INTERNSHIP REPORT
ON

"CONSTRUCTION OF OVERHEAD WATER TANK UNDER JAL JEEVAN MISSION"

Submitted to-

MADHAV INSTITUTE OF TECHNOLOGY AND SCIENCE GWALIOR
(A govt. Aided Autonomous Institute under RGPV, Bhopal (M.P) Established in 1957)

IN PARTIAL FULFILLMENT FOR REQUIREMENT FOR THE AWARD OF THE DEGREE OF

BACHELOR of TECHNOLOGY
In
CIVIL ENGINEERING

2018-2022

Submitted By–

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CERTIFICATE

This is to certify that **DEVKI PRASAD PATEL, B. Tech (CIVIL Engineering),** student of **"Madhav Institute of Technology and Science, Gwalior (M.P)"** has completed his vocational training in PUBLIC HEALTH ENGINEERING DEPARTMENT PANNA, MP.

Project Title: Construction of Overhead Water Tank Under JJM.

Guide: Er. Gaurav Saraf (ASSISTANT ENGINEER)
Duration: 18th JANUARY 2022 - 20th MAY2022.

During the above period he has successfully completed the internship programme.

We found him sincere and hard working. We wish him all success in his future endeavors.

ASSISTANT ENGINEER
PHED SUB. DIV. PANNA

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PHED DIVISION PANNA (M.P)

RECOMMENDATION

It is hereby recommended that the internship report entitled — Construction of overhead water tank under jal Jeevan mission which is being submitted by Devki Prasad Patel completed under the guidance of Dr. Prachi Singh may be accepted in the partial fulfillment of the award of the degree of Bachelor of Engineering in Civil Engineering.

Prof. and Head
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HEAD
Civil Engg. Deptt.
M.I.T.S. Gwalior.

Guided by
06/06/22
Dr. Prachi Singh
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ACKNOWLEDGEMENT

First, I would like to thank Mr. Gaurav sir, SDO of PHE department Panna for giving me anopportunity to do the internship in the organization.
I would like to express my sincere gratitude to Mr. Arpit Tiwari Executive Engineer Who havegiven their valuable time and given me chance to learn something despite having their busy schedule.
The aim of this internship is to be familiar to the practical aspect and uses of theoretical Knowledge and clarifying the career goals, so I have successfully completed the internship andcompiled this report as the summary and the conclusion that have drawn from the internship experience.
I am eternally grateful to my renowned guide, Dr. Prachi Singh, Assistant Professor of CivilEngineering Department, MITS Gwalior.
Also, I would like to thank Dr. M.K. Trivedi, Head of Civil Engineering Department, MITSGwalior, and all other academics and staff members of MITS Gwalior's Civil Engineering Department for their unwavering support throughout the project.
The environment of company has been valuable experience for me. It has provided an Opportunityto learn at our own pace in discipline of interest. I would like to thank all those who helped me during different stages of completion of this project.

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ABSTRACT

All the requirement of world are depend on water according to the some reports Ground water level is depleted day by day and need of water is increasing day by day, The vision of PHE department to provide pure drinking water facilities and maintain them to providepure drinking water free of any animalities as improved portable water supply and sanitation facilities and services are critical to enhance public health and improve human development outcomes,more so for rural household.

The overhead water tank are constructed by the PHE department which have the capacity according to their size of upper dome which may be 2.6 lakh litre but not at least 50,000 liter, and they are made up of Reinforced cement concrete in which mostly m30 mixture is used Before taking up the design, the most suitable typeof staging of tanks and correct estimation of loads including statically equilibrium of structure particularly in regards to overturning of overhanging members are made.

In this project by calculating the population of village and waterdemand of present situation and future aspects capacity of overhead R.C.C. water tank is analyzed.

ABSTRACT

कुछ रिपोर्टों के अनुसार दुनिया की सभी आवश्यकताएँ पानी पर निर्भर हैं भूजल का स्तर दिन-ब-दिन कम होता जा रहा है और पानी की आवश्यकता दिन-ब-दिन बढ़ती जा रही है, पीएचई विभाग की दृष्टि शुद्ध पेयजल की सुविधा प्रदान करने और उन्हें शुद्ध पेयजल प्रदान करने के लिए बनाए रखने के लिए है। बेहतर पोर्टेबल जलापूर्ति और स्वच्छता सुविधाओं और सेवाओं के रूप में किसी भी पशु से मुक्त पानी सार्वजनिक स्वास्थ्य को बढ़ाने और मानव विकास के परिणामों में सुधार के लिए महत्वपूर्ण है, खासकर ग्रामीण परिवारों के लिए।

ओवरहेड पानी की टंकी का निर्माण पीएचई विभाग द्वारा किया जाता है जिसकी क्षमता उनके ऊपरी गुंबद के आकार के अनुसार होती है जो 2.6 लाख लीटर हो सकती है लेकिन कम से कम 50,000 लीटर नहीं होती है और वे प्रबलित सीमेंट कंक्रीट से बने होते हैं जिसमें ज्यादातर एम 30 मिश्रण का उपयोग किया जाता है डिजाइन को शुरू करने से पहले, टैंकों के सबसे उपयुक्त प्रकार के मंचन और भार का सही आकलन किया जाता है जिसमें संरचना के स्थिर संतुलन सहित विशेष रूप से ओवरहैंगिंग सदस्यों को उलटने के संबंध में किया जाता है। इस परियोजना में गांव की आबादी और वर्तमान स्थिति की पानी की मांग और ओवरहेड की भविष्य के पहलुओं की क्षमता की गणना करके आर.सी.सी. पानी की टंकी का विश्लेषण किया जाता है।

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CHAPTER-1
Introduction

The main responsibility of the Department of Public Health Engineering isto design, implement and maintain local and urban water supply and local sanitation systems. District-level management of the Faculty of Public HealthEngineering conducts field surveys, surveys, data collection, preparation, implementation, and program maintenance. The main purposes and responsibilities of the Faculty of Public Health Engineering are:

1. Design and implementation of water supply programs to provide adequate and safe drinking water to rural and urban areas.

2. Provide sanitary facilities to rural areas using appropriate low-cost techniques.

4. Water tanks are used to store water for many uses, drinking water, irrigated agriculture, fire protection, both crop and livestock agriculture, agriculture, chemical production, food cooking, and many other uses increase. Watertank parameters include the general design of the tank and the choice of construction materials and lining.

5. The PHE department has manufactured RCC overhead water tanks commonly used in water distribution systems based on steps. The minimum capacity of the overhead water tank is 50,000 liters, and the maximum capacity of the overhead water tank can be said to be large enough to be built around the maximum size under the dome, the cylindrical wall, and the upper dome.

Fig 1.1 Overhead Water Tank

1.1 ROJECT INTRODUCTION

Public Health Engineering-
The main work of the Public Health Engineer is to plan, executes & maintain Rural and Urban Water Supply Schemes, rural and urban sanitation schemes. The District Level administration of the Public Health Engineer undertakes Inspection of field investigation, data collection, surveying, preparation, execution & maintenance of schemes.

Work of PHE-
The duty of the Public Health Engineer is to provide the technical supports of water supply and sanitation including solid waste management schemes funded & recommended by union territories and state governments & local bodies for urban sector.

Aim of PHE-
Public Health Engineering(PHE) Department, implemented & executed drinking water supply schemes & to ensure to provides clean and potable drinking water

Fig 1.2 Measurement Of Beam

1.2 POPULATION

❖ **PRESENT POPULATION**

The population of the village as per census 2011 and the habitation wise estimated present population(year 2020) is as follows

S. no	Name of habitation	Population2011	House hold 2011	Population2020	House hold 2020
1	SENDAL	1918	197	2341	232

POPULATION FORECAST

District rural population decadal growth rate as per latest census to be considered for Population Projection. Therefore, for the district Indore rural declare growth rate 24.5 % (year 2001 to 2011) has been adopted for population projection and accordingly population projection has been worked out as follows

YEAR	Projected Population	Population of Main village	Population of Sub Village for standalonescheme
2020	2341	2341	0
2030	2811	2811	0
2040	3281	3281	0

1.3 WATER DEMAND ASSESSMENT

The calculations for water demand for different year is as follows

YEAR	POPULATION	WATER DEMANDPER CAPITA	WATER DEMAND IN KILO LIT
		LPCD	KL
2020	2341	70	164
2030	2811	70	197
2040	3281	70	230

1.4 THREE PHASE ELECTRIC CONNECTION

- Accordingly, it is necessary to provide a three-phase power connection from thenearest usage location to the source site.
- Pump house at source It is proposed to install a ready-made mini pump house (electric cabinet)underground
- Motor pump submersible pump for each tube well proposed Depending onthe required head and emissions.
- Pumphouse on the underground sump the pumphouse is proposed above the underground sump and the pump placement is proposed for watersupply or filling of overhead tanks.

Distribution network design the distribution network design was carried outusing the latest software, taking into account the average per capita supply of 70 LPCDs. For each zone, modeling scenarios such as peak demand and long-term simulations were simulated by ensuring a minimum residual pressure of 7m at each connecting node and the desired speed in the pipeline. The following table shows the zone net design results for pipe size and net length.A summary of the proposed grid pipeline is attached to the draft.

1.5 OPERATION & MAINTENANCE

Sustainable project is a long-term implementation and maintenance of theinstitutional plan, which includes additional revenue-generating revenue, which includes invoice collection and revenue collection, and strategies to

follow. I need a plan. Fees and restructuring are the most importantfactors of this project's sustainability.

CHAPTER - 2

2.1 Construction Of Bottom Slab

1. The bottom slab of the tank should be made of reinforced concrete in a ratio of 1: 1: 5: 3 (cement 1:coarse sand 1: 5: crushed stone 3, word size 20 mm).
2. The floor slab should be supported by suitable stone walls / reinforced concrete beams / folding steelprofiles and slightly tilted towards the outlet.
3. For size or combination of tanks other than those indicated above, construction details must beprovided to the building engineer.
4. If the slab is supported by reinforced concrete beams, it can be firmly supported or simply supporteddepending on the condition.
5. Ideally a slab with a loose base on the beam. To simply fix it, the surface of the stick should becovered with a layer of clean concrete and covered with a solid layer of lime mortar.

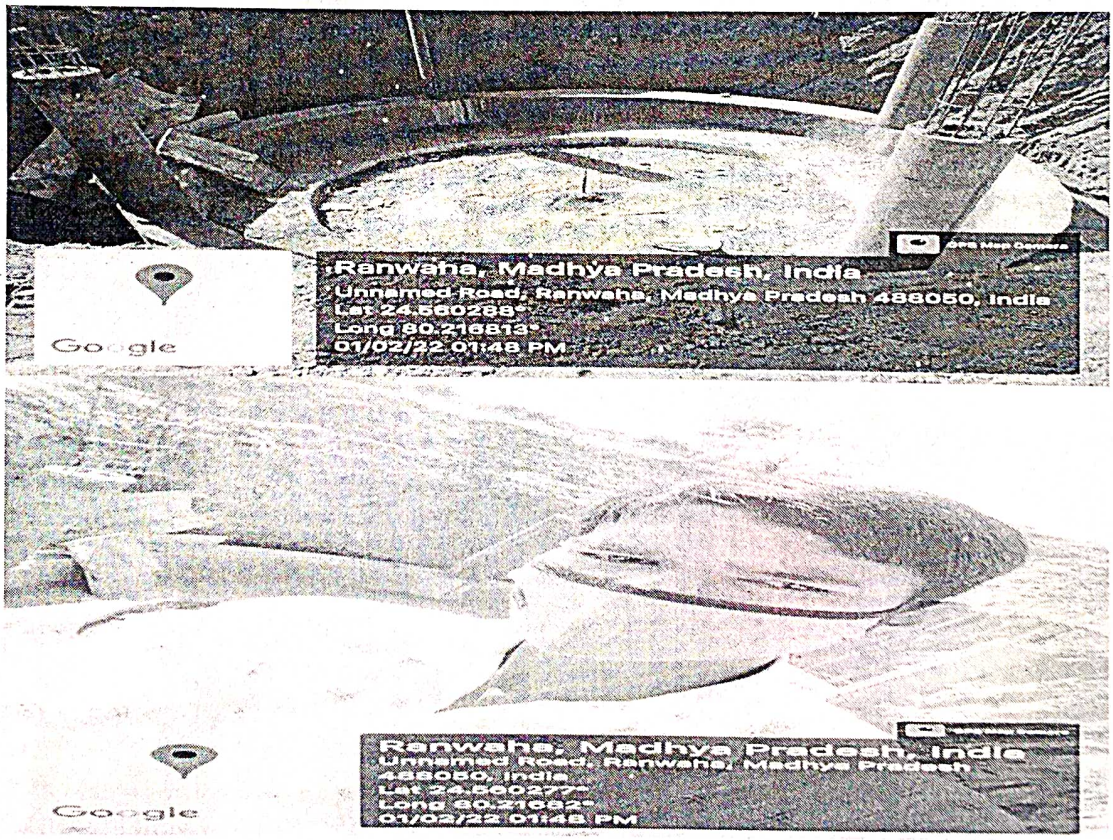

Fig.2.1 Bottom Slab

2.2 CONSTRUCTION OF WALLS OF TANK

The walls of the tank should be made of brick with grade 7.5H cement made of bricks 1: 3 (1 cement: rough sand 3).
The first step in building bricks should be laid immediately after the foundation of the slab foundation, i.e. while the concrete is burning, to ensure good adhesionand to prevent leakage or cracking.
Remaining bricks should be raised and finished within one week of laying theslab

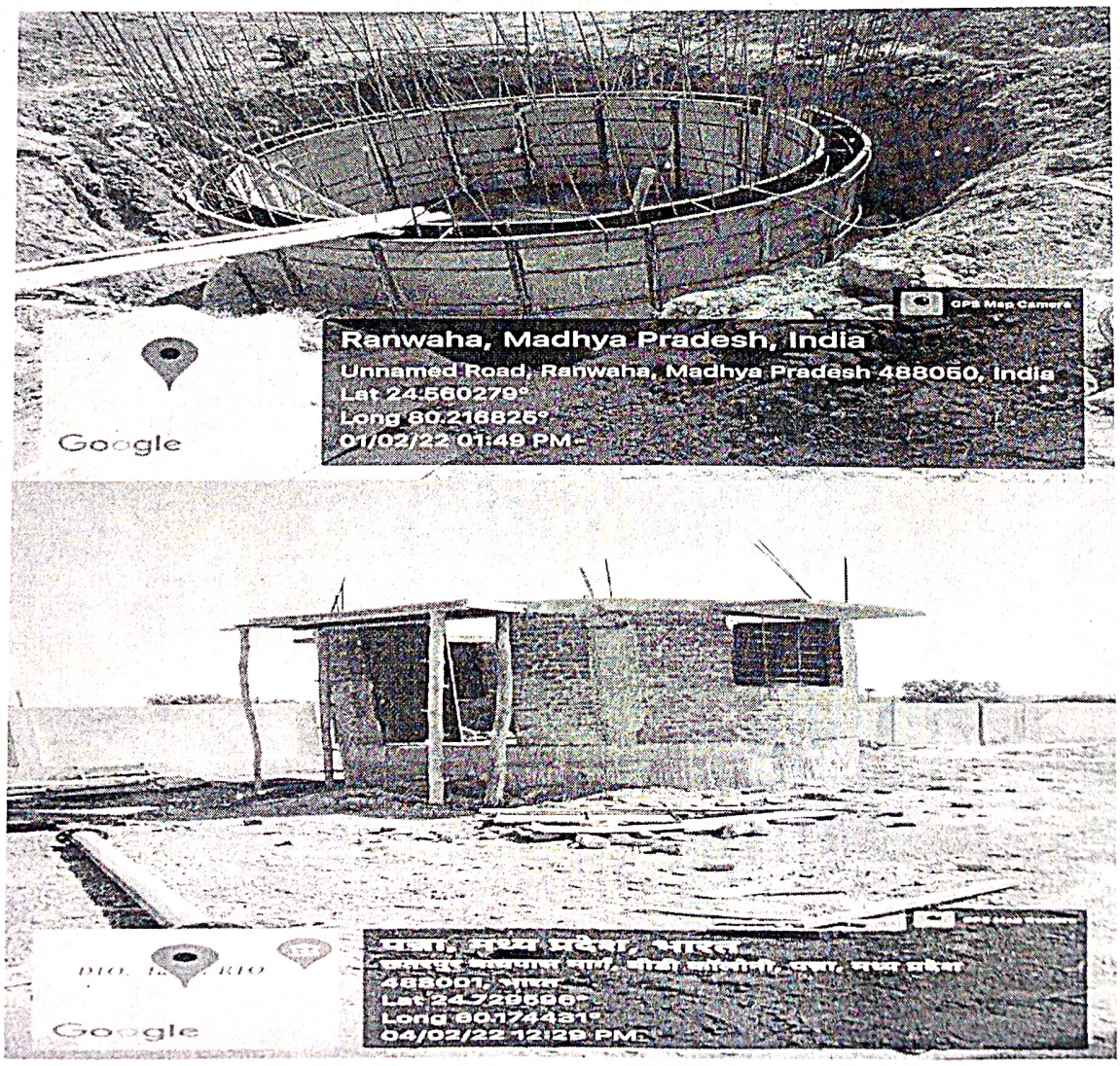

Fig 2.2 Wall Of Tank

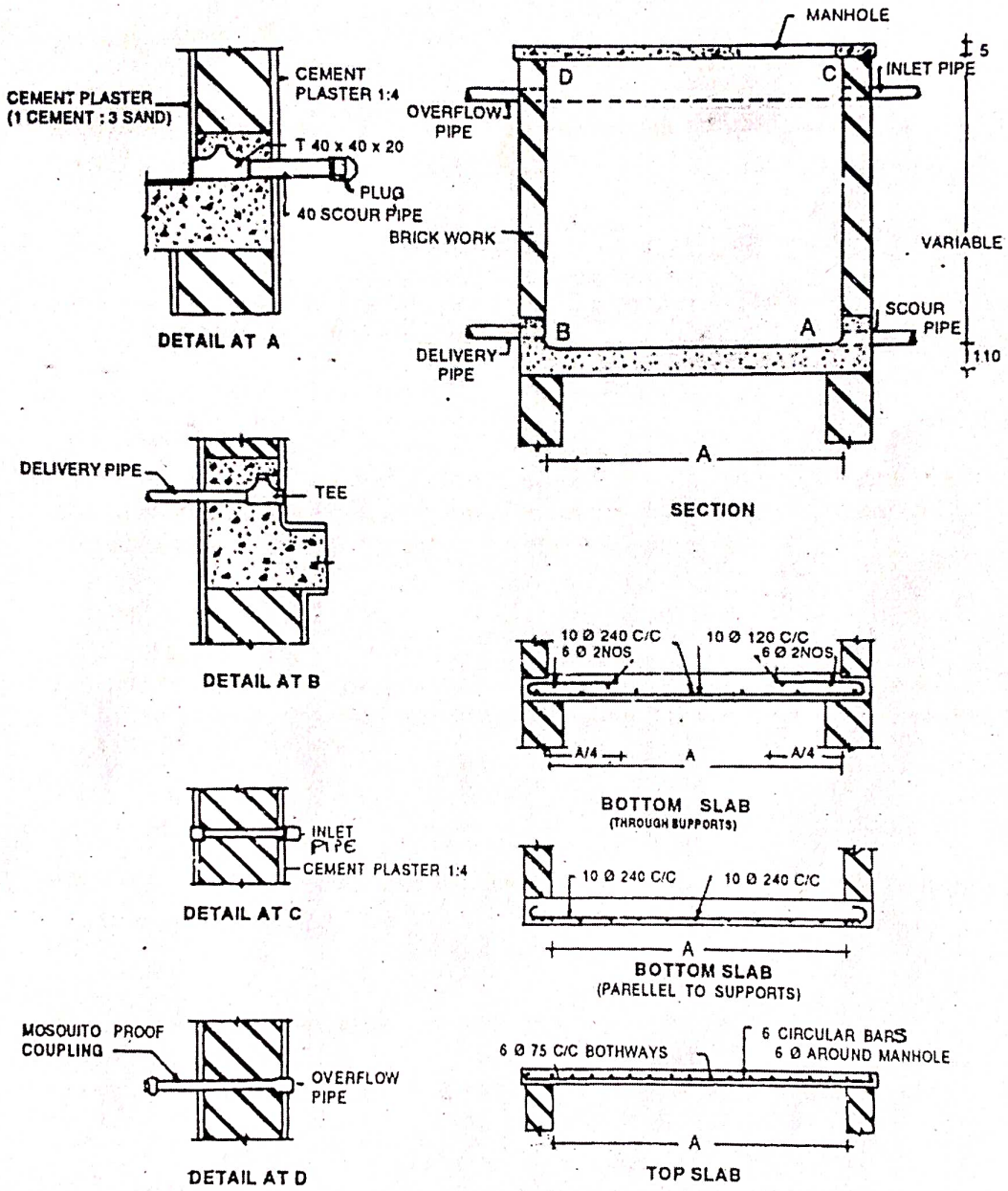

Fig 2.3 Plan Of overhead Tank

2.3 Installation of water tank

Recommended installation of stone tanks should be made of steel and should be equally acceptable in the following conditions:

A. Scour pipe

A 40 mm wide pipe is connected to a 40 mm 'T' pipe to prevent slipping, which will beinstalled inside the wall to act as a scrubber.

B. Deliver paper

The delivery pipe will be 20 mm dia connected to the 'T' to prevent slipping which should be stopped at least 30 mm above the bottom strike of the tank to prevent mud atthe bottom of the tank entering the pipe and congestion.

C. Overflow Pipe

The overflow pipe will be 25 mm, socket on the inner end, and will be mounted on the freeboard level of the tank in a convenient overflow area. The length of the pipe, including the socket, should be 30 cm.

D. Inlet Pipe

The inlet pipe should be of same size as socket on the inner end and socket or elbow on the outer end as required, which will be suspended at the freeboard level.

E. Combining Mosquito Evidence

Solid PVC mosquito compound or other suitable material with filter No. 725 dia. Theholes should be given in a drain mosquito's entry check into the tank.

F. Ball Valve

The ball valve must be securely fastened to the tank by the continuous pipe and adjusted to limit the water level in the tank to 25 mm below the overflow pipe.

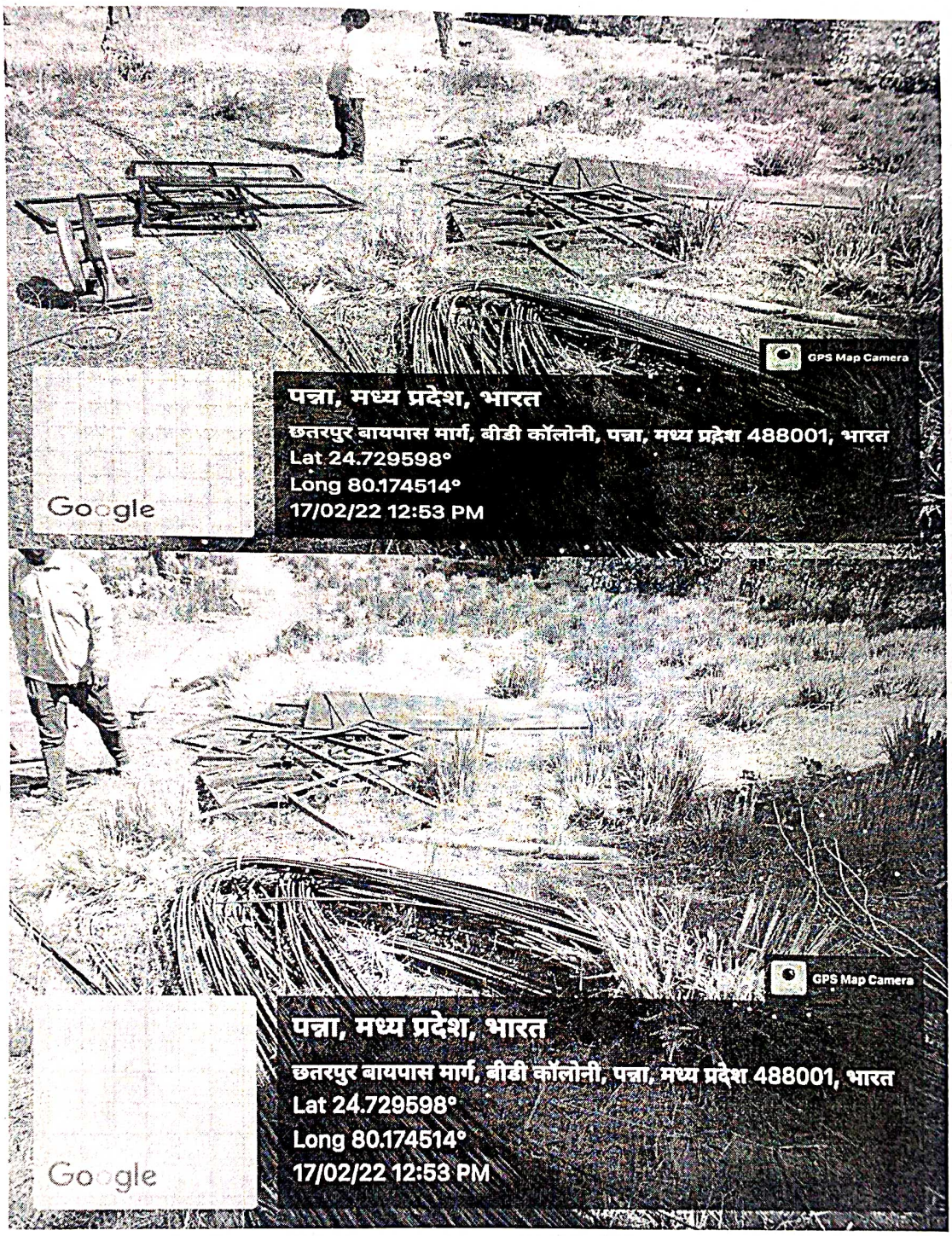

Fig 2.4 Reinforced

CHAPTER – 3

3.1 Plastering Of Brickwork

1. The base slab and side walls will be plastered inside with a 15 mm thick layer of 1 mm 3: 3.
2. Plastering work will be done within one week of the construction of the side walls.
3. The junction of the wall and the base slab inside and between the walls will be lined with mud 1: 3 to reduce water pressure in the joints.
4. All members of the inlet, delivery, drainage, and overflow pipes will be made to provide proof of complete leakage.
5. A clean cement punning coat will be installed in the cement over the walls and the base slab on the inner side of the tank.
6. The same should be done at the top of the tank to install concrete on the upper side.
7. The outer wall of the tank should be coated with a 12 mm thick layer of 1 mm 1: 4 (1 cement: 4 fine sand).

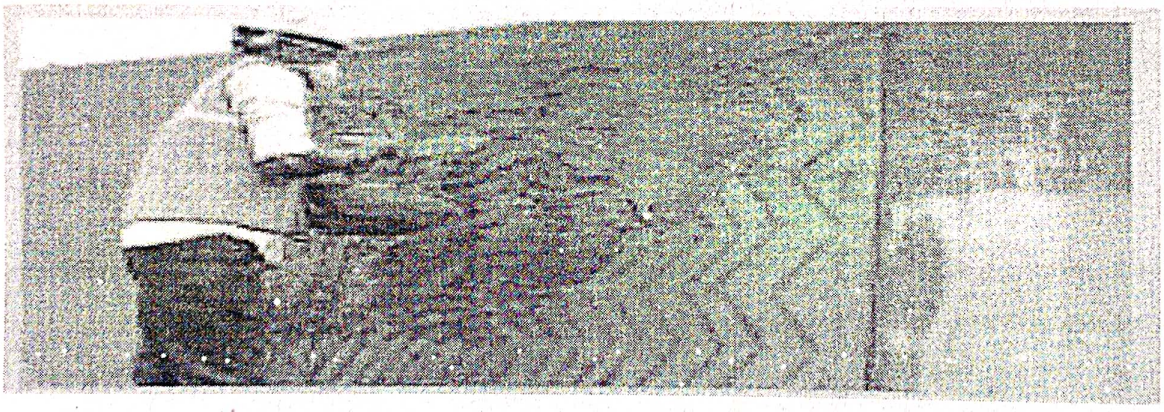

Fig 3.1 Plastering

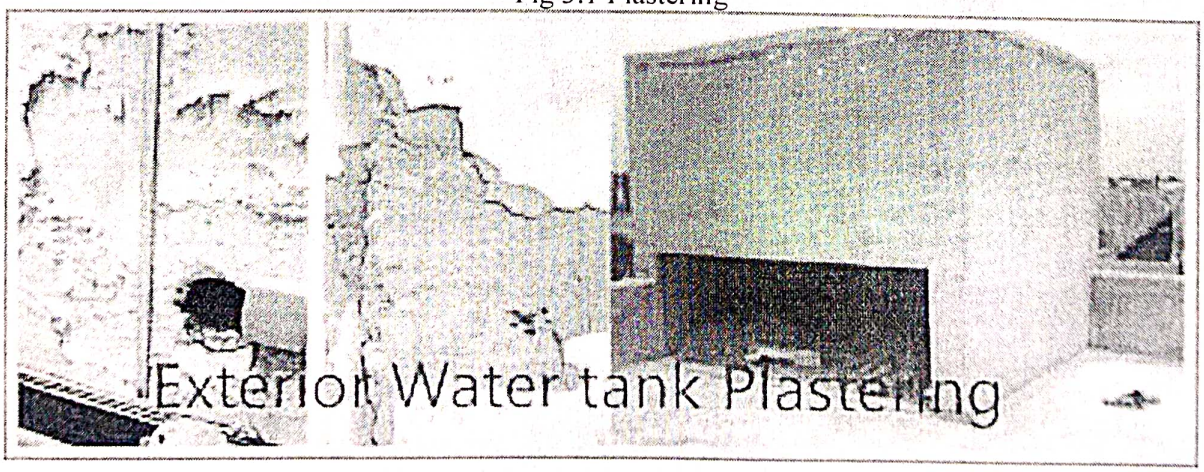

Fig 3.2 Exterior Water Tank Plastering

3.2 CURING OF RCC AND BRICKWORK

1. Healing of reinforced concrete blocks, stone blocks and gypsum should complywith the general cooling rules.
2. The tank should be filled in half the first day and filled the next day.
3. To prevent cracking of the concrete due to shrinking, water in the tank should be stored until the tank is used.

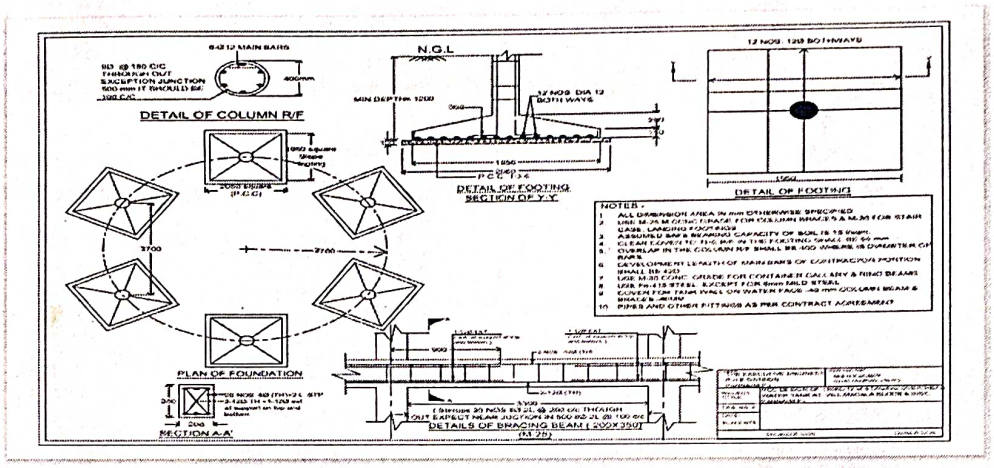

Fig 3.3 RCC Plan Work

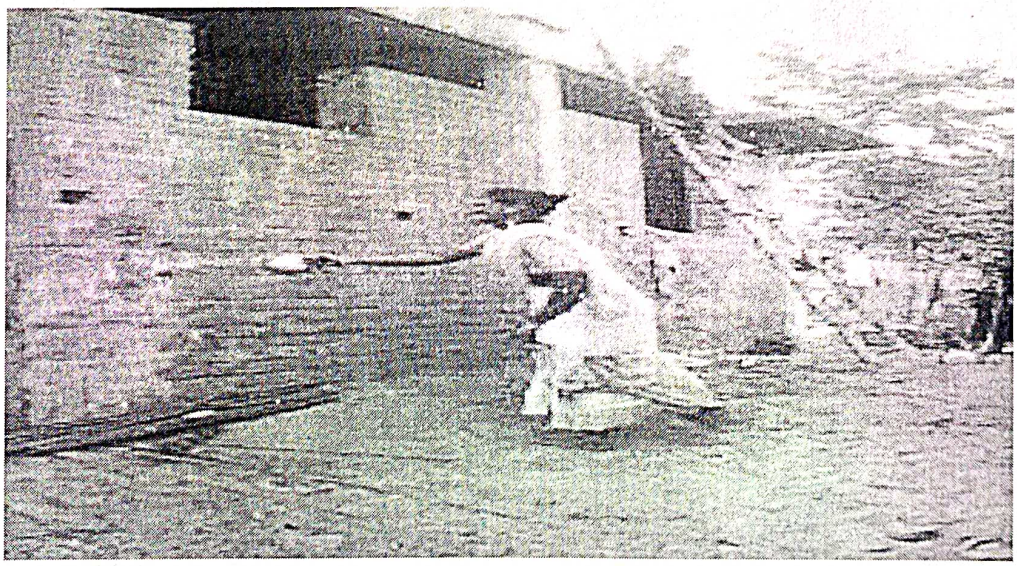

Fig 3.4 Curing of RCC and brickwork

CHAPTER – 4

4.1 CONSTRUCTION OF TOP SLAB

1. The top slab should be pre-reinforced precast cement of 1: 2: 4 mix, 5 cm thick.
2. The size of the top slab should be such that it continues 15 mm on all sides beyond the finished surface of the tank wall.
3. The surface of the slab mostly smoothed out during spraying
4. When casting the top slab, the frame of the hinged cover C. I. will be prepared in advance to be inserted into the concrete.

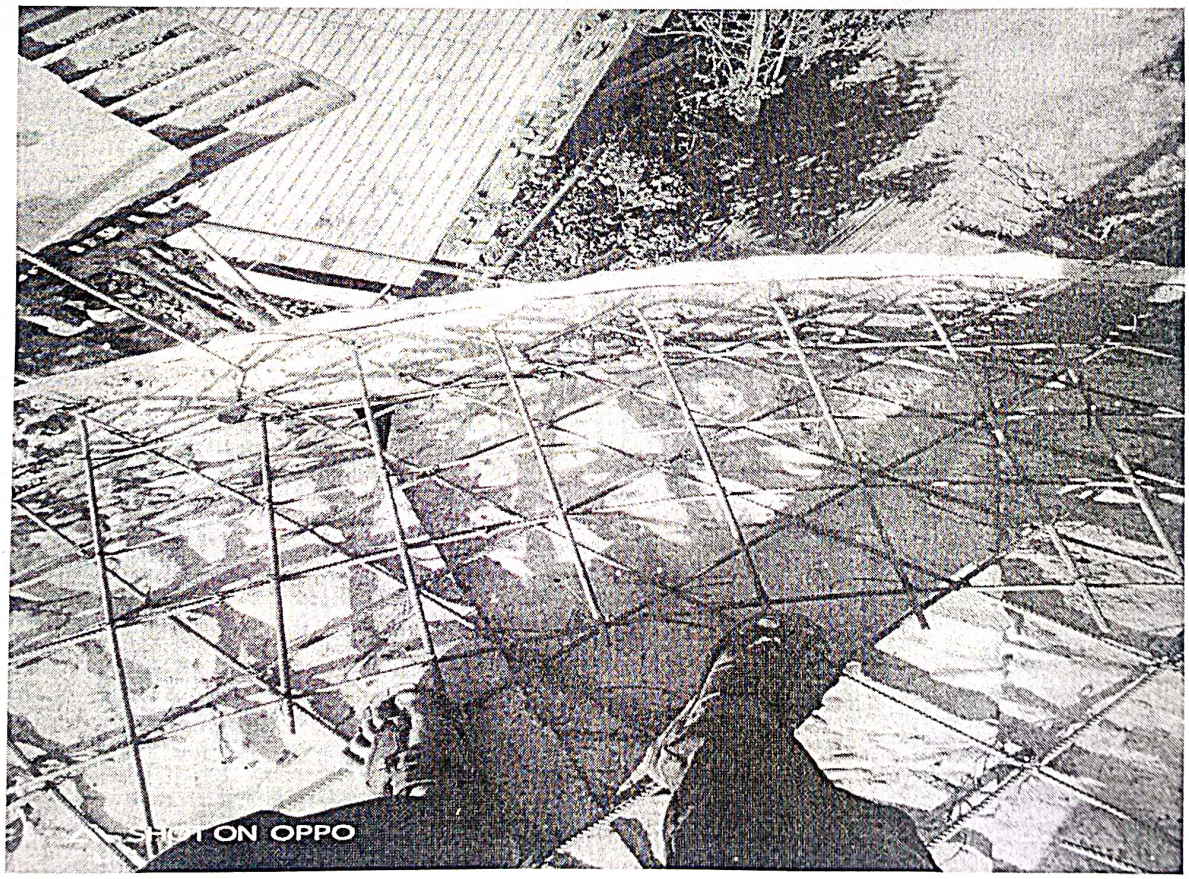

Fig 4.1 Construction of top slab

4.2 Testing Of Tank

1. Tanks should be tested for water quality when full

2. Test requirements are considered to be met if there are no signs of leakage on the outside and if it stays dry for 7 days after immersion 7 days after charging.

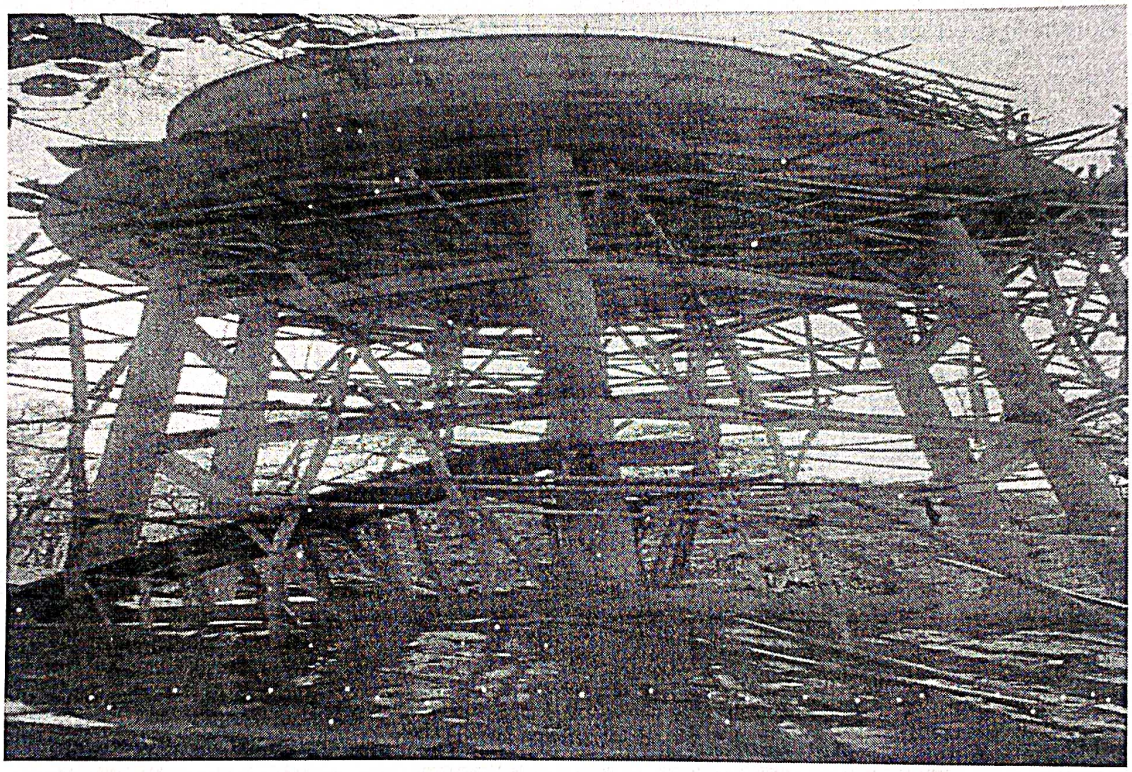

Fig 4.2 Testing of tank

CHAPTER – 5
Conclusion

- Reduction of threats to public health and increasing the level of the environmental safety is one of the priority trends for sustainable development.
- Genetic predisposition, lifestyle, physical training, etc. depend on the person himself.
- Clean environment, availability of good food, qualitative health care should be guaranteed by the state.

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Punctuality/Timely completion of assigned work				✓	✓
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Learning capacity/Knowledge up gradation			✓		
Performance/Quality of work					✓
Behaviour/Discipline/Team work				✓	
Sincerity/Hard work				✓	
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Name of Industry Mentor	ARPIT TIWARI				
Signature of Industry Mentor	Arpit Tiwari				

Receiving Date	xxxx	Name of Faculty Mentor	xxx Arpit Tiwari	Sign	xxx Arpit Tiwari

Dr. Prachi Singh

FORMAT

FORTNIGHTLY PROGRESS REPORT (FPR) FROM INDUSTRY MENTOR

Name of student	xxxxxxxxxxxxx Devki Nandan Pathe		Department	Civil xxxx	
Industry/Organization	xxxxxxxxxxxxx		Date/Duration	DD/MM/YR -DD/MM/YR 04/04/2022 to 17/04/2022	
Criterion	**Poor**	**Average**	**Good**	**Very Good**	**Excellent**
Punctuality/Timely completion of assigned work					✓
Learning capacity/Knowledge up gradation			✓		
Performance/Quality of work				✓	
Behaviour/Discipline/Team work					✓
Sincerity/Hard work				✓	
Comment on nature of work done/Area/Topic	Excellent Team work				
OVERALL GRADE (Any one)	POOR/AVERAGE/GOOD/VERY GOOD/EXCELLENT				
Name of Industry Mentor	ARPIT TIWARI				
Signature of Industry Mentor	Arpit Tiwari				

Receiving Date	xxxx	Name of Faculty Mentor	xxx Arpit Tiwari	Sign	xxx Arpit Tiwari

Dr. Prachi Singh

FORMAT

FORTNIGHTLY PROGRESS REPORT (FPR) FROM INDUSTRY MENTOR

Name of student	xxxxxxxxxxxxx Devki Prasad Patel		Department	Civil xxxx
Industry/Organization	xxxxxxxxxxxxx PHE		Date/Duration	DD/MM/YR -DD/MM/YR 15/02/2022
Criterion	**Poor**	**Average**	**Good**	**Very Good**	**Excellent**
Punctuality/Timely completion of assigned work				✓	
Learning capacity/Knowledge up gradation					✓
Performance/Quality of work			✓		
Behaviour/Discipline/Team work				✓	
Sincerity/Hard work			✓		
Comment on nature of work done/Area/Topic	performance is good				
OVERALL GRADE (Any one)	POOR/AVERAGE/GOOD/VERY GOOD/EXCELLENT				
Name of Industry Mentor	ARPIT TIWARI				
Signature of Industry Mentor	Arpit Tiwari				

Receiving Date	xxxx 18/05/22	Name of Faculty Mentor	Dr. Prachi Singh	Sign	xxx

FORMAT

FORTNIGHTLY PROGRESS REPORT (FPR) FROM INDUSTRY MENTOR

Name of student	xxxxxxxxxxxxx Devki Prasad Patel		Department	Civil xxxx
Industry/Organization	xxxxxxxxxxxxx PHE		Date/Duration	DD/MM/YR -DD/MM/YR 01/05/2022 to 18/05/2022
Criterion	**Poor**	**Average**	**Good**	**Very Good**	**Excellent**
Punctuality/Timely completion of assigned work				✓	
Learning capacity/Knowledge up gradation					✓
Performance/Quality of work			✓		
Behaviour/Discipline/Team work				✓	
Sincerity/Hard work					✓
Comment on nature of work done/Area/Topic	work is Hard				
OVERALL GRADE (Any one)	POOR/AVERAGE/GOOD/VERY GOOD/EXCELLENT				
Name of Industry Mentor	ARPIT TIWARI				
Signature of Industry Mentor	Arpit Tiwari				

Receiving Date	xxxx 18/05/22	Name of Faculty Mentor	Dr. Prachi Singh	Sign	xxx