

Practical No.12: Prepare a visit report to construction site with respect scaffolding, formwork and centering work.

I. Practical Significance

Scaffolds are temporary structures constructed for supporting the workers and the materials. The scaffolds are platform-like structures that are used for structures with a height of more than 1.5 m. The scaffolds are removed once the construction of the building component is over. While Formwork is the structure, usually temporary, used to contain poured concrete and to mold it to the required dimensions and support until it is able to support itself. Centering is a type of formwork. It is done during construction to support the formwork for horizontal surfaces including floor beams and slabs. It is set up for a temporary period of time.

II. Industry/Employer Expected outcomes (POs)

This practical is expected to develop the following skills for the Industry identified.

1. A student should be able to know various material used in scaffolding, formwork and centering work
2. Select the material for scaffolding, formwork and centering work.
3. Check the level of scaffolding, formwork and centering work.

III. Course Level Learning Outcomes

Undertake the given type of building construction activity for the given component of building structure.

IV. Laboratory learning outcome(s)

Prepare a site visit report with respect to scaffolding, formwork and centering work.

V. Relevant Affective Domain

1. Follow safety practices and precautions.
2. Maintain tools and equipment.

VI. Relevant Theoretical Background

1. Component parts of scaffolding.
2. Types of scaffolding
3. Requirement of good formwork and its purpose
4. Component parts of formwork.
5. Material required for scaffolding, formwork, centering.

IX. Precautions to be followed

1. To check Type of structure.
2. Type of scaffolding, formwork and centering
3. Material used for scaffolding, formwork and centering
4. Various parts of scaffolding, formwork and centering
5. Precaution taken at the time of erection.
6. Using of civil equipment
7. Use safety measures on site.
8. Listen and follow the instruction given by site in charge.
9. Maintain discipline during Visit.

X. Procedure:

Field Visit Report

Date of Visit-----25 March 2025

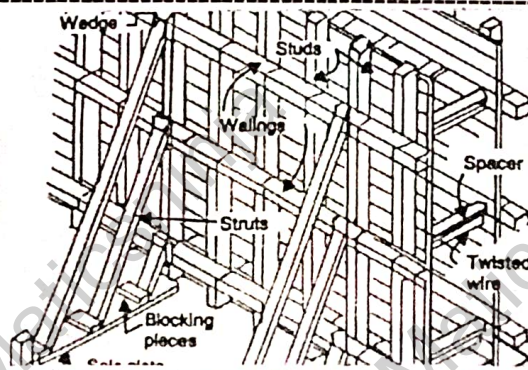
Site Address-----Taroda Naka Nanded

Name of Project--Residential building

Name of Contractor & Site Engineer--Rathod. M. S.

Status of project-Completed/ongoing-----ongoing.

XI. Observation Actual Procedure followed – (Attached Photograph)



XII. Result

Scaffolds are temporary structures controlled for supporting the worker's and the materials

XIII. Interpretation of results

this is partial to develop the following skills for the industry visit.

XIV. Conclusions and Recommendations

Visit report with respect to scaffolding or work and centering work.

XV. Practical Related Questions

1. Define scaffolding, formwork and centering
2. Enlist the various parts of scaffolding, formwork and centering
3. Enlist the types of scaffolding
4. State the Requirement of good scaffolding, formwork and centering
5. List the causes of failure.

Q. 1) → 1) a temporary structure used to support works and materials during the construction repair or maintenance into which of concrete is poured to it desired shape a type of formwork used specifically to support horizontal structure elements

Q. 2) → part of scaffolding:- 1) standard 2) legends 3) Braces 4) putlog 5) plants or decking 6) top board 7) guard rails 8) B-us plate. part of formwork 1) Sheeting 2) Bears 3) water 4) Braces 5) files and anchors.

Q. 3) —→ 1) single scaffolding 2) Double scaffolding 3) can scaffolding suspended scaffolding
Q. 4) —→ requirement of good scaffolding strength stability must be support workers material

XVI. References/Suggestions for further Reading

Sr. No	Links	Discription
1	https://youtu.be/LfJAZb_0TJo?si=jBBBcpm5sGvC-naa	scaffolding, formwork and centering work.
2	https://www.youtube.com/watch?v=XsFeVuVQE-E	scaffolding, formwork and centering work.
3	https://youtu.be/Blw1bYBR1Co?si=IEzT5MLOhXf8RZv2	scaffolding, formwork and centering work.

XVII. Suggested Assessment Scheme

Performance Indicators		Weightage (%)
Process related: 15 Marks		60%
1	Identify scaffolding, formwork and centering materials	25%
2	Selection of materials as per requirement	25%
3	Working of team	10%
Product related: 10 marks		40%
1	Answers to practical related questions	30%
2	Submission of report in time	10%
Total:25 Marks		100%