

**INTERNSHIP REPORT
ON
“construction of water Tank”**

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**



Submitted By-

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Sub Divisional Engineer
PHE PANNA (M.P)

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CERTIFICATE

This is to certify that **BRAJESH GUPTA, 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 Water Tank.

Guide: Er. Gaurav Saraf (ASSISTANT ENGINEER)

Duration: 18th JANUARY 2022 - 20th MAY 2022.

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


EXECUTIVE ENGINEER
PHED DIVISION PANNA (M.P.)

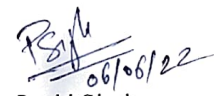
RECOMMENDATION

It is hereby recommended that the internship report entitled — construction of water tank which is being submitted by Brajesh Gupta 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
Civil Engineering Department
MITS, Gwalior

HEAD
Civil Engg. Deptt.
M.I.T.S. Gwalior

Guided by


Dr. Prachi Singh
Civil Engineering Department
MITS, Gwalior

ACKNOWLEDGEMENT

When it comes to properly acknowledging someone's support and assistance, it may be a challenging undertaking, chiefly when the support offered is so wholehearted and unwavering.

I am eternally grateful to my renowned guide, **Dr. Prachi Singh**, Assistant Professor of Civil Engineering Department, MITS Gwalior.

Also, I would like to thank **Dr. M.K. Trivedi**, Head of Civil Engineering Department, MITS Gwalior, and all other academics and staff members of MITS Gwalior's Civil Engineering Department for their unwavering support throughout the project.

I am really grateful to **Dr. R. K. Pandit**, Director of MITS Gwalior, for establishing an outstanding institutional environment and for giving all facilities and assistance in the preparation of my dissertation. I also acknowledge with gratitude to our supporting **Mr. VIKRAM** for providing the facilities needed for the accomplishment of this project.

I take great pleasure for my institute **PHE, Panna (M.P)** for providing the opportunities.

The environment of company has been valuable experience for me. It has provided an opportunity to 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.

BRAJESH GUPTA

(0901CE181032)

DEPARTMENT OF CIVIL ENGINEERING

MITG GWALIOR (M.P.)

ABSTRACT

Water tank is a very important and necessary public utility and industrial structure.

The design and construction method of the water tank used in reinforcement concrete are influenced by the prevailing construction

And the physical property of material & the different -different climate condition.

The design of structure is made in considering the worst situation in mind and maximum possible loads (horizontal & vertical) in any direction of water tank either is full or it's empty.

Also we have studied how to read the drawing of projects & structures and how to execute it's on field.

This Internship is helps us in learning the working and responsibility of a civil engineer & give us opportunity to use our practical and Theoretical knowledge on the field work.

It's also improve our skills on ground oriented work.

ABSTRACT IN HINDI

पानी की टंकी एक बहुत ही महत्वपूर्ण और आवश्यक सार्वजनिक उपयोगिता और औद्योगिक संरचना है। सुदृढीकरण कंक्रीट में उपयोग की जाने वाली पानी की टंकी की डिजाइन और निर्माण विधि प्रचलित निर्माण से प्रभावित होती है और सामग्री की भौतिक संपत्ति और अलग-अलग जलवायु की स्थिति। संरचना का डिजाइन सबसे खराब स्थिति को ध्यान में रखकर बनाया गया है और पानी की टंकी की किसी भी दिशा में अधिकतम संभव भार (क्षैतिज और लंबवत) या तो भरा हुआ है या यह खाली है। इसके अलावा, हमने यह भी अध्ययन किया है कि परियोजनाओं और संरचनाओं की ड्राइंग को कैसे पढ़ा जाए और इसे कैसे कार्यान्वित किया जाए। यह इंटरनशिप हमें एक सिविल इंजीनियर के कामकाज और जिम्मेदारी को सीखने में मदद करती है और हमें फील्ड वर्क पर अपने व्यावहारिक और सैद्धांतिक ज्ञान का उपयोग करने का अवसर देती है। यह जमीनी स्तर पर काम करने के हमारे कौशल में भी सुधार करता है।

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1. INTRODUCTION

1.1 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.

1. 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.

2. Aim of PHE-

Public Health Engineering(PHE) Department, implemented & executed drinking water supply schemes & to ensure to provides clean and potable drinking water in the rural & urban areas of the state, as per the provisions of National Rural Drinking Water Program.

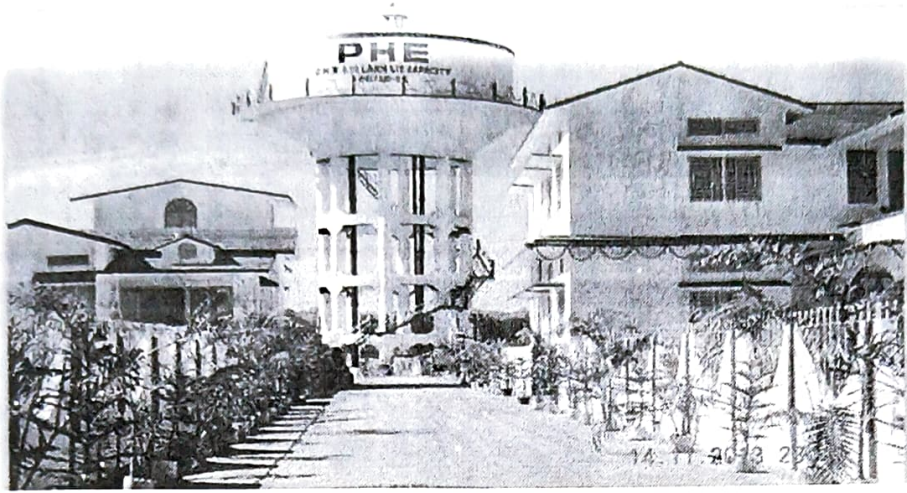


Fig. 1.1 Water tank seems in panna

1.2 About the our Internship

We have done our internship in PHE department panna (M.P.) where “construction of water tank” is completed under ja!

jeevan mission (TPI).

we have gone through the drawing of overhead water tank and we learn how to read these drawing different parts of water tank like column, beam, top dome, bottom dome, stairs, intake etc.

After this we visited the different sites in Devri, Ranwaha, Mandala where the water tank is being constructed under Jal jeevan mission (TPI).

2. Water Reservoir Tank

1) About Water Tank

Water Reservoir is a place in which we can store drinking (potable) water and non drinking (non potable) water. Water Reservoir can be in form of lake Or also in tank. Where water is stored and supply to the consumer ends.

Here we discuss about stone and concrete water tank and it's construction, working procedure, it's needed, points remember during it's construction & safety measurements during it's construction it's intake structure & outtakes structure it's sources of water.



Fig. 1.2 Water tank construction

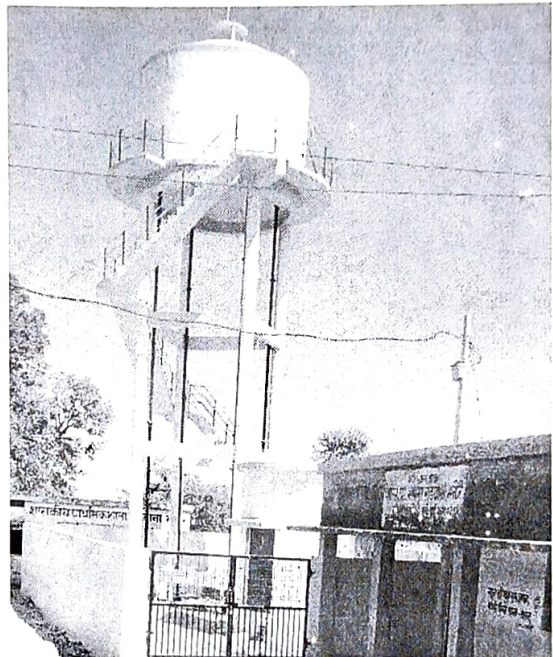


Fig. 1.3 Water tank in panna during site

2) Classification of Water Tank

Based on heads

- a. Resting on Ground
- b. Elevation Tank
- c. Underground

Based on Shape

- a. Rectangular
- b. Circular
- c. Intaze tank

2. Water Reservoir Tank

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Fig. 1.2 Water tank construction

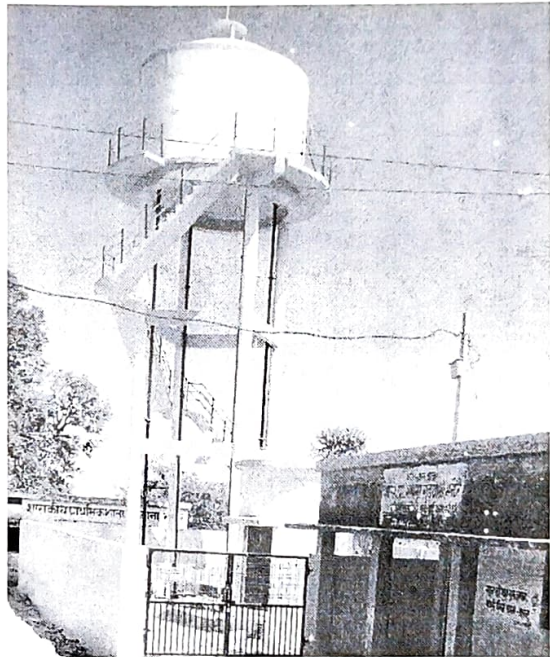


Fig. 1.3 Water tank in panna during site

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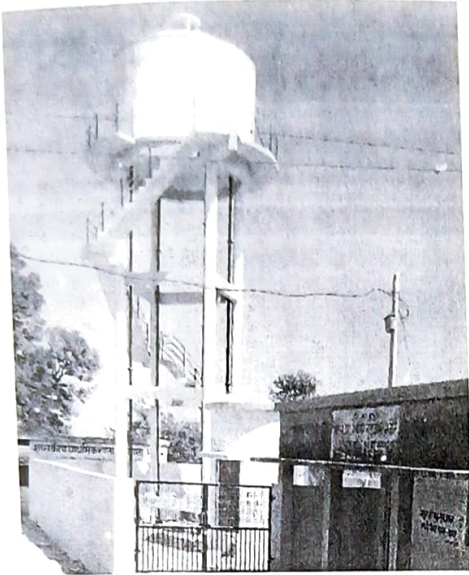


Fig. 1.4(A) Circular water Tank



Fig. 1.4(B) Intake water Tank

3) Requirements of water in future terms

For design the water tank, we have to calculate the requirements the water in future terms because in future population will increase then the requirements of water will also increases so we design the water tank for futures requirements.

For calculations the future population we have some population forecasting methods-

- I. Incremental Increase Method
- II. Decreasing Rate of Growth Method
- III. Arithmetic Increase Method
- IV. Simple Graphical Method
- V. Logistic Curve Method
- VI. Comparative Graphical Method
- VII. Geometric Increase Method

2.1 Construction Procedures of Water Tank

1) Cement Bag Specification



Fig. 2.1 Point remember before using cement bag

2) Concreting

- i. First check the required cement bag is available on site or not.
- ii. Check the vibrators proper work or not before starting of concreting.
- iii. Before starting of concreting we should also check the necessary shuttering and reinforcement work is completed or not.
- iv. The concrete mixer should be prepared according to the specification provided in the drawing.
- v. The placement of the concrete should be on metal sheet Or on sand.
- vi. It should be placed minimum from 800mm to 1500mm distance.

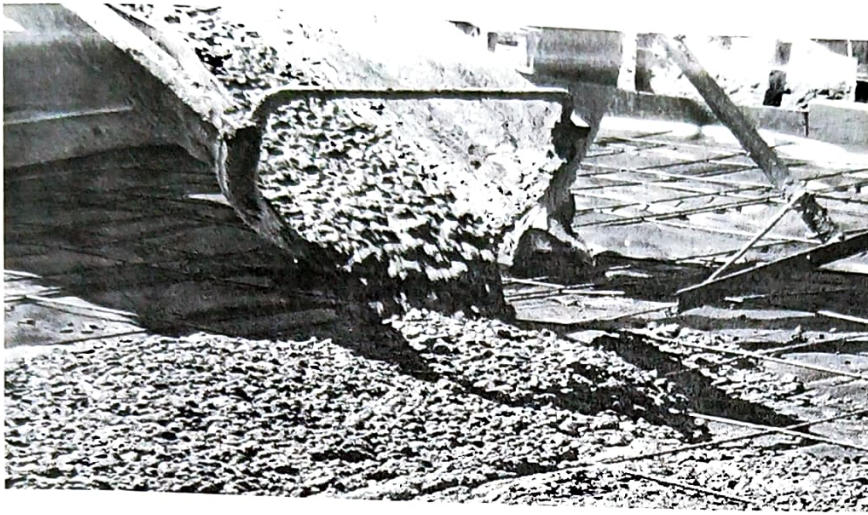


Fig. 2.2(A) During concreting

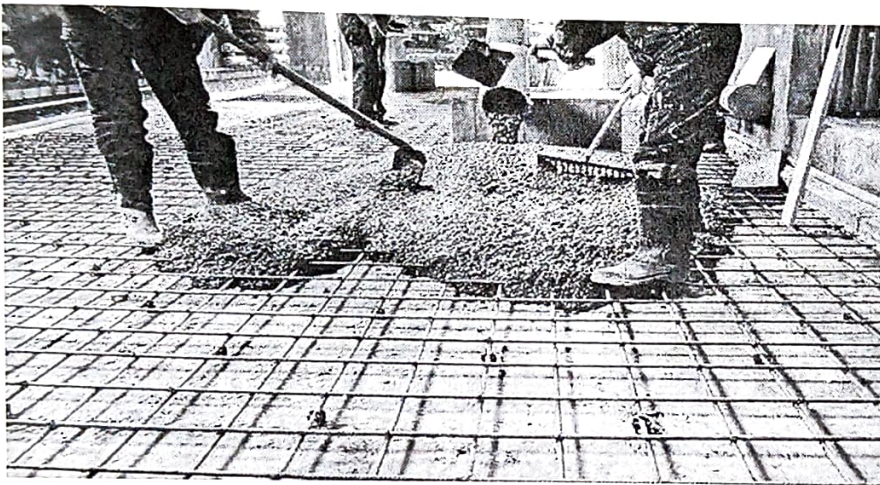


Fig. 2.2(B) During concreting

3. Brick work

- I. First we should check the types & classification of provided bricks it is fulfill the requirements of specification.
- II. When the bricks transported on site should be subjected to the water before execution.
- III. Always the test results of the bricks should be available at site office.

- IV. During brickwork the alignment should be checked with line dori and plumb Bob.

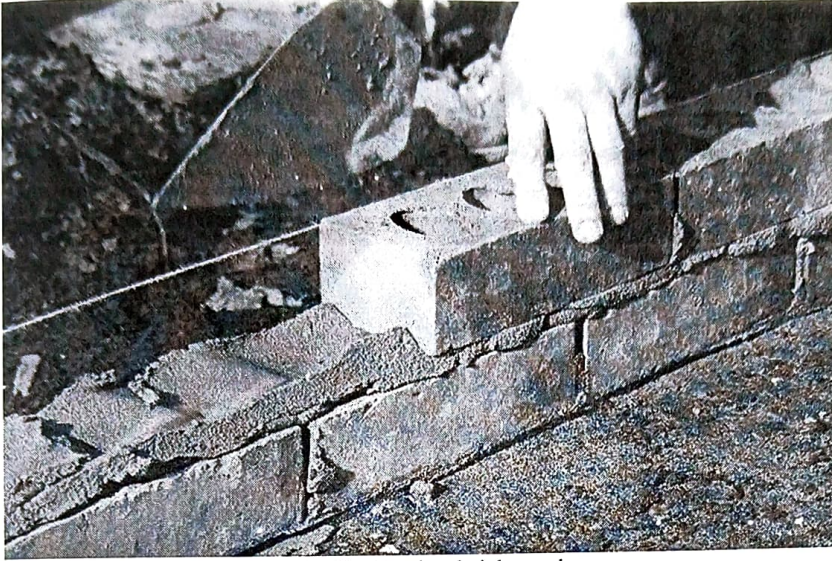


Fig. 2.3 During brick work

1) Shuttering

- I. Before shuttering check the required shuttering material is available or not.
- II. Always used the oiled and cleaned ply for purpose of shuttering.
- III. Before shuttering check the shuttering material has been proper aligned with the help of appropriate equipment.
- IV. Before shuttering we should check the dimension accuracy of shuttering material.
- V. Always remember before Concreting the shuttering should be stable and should not remove during Concreting.



Fig. 2.4(A) Shuttering material on the site

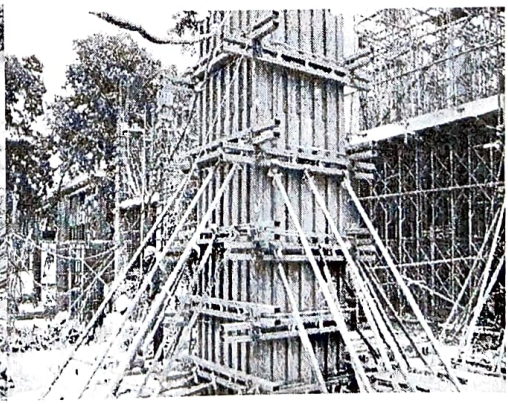


Fig. 2.4(B) During shuttering

2) Reinforcement

- I. Before reinforcement we should check that, Is shuttering completed and area is ready for reinforcement.
- II. Before starting the fabrication work we should check all the results of bars is available on sites or not.
- III. All the required tools should be available on site & to ensure correct work.



Fig. 2.5 Available reinforcements on site

3. Plaster Work

- I. First we clean the wall before the plaster work execution.
- II. To achieve a levelled surface tippy should be made before plastering.
- III. Before plastering the Paste of cement slurry should be spread on the wall.

- IV. Thickness for rough surface is taken as 15mm and thickness for smooth surface is taken as 12mm. (This can be vary)

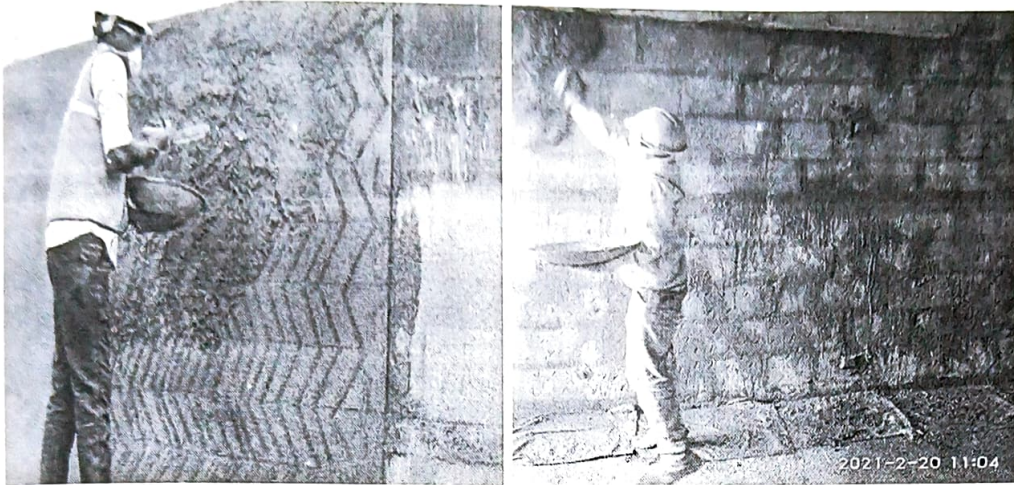


Fig. 2.6 During plaster work

3) Curing of Structure

Curing is a process in which we can keep the internal moisture of concrete up.

- I. Cement achieves their strength & hardness because of the pores of water should remain saturated.
- II. Minimum curing period is 7days at 90% humidity .
as per IS 456
- III. To increase the strength and decrease the permeability of concrete we do curing of structure.
- IV. We can curing of structure to compensate loss of water and reduce shrinkage, cracking
 - Methods of water curing-
 - Sprinkling of water
 - Ponding
 - Miscellaneous
 - Immersion

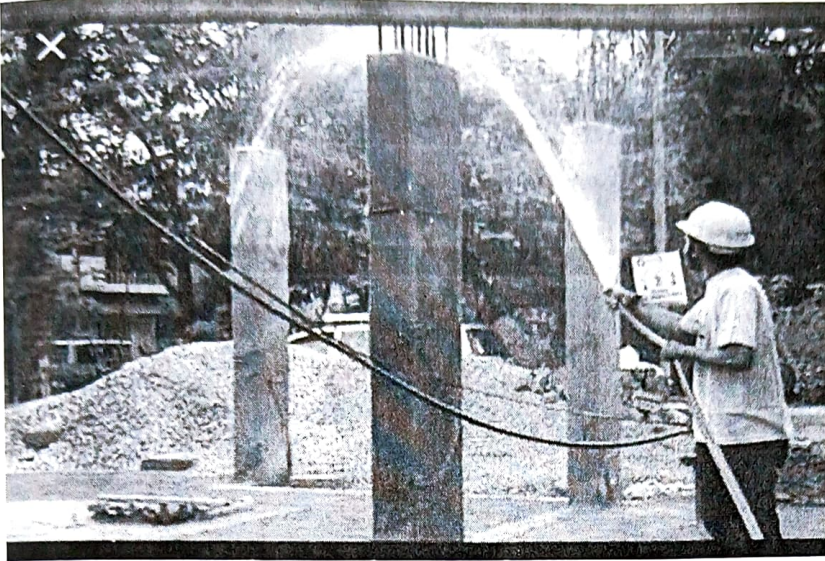


Fig. 2.7 Water curing

4. Levelling

Levelling is the part of surveying engineering in which we can observe, the location of object which is establish or verify or measure the height of particular points relative to the datum.

3. What we learn during period of our Internship

Before visiting site or also working in site we should have some knowledge of drawing of the water tanks and it's components.

1) Drawing and components of head water tanks

- Water inlet
- Water outlet
- Level indicator
- Manhole

-
- The diagram is a technical elevation drawing of a tank. It shows a cylindrical tank with a conical roof. Key features and dimensions include:
- Roof Structure:** The roof is supported by a central vertical column labeled "MONITOR" and two side columns labeled "R7400" and "R7000". The roof slope is indicated by a dashed line.
 - Dimensions:**
 - Overall height: 12000
 - Roof height from base: 4100
 - Roof radius: 1000
 - Roof thickness: 200
 - Roof width: 3200
 - Roof height from base: 3480
 - Roof height from base: 320
 - Roof height from base: 3480
 - Roof height from base: 320
 - Roof height from base: 3480
 - Labels:**
 - MAN HOLE
 - MONITOR
 - R7400
 - R7000
 - INLET PIPE
 - 3rd BRACE
 - 2nd BRACE
 - 1st BRACE
 - ONE INLET PIPE
 - Other Features:** A staircase is shown on the left side of the tank. The base of the tank is labeled "1st" and "2nd".

When visits the site in villages (Devri Panna)



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4. Visiting Site for Inspection for Intake structure

We also visited at the site who was located at Ranwaha, where construction of intake structure is running on.

1) Intake structure

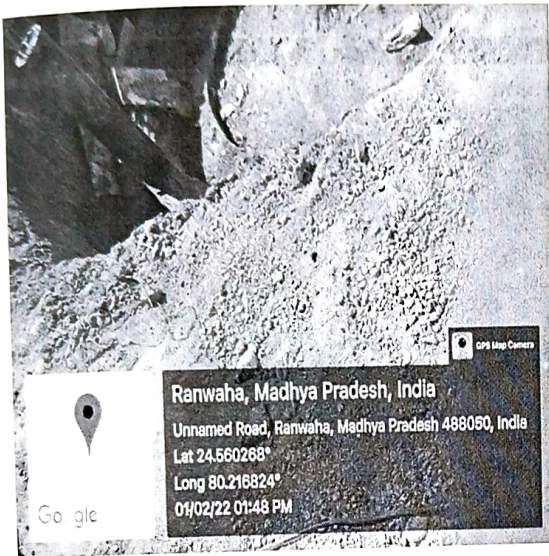


Fig. 4.1(a) Intake structure construction

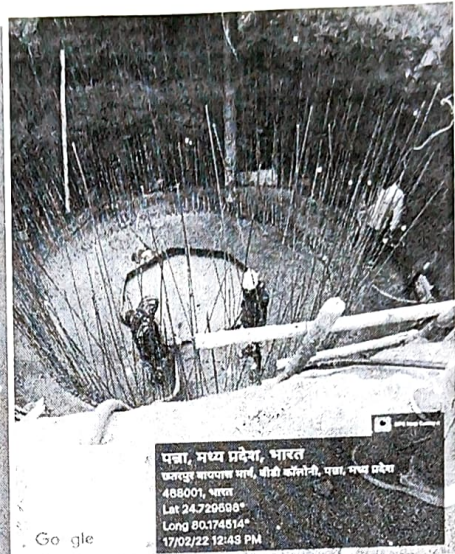


Fig. 4.1(b) under ground structure

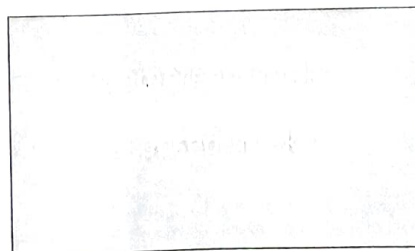
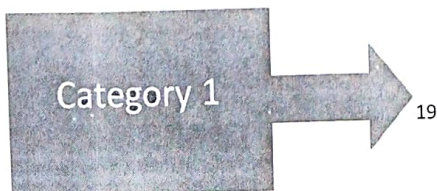
Intake structure are those structure who can used for collecting water from the surface sources such as ponds, lake and reservoir conveying its further to the water treatment plant.

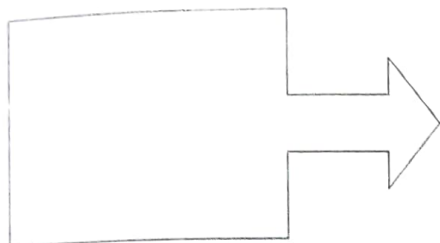
2) Type of Intake STRUCTURES

Intake are classified under three categories

The elevation of sump is always take above the ground level, so that water won't get enter in the storage room and contaminates the water in rainy seasons.

IMAGES OF SUMP ON THE SITES





Wet Intake
Dry Intake



River Intake
Reservoir Intake
Lake Intake
Canal Intake

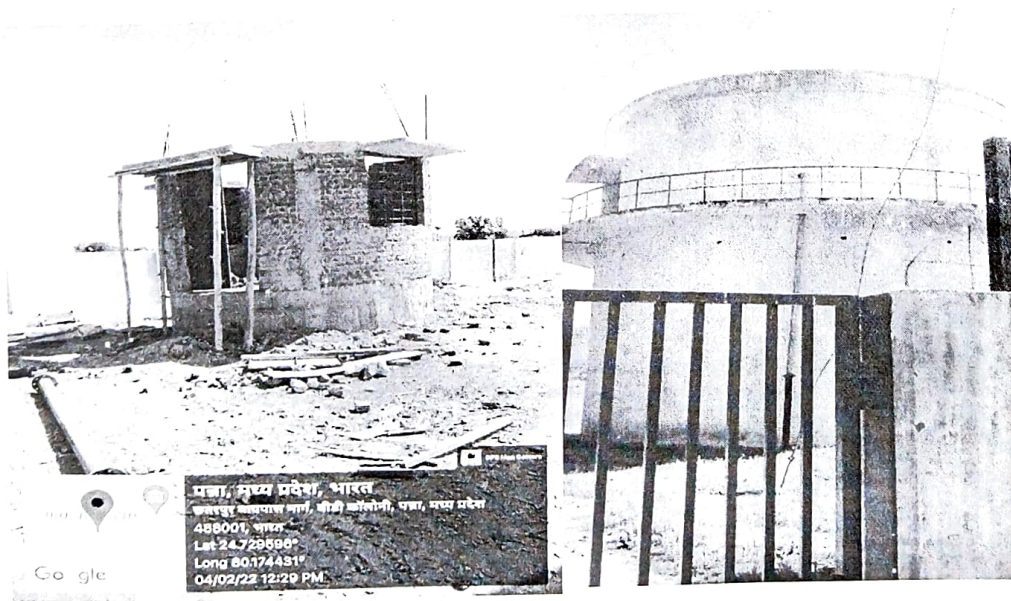


Fig. 5.1 Images of sump on the site

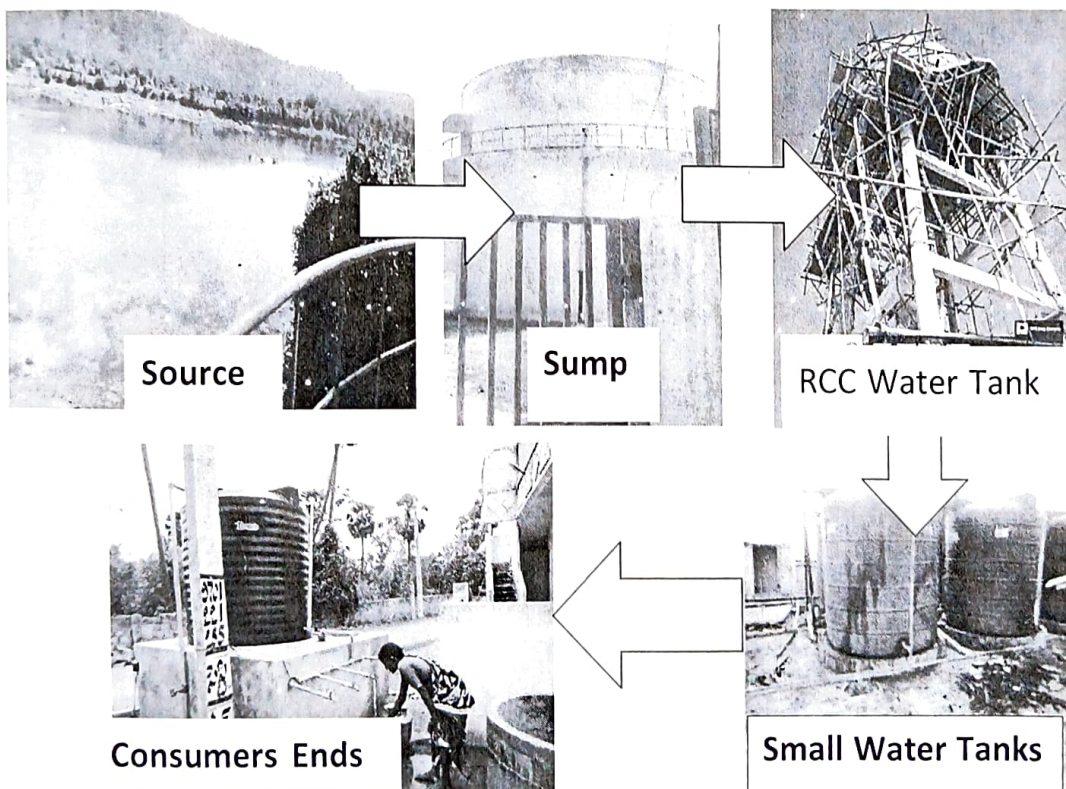
6. DISTRIBUTION OF PIPES

After construction of OHT we lay pipeline so that we can provide this stored water to consumers ends through distribution system.



Fig. 6.1 Distributed pipelines

1) Process of over head water tank



7. Points To Be Considered While Site Selection

- I. Site should be away from main electric power line.
- II. Soil should be appropriate for construction in the site.
- III. It should be easily accessible.
- IV. Transportation should be easy in the construction area.
- V. Site should be near to raw material site.
- VI. Area for parking vehicles should be available in the site.
- VII. Where sufficient source of water is easily available.
- VIII. It should have electricity supply near to the site.

8. Safety Measurements

- i. Always wear ppe kit when working/visiting on site.
- ii. Always wear helmet when working/visiting on site.
- iii. To protect your eyes from dust particles wear goggles.
- iv. In site wear sturdy work gloves, full length trousers and long sleeves to protect your hands, arms, and legs.
- v. We should be wear rubber boots when placing and handling concrete for slab & flatwork on the site.

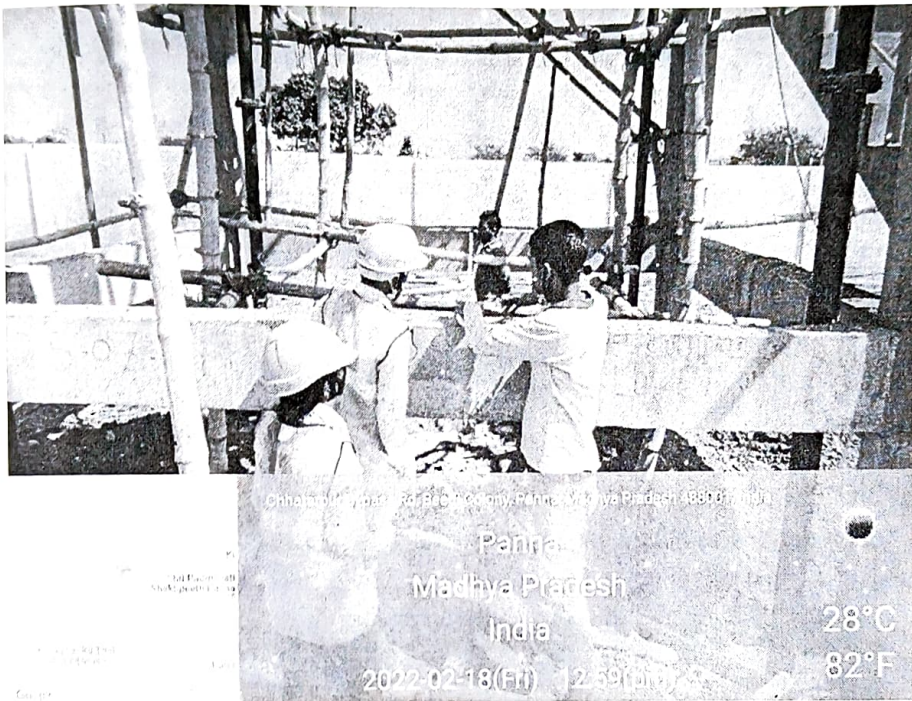


Fig. 8.1 during site work

9. Different Types of test During construction work

1) Physical Test for Cement

a. Fineness Test –

The degree of fineness of cement is the measure of the mean size of the grains in it.

b. Colour Test-

Cement should be free from lumps & the colour of cement should be grayish.

2) Physical Test for concrete

a. Compressive Strength-

Compressive strength is used to check the load bearing capacity of concrete material , by this test we can control the quality & quantity of concrete and also check the degree of adulteration of material.

Before Concreting at any member at the site concrete cube should be prepared according to the specification given. At least 3cubes should be prepared to check after 14,21 and 28 days.

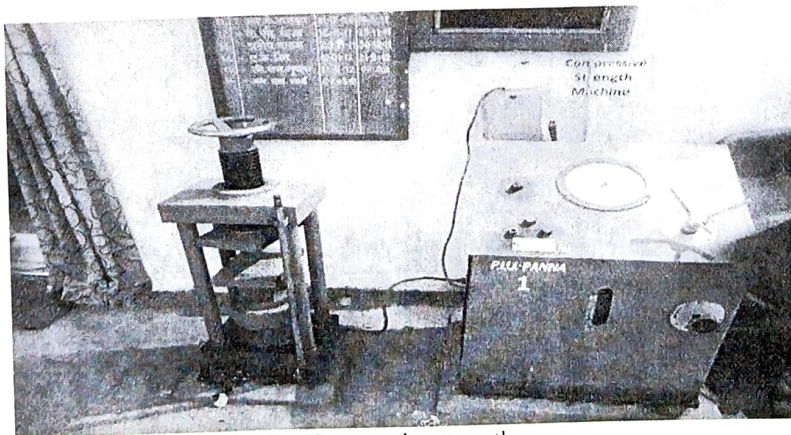


Fig. 9.1 Compressive strength

10. Some Learning Experience From Internship

Through this Internship we got a opportunity to learn various of new things which will be helps us in future many types of stages.

This internship training helps us to involve in civil works on field. And helps us to learn how to read the drawing of civil structures and how to executes them on the field.

In this internship I had learn a lots of skills such as taem management, behavior to the others team mates, time management, how to achieve target with lest of losses.

And how to do our work with in proper timing.

And we have also visit the site and learn how to inspect that the construction work is going on as per the drawing structures or not.

We have also learn the responsibility of a civil engineer

And how does a civil engineer do his work on proper format.

And a civil engineer visit a site then he needs

- i. The drawing of the respected project where all the specification is given for execution.
- ii. The estimation sheet is the amount of work to be done is specified.
- iii. A work ragister to note the amount of work done on that time.
- iv. Inch tape and pen.

11. Conclusion

Storage of water in the forms of the water tank for purpuse of drinking , washing, cooking and other types of requirements the sewage tanks increasing importance of the water tanks in the present time.

PHE works for reduction of threats to public health and increasing the level of the environmental safety is one of the main priority trends for sustainable development.

We did also work in phe department and ground oriented level this will helps us to improve our knowledge of death and our problem solving skills in limited time period. It will helps us to know what was the challenges on the field work and learn us how to manage them .It was a wonderful experience and I would be ready for the job after completed my graduation.

12. References

- Civil Guruji , Site engineer pocket book

FORMAT

FORTNIGHTLY PROGRESS REPORT (FPR) FROM INDUSTRY MENTOR

Name of student	Bijesh Choudhary		Department	Civil Engg.	
Industry/Organization	PHE Panna		Date/Duration	20/01/22 - 31/01/22	
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	(Nature of work Excellent)				
<u>OVERALL GRADE (Any one)</u>	<u>POOR/AVERAGE/GOOD/VERY GOOD/EXCELLENT</u>				
<u>Name of Industry Mentor</u>	(T P S As)				
<u>Signature of Industry Mentor</u>	Amit Kumar				

Receiving Date	15/02/22	Name of Faculty Mentor	Gaurav Shrivastava	Sign	
Dr. Prachi Singh					

FORMAT

FORTNIGHTLY PROGRESS REPORT (FPR) FROM INDUSTRY MENTOR

Name of student	Brijesh Gupta		Department	civil eng.	
Industry Organization	PHE Panna		Date/Duration	11-11 01/03/22 - 15/3/22	
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	(Nature of work very good)				
<u>OVERALL GRADE (Any one)</u>	<u>POOR/AVERAGE/GOOD/VERY GOOD/EXCELLENT</u>				
<u>Name of Industry Mentor</u>	(TPSAS)				
<u>Signature of Industry Mentor</u>	Arpit tiwari				

Receiving Date	Name of Faculty Mentor	Signature
07/3/22	Chaurav Shrivastav	Dr. Prachi Singh

Dr. Prachi Singh

FORMAT

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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	(Nature of work very good)				
<u>OVERALL GRADE (Any one)</u>	<u>POOR/AVERAGE/GOOD/VERY GOOD/EXCELLENT</u>				
<u>Name of Industry Mentor</u>	(TPSAS)				
<u>Signature of Industry Mentor</u>	Arpit Tiwari				

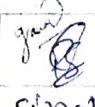
Receiving Date	27/3/22	Name of Faculty Mentor	Lauren Shrivastav	Sign	
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Dr. prachi singh

FORMAT

FORTNIGHTLY PROGRESS REPORT (FPR) FROM INDUSTRY MENTOR

Name of student	Brajesh Gupta		Department	Civil Eng.	
Industry/Organization	PHE Panna		Date/Duration	11-11 16/03/22-31/3/22	
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	(nature of work Excellent)				
<u>OVERALL GRADE (Any one)</u>	<u>POOR/AVERAGE/GOOD/VERY GOOD/EXCELLENT</u>				
<u>Name of Industry Mentor</u>	(TP) As)				
<u>Signature of Industry Mentor</u>	Anil Kumar				

Receiving Date	29/04/22	Name of Faculty Mentor	Gaurav Shrivastava	Sign	
			Dr. Prachi Singh		

FORMAT

FORTNIGHTLY PROGRESS REPORT (FPR) FROM INDUSTRY MENTOR

Name of student	Brajesh Gupta		Department	Civil Eng.	
Industry/Organization	PHE Panna		Date/Duration	11/04/22 - 15/04/22	
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	(Nature of work Excellent)				
<u>OVERALL GRADE (Any one)</u>	<u>POOR/AVERAGE/GOOD/VERY GOOD/EXCELLENT</u>				
<u>Name of Industry Mentor</u>	(TPIAS)				
<u>Signature of Industry Mentor</u>	Arpit Tiwari				

Receiving Date		Name of Faculty Mentor	Maunav shivastav	Sign	
29/04/22					Dr. Prachi Singh

FORMAT

FORTNIGHTLY PROGRESS REPORT (FPR) FROM INDUSTRY MENTOR

Name of student	Dyjesh Gupta		Department	Civil Eng	
Industry Organization	PHE Panna		Date/Duration	16/04/22 - 30/04/22	
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	Nature of work excellent				
<u>OVERALL GRADE (Any one)</u>	<u>POOR/AVERAGE/GOOD/VERY GOOD/EXCELLENT</u>				
<u>Name of Industry Mentor</u>	TRIAS				
<u>Signature of Industry Mentor</u>	[Signature]				

Receiving Date	6/6/22	Name of Faculty Mentor	Dr. Prachi Singh	Sign	[Signature]
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FORMAT

FORTNIGHTLY PROGRESS REPORT (FPR) FROM INDUSTRY MENTOR

Name of student	Brajesh Kumar		Department	civil eng	
Industry Organization	PHE Panmoy		Date/Duration	11/11/22 01/05/22-15/05/22	
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	(Nature of work excellent)				
OVERALL GRADE (Any one)	<u>POOR/AVERAGE/GOOD/VERY GOOD/EXCELLENT</u>				
Name of Industry Mentor	TILAS				
Signature of Industry Mentor	[Signature]				
Receiving Date	6/6/22	Name of Faculty Mentor	Dr. Prachi Singh	Sign	[Signature]

FORMAT

FORTNIGHTLY PROGRESS REPORT (FPR) FROM INDUSTRY MENTOR

Name of student	Rajesh Gupta		Department	civil eng.	
Industry Organization	PHE punna		Date-Duration	16/05/22-24/05/22	
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	Nature of work excellent				
<u>OVERALL GRADE (Any one)</u>	<u>POOR/AVERAGE/GOOD/VERY GOOD/EXCELLENT</u>				
<u>Name of Industry Mentor</u>	T. J. A. S.				
<u>Signature of Industry Mentor</u>	[Signature]				

Receiving Date	6/6/22	Name of Faculty Mentor	Dr. Prachi Singh	Sign	[Signature]
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FORMAT

FORTNIGHTLY PROGRESS REPORT (FPR) FROM INDUSTRY MENTOR

Name of student	Rajesh Gupta		Department	civil eng.	
Industry Organization	PHE panna		Date-Duration	16/05/22-24/05/22	
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	Nature of work excellent				
<u>OVERALL GRADE (Any one)</u>	<u>POOR/AVERAGE/GOOD/VERY GOOD/EXCELLENT</u>				
<u>Name of Industry Mentor</u>	T. L. S.				
<u>Signature of Industry Mentor</u>	[Signature]				

Receiving Date	6/6/22	Name of Faculty Mentor	Dr. Ptachi Singh	Sign	[Signature]
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Civil Engineering Department

Prachi
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HEAD
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