
**MADHAV INSTITUTE OF TECHNOLOGY & SCIENCE DEPARTMENT OF CIVIL ENGINEERING**

An

Internship Report

On

# OVERHEAD WATER TANK

In partial fulfillment of the requirement for the award of degree of

**BACHELOR OF TECHNOLOGY**

**IN**

**CIVIL ENGINEERING**

Submitted by

**ADITYA CHOUHAN**

(0901CE181009)

Under the guidance of

PADMA GOME
A.E. PHE, Indore
P.H.E Narmada Office, Indore

Dr. Jayvant Choudhary
Department of Civil Engineering
MITS, Gwalior

**Public Health Engineering Department,**
**Indore (M.P.)**

# CERTIFICATE

**Certificate no: PHE/2022/**795
Dt. - 23/5/22

This is reference to the ongoing internship of Mr ADITYA CHOUHAN at PHE Indore From .
Jan, 2022 to May, 2022.

Subject: WATER TANK CONSTRUCTION

We found sincere, hardworking, and technically sound and result oriented. He worked well as a part o the team during his tenure. We take this opportunity to thank him and wish him all the best for his future.

As a part of his institute grading we would like to grade him **Excellent** during these course of month.

**For Public Health Engineering Department**

ASSISTANT ENGINEER
P.H.E. SUB DIVISION
INDORE

**ASSISTANT ENGINEER**

## RECOMMENDATION

It is hereby recommended that the internship report entitled — **"Overhead Water Tank"** which is being submitted by **Aditya Chouhan** completed under the guidance of **Prof. Jayvant Choudhary** may be accepted in the partial fulfillment of the award of the degree of Bachelor of Engineering in Civil Engineering.

Guided By

Prof. and Head
Civil Engineering Department
MITS, Gwalior

Choudhary 30/5/22
Prof. Jayvant Choudhary
Civil Engineering Department
MITS,Gwalior

# ACKNOWLEDGEMENT

I would like to express my sincere appreciation to my supervisor Dr. Jayvant Choudhary sir for his guidance, encouragement, and support throughout the course of this work. It was an invaluable learning experience for me to be one of their students. Fromthem I have gained not only extensive knowledge, but also a careful research attitude.

I am also thankful to Staff of P.H.E. Department Indore for their cooperation with me in facilitating the infrastructure and lab facility during my work.

I am highly indebted to Dr. R.K. Pandit, Director M.I.T.S., Gwalior (M.P.) for the facilities provided to accomplish this internship.

I would like to thank M.K. TRIVEDI Head department of CIVIL engineering, M.I.T.S., Gwalior (M.P.) for his constructive criticism throughout my internship.

I am extremely great full to my department staff members and friends who helped me in successful completion of this internship.

**Date: 23/05/2022**

**Place: INDORE (M.P.)**

**ADITYA CHOUHAN**

**0901CE181009**

# 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 provide pure drinking water free of any anamalities 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 2.5 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 type of 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 performing the analysis of RCC overhead water tank, deflection shape due to hydrostatic pressure and stresses, etc. are analyzed.

# ABSTRACT IN HINDI

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। सार्वजनिक स्वास्थ्य को बढ़ाने और मानव विकास के परिणामों में सुधार के लिए बेहतर पोर्टेबल जलापूर्ति और स्वच्छता सुविधाओं और सेवाओं के रूप में किसी भी तरह की विसंगतियों से मुक्त पानी, ग्रामीण परिवारों के लिए और भी महत्वपूर्ण है।

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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# INTRODUCTION

The main function of the Public Health Engineering Department is to plan, implement & maintain Rural and Urban Water Supply Schemes, rural sanitation schemes. The District Level administration of the Public Health Engineering Department undertakes field investigation, survey, data collection, preparation, execution & maintenance of schemes.

The salient objective and functions of the Public health Engineering Department is:-

- To plan & execute water supply schemes for adequate safe drinking Water Supply to Rural and Urban population including schools & anganwadi centers.
- To provide sanitary facilities to the rural areas by using appropriate Low-cost technologies.
- A **water tank** is a container for storing water.
- Water tanks are used to provide storage of water for use in many applications, drinking water, irrigation agriculture, fire suppression, agricultural farming, both for plants and livestock, chemical manufacturing, food preparation as well as many other uses. Water tank parameters include the general design of the tank, and choice of construction materials, linings.

PHE Department made an RCC overhead water tanks are supported on staging and are generally used in water distribution system and overhead water tank are made of minimum capacity of 50000 litre and maximum capacity of overhead water tank is dependent on the

maximum size of bottom dome, cylindrical wall and upper dome mainly we can say that as large as we can afford to build.

IN

1.1 PHE OFFICE

## ABOUT PROJECT

### ❖ PROJECT AREA

Sendal village is located in **Mhow tehsil of Indore district in Madhya Pradesh, India**. It is situated 33km away from sub-district headquarter Mhow (tehsildar office) and 34km away from district headquarter Indore..

### ❖ PROJECT STRATEGY

Community participation is at the core for success and sustainability of rural drinking water supply schemes. Towards achieving this, Ministry of Drinking Water and sanitation (MDWS,GOI) launched "Jal Jeevan Mission(JJM)" in 2019 with a goal of a every rural house hold has a functional house hold tap connection (FHTC). JJM is to be implemented as a community demand-driven, single village preferably solar powered mini PWS program for increasing the PWS coverage in rural areas across the district. Community and Gram Panchayat would be fully responsible for operation and maintenance of JJM scheme.

### ❖ EXISTING WATER SUPPLY

Water supply to the village were hand pumps, which installed over tube well to extract ground water. However there is piped water supply, which results in usage of less water in community. To improve the quantity and quality of domestic water consumption of community. It is important to have piped water supply scheme with house tap connections.

### ❖ BASIC PLANNING STRATEGY

The following points have been taken into consideration for the proposed water supply scheme so as to meet the water demand of present and future population.

1. The scope is limited to augmentation of water supply based on ground water with House Hold tap connections and identified sustainability structures for GW source for the village.
2. Topographic Survey has to be done for the Village including assessment of existing infrastructure for present and future water demand.
3. Preparation of conceptual designed report, based on guidelines.
4. Planning in a Phased manner and implementation there of 5. Preparation of detailed cost estimates and BOQ including O&M.

## 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 | Population 2011 | House Hold 2011 | Population 2020 | House Hold 2020 |
|---|---|---|---|---|---|
| 1 | SENDAL | 1917 | 196 | 2340 | 231 |

## ❖ POPULATION FORECAST

With reference to the technical circular of Chief Engineer, PHED, Bhopal no. 4378 dated 03.07.2020 District rural population decadal growth rate as per latest census to be considered for Population Projection. Therefore, for the district Gwalior 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 stand alone scheme |
|---|---|---|---|
| 2020 | 2340 | 2340 | 0 |
| 2030 | 2810 | 2810 | 0 |
| 2040 | 3280 | 3280 | 0 |

**WATER DEMAND ASSESSMENT**

The calculations of water demand for different year is as follows :

| YEAR | POPULATION | WATER DEMAND PER CAPITA | WATER DEMAND IN KILO LIT |
|---|---|---|---|
| | | LPCD | KL |
| 2020 | 2340 | 70 | 164 |
| 2030 | 2810 | 70 | 197 |
| 2040 | 3280 | 70 | 230 |

The provision of three phase power connection made for the source site from the nearest tapping point will have to be done accordingly 0.2 km extension of electric line is proposed. Minimum 16 Hour Pumping is considered.

### ❖ PUMP HOUSE AT SOURCE

It is proposed to install readymade mini pump house (control Panel Box) With G.I.sheet of 18 gauge of size 90 cmx90cmx60cm with 40x40x5 mm angle iron frame to fix it 200 mm below ground level.

### ❖ MOTOR PUMP

Submersible motor pumps for each tube wells is proposed as per required head and discharge.

### ❖ PUMP HOUSE ABOVE UNDER GROUND SUMP

The Pump house is proposed above underground sump and pumping arrangement is proposed for water supply or filling of Over Head Tank.

### ❖ DESIGN OF DISTRIBUTION NETWORK

The design of distribution network has been carried out using latest software considering the average per capita supply at 70 LPCD. Modeling scenarios such as peak hour demand and extended period simulation have been simulated for each zone by ensuring a minimum residual pressure of 7 m at every junction node and desired velocity in the pipeline. The zone wise outcome of the network design in terms of pipe size and the network length is presented in the following tables. Details Summary of Pipelines for the proposed Distribution Network is attached on Design.

## FORTNIGHTLY OVERVIEW OF INTERNSHIP ACTIVITIES

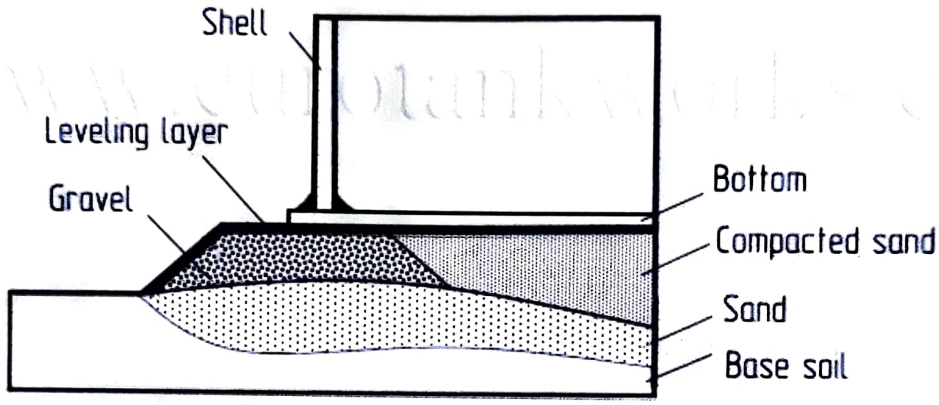
**FPR 1**

**CONSTRUCTION OF BOTTOM SLAB**

1. The bottom slab of the tank must be made of reinforced concrete in the ratio 1:1:5:3 (cement 1: coarse sand 1:5: crushed stone 3, nominal size 20 mm).
2. The floor slab should be supported by structurally suitable masonry walls/reinforced concrete beams/rolled steel profiles and inclined slightly towards the drain outlet.
3. For sizes or tank combinations other than those indicated above, construction details must be provided by the civil engineer.
4. If the slab is in a masonry wall, load-bearing plaster must be provided over the wall
5. If the slab is supported by reinforced concrete beams, it can be supported firmly or simply supported depending on the situation.
6. Preferably a slab with a freely supported position on the beam. To simply fix it, the top of the beam must be covered with a layer of pure cement and covered with a thick layer of lime mortar.


## 1.2 RCC DESIGN OF SUMPWELL

Gravel foundation of storage tank




## 1.3 FOUNDATION FOR COLUMNS

FPR 2

## CONSTRUCTION OF WALLS OF TANK

- The walls of the tank must be made of bricks with a cement mortar of grade 7.5H made of bricks 1:3 (1 cement: 3 coarse sand).
- The first step in brickwork should be placed immediately after the foundation slab has been poured, i.e. while the concrete is still fresh, to ensure good adhesion and prevent leaks or cracks
- The remaining bricks must be lifted and completed within one week of laying the slab.


## 1.4 CONSTRUCTION OF BRACES AND COLUMS

## Installation of water tank

Fittings recommended for masonry cisterns must be made of galvanized iron and must be equally acceptable to the following specifications:

### A. Scour Pipe

A 40 mm diameter pipe is joined with a 40 mm 'T' pipe to prevent slipping, which shall be embedded inside the wall to serve as a scour pipe. The end of this scour pipe shall be provided with a socket and plug.

### B. DELIVERY PIPE

The delivery pipe shall be of 20 mm dia fixed with 'T' to prevent slipping which shall be fixed at least 30 mm above the bottom slab of the tank to prevent silt at the bottom of the tank entering the pipeline and choking it.

### C. Overflow Pipe

The overflow pipe shall be of 25 mm, socket at the internal end, and shall be fixed at the freeboard level of the tank at a convenient point to drain out the overflow. The length of the pipe, including the socket, shall be 30 cm.

### D. Inlet Pipe

The inlet pipe shall be 20 mm with a 20 mm socket at the internal end and socket or elbow at the outer end as required, which shall be fixed at the freeboard level.

### E. Mosquito Proof Coupling

The mosquito-proof coupling of rigid PVC or any other suitable material with sieve No. 725 dia. perforations shall be provided to the overflow pipe to check the entry of mosquitos into the tank.

**F. Ball Valve**

The ball valve shall be of brass with a plastic float of a specified size and pressure. The ball valve shall be securely fixed to the tank in continuation of the inlet pipe and adjusted to limit the level of the water in the tank at 25 mm below the lip of the overflow pipe.

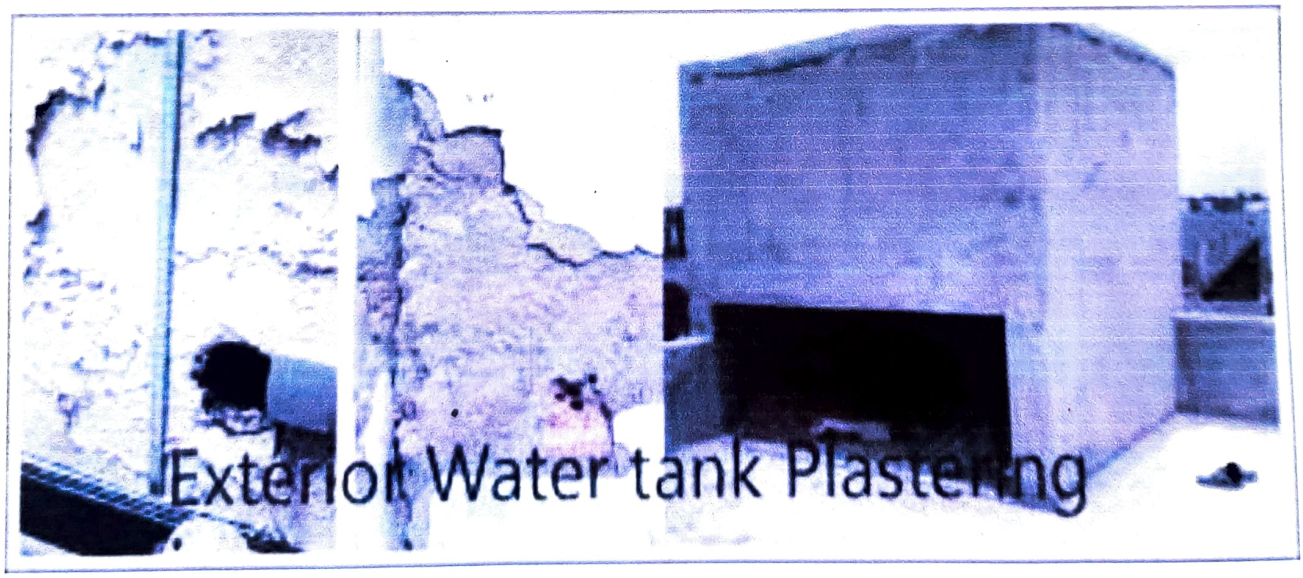
1.5 STAIRCASE

FIG. 1.5.1

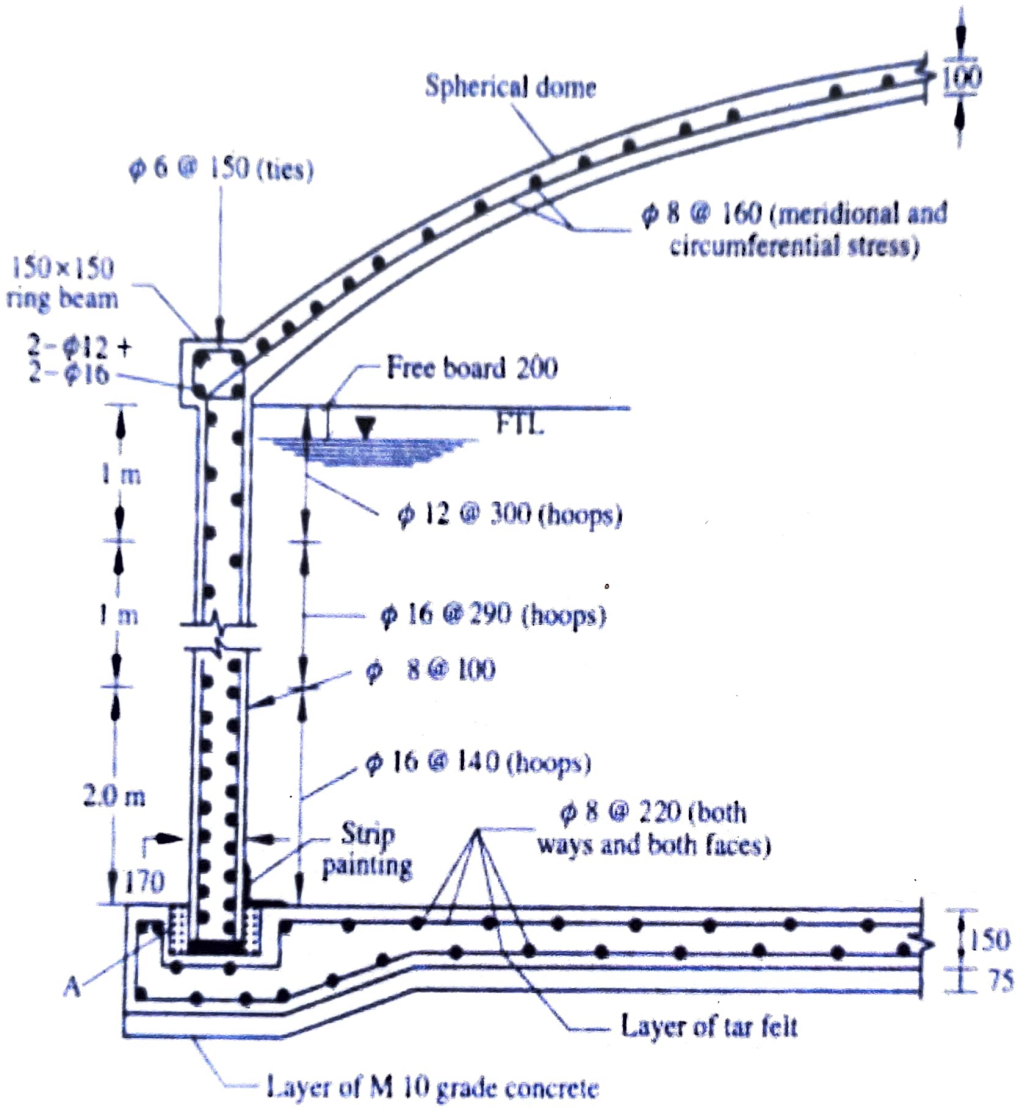
FPR 4

## PLASTERING OF TANK

1. The base slab and the sidewalls shall be plastered from inside with 15 mm thick cement mortar 1:3.
2. The plastering activity shall be carried out within one week of construction of the side walls.
3. The junctions of the wall and the base slab in the interior and those between walls shall be rounded with mortar 1:3 to reduce the water pressure on the junctions.
4. All the joints of the inlet, delivery, scour, and overflow pipes shall be made leak proof entirely.
5. A coat of neat cement punning shall be applied to the plaster on the surface of the walls and the base slab on the inner side of the tank.
6. The same shall be carried out at the top of the tank to serve as bearing plaster for the top side.
7. The external wall of the tank shall be plastered with 12 mm thick cement mortar 1:4 (1 cement: 4 fine sand).




1.6 PLASTERING of WATER TANK

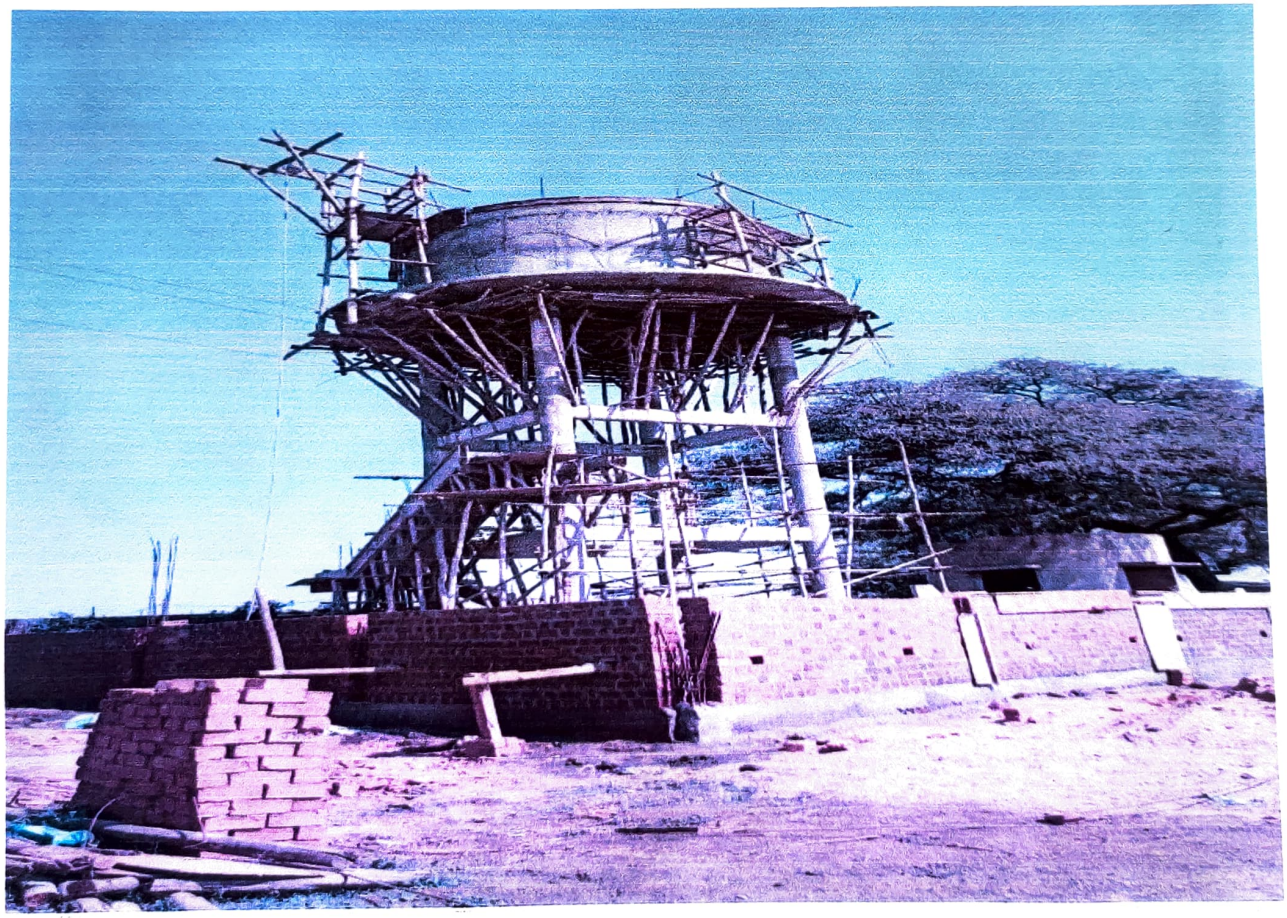



1.7 SECTIONAL ELEVATION

FPR 5

## CURING OF RCC AND BRICKWORK

1. The curing of reinforced concrete blocks, masonry and gypsum must comply with general curing specifications.
2. The tank should be filled to half capacity on the first day and to full capacity the next day.
3. To prevent cracking of the concrete due to shrinkage, the water in the tank must be retained until the tank is used.

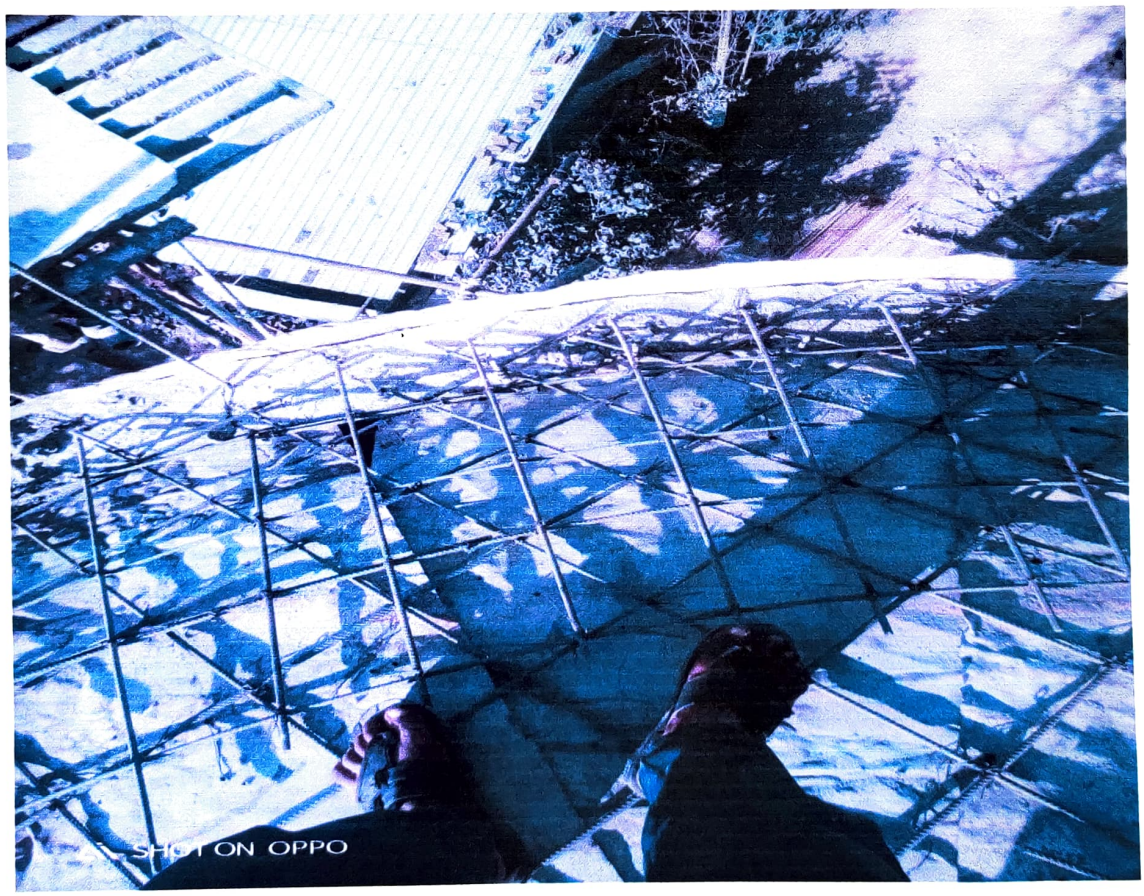


1.8 ONGOING CONSTRUCTION WORK

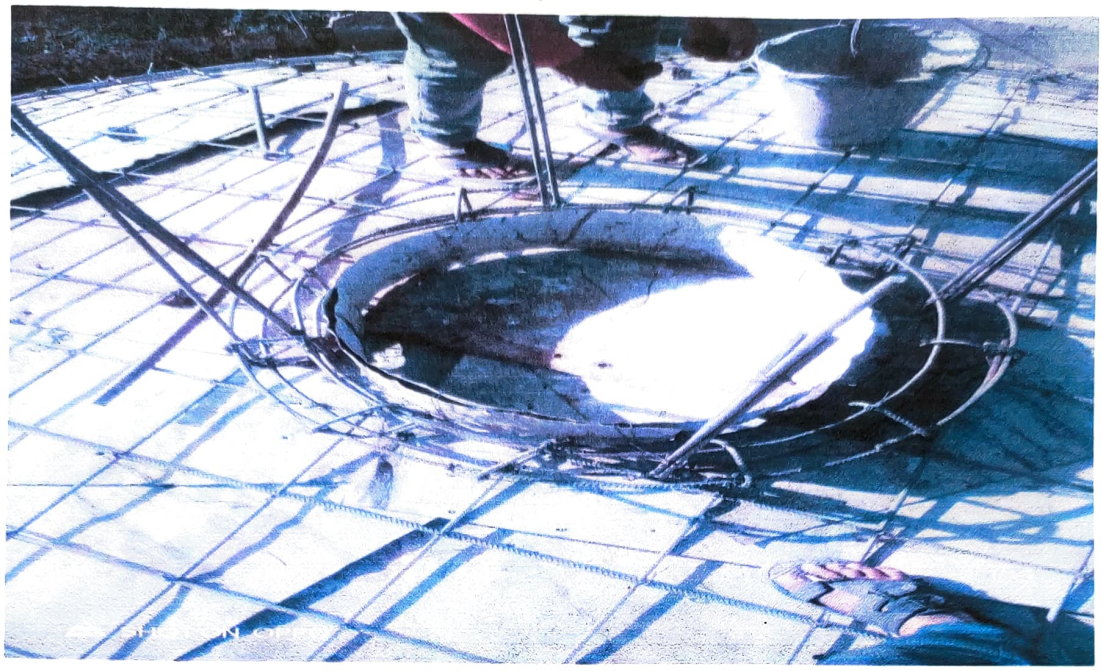
FPR 6

## CONSTRUCTION OF TOP SLAB

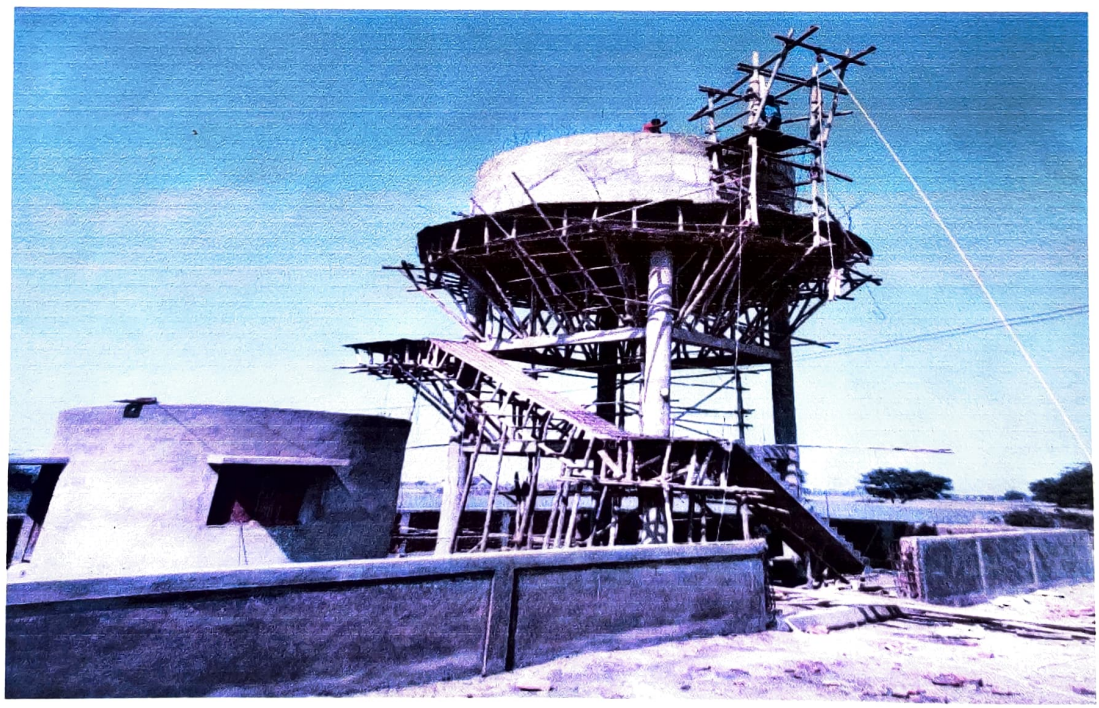
1. The top slab shall be of precast reinforced cement concrete of 1:2:4 mix, 5 cm thick.
2. The size of the top slab shall be such that it projects by 15 mm on all sides beyond the external finished faces of the tank wall.
3. The top of the slab shall be rendered smooth while casting.
4. While casting the top slab, the frame of the C. I. hinged cover shall be fixed beforehand so that it is embedded in concrete.




1.9 BOTTOM RING SLAB WORK



1.10 CONSTRUCTION OF AIR VENT



1.11 CONE SHAPED DOME OF TANK

FPR 7

## TESTING OF TANK

Tanks must be tested for water tightness when fully supplied.The test requirements are considered met if there are no signs of leaks on the outer surface and if it remains dry for 7 days after soaking for 7 days after charging.


1.12 OVERHEAD WATER TANK

## Conclusion

In this Internship, a lot of experience and knowledge i got . After doing this internship i saw that my self-confidence has been boosted to face more challenges in life. Now i found it clear that the concept we study is worthless without Practical knowledge or practice. But practice without knowledge will also make no sence. So if we do practice without the knowledge of course there will be problems in terms of grip and concepts to learn or studies.

During my field training, there are different challenges to phase with Environments. I found the co-ordination between colleagues is important to work better and for long time period.

## FORMAT

## FORTNIGHTLY PROGRESS REPORT (FPR) FROM INDUSTRY MENTOR

| Name of student | Aditya Chouhan | | Department | Civil | |
|---|---|---|---|---|---|
| Industry/Organization | PHE Indore | | Date/Duration | 01/01/22 - 15/01/22 | |
| **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 | | | | | |
| **OVERALL GRADE (Any one)** | POOR AVERAGE GOOD VERY GOOD EXCELLENT | | | | |
| **Name of Industry Mentor** | Padma Gorne Ma'am | | | | |
| **Signature of Industry Mentor** | ASSISTANT ENGINEER P.H.E. SUB DIVISION INDORE | | | | |
| **Receiving Date** | xxxx | Name of Mentor | xxx | Sign | xxx |

## FORMAT

## FORTNIGHTLY PROGRESS REPORT (FPR) FROM INDUSTRY MENTOR

| Name of student | Aditya Chouhan | | Department | Civil | |
|---|---|---|---|---|---|
| Industry/Organization | PHE Indore | | Date/Duration | 16/01/22 - 20/1/22 | |
| **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 | | | | | |

| | |
|---|---|
| **OVERALL GRADE** (Any one) | POOR/AVERAGE/GOOD/VERY GOOD/EXCELLENT |
| **Name of Industry Mentor** | Padmini Gaur Madam |
| **Signature of Industry Mentor** | ASSISTANT ENGINEER P.H.E. SUB DIVISION INDORE |

| | | | | | |
|---|---|---|---|---|---|
| **Receiving Date** | xxxx | Name of Faculty Mentor | xxx | Sign | xxx Choudhary |

# FORMAT

## FORTNIGHTLY PROGRESS REPORT (FPR) FROM INDUSTRY MENT

| | | | | | |
|---|---|---|---|---|---|
| Name of student | Aditya Chouhan | | Department | civil | |
| Industry/Organization | PHE Indore | | Date/Duration | 01/2/22 - 15/0 | |
| Criterion | Poor | Average | Good | Very Good | Excellen |
| 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 | | | | | |
| OVERALL GRADE (Any one) | POOR/AVERAGE/GOOD/VERY GOOD EXCELLENT | | | | |
| Name of Industry Mentor | Pradeep Kumar Malan | | | | |
| Signature of Industry Mentor | ASSISTANT ENGINEER P.H.E. SUB DIVISION INDORE (Rural) | | | | |
| Receiving Date | xxxx | Name of Industry Mentor | xxx | Sign | xxx |

## FORMAT

## FORTNIGHTLY PROGRESS REPORT (FPR) FROM INDUSTRY MENTOR

| Name of student | Aditya Chouhan | | Department | Civil | |
|---|---|---|---|---|---|
| Industry/Organization | PHE Indore | | Date/Duration | 22/02/22 | 02/03/22 |
| **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 | | | | | |
| **OVERALL GRADE (Any one)** | POOR/AVERAGE/GOOD/VERY GOOD/EXCELLENT | | | | |
| **Name of Industry Mentor** | Padma Gaur Mam | | | | |
| **Signature of Industry Mentor** | Good<br>ASSISTANT ENGINEER<br>P.H.E. SUB DIVISION<br>INDORE | | | | |

| Receiving Date | xxxx | Name of Faculty Mentor | xxx | Sign | xxx Dhaidhary |
|---|---|---|---|---|---|

## FORMAT

## FORTNIGHTLY PROGRESS REPORT (FPR) FROM INDUSTRY MENTOR

| Name of student | Aditya Chouhan | | Department | Civil | |
|---|---|---|---|---|---|
| Industry/Organization | PHE Indore | | Date/Duration | 3/3/22 - 18/3/22 | |
| **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 | | | | | |
| **OVERALL GRADE (Any one)** | POOR/AVERAGE/GOOD/VERY GOOD/EXCELLENT ✓ | | | | |
| **Name of Industry Mentor** | Padma Gupta Ma'am | | | | |
| **Signature of Industry Mentor** | ASSISTANT ENGINEER P.H.E. SUB DIVISION INDORE | | | | |

| **Receiving Date** | xxxx | **Name of Faculty Mentor** | xxx | **Sign** | xxx |
|---|---|---|---|---|---|

## FORMAT

## FORTNIGHTLY PROGRESS REPORT (FPR) FROM INDUSTRY MENTOR

| Name of student | Aditya Chouhan | | Department | Civil | |
|---|---|---|---|---|---|
| Industry/Organization | PHE Indore | | Date/Duration | 19/3/22 - 31/3/22 | |
| 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 | | | | | |
| **OVERALL GRADE (Any one)** | POOR/AVERAGE/GOOD/VERY GOOD/EXCELLENT | | | | |
| **Name of Industry Mentor** | Padma Gome Ma'am | | | | |
| **Signature of Industry Mentor** | page 2 | | | | |

ASSISTANT ENGINEER
P.H.E. SUB DIVISION
INDORE

| Receiving Date | xxxx | Name of Faculty Mentor | xxx | Sign | xxx |
|---|---|---|---|---|---|

## FORMAT

## FORTNIGHTLY PROGRESS REPORT (FPR) FROM INDUSTRY MENTOR

| Name of student | Aditya Chouhan | | Department | civil | |
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| Learning capacity/Knowledge up gradation | | | ✓ | | |
| Performance/Quality of work | | | ✓ | | |
| Behaviour/Discipline/Team work | | | ✓ | | |
| Sincerity/Hard work | | | ✓ | | |
| Comment on nature of work done/Area/Topic | | | | | |
| **OVERALL GRADE (Any one)** | **POOR/AVERAGE/GOOD/VERY GOOD/EXCELLENT** | | | | |
| **Name of Industry Mentor** | Padma Gome Ma'am | | | | |
| **Signature of Industry Mentor** | Padma<br>ASSISTANT ENGINEER<br>P.H.E. SUB DIVISION<br>INDORE | | | | |

| **Receiving Date** | xxxx | **Name of Faculty Mentor** | xxx | **Sign** | xxx |
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## FORMAT

## FORTNIGHTLY PROGRESS REPORT (FPR) FROM INDUSTRY MENTOR

| Name of student | Aditya Chouhan | | Department | Civil | |
|---|---|---|---|---|---|
| Industry/Organization | PHE Indore | | Date/Duration | 16/4/22 - 30/4/2 | |
| **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 | | | | | |
| **OVERALL GRADE (Any one)** | POOR/AVERAGE/GOOD/VERY GOOD/EXCELLENT | | | | |
| **Name of Industry Mentor** | Padma Gome Ma'am | | | | |
| **Signature of Industry Mentor** | ASSISTANT ENGINEER P.H.E. SUB DIVISION INDORE | | | | |

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