2025 at 10:00 AM, we arrived with all the Third Year GNM students. Firsts, we gathered for a meeting where the head of the institution, Mr. Suresh Bhai, provided an introduction to their physical setup and the organizational facilities they offer.

OBJECTIVES OF VISIT:

- To explore out the physical set up of the institute.
- To find out the organizational structure of institute.
- To know the how service and facilities provided to them.
- To discuss about accommodation, food and recreational facilities provided to them.
- To learn about medical facilities provided to them.
- To make them happy and bring smile on their face.

The Aadhaar Trust is situated on 9 acers of land, with a total of 160 elderly residents living in the home. Later, he provided an orientation of the institution and introduced us to the members. The students interacted with the residents, discussing how they happily live there, how their needs are met, and how they enjoy the various activities.

Facility provided at the old age home:

➤ **Food facility:**

- The Aadhaar trust people making the food for the all old age people and separate kitchen is available for making the food.
- The kitchen was very hygienic.
- They are providing the morning breakfast, lunch, evening tea and dinner, the time was fix for lunch that is 12:45 pm.

➤ **Physical facility:**

- Good ventilated with 2 person sharing room is available.



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-All basic facility they are providing e.g. washing of cloth, cleaning etc.

➤ **Medical facility**

-One Medical officer also available for the 24 hrs. services.

-Monday and Friday one consultant doctor coming for checkup.

CONCLUSION

On 3rd May, 2025, the Third Year GNM students, along with two faculty members (Mrs. Ashvini Patel and Mrs. Ketika Patel), Visited the Aadhaar Trust Old Age Home with the support and Guidance of our In-charge Principal Dr. Anita Nawale Mam from Sandra Shroff Nursing Vapi., through this visit, the students gained knowledge about the structure of the Institution and the services provided to the residents.



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REPORT ON VISIT TO VEGETABLE MARKET AT VIBRANT MARKET, GIDC, VAPI ON 3RD MAY, 20





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INTRODUCTION

An educational visit was planned for the third year B.Sc.(N) students (5th sem) as a part of their curriculum. We as a group of 56 students and 2 faculty members went to Vegetable Market Visit on 3rd May, 2025.

OBJECTIVES

1. To discuss about the quality of and influences of vegetables
2. To learn about the types of food and methods of food collection, storage and supply of fruit and vegetables
3. To understand food supply chain
4. To observe availability, price and consumer demand fruits and vegetables
5. To find wide range of vegetables types and small vendor
6. To know about the food waste management system

LIST OF VEGETABLE.....

- ✓ Tomato.
- ✓ Turmeric.
- ✓ Potato.
- ✓ Mushroom.
- ✓ Watermelon.
- ✓ Muskmelon.
- ✓ Cauliflower
- ✓ Coconut.
- ✓ Mango
- ✓ Drumstick.
- ✓ Peas.
- ✓ Jackfruit.



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- ✓ Litchi.
- ✓ Ginger.
- ✓ Garlic.
- ✓ Cabbage.
- ✓ Kiwi.
- ✓ Banana.
- ✓ Spinach.
- ✓

OBSERVATIONS....

- 1) Quality of vegetables - We observed that the vegetables are conduct in form of bunch of bundles of vegetables, Vegetables is very fresh and its not supplying in single form they are supplying the vegetables in dozen form.
- 2) Types of food – Foods are in various types are there, in that food includes leafy green vegetables, root vegetables, cruciferous vegetables, and more
- 3) Method of food collection – Food sampling is the crucial process for assessing food quality and safety, often involving specific techniques like foraging, harvesting, Modern methods, food storage, food banks, food pantries
- 4) Storage of food – In a vegetable market, storing food requires a combination of methods to maintain freshers , leafy greens , mushrooms (stores in a paper bag to prevent moisture loos) , winter squash (store in a cool , dry , and dark place), onions and garlic, potatoes (store in a cool ,dry , and dark place.
- 5) Vegetable availability –We found that the availability of certain vegetables was seasonal , affecting the pricing and demand .
 - 1) Price of vegetables while observing –



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We observed different pricing strategies employed by vendors, including competitive pricing, premium pricing and bundle pricing. We also noted that impact of seasonal demand of pricing.

We observed various marketing strategies, including attractive displays, signage, and interpersonal marketing. Some vendors also offered free samples to attract customers.

Small vendor – We noted that vendors competed with each other in terms of pricing, quality, and marketing strategies.





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SANDRA SHROFF COLLEGE OF NURSING, VAPI

DEPARTMENT OF COMMUNITY HEALTH NURSING

VISIT REPORT

ON

TUBERCULOSIS CLINIC

DATE: 19TH MAY, 2025





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“ TUBERCULOSIS CLINIC ”

Location: District Hospital Chala, Vapi Gujarat

Date of Visit: 19/05/2025 **Time:** 11:00 am

Name of Faculty involved: Mrs. Ketika Patel

INTRODUCTION

As a part of our community health nursing curriculum, we visited district hospital/tuberculosis clinic on 19/05/2025. The purpose of the visit was to understand the diagnosis, treatment, and prevention of tuberculosis under the national tuberculosis elimination programme (NTEP).

OBJECTIVES OF VISIT:

- To explore out the physical set up and find out the organizational structure of institute.
- To understand the functioning of TB clinic, including registration, diagnosis, treatment and follow-up services.
- To gain knowledge of diagnostic procedure like sputum collection, chest X-ray and Mantoux test.
- To learn about the National Tuberculosis Elimination Programme (NTEP) and its implementation at the clinic.
- To understand the Directly Observed Treatment, Short Course (DOTS) strategy.
- To interact with TB patients and understand their experience.



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ACTIVITIES OBSERVED DURING THE VISIT

- Registration and patient history-taking.
- Categorization of patients (DS-TB, MDR-TB).
- DOTS provider's role in daily drug administration.
- Patient education and counselling .
- Record maintenance and follow-up procedures.

CONCLUSION

The field visit to the TB clinic was highly informative and valuable in bridging the gap between theoretical knowledge and practical application. It helped us appreciate the multidisciplinary approach in TB management and the critical role that nurses play in the successful implementation of the TB control program.



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SANDRA SHROFF COLLEGE OF NURSING, VAPI

DEPARTMENT OF COMMUNITY HEALTH NURSING

VISIT REPORT

ON

INTEGRATED CHILD DEVELOPMENTAL SERVICES CHILD

DEVELOPMENT PROJECT OFFICER (CDPO) OFFICE DATE: 4th

June , 2025





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“INTEGRATED CHILD DEVELOPMENTAL SERVICES CHILD DEVELOPMENT PROJECT OFFICER (CDPO) OFFICE”

Location: Balitha , Vapi Gujarat

Date of Visit: 04/06/2025 **Time:** 11:00 am

Name of Faculty Involved: Mrs. Ketika Patel

INTRODUCTION

An educational visit was planned for the third year GNM students as a part of their curriculum. We as group of 16 students and faculty member went to ICDS (CDPO) Office visit on 4th June 2025.

OBJECTIVES OF VISIT:

- To know the organizational structure of ICDS system.
- To understand the goals and functioning of the Integrated Child Development Services ICDS scheme.
- To gain knowledge about various services provided under ICDS such as supplementary nutrition ,immunization, health check -up referral services ,pre-school education and health and nutrition education.
- To observe record keeping, reporting system and monitoring tools used in ICDS office.





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OBSERVATIONS DURING THE VISIT

1. ICDS Infrastructure

- Office setup with supervisory staff and record-keeping systems
- Communication with health departments and block offices

2. Records and Registers

- Growth monitoring charts
- Immunization records
- Supplementary nutrition distribution register
- Home visit records
- Monthly and quarterly reports

3. Staff Interacted With

- Child Development Project Officer (CDPO)
- Supervisors

CONCLUSION

The visit to the **ICDS office** was an enriching experience that provided a practical understanding of child development programs and public health administration at the block level. It strengthened our knowledge of how nurses, especially in community settings, play a vital role in promoting and supporting government health initiatives.



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INDUSTRIAL VISIT REPORT

SANDRA SHROFF COLLEGE OF NURSING, VAPI



REPORT: CETP VISIT REPORT. VENUE: VAPI GREEN ENVIRO LTD-

CETP DATE: 17/05/2025.





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INTRODUCTION:

Water pollution due to industrial effluents is a growing concern in developing countries like India. To mitigate the adverse effects of untreated industrial wastewater on the environment, the concept of Common Effluent Treatment Plants (CETPs) was introduced. CETPs are designed to treat effluents from multiple small and medium-scale industries that cannot afford individual treatment plants.

This report outlines the observations and learnings from a visit to a CETP located in

VAPI, conducted on 17-05-2025, as part of our community health nursing requirements.

This visit was done under the guidance of DR. ANITA NAWALE (VICE PRINCIPAL), MRS SUPARNA CHAKROBORTY (ASSOCIATE PROFESSOR) and MRS HETAL PATEL (ASSISTANT PROFESSOR) for 3RD YEAR BSC NURSING (SEM-5)

OBJECTIVES:

The following are the objective of CETP visit:

- To understand waste segregation as per category.
- To learn about sewage disposal and effluent management.
- To gain knowledge about primary treatment

e.g sedimentation, biological treatment, filtration and disinfection.

- To learn about safety and hygiene measures.

CETP!!!

Vapi CETP is a conventional plant consisting of physical, chemical, biological treatment. An outline of plant design is given in figure. The plant receives combined wastewater, consisting of both domestic and industrial waste from the various industries in the area. The waste water generated by all industrial units is conveyed to CETP through an underground pipeline network.



PRIMARY TREATMENT:

- Primary Treatment



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The main incoming chamber receives the influent from where it goes to coarse screen chamber for removal of large floating particles, plastics. After the coarse screen the effluent then moves to automatic fine Screen chamber.

- Automatic Fine Screen

The fine screening is done by automatic screening system. The fine screens are capable of handling solids up to size of 4mm. The scum gets collected automatically in the waste bins.

- Grit Chamber

The next stage of treatment is done in de-gritter units where the sand grit particles are removed through grit classifier. The purpose of grit removal is to remove the heavy inorganic solids which cause excessive mechanical wear. Grit is heavier than organic solids and includes, sand, gravel, clay, metal filings, seeds, and other similar materials.

- Equalization Tank

The equalization tanks are there to equalize the temperature, quality and flow rate of the water. Equalization is a process to equalize wastes by holding waste streams in a tank for a certain period of time prior to treatment in order to obtain a stable waste stream that is easier to treat. Equalization helps in mixing smaller volumes of concentrated wastes with larger volumes at lower concentrations. It also controls the pH to prevent fluctuations that could upset the efficiency of treatment system, by mixing acid and alkaline wastes.

Equalization tanks are equipped with coarse diffused system that helps not only in proper mixing of waste water but also prevents suspended solids from settling to the bottom of the unit.

- Flash Mix & Flocculator

The effluent is then pumped into flash mixer and flocculator tanks where dosing of Aluminum chloride and polyelectrolyte is done respectively so to coagulate and flocculate the solids before going into primary clarifier.

- Primary Clarifier

The overflow from flash mixer and flocculator then by gravity flows into primary clarifier where the settling takes place. The sludge is scrapped from the bottom into sludge collection tank and is then pumps to sludge thickeners. The overflow from primary clarifier flow into aeration tanks and part of the waste water is being fed to UASBs. A typical sedimentation tanks may remove from 70 to 80 percent of suspended solids, and from 15 to 25 percent of biochemical oxygen demand (BOD) from the waste water.

SECONDARY TREATMENT:



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Aeration Tank

Aeration tank consist of surface aerators. Here biological treatment take place and maximum reduction in terms of COD and BOD take places. Return Activated Sludge (RAS) is circulated in the system in order to maintain desired level of MLSS. Aerobic oxidation of organic matter is carried out in this tank.

Primary effluent is introduced and mixed with Return Activated sludge (RAS) to form the mixed liquor, which contains 4500–5500 mg/L of suspended solids. An important characteristic of the activated sludge process is the recycling of a large portion of the biomass. This makes the mean cell residence time (i.e., sludge age) much greater than the hydraulic retention time This practice helps maintain a large number of microorganisms that effectively oxidize organic compounds in a relatively short time..

- UASB Reactors (Up Flow Anaerobic Sludge Blanket)

Overflow from primary clarifier, concentrated waste water from dewatering units and partial condensate from CMEE are taken in to UASB reactor for anaerobic digestion the flow is pumped in to the reactor in upward flow and over

flow from the top is been taken back in to the equalization tank for further aerobic treatment. As it is an anaerobic digestion methane gas is obtain from the reactor

and is currently flared but shall be used as resource for generating power in

future. The UASB reactor is a methanogenic (Methane producing).UASB uses an anaerobic process whilst forming a blanket of granular sludge which suspended

in the tank. Waste water flows upward through the blanket and is processed (degraded) by anaerobic microorganisms. The upward flow combine with settling action of gravity suspends the blanket with aid of flocculants.

- Secondary Clarifier

From aeration tank the effluent, partially by gravity and partially by pumping

taken in to secondary clarifier. Dosing of aluminum chloride is done in the clarifier and the sludge is scrapped form the bottom and the overflow go to final outlet.

- Sludge Handling

Sludge from primary clarifiers and Waste Activated sludge from RAS pumping is collected into sumps from where it is pumped to thickeners. The thickened sludge is then pumped to decanters. The solid cake is bagged in to used HDPE bags and stored at SDBs and Interim sludge storages for removal of leachate and sun drying. The bagged sludge is being sent for land filling at TSDF –Vapi. Overflow of the thickeners and leachate from decanter goes to filtrate tank which is again brought back into system. Sludge from UASB & RAC is also dewatered through Decanters.



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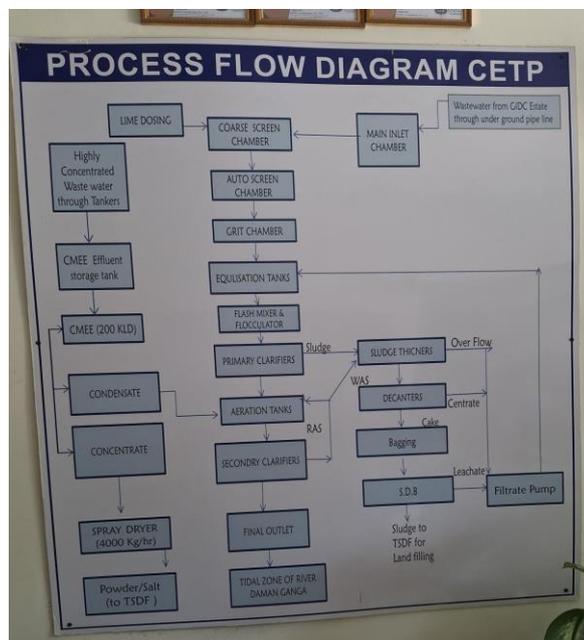
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SDB/Interim Storages

The bagged sludge from decanter house is being stored in SDBs and Interim

storages for removal of leachate and sun drying. The leachate generated is taken back to the system for treatment.

PROCESS OF CETP IN FLOWCHART



CONCLUSION:

The visit to the CETP was an eye-opener, offering valuable insights into how industrial wastewater is treated on a large scale. It highlighted the importance of collective responsibility in managing water pollution and the critical role such facilities play in environmental protection. This experience enriched our understanding of wastewater engineering and environmental management



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SANDRA SHROFF COLLEGE OF NURSING, VAPI



REPORT ON
VISIT TO VASUDHARADAIRY
AT CHIKHILI
ON 10th MAY, 2025





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INTRODUCTION

An Educational visit was planned for the 3rd Year B.sc nursing (sem-5) students as a part of curriculum. We as a group of 56 students and 2 faculty members went to Vasudhara dairy visit on 10th May, 2025. To learn about process of packaging and distribution of milk and Milk products.

1. To learn about quality control protocol implemented to ensure product safety.
2. To study the chain of milk collection to the distribution of Milk products to consumers.
3. To see production of different types of milk dairy product or manufacture products.
4. To learn about milk pasteurization.





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LIST OF DAIRY PRODUCTS MADE IN VASUDHARA DAIRY:

- Amul Gold milk
- Amul Shakthi milk
- Amul Taaza milk
- Amul masti spiced Buttermilk
- Amul Buttermilk
- Amul Masti Dahi
- Amul Cow Ghee
- Amul Butter
- Amul Cheese
- Ice creams



OBSERVATION

1. Milk Collection:

- Milk was collected from local farmers and transported in insulated tankers.
- Quality was tested for fat content and contamination before acceptance.

2. Pasteurization Process:

- Employed HTST (High-Temperature Short-Time) method at 72°C for 15 seconds.



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- Ensured elimination of harmful microorganisms without affecting nutritional value.

3. Product Processing:

- Products included milk, curd, paneer, butter, ghee, flavored milk, and ice cream. Different departments handled separation, fermentation, and homogenization.

4. Hygiene and Sanitation:

- Workers wore caps, gloves, and masks.
- Equipment was sterilized regularly.
- Proper waste management and clean water supply observed.

5. Packaging and Storage:

- Automated filling and packaging machines used
- Products stored in cold rooms to maintain freshness.

6. Quality Control:

- Regular microbiological and chemical testing done.
- Samples were taken at each stage to ensure safety.

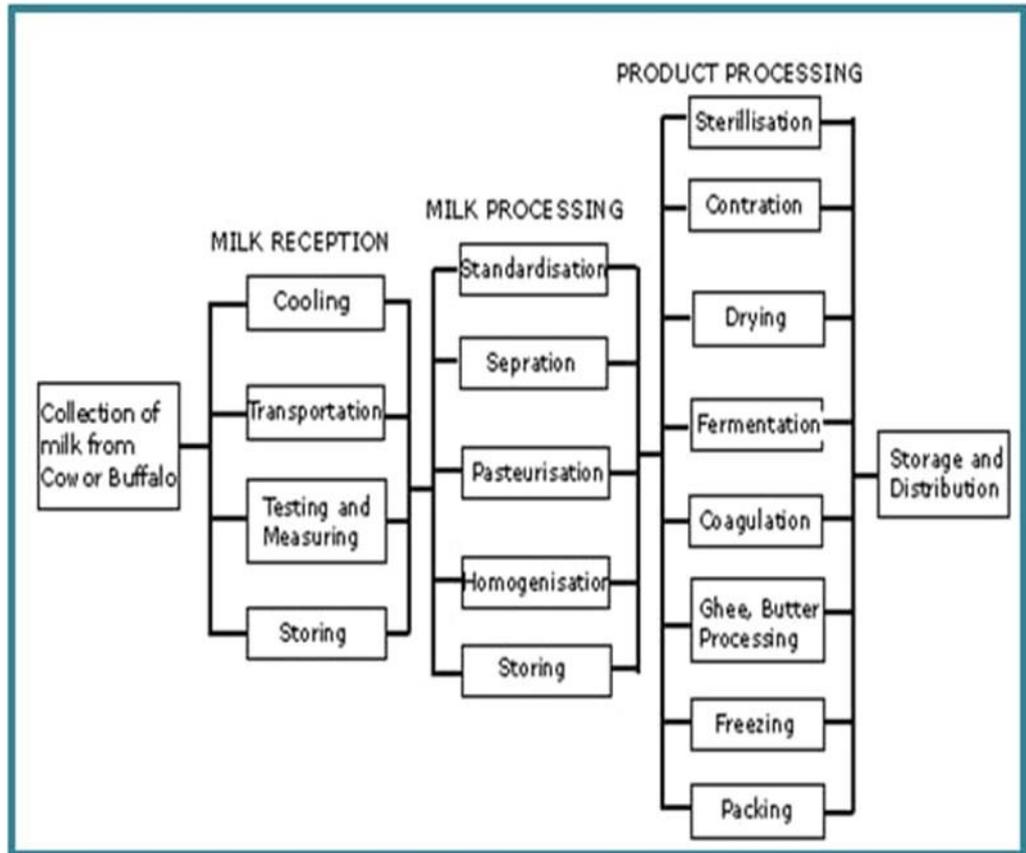
7. Distribution :

Products distributed via cold chain logistics to various retail outlets and stores.



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RECOMMENDATION

- Regular audits for hygiene compliance.
- Awareness programs for farmers on milk hygiene.
- Expansion of flavored milk and probiotic product

CONCLUSION:

The /students of 3rd Year B.sc nursing along with guidance of 2 faculty members (Mrs. Hetal Patel & Mrs. Ashvini Patel) visited Vasudhara Dairy ,Chikhili with the support and guidance of VC Principal Dr. Anita Nawale.



Anita
Dr. Anita Nawale
I/C. Principal
S.S.C.N. VAPI