Practical No.10: Assemble Brick thick wall in a Flemish Bond. (Minimum 3 Course) and prepare a report on it with sketches/photos.

#### 1, Practical Significance

Bricks are the most commonly used material for building walls. The main reason for it is easily available and it is easy to handle. Bricks, as building material, are used in construction of load bearing structures walls and nonstructural members such as partitions walls etc. Brick masonry is a process of arranging bricks in courses.in courses bricks are longitudinal and transverse interlock to each other and form bound. Bonding in brick masonry is necessary to remove the continuity of the vertical joints in the successive course of the faces of a wall. For the construction of brick masonry Stretcher bond, Header bond, English bond, Flemish bond are used.

# II. Industry/Employer Expected outcomes (POs)

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

- 1. Identify good quality of Bricks.
- 2. A student should be able to self-assemble brick masonry.
- 3. Construct brick wall in different bond.
- 4. To check verticality and horizontality of wall.

#### 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)

Assemble one and half Brick thick wall in given bond.

### V. Relevant Affective Domain

- 1. Follow safety practices and precautions.
- 2. Maintain tools and equipment.
- 3. Maintain uniformity in work.

# VI. Relevant Theoretical Background

#### Flemish Bond-

In Flemish bond, alternatively the header and stretcher are present in the same course. And the appearance remains the same in every course of the brick masonry. In this arrangement, the alternative courses start with a header and stretcher face. Queen closer is present after header quoin in the course which starts with header face for disturbing the vertical joints continuity in the successive courses. Bat is used in this type of bond when the thickness of the wall is equal.

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Sr.no	Links	Discription
1	https://youtu.be/IXDyBE4x7kE?si=FECrUtNSyZ_KyKB4	Flemish bond
2	https://www.youtube.com/watch?v=3XGt-p-hpdU	Flemish bond
3	https://www.youtube.com/watch?v=L-VGe2j53NU	Flemish bond