

SECTION-5

**TECHNICAL SPECIFICATION**

**Item No. 3. Removing and scrapping of old deteriorated plaster of any thickness from masonry/RCC member including stacking of servicable material and disposal of unservicable from site of work with all lead and lift.**

**1.0 workmanship**

- When dismantling walls with plaster, measure along the existing slopes and exclude the plaster thickness. Carefully remove items by hand, and lower them to the ground if necessary.
- Use a scraper or chisel to remove the plaster. Keep the scraper close to the wall and at a 45-degree angle or less to apply maximum force and avoid dulling the blade. For harder areas, use a 2-inch wide chisel
- Remove efflorescence by brushing and scraping, then wash the surface with water. Dispose of debris within 50 meters or to a place approved by the Engineer-in-charge
- Use a long reach scraper to efficiently remove plaster from brick walls

**2.0. Mode of measurements and payment**

2.1. Measurements of all work except hidden work shall be taken before demolition or dismantling and no allowance for increase in bulk shall be allowed. The demolition of lime concrete shall be measured under this item. Specification for deduction for voids, openings etc. shall be on same basis as that employed for construction of work.

2.2. All work shall be measured in decimal system as fixed in its place subject to the following limits; unless otherwise stated hereinafter :

(a) Dimensions shall be measured to the nearest 0.01 mt. (b) Area shall be worked out to the nearest 0.01 sq. mt.(c) Cubical contents shall be worked out to the nearest 0.01 Sq M.

2.4. The unserviceable materials shall be stacked as directed by Engineerin-charge with all leads and lifts..

2.5. The rate shall be for a unit of One Square Meter.

**Item No. 5. Dismantling Existing Ceiling including distempering and stacking the materials with all lead and lift.**

1.0. Workmanship: 1.1. The relevant specifications of item 20.1 (I) shall be followed except that the cement asbestos hard board in ceiling or partition walls, wooden trellis, work etc.

**2.0. Mode of measurements & payment:**

The relevant specifications of item No. 20.1 (I) shall be followed. The serviceable materials shall be stacked as and where directed and the unserviceable materials shall be disposed off with all leads and lifts.

The rate shall be for a unit of one square meter

**Item No. 6 Dismantling Existing Ply Partition including distempering and stacking the materials with all lead and lift.**

1.0. Workmanship: 1.1. The relevant specifications of item 20.1 (I) shall be followed except that the cement asbestos hard board in ceiling or partition walls, wooden trellis, work etc.

**2.0. Mode of measurements & payment:**

The relevant specifications of item No. 20.1 (I) shall be followed. The serviceable materials shall be stacked as and where directed and the unserviceable materials shall be disposed off with all leads and lifts.

The rate shall be for a unit of one square meter

**Item No.7 Applying general insecticide pest control treatment to floors, cupboards etc including labour materials etc. By drilling in existing floors and pour pest control solution in it and filled it with cement slurry complete. Using Imidacloprid 30.5 SCas Per IS 6313 part -II( 0.075% concentration by mass) or terminator (Pidilite) or equivalent is recommended 10.5ml chemical diluted with 5 liters of water application 0.5 litre chemical /Sqm of surface is recommended as per I.S**

#### **1. Material:**

- All type of material shall be used as per approved make list and confirming to relevant IS codes and approved by Employer's representative/employer

#### **2. Workmanship:**

- The chemicals barrier shall be complete and continuous under whole of the structure to be protected.
- The bottom and the sides of foundations up to a height of 30 cms. from the bottom of excavation made for masonry foundation and for basement column pits shall be treated with the chemical emulsion at the rate **5 liters/ sq. meter of the surface area.**
- The chemical treatment shall be-carried out when the surfaces is quite dry. Chemical treatment shall not be carried out when it is raining or when the soil wet with rain or sub soil water.
- Once formed, treated soil barriers shall be not disturbed. If by chance, treated soil barriers are disturbed, immediate steps shall be taken to restore the continuing and compactness of the barrier systemThe treatment against termite infection shall remain fully effective for a period not less than 10 years from date of issue of the final certificate to completion of work. If at any time during this period, any defects in treatment are revealed or any evidence of infection in any part of the building or structure is noticed, the contractor shall be rectify the concerned defects within 14 days on receipt of notice from Engineer-in-charge. On contractor's failure to do so, the Engineer-in-charge may get the same rectified through any other agency at contractor's risk and cost, and decision of Engineer-in-charge as to the cost payable by contractor for the same shall be final and binding to the contractor.
- A guarantee bond on appropriately stamped paper shall be given by the contractor to the department in the manner and form prescribed below:
- **FORM OF GUARANTEE BOND**
- I/We..... (Contractor) hereby guarantee that work will remain unaffected and will not be any way damaged by termite or any other germs of similar types, for a period for 10 years after completion of the work of anti-termite as per the terms and conditions of the contract and or damage that might be caused on account of termite and or other similar type of germs and hereby Guarantees to make good any loss of damages suffered by the Government of Gujarat and further guarantee to redo effective work without claiming any extra cost.
- This guarantee shall remain in force for the period of 10 years from the completion of the work under the contract and it shall remain binding to the contractor for period of 10 years.

- The deposit at the rate of 50% of the cost of this item from the running and final bills shall be recovered and retained for the first one year after completion of the work and 10% shall be retained for the balance of guarantee period and shall be refunded only after the completion of the guarantee period.

**Measurements:**

- The rate shall be consolidated for all above items.
- The rate shall include the cost of all labour, scaffolding, etc. to complete the whole work satisfactorily as per instruction of Employer's representative/employer
- No extra payment will be given for any of the reasons.
- The rate shall be for a unit of One Square meter.

**Item No. 11 Applying two coats of putty & two coats of primer of approved brand and manufacture on new wall surface to give an even shade including thoroughly brushing the surface free from mortar dropping and other foreign matter and sand papered smooth.**

**1. Materials:**

- All type of material shall be used as per approved make list and confirming to relevant IS codes and approved by EIC/Architect.

**2. Workmanship:**

- The whole work is to be completed as per design; sample material & any other requirement shall be as per instruction of EIC/Architect.
- Work complete as per relevant specification of Item No: 19.12 in General specification R & B booklet for building works.

**3. Measurements:**

- The rate shall be consolidated for all above items.
- The rate shall include the cost of all materials, finishing, labour, etc. to complete the whole work satisfactorily as per instruction of EIC/Architect.
- No extra payment will be given for any of the reasons.
- The rate shall be for a unit of One Square Meter.

**Item No. 12 Ceiling painting (two coats) with plastic emulsion paint of approved brand and manufacture on undecorated ceiling surface to give an even shade including thoroughly brushing the surface free from mortar droppings and other foreign matter and sand papered smooth.**

**1. Materials:**

- All type of material shall be used as per approved make list and confirming to relevant IS codes and approved by EIC/Architect.

**2. Workmanship:**

- The whole work is to be completed as per design; sample material & any other requirement shall be as per instruction of EIC/Architect.

- Work complete as per relevant specification of Item No: 18.57 in General Specification R & B booklet for building works.

### **3. Measurements:**

- The rate shall be consolidated for all above items.
- The rate shall include the cost of all materials, finishing, labour, etc. to complete the whole work satisfactorily as per instruction of EIC/Architect.
- No extra payment will be given for any of the reasons.
- The rate shall be for a unit of One Square Meter.

**Item No. 13 Wall painting (two coats) with plastic emulsion paint of approved brand and manufacture on undecorated wall surface to give an even shade including thoroughly brushing the surface free from mortar droppings and other foreign matter and sand papered smooth.**

#### **1. Materials:**

- All type of material shall be used as per approved make list and confirming to relevant IS codes and approved by EIC/Architect.

#### **2. Workmanship:**

- The whole work is to be completed as per design; sample material & any other requirement shall be as per instruction of EIC/Architect.
- Work complete as per relevant specification of Item No: 18.57 in General Specification R & B booklet for building works.

### **3. Measurements:**

- The rate shall be consolidated for all above items.
- The rate shall include the cost of all materials, finishing, labour, etc. to complete the whole work satisfactorily as per instruction of EIC/Architect.
- No extra payment will be given for any of the reasons.
- The rate shall be for a unit of One Square Meter.

**Item No. 14 Finishing wall with weather proof exterior emulsion paint on wall surface (two coats) to give an required shape even shade after thoroughly brushing the surface to remove all dirt, and remains of loose powdered materials.etc complete.**

#### **1. Materials:**

- All type of material shall be used as per approved make list and confirming to relevant IS codes and approved by EIC/Architect.

#### **2. Workmanship:**

- The whole work is to be completed as per design; sample material & any other requirement shall be as per instruction of EIC/Architect.
- Work complete as per relevant specification of Item No: 18.11 in General specification R & B booklet for building works.

### 3. Measurements:

- The rate shall be consolidated for all above items.
- The rate shall include the cost of all materials, finishing, labour, etc. to complete the whole work satisfactorily as per instruction of EIC/Architect.
- No extra payment will be given for any of the reasons.
- The rate shall be for a unit of One Square Meter.

**Item No. 20 Providing & Placing in position Plywood Partition 75mm Thick with 1mm thick Outside laminate finish & Inside 6mm Thick mdf (Water Proof MDF) with PU Finish With 4 x 4mm Design Groove as/Architect Design, Structure made from 50 x 25 x 2.3 mm aluminium Section and Both Side in 12mm BWP plywood of standard make like Century, Greenlam, Marine, Greenply, Saint-Gobain, Sainik etc, with edge finish in teakwood batten & Melamine Polish on Batten Patti etc. complete, with all necessary tools & Accessories etc. complete. as per instruction given by engineer in charge/Architect.**

#### 1. Material Specifications

##### 1.1 Partition Thickness:

- 75mm thick plywood partition.

##### 1.2 Surface Finish:

- **Exterior:** 1mm thick outside laminate finish.
- **Interior:** 6mm thick waterproof MDF (Medium Density Fiberboard) with PU finish.

##### 1.3 Design Features:

- 4 x 4mm design grooves as per the architect's design.

##### 1.4 Structure:

- Frame made from **50 x 25 x 2.3 mm** aluminum sections.
- **Both sides** of the partition will be finished with **12mm BWP plywood** (Boiling Water Proof plywood) of standard brands like:
  - Century
  - Greenlam
  - Marine
  - Greenply
  - Saint-Gobain
  - Sainik (or equivalent).

##### 1.5 Edge Finish:

- Teakwood batten edge finish.
- **Melamine Polish** on the batten patti (wooden edge molding).

##### 1.6 Accessories and Tools:

- All necessary tools, accessories, and materials required for the installation.
- Installation will be in accordance with the instructions provided by the engineer in charge or architect.

#### 2. Workmanship

##### 2.1 Assembly:

- Use appropriate joinery techniques (e.g., dowel joints, screws) to ensure structural integrity and durability.
- Ensure all components are properly aligned and secured during assembly.

##### 2.2 Installation:

- Ensure the Partition is level and securely fixed to the wall or floor as required to prevent tipping.

### 3. Quality Control

#### 3.1 Inspection:

- Inspect all materials for quality and compliance before installation.

- Verify the smooth operation of all drawers and shutters.

### **3.2 Testing:**

- Test the stability of the.

### **4. Health and Safety**

- Use appropriate personal protective equipment (PPE) during installation.
- Follow safety protocols when handling tools, paints, and finishes.

### **5.Measurements:**

- The rate shall be consolidated for all above items.
- The rate shall include the cost of all labour, scaffolding, etc. to complete the whole work satisfactorily as per instruction of EIC/Architect.
- No extra payment will be given for any of the reasons.
- The rate shall be for a unit of One Square Meter.

**Item No. 21 Providing & Placing in position Charcoal Fluted Panel 19mm Thick as/Architect Design,Fixing on ply partition with all necessary tools & Accesories etc. complete. as per instruction given by engineer in charge/Architect.**

### **1. Material Specifications**

#### **1.1 Panel Thickness:**

- **19mm thick** charcoal fluted panel as per architect's design.

#### **1.2 Fixing:**

- The panel will be fixed onto the plywood partition as per the architect's design.

#### **1.3 Tools and Accessories:**

- All necessary tools and accessories required for fixing and installation will be provided.

#### **1.4 Completion:**

- Installation and fixing will be done in accordance with the instructions provided by the engineer in charge or architect.

#### **1.5 Accessories and Tools:**

- All necessary tools, accessories, and materials required for the installation.
- Installation will be in accordance with the instructions provided by the engineer in charge or architect.

### **2. Workmanship**

#### **2.1 Assembly:**

- Use appropriate joinery techniques (e.g., dowel joints, screws) to ensure structural integrity and durability.
- Ensure all components are properly aligned and secured during assembly.

#### **2.2 Installation:**

- Ensure the Panel is level and securely fixed to the wall or Partitoin as Required/ directed by EIC.

### **3. Quality Control**

#### **3.1 Inspection:**

- Inspect all materials for quality and compliance before installation.
- Verify the smooth operation of all drawers and shutters.

#### **3.2 Testing:**

- Test the stability of the Panel

### **4. Health and Safety**

- Use appropriate personal protective equipment (PPE) during installation.
- Follow safety protocols when handling tools, paints, and finishes.

### **5.Measurements:**

- The rate shall be consolidated for all above items.
- The rate shall include the cost of all labour, scaffolding, etc. to complete the whole work satisfactorily as per instruction of EIC/Architect.
- No extra payment will be given for any of the reasons.

- The rate shall be for a unit of One Square Meter.

**Item No. 22 Providing & Placing in position modesty(privacy) panel of size 1675 X 1220 mm or 1700 x 1220 mm or as per requirement having 1mm thick laminate finish Both side, Modesty(privacy) Panel made from 19mm (2 Layer=38mm) BWP plywood of standard make like Century, Greenlam, Marine, Greenply, Saint-Gobain, Sainik etc, with edge finish in teakwood batten & Melamine Polish on Batten Patti etc. complete,with all necessary tools & Accesories etc. complete as per instruction given by engineer in charge/Architect.**

### **1. Material Specifications**

#### **1.1 Dimensions:**

- Size of the modesty (privacy) panel: 1675 x 1410 mm or 1700 x 1410 mm or as per requirement.

#### **1.2 Material:**

- The panel is to be made from **19mm (2 layers = 38mm) BWP (Boiling Water Proof) plywood** of a standard make such as Century, Greenlam, Marine, Greenply, Saint-Gobain, Sainik, or equivalent.

#### **1.3 Finish:**

- The panel should be finished with a **1mm thick laminate** on both sides, providing durability and a smooth surface.

#### **1.4 Edge Finish:**

- The edges of the panel must be finished with **teakwood batten**, providing an elegant appearance and additional strength.

#### **1.5 Melamine Polish:**

- **Melamine polish** should be applied on the batten patties to ensure protection and give a polished, refined look.

#### **1.6 Accessories & Tools:**

- All necessary tools, accessories, and fittings (e.g., screws, brackets, etc.) for installation are to be included.

#### **1.7 Installation:**

- The modesty (privacy) panel is to be **placed in position as per the requirement** or as directed by the **Engineer in charge/Architect**.

### **2. Workmanship:**

- All work should be carried out with proper workmanship, ensuring the finished panel is securely placed and aesthetically pleasing.

#### **2.1 Assembly:**

- Use appropriate joinery techniques (e.g., dowel joints, screws) to ensure structural integrity and durability.
- Ensure all components are properly aligned and secured during assembly.

#### **2.2 Installation:**

- Ensure the Panel is level and securely fixed to the wall or Partitoin as Required/ directed by EIC.

### **3. Quality Control**

#### **3.1 Inspection:**

- Inspect all materials for quality and compliance before installation.

#### **3.2 Testing:**

- Test the stability of the Panel

### **4. Health and Safety**

- Use appropriate personal protective equipment (PPE) during installation.
- Follow safety protocols when handling tools, paints, and finishes.

### **5.Measurements:**

- The rate shall be consolidated for all above items.



- The rate shall include the cost of all labour, scaffolding, etc. to complete the whole work satisfactorily as per instruction of EIC/Architect.
- No extra payment will be given for any of the reasons.
- The rate shall be for a unit of One Square Meter.

**Item No. 23 Providing & Placing in position table of size 2440 X 900 X 750 mm with 1mm thick laminate finish outer side & Inside 0.8mm thick inner laminate Finish, Top & Side made from 19mm (2 Layer=38mm) BWP plywood of standard make like Century, Greenlam, Marine, Greenply, Saint-Gobain, Sainik etc, with edge finish in teakwood batten & Melamine Polish on Batten Patti etc. complete, with all necessary tools & Accesories etc. complete. After Finishing 18mm Italian Marble with all Finishing need to be provided as Top & With Chamfer Edges as per instruction given by engineer in charge/Architect.**

## **1. Material Specifications**

### **1.1 Table Dimensions:**

- **Overall Size:** 2440 mm (Length) x 900 mm (Width) x 750 mm (Height).

### **1.2 Material:**

- **Top & Side Construction:**
  - Material: **19 mm (2 Layers = 38 mm) BWP Plywood** (Boiling Water Proof Plywood) of standard make like Century, Greenlam, Marine, Greenply, Saint-Gobain, Sainik, etc.
- **Finish:**
  - **Outer Side:** 1 mm thick **Laminate Finish** (for durability and aesthetics).
  - **Inner Side:** 0.8 mm thick **Inner Laminate Finish** (to ensure smooth, attractive interior surface).

### **1.3 Edge Finish:**

- **Teakwood Batten:** For edge finishing, the table will feature a **Teakwood Batten** along the edges, providing a neat and robust finish.
- **Melamine Polish:** The **Teakwood Batten** will be finished with a **Melamine Polish** to ensure smoothness and protect against wear.

### **1.4 Top Surface:**

- After finishing, the **Top Surface** will be completed with **18 mm Italian Marble**.
- The **Marble Finish** will include **Chamfer Edges** as per the instructions given by the Engineer-in-Charge/Architect.

### **1.5 Workmanship:**

- The work will be carried out with all necessary **tools** and **accessories**, ensuring the table is assembled accurately and with high-quality craftsmanship.

### **1.6 Completion:**

- The final product will include all required **finishing** details as per the specifications, ensuring it meets both functional and aesthetic requirements.

### **1.7 Installation:**

- The table will be placed in position as per the approved layout plan or instructions provided by the Architect/Engineer.

## **2. Workmanship:**

- All work should be carried out with proper workmanship, ensuring the finished panel is securely placed and aesthetically pleasing.

### **2.1 Assembly:**

- Use appropriate joinery techniques (e.g., dowel joints, screws) to ensure structural integrity and durability.
- Ensure all components are properly aligned and secured during assembly.

### **2.2 Installation:**

- Ensure the Panel is level and securely fixed to the wall or Partitoin as Required/ directed by EIC.

### 3. Quality Control

#### 3.1 Inspection:

- Inspect all materials for quality and compliance before installation.

#### 3.2 Testing:

- Test the stability of the Panel

### 4. Health and Safety

- Use appropriate personal protective equipment (PPE) during installation.
- Follow safety protocols when handling tools, paints, and finishes.

### 5. Measurements:

- The rate shall be consolidated for all above items.
- The rate shall include the cost of all labour, scaffolding, etc. to complete the whole work satisfactorily as per instruction of EIC/Architect.
- No extra payment will be given for any of the reasons.
- The rate shall be for a unit of One Square Meter.

**Item No. 24 Providing & Placing in position Low Height Storage of size 900 X 450 X 765 mm with 1mm thick laminate finish outer side & Inside 0.8mm thick inner laminate Finish, Top,Bottom,Shelf & Both Side & Shutter made from 19mm BWP plywood & back side in 12mm BWP plywood of standard make like Century, Greenlam, Marine, Greenply, Saint-Gobain, Sainik etc,Drawer & Sliding Shutter with edge finish in teakwood batten & Melamine Polish on Batten Patti etc. complte,with all necessary tools & Accesories etc. complete. as per instruction given by engineer in charge/Architect.**

### 1. Material Specifications

#### 1.1 Dimensions

- Overall Size: **900 mm (W) x 450 mm (D) x 765 mm (H)**

#### 1.2 Materials

- **Top, Bottom, Shelves, Both Sides & Shutters:**
  - Made from **19mm BWP (Boiling Water Proof) Plywood**
  - Standard brands: **Century, Greenply, Marine, Sainik, Saint-Gobain, etc.**
- **Back Panel:**
  - Made from **12mm BWP Plywood**
- **Laminate Finish:**
  - **Exterior: 1mm thick laminate** (Standard Make: Greenlam, Century, Marino, etc.)
  - **Interior: 0.8mm thick laminate**
- **Edges & Finish:**
  - **Teakwood batten** on edges
  - **Melamine polish** on teakwood batten
- **Drawers & Sliding Shutters:**
  - Smooth operation with proper alignment

#### 1.3. Hardware & Accessories

- **Handles, Locks & Hinges:** Branded fittings of standard quality
- **Sliding Channels & Shutter Mechanism:** Smooth & durable
- **Other Fittings:** As per requirement and as instructed by the Engineer-in-Charge/Architect

#### 1.4. Execution & Workmanship

- **Proper alignment & leveling** while installation
- **Neat edge finishing** with no sharp edges or rough areas
- **Smooth operation** of shutters/drawers
- **All necessary tools & accessories** to be provided

- **Final approval by Engineer-in-Charge/Architect** before completion
- 2. Workmanship:**
  - All work should be carried out with proper workmanship, ensuring the finished panel is securely placed and aesthetically pleasing.
- 2.1 Assembly:**
  - Use appropriate joinery techniques (e.g., dowel joints, screws) to ensure structural integrity and durability.
  - Ensure all components are properly aligned and secured during assembly.
- 2.2 Installation:**
  - Ensure the Panel is level and securely fixed to the wall or Partitoin as Required/ directed by EIC.
- 3. Quality Control**
  - 3.1 Inspection:**
    - Inspect all materials for quality and compliance before installation.
  - 3.2 Testing:**
    - Test the stability of the Panel
- 4. Health and Safety**
  - Use appropriate personal protective equipment (PPE) during installation.
  - Follow safety protocols when handling tools, paints, and finishes.
- 5. Measurements:**
  - The rate shall be consolidated for all above items.
  - The rate shall include the cost of all labour, scaffolding, etc. to complete the whole work satisfactorily as per instruction of EIC/Architect.
  - No extra payment will be given for any of the reasons.
  - The rate shall be for a unit of One Square Meter.

**Item No. 25 Providing & Placing in position Plywood Partition 75mm Thick with 1mm thick Both side laminate finish With 4 x 4mm Design Groove as/Architect Design and Plain/Frosted Film 8mm Toughen glass in Middle of partition with both side finish in teakwood batten & Melamine Polish on Batten Patti etc, Stucture made from 50 x 25 x 2.3 mm alluminium Section and Both Side in 12mm BWP plywood of standard make like Century, Greenlam, Marine, Greenply, Saint-Gobain, Sainik etc, with edge finish in teakwood batten & Melamine Polish on Batten Patti etc. complte,with all necessary tools & Accesories etc. complete. as per instruction given by engineer in charge/Architect.**

- 1. Material Specifications**
  - 1.1 Dimensions & Structure**
    - **Overall Thickness:** 75mm
    - **Frame Structure:** 50mm x 25mm x 2.3mm **Aluminum Section**
    - **Panel Material:** 12mm **BWP Plywood** (Both Sides)
    - **Standard Brands:** Century, Greenply, Marine, Sainik, Saint-Gobain, etc.
  - 1.2 Surface Finishing**
    - **Laminate Finish:**
      - **Both Sides:** 1mm thick **laminate finish** (Standard Make: Greenlam, Century, Marino, etc.)
      - **Design Grooves:** 4mm x 4mm **grooves** as per Architect's design
    - **Edge Finishing:**
      - **Teakwood Batten** on both sides
      - **Melamine Polish** on teakwood batten for a premium finish
  - 1.3. Glass Panel Section**
    - **Type:** 8mm **Toughened Glass**
    - **Placement:** Installed in the middle of the partition

- **Finish:**
  - Plain/Frosted film as per design requirement
  - Properly fixed with secure beading and adhesives

#### **1.4 Hardware & Accessories**

- **Fasteners & Fixing:** Heavy-duty screws and adhesives for a firm installation
- **Necessary Hardware:** All required fittings to be of standard quality
- **Jointing & Finishing:** Smooth joints and no visible gaps

#### **2. Workmanship:**

- All work should be carried out with proper workmanship, ensuring the finished panel is securely placed and aesthetically pleasing.
- **Proper alignment & leveling** for stability
- **Smooth edges with no rough areas**
- **All materials & workmanship to be approved** by the Engineer-in-Charge/Architect before completion

##### **2.1 Assembly:**

- Use appropriate joinery techniques (e.g., dowel joints, screws) to ensure structural integrity and durability.
- Ensure all components are properly aligned and secured during assembly.

##### **2.2 Installation:**

- Ensure the Panel is level and securely fixed to the wall or Partitoin as Required/ directed by EIC.

#### **3. Quality Control**

##### **3.1 Inspection:**

- Inspect all materials for quality and compliance before installation.

##### **3.2 Testing:**

- Test the stability of the Panel

#### **4. Health and Safety**

- Use appropriate personal protective equipment (PPE) during installation.
- Follow safety protocols when handling tools, paints, and finishes.

#### **5. Measurements:**

- The rate shall be consolidated for all above items.
- The rate shall include the cost of all labour, scaffolding, etc. to complete the whole work satisfactorily as per instruction of EIC/Architect.
- No extra payment will be given for any of the reasons.
- The rate shall be for a unit of One Square Meter.

**Item No. 26 Providing & Placing in position Plywood Partition 75mm Thick with 1mm thick Both side laminate finish With 4 x 4mm Design Groove as/Architect Design, Stucture made from 50 x 25 x 2.3 mm alluminium Section and Both Side in 12mm BWP plywood of standard make like Century, Greenlam, Marine, Greenply, Saint-Gobain, Sainik etc, with edge finish in teakwood batten & Melamine Polish on Batten Patti etc. complte,with all necessary tools & Accesories etc. complete. as per instruction given by engineer in charge/Architect.**

#### **1. Material Specifications**

##### **1.1 Dimensions & Structure**

- **Overall Thickness:** 75mm
- **Frame Structure:** 50mm x 25mm x 2.3mm **Aluminum Section**
- **Panel Material:** 12mm **BWP Plywood** (Both Sides)
- **Standard Brands:** Century, Greenply, Marine, Sainik, Saint-Gobain, etc.

##### **1.2 Surface Finishing**

- **Laminate Finish:**

- **Both Sides:** 1mm thick **laminated finish** (Standard Make: Greenlam, Century, Marino, etc.)
    - **Design Grooves:** 4mm x 4mm **grooves** as per Architect's design
  - **Edge Finishing:**
    - **Teakwood Batten** on both sides
    - **Melamine Polish** on teakwood batten for a premium finish
- 1.3 Hardware & Accessories**
- **Fasteners & Fixing:** Heavy-duty screws and adhesives for a firm installation
  - **Necessary Hardware:** All required fittings to be of standard quality
  - **Jointing & Finishing:** Smooth joints and no visible gaps
- 2. Workmanship:**
- All work should be carried out with proper workmanship, ensuring the finished panel is securely placed and aesthetically pleasing.
  - **Proper alignment & leveling** for stability
  - **Smooth edges with no rough areas**
  - **All materials & workmanship to be approved** by the Engineer-in-Charge/Architect before completion
- 2.1 Assembly:**
- Use appropriate joinery techniques (e.g., dowel joints, screws) to ensure structural integrity and durability.
  - Ensure all components are properly aligned and secured during assembly.
- 2.2 Installation:**
- Ensure the Panel is level and securely fixed to the wall or Partitoin as Required/ directed by EIC.
- 3. Quality Control**
- 3.1 Inspection:**
- Inspect all materials for quality and compliance before installation.
- 3.2 Testing:**
- Test the stability of the Panel
- 4. Health and Safety**
- Use appropriate personal protective equipment (PPE) during installation.
  - Follow safety protocols when handling tools, paints, and finishes.
- 5. Measurements:**
- The rate shall be consolidated for all above items.
  - The rate shall include the cost of all labour, scaffolding, etc. to complete the whole work satisfactorily as per instruction of EIC/Architect.
  - No extra payment will be given for any of the reasons.
  - The rate shall be for a unit of One Square Meter.

**Item No. 27 Providing & Placing in position table of size 1675 X 800 X 750 mm or size 2135 X 900 X 75 with 1mm thick laminated finish outer side & Inside 0.8mm thick inner laminated Finish, Top & Side BWP plywood of standard make like Century, Greenlam, Marine, Greenply, Saint-Gobain, Sainik etc, with edge finish in teakwood batten & Melamine Polish on Batten Patti etc. complete, with all necessary tools & Accessories etc. complete. After Finishing 8mm Toughened Glass with chamfer Edge need to be provided as Top as per instruction given by engineer in charge/Architect.**

## **1. Material Specifications**

### **1.1 Dimensions**

- **Option 1:** 1675 mm (L) x 800 mm (W) x 750 mm (H)
- **Option 2:** 2135 mm (L) x 900 mm (W) x 750 mm (H)

## 1.2. Material Specifications

- **Top & Side Panels: BWP (Boiling Water Proof) Plywood** of **approved brands** such as Century, Greenlam, Marine, Greenply, Saint-Gobain, Sainik, etc.
- **Laminate Finish:**
  - **Outer Surface:** 1mm thick **laminate finish**
  - **Inner Surface:** 0.8mm thick **laminate finish**
- **Edge Finishing:**
  - **Teakwood Batten** for all exposed edges
  - **Melamine Polish** on teakwood batten for durability and aesthetics

## 1.3. Glass Top

- **Material: 8mm Toughened Glass**
- **Edge Treatment:** Chamfered edge for safety and aesthetics
- **Fixing:** Properly placed on top with clear rubber buffers or concealed fixing as per design

## 1.4. Hardware & Accessories

- **All required screws, adhesives, and fixings** to be of high quality
- **Proper reinforcement & leveling** for stability

## 2. Workmanship:

- All work should be carried out with proper workmanship, ensuring the finished panel is securely placed and aesthetically pleasing.
- **Proper alignment & leveling** for structural stability to avoid wobbling
- **Smooth finishing with no sharp edges**
- **All materials & workmanship to be approved** by the Engineer-in-Charge/Architect before completion

### 2.1 Assembly:

- Use appropriate joinery techniques (e.g., dowel joints, screws) to ensure structural integrity and durability.
- Ensure all components are properly aligned and secured during assembly.

### 2.2 Installation:

- Ensure the Table is level and securely fixed to the wall or Partition as Required/ directed by EIC.

## 3. Quality Control

### 3.1 Inspection:

- Inspect all materials for quality and compliance before installation.

### 3.2 Testing:

- Test the stability of the Table

## 4. Health and Safety

- Use appropriate personal protective equipment (PPE) during installation.
- Follow safety protocols when handling tools, paints, and finishes.

## 5. Measurements:

- The rate shall be consolidated for all above items.
- The rate shall include the cost of all labour, scaffolding, etc. to complete the whole work satisfactorily as per instruction of EIC/Architect.
- No extra payment will be given for any of the reasons.
- The rate shall be for a unit of One Square Meter.

**Item No. 28 Providing & Placing in position Operable Shutter Wardrobe of size 1220 X 450 X 2440 mm with 1mm thick laminate finish outer side & Inside 0.8mm thick inner laminate Finish, Top,Bottom,Shelf & Both Side & Shutter made from 19mm BWP plywood & back side in 12mm BWP plywood of standard make like Century, Greenlam, Marine, Greenply, Saint-Gobain, Sainik etc, with edge finish in teakwood batten & Melamine Polish on Batten Patti etc. complete,with all necessary tools & Accesories etc. complete. as per instruction given by engineer in charge/Architect.**

## **1. Material Specifications**

### **1.1 Dimensions**

- **Width:** 1220 mm
- **Depth:** 600 mm
- **Height:** 2440 mm

### **1.2. Material Specifications**

- **Structure:**
  - **Top, Bottom, Shelves, Sides & Shutters:** 19mm BWP (Boiling Water Proof) Plywood
  - **Back Panel:** 12mm BWP Plywood
  - **Approved brands:** Century, Greenply, Marine, Sainik, Saint-Gobain, etc.

### **1.3. Surface Finishing**

- **Laminate Finish:**
  - **Outer Surface:** 1mm thick **laminate finish** (Standard brands: Greenlam, Century, Marino, etc.)
  - **Inner Surface:** 0.8mm thick **laminate finish**
- **Edge Finishing:**
  - **Teakwood Batten** on all exposed edges
  - **Melamine Polish** on teakwood batten for a durable and aesthetic finish

### **1.4. Shutter Mechanism**

- **Type:** Operable Hinged Shutters
- **Hardware:**
  - Heavy-duty **soft-close hinges**
  - Standard quality **handles & locks**
  - Smooth operation with precise alignment

### **1.5 Hardware & Accessories**

- **Fasteners & Fixing:** Heavy-duty screws, fasteners, and adhesives for sturdy assembly
- **Necessary Accessories:** Hinges, handles, locks, magnetic catchers, and buffers of standard quality

## **2. Workmanship:**

- All work should be carried out with proper workmanship, ensuring the finished panel is securely placed and aesthetically pleasing.
- **Proper alignment & leveling** for structural stability to avoid wobbling
- **Smooth finishing with no sharp edges**
- **All materials & workmanship to be approved** by the Engineer-in-Charge/Architect before completion

### **2.1 Assembly:**

- Use appropriate joinery techniques (e.g., dowel joints, screws) to ensure structural integrity and durability.
- Ensure all components are properly aligned and secured during assembly.

### **2.2 Installation:**

- Ensure the Wardrobe is level and securely fixed to the wall or Partition as Required/ directed by EIC.

## **3. Quality Control**

### **3.1 Inspection:**

- Inspect all materials for quality and compliance before installation.

### 3.2 Testing:

- Test the stability of the Wardrobe

### 4. Health and Safety

- Use appropriate personal protective equipment (PPE) during installation.
- Follow safety protocols when handling tools, paints, and finishes.

### 5. Measurements:

- The rate shall be consolidated for all above items.
- The rate shall include the cost of all labour, scaffolding, etc. to complete the whole work satisfactorily as per instruction of EIC/Architect.
- No extra payment will be given for any of the reasons.
- The rate shall be for a unit of One Square Meter.

**Item No. 29 specification for Providing Decorative Center Table/Coffe Table size of 0.45 m x 0.75 m x 0.45 m as directed by Engineer-in-charge with all necessary tools & Accesories etc. complete.**

### 1. Material Specifications

#### 1.1. Dimensions

- **Length:** 0.75 m (750 mm)
- **Width:** 0.45 m (450 mm)
- **Height:** 0.45 m (450 mm)

#### 1.2. Material Specifications

- **Tabletop:**
  - Made from **19mm BWP (Boiling Water Proof) Plywood**
  - **1mm thick decorative laminate** on top for a premium finish
  - **Edge finishing with teakwood batten** and melamine polish
- **Table Frame & Legs:**
  - Made of **seasoned hardwood / engineered wood / metal frame** as per design
  - Properly polished or powder-coated for durability
  - **8mm toughened glass** with chamfered edges (if required)

#### 1.3. Surface Finishing

- **Polish & Paint:**
  - Melamine polish for wooden surfaces
  - Powder coating for metal parts (if applicable)
- **Laminate Finish:**
  - **1mm thick decorative laminate** on top and sides for aesthetic appeal

#### 1.4. Hardware & Accessories

- **High-quality screws, adhesives, and fittings** to ensure durability
- **Rubber or felt pads** at the bottom to prevent scratches on the floor

### 2. Workmanship:

- All work should be carried out with proper workmanship, ensuring the finished Table is securely placed and aesthetically pleasing.
- **Proper alignment & leveling** for structural stability to avoid wobbling
- **Smooth finishing with no sharp edges**
- **All materials & workmanship to be approved** by the Engineer-in-Charge/Architect before completion

#### 2.1 Assembly:

- Use appropriate joinery techniques (e.g., dowel joints, screws) to ensure structural integrity and durability.
- Ensure all components are properly aligned and secured during assembly.

#### 2.2 Installation:

- Ensure the Table is level and securely fixed to the wall or Partition as Required/ directed by EIC.



### 3. Quality Control

#### 3.1 Inspection:

- Inspect all materials for quality and compliance before installation.

#### 3.2 Testing:

- Test the stability of the Table

### 4. Health and Safety

- Use appropriate personal protective equipment (PPE) during installation.
- Follow safety protocols when handling tools, paints, and finishes.

### 5. Measurements:

- The rate shall be consolidated for all above items.
- The rate shall include the cost of all labour, scaffolding, etc. to complete the whole work satisfactorily as per instruction of EIC/Architect.
- No extra payment will be given for any of the reasons.  
The rate shall be for a unit of One Square Meter.

**Item No. 30 Providing Modern Sofa Length as per requirement (m) x 0.8m x 0.8m as Shown in architecture images using plywood Structure in frame & legs in m.s powder coating, Standard Foam Sheet To be Used in Seating & Back Rest of Sofa 4 inch as base and 2 inch on top as soft foam Brand Like Curlon (20 year warranty on foam) for better comfort & Standard Company Fabric All Side as directed by Architect/Engineer-in-charge with all necessary tools & Accessories etc. complete.**

#### 1. Material Specifications

##### 1.1. Dimensions

- **Length:** As per requirement (m)
- **Width:** 0.8 m (800 mm)
- **Height:** 0.8 m (800 mm)

##### 1.2. Structural Frame

- **Frame Material:** BWP (Boiling Water Proof) Plywood for structural strength
- **Legs:** MS (Mild Steel) frame with powder coating for durability and corrosion resistance

##### 1.3. Cushioning & Foam

- **Seat Cushioning:**
  - 4-inch standard foam sheet as the base layer for support
  - 2-inch soft foam on top for comfort
  - **Brand:** Curlon (20-year warranty) or equivalent standard brand
- **Backrest Cushioning:**
  - Standard foam sheet with ergonomic support for better posture

##### 1.4. Upholstery & Fabric

- **Fabric Type:** High-quality upholstery fabric from a standard brand
- **Fabric Coverage:** All sides as per the approved architectural design
- **Color & Pattern:** As per Architect/Engineer-in-Charge's selection

##### 1.5. Hardware & Accessories

- **All necessary fittings, fasteners, and adhesives** of standard quality
- **Rubber/Felt pads** on legs to prevent floor scratches

#### 2. Workmanship:

- All work should be carried out with proper workmanship, ensuring the finished Table is securely placed and aesthetically pleasing.
- **Proper alignment & leveling** for structural stability to avoid wobbling
- **Smooth finishing with no sharp edges**
- **All materials & workmanship to be approved** by the Engineer-in-Charge/Architect before completion

##### 2.1 Assembly:

- Use appropriate joinery techniques (e.g., dowel joints, screws) to ensure structural integrity and durability.
- Ensure all components are properly aligned and secured during assembly.

## **2.2 Installation:**

- Ensure the Sofa is level and securely fixed to the wall or Partition as Required/ directed by EIC.

## **3. Quality Control**

### **3.1 Inspection:**

- Inspect all materials for quality and compliance before installation.

### **3.2 Testing:**

- Test the stability of the Sofa

## **4. Health and Safety**

- Use appropriate personal protective equipment (PPE) during installation.
- Follow safety protocols when handling tools, paints, and finishes.

## **5. Measurements:**

- The rate shall be consolidated for all above items.
- The rate shall include the cost of all labour, scaffolding, etc. to complete the whole work satisfactorily as per instruction of EIC/Architect.
- No extra payment will be given for any of the reasons.  
The rate shall be for a unit of One Running Meter.

**Item No. 31 Providing Modern Arabian Style curtain including Standard Fabric+Black Out in Back Side+Channel+Sweiving +Press Of Curtain+Fitting as directed by Engineer-in-charge with all necessary tools & Accesories etc. complete.**

## **1. Material Specifications**

### **1.1. Curtain Type**

- **Style:** Modern Arabian Style Curtain
- **Layers:**
  - **Front Layer:** High-quality **standard decorative fabric**
  - **Back Layer:** **Blackout fabric** for privacy and light control

### **1.2. Fabric & Material**

- **Fabric Quality:** Premium, wrinkle-resistant, and durable material
- **Blackout Fabric:** 100% light-blocking fabric for energy efficiency and privacy
- **Design & Color:** As per the Architect/Engineer-in-Charge's selection

### **1.3. Curtain Mechanism & Hardware**

- **Channel System:**
  - High-quality **aluminum/stainless steel curtain track**
  - **Swiveling mechanism** for smooth opening and closing
- **Press of Curtain:**
  - Professionally pressed and pleated for an elegant, structured appearance
- **Fittings & Accessories:**
  - Heavy-duty **brackets & fasteners**
  - **Hooks, rings, and runners** of standard quality
  - **Tiebacks** (if required) for added functionality

### **1.4. Installation & Workmanship**

- **Secure fixing to the wall or ceiling as per site conditions**
- **Neatly hemmed and finished edges**
- **Proper pleating and uniform hanging** for a seamless look

## **2. Workmanship:**

- All work should be carried out with proper workmanship, ensuring the finished Table is securely placed and aesthetically pleasing.
- **Proper alignment & smooth** movement of curtains

- **No visible** wrinkles, loose threads, or uneven hanging
- **Installation** to be done as per Architect/Engineer-in-Charge's instructions

#### **2.1 Assembly:**

- Use appropriate joinery techniques (e.g., dowel joints, screws) to ensure structural integrity and durability.
- Ensure all components are properly aligned and secured during assembly.

#### **2.2 Installation:**

- Ensure the Curtain is level and securely fixed to the wall or Partition as Required/ directed by EIC.

### **3. Quality Control**

#### **3.1 Inspection:**

- Inspect all materials for quality and compliance before installation.

#### **3.2 Testing:**

- Test the stability of the Curtain.

### **4. Health and Safety**

- Use appropriate personal protective equipment (PPE) during installation.
- Follow safety protocols when handling tools, paints, and finishes.

### **5. Measurements:**

- The rate shall be consolidated for all above items.
- The rate shall include the cost of all labour, scaffolding, etc. to complete the whole work satisfactorily as per instruction of EIC/Architect.
- No extra payment will be given for any of the reasons.  
The rate shall be for a unit of One Square Meter.

**Item No. 32 Providing and fixing in position 150 mm high, English letters made from 1.5 mm thick stainless steel Plate (500mm x 175mm) sheet as directed by Engineer-in-charge with all necessary tools & plants etc. complete. As directed by engineer in charge**

#### **1. Material:**

- All type of material shall be used as per approved make list and confirming to relevant IS codes and approved by EIC/Architect.
- Material shall be 1.0 mm thick stainless steel sheet 575 x 175mm as directed and approved by EIC/Architect.

#### **2. Workmanship:**

- Work complete Same as per line and level to the Wall/Any Surface Wherever Plate Fitted For better Prospect.

#### **3. Measurements:**

- The rate shall be consolidated for all above items.
- The rate shall include the cost of all labour, scaffolding, etc. to complete the whole work satisfactorily as per instruction of EIC/Architect.
- No extra payment will be given for any of the reasons.
- The rate shall be for a unit of One Number.

**Item No. 33** Providing and fixing 35mm flush door shutters solid core construction with frame of 1st class teak wood with cross bend and face veneer of plywood face pannels including anodized alluminium butt hinges with necessary serews, Allu. Aldrop, Allu. Handle 6", Allu. Tadi 10", Allu. Stopper 8", Allu. Rubber Plug.& Door Closer [B] Decorative type with 1mm laminated sheet on both sides & block board core anodized alluminium butt hinges.[C] Vision Panel Size of 380 mm X 1070 mm with 8mm Toughen Glass With Batten Patti Both Side [C] Flush door shutters 35 mm thick including oil paint etc. with all necessary fixtures complete,As Directed & Approved By EIC.

## **1. Material Specifications**

### **1.1. Door Shutter Construction**

- **Type: Solid Core Flush Door** with decorative finish
- **Thickness: 35 mm**
- **Core Material: Block Board Core**
- **Face Veneer: Plywood face panels**

### **1.2. Frame & Edging**

- **Frame Material: 1st Class Teak Wood** for durability
- **Cross Bands & Internal Support:** Sturdy internal core for strength
- **Edge Finishing: Teakwood Batten Patti** with Melamine Polish

### **1.3. Surface Finishing**

- **Decorative Type: 1mm thick laminate sheet on both sides**
- **Painting:** Oil paint on edges and inner sections where applicable

### **1.4. Vision Panel**

- **Size: 380 mm x 1070 mm**
- **Glass: 8mm Toughened Glass**
- **Edge Finishing: Teakwood Batten Patti on both sides** for a premium look

### **1.5. Hardware & Fixtures**

- **Anodized Aluminum Fittings:**
  - **Butt Hinges** – Heavy-duty with necessary screws
  - **Aldrop** – Durable aluminum finish
  - **Handle: 6" aluminum handle** for easy operation
  - **Tadi (Tower Bolt): 10" aluminum** for locking support
  - **Stopper: 8" aluminum stopper** for door positioning
  - **Rubber Plug:** To prevent noise & vibration
  - **Door Closer:** Heavy-duty hydraulic closer for smooth operation

## **2. Workmanship:**

- All work should be carried out with proper workmanship, ensuring the finished Table is securely placed and aesthetically pleasing.
- **Proper alignment & leveling** for structural stability to avoid wobbling
- **Smooth finishing with no sharp edges**
- **All materials & workmanship to be approved** by the Engineer-in-Charge/Architect before completion

### **2.1 Assembly:**

- Use appropriate joinery techniques (e.g., dowel joints, screws) to ensure structural integrity and durability.
- Ensure all components are properly aligned and secured during assembly.

### **2.2 Installation:**

- Ensure the Door is level and securely fixed to the wall or Partition as Required/ directed by EIC.

## **3. Quality Control**

### **3.1 Inspection:**

- Inspect all materials for quality and compliance before installation.

### **3.2 Testing:**

- Test the stability of the Door

#### 4. Health and Safety

- Use appropriate personal protective equipment (PPE) during installation.
- Follow safety protocols when handling tools, paints, and finishes.

#### 5. Measurements:

- The rate shall be consolidated for all above items.
- The rate shall include the cost of all labour, scaffolding, etc. to complete the whole work satisfactorily as per instruction of EIC/Architect.
- No extra payment will be given for any of the reasons.  
The rate shall be for a unit of One Square Meter.

**Item No. 34 Providing and fixing Zebra blind roller curtain with superior quality Acmeda Mechanism including all necessities fitting like breaket chain etc. complete as per instrucion of Engineer in charge. Make as per tender or equivalent.**

#### 1. Material Specifications

##### 1.1. Curtain Type

- **Type:** Zebra Blind Roller Curtain
- **Operation:** Manual / Chain-operated roller mechanism

##### 1.2. Material & Fabric

- **Fabric Quality:** Superior-quality dual-layered fabric with alternating **sheer & opaque strips** for light control
- **Durability:** UV-resistant, dust-resistant, and fade-proof fabric

##### 1.3. Mechanism & Hardware

- **Roller System:** Acmeda Mechanism (or equivalent approved brand)
- **Control System:**
  - **Smooth-operating chain drive** for easy adjustment
  - **Bracket & Chain:** High-quality, rust-resistant material
- **Fixing Brackets:** Heavy-duty **aluminum or steel brackets** for secure installation

#### 2. Workmanship:

All work should be carried out with proper workmanship, ensuring the finished Table is securely placed and aesthetically pleasing.

- **Proper alignment & smooth rolling mechanism**
- **Securely mounted to prevent sagging or misalignment**
- **Neatly finished edges with no loose threads or fraying**

##### 2.1 Assembly:

- Use appropriate joinery techniques (e.g., dowel joints, screws) to ensure structural integrity and durability.
- Ensure all components are properly aligned and secured during assembly.

##### 2.2 Installation:

- Ensure the Curtain is level and securely fixed to the wall or Partition as Required/ directed by EIC.

#### 3. Quality Control

##### 3.1 Inspection:

- Inspect all materials for quality and compliance before installation.

##### 3.2 Testing:

- Test the stability of the Curtain.

#### 4. Health and Safety

- Use appropriate personal protective equipment (PPE) during installation.
- Follow safety protocols when handling tools, paints, and finishes.

#### 5. Measurements:

- The rate shall be consolidated for all above items.

- The rate shall include the cost of all labour, scaffolding, etc. to complete the whole work satisfactorily as per instruction of EIC/Architect.
- No extra payment will be given for any of the reasons.  
The rate shall be for a unit of One Square Meter.

**Item No. 35 Providing & Placing in position Outside Main Board Made from base 18mm BWP plywood of standard make like Century, Greenlam, Marine, Greenply, Saint-Gobain, Sainik etc, and Finish With Stainless Steel Plate of size 1220 X 2440 mm 1.5mm thick Front side, with edge finish in teakwood batten & Melamine Polish on Batten Patti etc. complete, with all necessary tools & Accessories etc. complete as per instruction given by engineer in charge/Architect.**

## **1. Material Specifications**

### **1.1. Dimensions & Structure**

- **Overall Size:** 1220 mm x 2440 mm
- **Base Material:** 18mm BWP (Boiling Water Proof) Plywood of standard make (Century, Greenlam, Marine, Greenply, Saint-Gobain, Sainik, etc.)
- **Front Finish:** 1.5mm thick Stainless Steel Plate for durability and weather resistance

### **1.2. Edge Finishing**

- **Edge Material:** Teakwood Batten for reinforcement
- **Polish:** Melamine Polish on Batten Patti for enhanced durability and aesthetic appeal

### **1.3. Surface Treatment & Aesthetic Finish**

- **Stainless Steel Plate:** Corrosion-resistant, smooth-finish SS plate properly fixed on the plywood base
- **Teakwood Batten:** Properly sanded, polished, and finished to match the overall design

### **1.4. Fixing & Installation**

- **Firmly installed using appropriate fasteners, screws, and adhesives**
- **Proper alignment, leveling, and finishing for a seamless look**
- **Weatherproof treatment to ensure durability for outdoor installation**

## **2. Workmanship:**

All work should be carried out with proper workmanship, ensuring the finished Table is securely placed and aesthetically pleasing.

- **Proper alignment & smooth rolling mechanism**
- **Securely mounted to prevent sagging or misalignment**
- **Neatly finished edges with no loose threads or fraying**

### **2.1 Assembly:**

- Use appropriate joinery techniques (e.g., dowel joints, screws) to ensure structural integrity and durability.
- Ensure all components are properly aligned and secured during assembly.

### **2.2 Installation:**

- Ensure the Board is level and securely fixed to the wall or Partition as Required/ directed by EIC.

## **3. Quality Control**

### **3.1 Inspection:**

- Inspect all materials for quality and compliance before installation.

### **3.2 Testing:**

- Test the stability of the Board.

## **4. Health and Safety**

- Use appropriate personal protective equipment (PPE) during installation.
- Follow safety protocols when handling tools, paints, and finishes.

## **5. Measurements:**

- The rate shall be consolidated for all above items.
- The rate shall include the cost of all labour, scaffolding, etc. to complete the whole work satisfactorily as per instruction of EIC/Architect.
- No extra payment will be given for any of the reasons.  
The rate shall be for a unit of One Square Meter.

**Item No. 36 Providing & Fixing False Ceiling of Aerolight light weight calcium silicate tiles Tegular Edge of Size 595 x 595 x 15mm densified edge, having 100% humidity resistance and incombustible as per BS 476 Part -4 with thermal conductivity of 0.043 W/m<sup>0</sup> kC, with NRC of 50 and approved surface design to be placed in the grid suspended ceiling with border of gypsum sheet. Grid system made of Galvanised steel section with main "T" runner 3.6 mt long with size 38 x 24 x 0.30 mm spaced at 1200 mm c/c and cross "T" of 1.2 mt long with size 24 x 24 x 0.30 mm spaced between main "T" at 600 mm c/cto form a grid of 600 x 1200 mm and secondary cross "T" of length 600 mm to be inter locked at middle of the 600 x 1200 mm panel to be fixed all around the perimeter of the wall. The main "T" runner to be suspended from the ceiling using GI slotted cleats and 50 mm long dash fasteners, 4 mm GI adjustable rods with galvanised level clips with all labour and material and as directed by Engineer Incharge**

- **1. Material**
- **Calcium silicate ceiling tiles** (Aerolite/Aerolight or equivalent) of size **595 mm × 595 mm × 15 mm**, tegular edge with densified edges.
- Tiles to have:
  - **100% humidity resistance**
  - **Incombustible properties** conforming to **BS 476 Part 4**
  - **Thermal conductivity:** 0.043 W/mK
  - **NRC (Noise Reduction Coefficient):** 0.50
  - Approved surface design/finish
- Grid suspension system made of **galvanized steel sections**, comprising:
  - Main "T" runner: 38 mm × 24 mm × 0.30 mm, **3.6 m long**, spaced at 1200 mm c/c
  - Cross "T" (1200 mm): 24 mm × 24 mm × 0.30 mm
  - Cross "T" (600 mm): 24 mm × 24 mm × 0.30 mm
  - Forming grid of **600 mm × 600 mm modules**
- Perimeter support with GI wall angle/channel along walls.
- Suspension system:
  - **GI slotted cleats, 50 mm dash fasteners**
  - **4 mm dia GI adjustable rods with level clips**
- Border (drop/edge) to be finished with **gypsum board** as specified.
- All materials to be **galvanized, corrosion-resistant, and of approved quality.**
- **2. Workmanship**
- Providing and fixing suspended grid ceiling system properly aligned and levelled.
- Fixing GI cleats to RCC slab using dash fasteners and suspending main runners with GI rods.
- Installation of main "T" runners at 1200 mm c/c and interlocking cross "T" sections to form a rigid grid of 600 × 600 mm.
- Fixing of perimeter channels along walls and providing **gypsum board border/drop** as per drawings.

- Placing calcium silicate tiles neatly in grid with proper alignment and uniform joints.
  - Cutting tiles neatly at edges, corners, and around fixtures.
  - Making necessary openings for **light fittings, diffusers, AC grills, etc.**
  - Ensuring finished ceiling is **true to level, free from sagging, gaps, or misalignment.**
  - Complete work to be executed as per **drawings and directions of Engineer-in-Charge (EIC).**
- **3. Measurement & Payment**
  - Measurement shall be taken as **per square metre (sqm)** of finished ceiling area.
  - Rate shall include **cost of tiles, grid framework, suspension system, gypsum border, fittings, cutting, wastage, labour, tools, scaffolding, and all incidentals.**
  - Payment shall be made for **fully completed and approved work** as per EIC instructions.

**Item No. 37 Providing and fixing star white wall mounted water closet squatting pan ( European type W.C. Pan ) CERA Wall hung EWC with soft close seat cover with integral 'p' or 'S' trap including jointing the trap with C. I.soil pipe in C.M. 1:1 including seat cover with Cera Health Faucet ABS Body 1 meter ss braided connection pipe & C.I Chair Brackets fittings etc. complete including labour charge and directed as per EIC**

- **1. Materials**
- **W.C. Pan:**
  - Wall-hung, European-type squatting pan (Star White)
  - Brand: **CERA** or approved equivalent
  - Wall-hung design with **soft-close seat cover**
  - Integral 'P' or 'S' trap as per design
- **Health Faucet:**
  - **CERA Health Faucet**, ABS body
  - **1 m stainless steel braided connection pipe**
- **Trap Connection:**
  - Cast iron (C.I.) soil pipe for connection to sewer
  - Cement mortar 1:1 for jointing
- **Fixing Accessories:**
  - C.I. chair brackets, bolts, nuts, and other approved fixtures and fittings for wall mounting
- **2. Workmanship**
- Check wall and floor alignment to ensure proper support and fixing.
- Install C.I. soil pipe with required alignment, jointed with **cement mortar 1:1** to ensure leak-proof connection.
- Mount the W.C. pan on the wall using **C.I. chair brackets** and approved fasteners, ensuring proper height and alignment.
- Install soft-close seat cover securely.
- Connect CERA Health Faucet with 1 m SS braided pipe to the pan, ensuring no leakage.
- Ensure all joints are leak-proof, and the pan is properly aligned and level.
- Clean the installed W.C. pan and surrounding area.
- All work shall be done as per directions of the Engineer-in-Charge.
- **3. Measurement**
- Measurement shall be taken in **number (No.)** of W.C. pans installed complete with seat cover, trap connection, health faucet, and fittings.



- Includes labour, fixing, jointing, and all accessories.
- **4. Payment**
- Payment shall be made at the **contract unit rate per No.** of W.C. pan.
- The rate shall include:
  - Supply of wall-hung W.C. pan, soft-close seat cover, health faucet, and connection pipe
  - C.I. soil pipe, cement mortar for jointing, chair brackets, and fixtures
  - Labour for fixing, alignment, and installation
  - Tools, tackles, and all incidental work
  - Completion of work as per specifications and directions of the Engineer-in-Charge

**Item No. 38 Providing and fixing Health Faucet ABS with Rubbit Cleaning System (CERA), 1.25 m Long PVC Flexible Tube & ABS Wall Hooks with 15 mm dia with center point with Extension nipple, labour charge, etc as per EIC.**

#### **1. Material**

- Health faucet (jet spray) of approved make such as CERA or equivalent.
- Body made of **high-quality ABS plastic**.
- Equipped with **rubber cleaning system** (self-cleaning nozzle).
- **1.25 m long PVC flexible tube** of suitable pressure rating.
- **ABS wall hook/holder** for mounting.
- **15 mm dia connection** with **extension nipple**.
- All components to be **durable, corrosion-resistant, and leak-proof**.

#### **2. Workmanship**

- Fixing of health faucet at designated location as directed by Engineer-in-Charge (EIC).
- Connection to existing water supply line including all fittings.
- Proper alignment and firm fixing of wall hook.
- Use of PTFE tape or approved sealing material to ensure **watertight joints**.
- Testing for **smooth operation and leakage**.
- Completion of work with neat finish, including all labour, tools, and minor consumables.

#### **3. Measurement & Payment**

- Measurement shall be taken as **per Nos (Each)** of complete installed health faucet.
- Rate shall include **cost of all materials, labour, fittings, fixing, testing, and commissioning**.
- Payment will be made for **successfully installed and functioning units** as per EIC approval.

**Item No. 39 Providing and fixing window having extruded aluminum Colour anodized section frame main outer size 63.50 x 38.10 x 1.95 mm,@ Wt 1.094 Kg / Rmt, horizontal two track member size 61.85 mm x 31.75 mm x 1.20mm @ wt.of 0.695 Kg/mt, vertical member of size 61.85 mm x 31.75mm x 1.30 mm @ wt.of 0.659 Kg/mt with sliding shutters of horizontal member size 40mm x 18mm x 1.29mm @ wt.of 0.456Kg/mt, vertical member of size 40mm x 18mm x 1.29mm @ wt.of 0.456Kg/mt, @ Wt. 0.457 Kg/mt with 5 mm thick transparent bronze colour tinted float glass with powder coated aluminum fittings and fixtures and transparent silicon sealant glass fixing to frame as per details etc complete for window.**

- **1. MATERIALS**

**Aluminium Frame (Colour Anodized Finish)**

- Main outer frame section: **63.50 × 38.10 × 1.95 mm**, weight **1.094 kg/Rmt**.
- Horizontal two-track member: **61.85 × 31.75 × 1.20 mm**, weight **0.695 kg/Rmt**.
- Vertical track member: **61.85 × 31.75 × 1.30 mm**, weight **0.659 kg/Rmt**.
- All extruded aluminium sections shall be colour anodized, smooth, and defect-free.

**Sliding Shutter Sections**

- Horizontal shutter member: **40 × 18 × 1.29 mm**, weight **0.456 kg/Rmt**.
- Vertical shutter member: **40 × 18 × 1.29 mm**, weight **0.457 kg/Rmt**.
- Shutter to include rollers, interlocks, handles, and corner joints.

**Glass**

- **5 mm thick transparent bronze tinted float glass** fixed to shutters as specified.

**Fittings & Accessories**

- Powder-coated aluminium fittings: rollers, handles, guides, stoppers, interlocks, screws, and fasteners.
- **Transparent silicone sealant** for glass fixing and perimeter sealing.

**Other Materials**

- EPDM rubber gaskets, wool pile, sealing strips, and required consumables.

- **2. WORKMANSHIP**

**Fabrication**

- Aluminium members shall be cut accurately, mitred, and mechanically jointed.
- Sliding shutters must operate smoothly on rollers.
- All joints must be tight and free from sharp edges.

**Installation / Fixing**

- Window frame to be fixed plumb, level, and square using approved fasteners.
- Two-track system must be aligned properly for smooth sliding.
- Glass to be installed with clip beading, EPDM gaskets, and silicone sealant.
- Perimeter sealing to be done using transparent silicone to ensure waterproofing.

**Finishing**

- All exposed aluminium surfaces must be cleaned after installation.
- Ensure shutters move freely without obstruction.

**Quality Standards**

- Work to follow manufacturer's specifications.
- All materials must be of approved/ISI quality.
- Work to be completed to the satisfaction of the **Engineer-in-Charge (EIC)**.

- **3. MODE OF MEASUREMENT**

**Unit of Measurement**

- Measured in **Square Metres (Sqm)**.

**Measurement Method**

- Measurement shall be based on **clear opening width × clear opening height**.
- No deductions for mullions, tracks, or aluminium sections.
- Glass, fittings, sealants, shutters, and all accessories included in the rate.
- Labour, fixing, and finishing all included.

**Item No. 40 Providing and laying 16-18 mm thick polished Black Granite stone slab machine cut in single piece in sill and jambs laid on 10 mm thick cement mortar 1 : 3 ( 1 cement : 3 coarse sand ) with half round Edge Moulding laid over and jointed with grey cement slurry incl. rubbing and polishing etc complete.**

- **1.Materials**
- **Black Granite Stone Slab:**
  - Thickness: **16–18 mm**, machine-cut, polished finish
  - Colour and quality as approved by Engineer-in-Charge
  - Laid in **single piece** for each sill or jamb
- **Cement Mortar:**
  - Mix: **1:3** (1 part cement : 3 parts coarse sand) or Adhesive as suggested by EIC
  - Thickness: **10 mm** underlay for bedding
- **Grey Cement Slurry:**
  - For joint filling and finishing
- **Edge Moulding:**
  - Half-round profile as approved
- **2. Workmanship**
- Prepare the surface of sills and jambs, ensuring it is clean, level, and free of loose materials.
- Cut granite slabs to exact sizes required for sills and jambs.
- Lay slabs on **10 mm thick cement mortar 1:3**, ensuring proper alignment, level, and firm bedding.
- Edge shall be **half-round moulded** neatly along the exposed edges.
- Joints shall be filled with grey cement slurry, made tight and smooth.
- Surface shall be rubbed and polished to achieve a uniform glossy finish.
- All work shall conform to the directions of the Engineer-in-Charge.
- **3. Measurement**
- Measurement shall be taken in **square metres (sqm)** of polished granite laid in sills and jambs.
- Includes bedding mortar, joint filling, edge moulding, rubbing, and polishing.
- No separate measurement for cutting, finishing, or wastage.
- **4. Payment**
- Payment shall be made at the **contract unit rate per sqm**.
- The rate shall include:
  - Cost of black granite slab and approved quality materials

- Cement mortar 1:3 and grey cement slurry
- Labour for cutting, fixing, jointing, edge moulding, rubbing, and polishing
- Tools, tackles, and all incidental work
- Completion of work as per specifications and directions of the Engineer-in-Charge

**Item No. 41 Pro. And fixing single layer water proof gypsum board 12.5 mm thick sections using water proof board of size 1220 mm x 1830 mm x 8.0 mm suspended by GI suspender channel of size 25 mm x 3 mm with intermediate channel of size 18 mm x 40 mm x 0.8 mm at 1220 mm center to center ceiling section of size 40 mm x 35 mm x 0.55 mm at 457 mm c/c and perimeter channel A of size 20 mm x 27 mm x 30 mm x 0.5 mm at edges & drops incl. paper tap sand soffit cleat, anchor fastener, coach bolt connecting cleat, jointing compound top coat on ceiling incl. making necessary opening for light fitting, diffuser etc. comp. as per detail drawing as directed**

- **1. Material**
- **Waterproof gypsum board** of **12.5 mm thickness**, size **1220 mm × 1830 mm (minimum 8 mm core as specified)**, of approved make.
- GI framework comprising:
  - **GI suspender channel:** 25 mm × 3 mm.
  - **Intermediate channel:** 18 mm × 40 mm × 0.8 mm thick, spaced at 1220 mm c/c.
  - **Ceiling section:** 40 mm × 35 mm × 0.55 mm thick, spaced at 457 mm c/c.
  - **Perimeter channel (A type):** 20 mm × 27 mm × 30 mm × 0.5 mm thick.
- Accessories including:
  - **Soffit cleats, anchor fasteners, screw/coach bolts**, connecting cleats.
  - Drywall screws, jointing compound, and finishing (top coat).
  - **Paper tape** for joints.
- All materials to be **galvanized, corrosion-resistant**, and of approved quality.
- **2. Workmanship**
- Providing and fixing of suspended false ceiling using GI framework properly anchored to soffit with **soffit cleats and anchor fasteners**.
- Suspending GI channels from slab at required spacing, ensuring proper level and alignment.
- Fixing of intermediate and ceiling sections to form a rigid framework.
- Fixing waterproof gypsum boards with **drywall screws** at specified spacing.
- Making **neat openings** for light fittings, diffusers, AC grills, etc., as per drawings.
- All joints to be treated with **paper tape and jointing compound**, followed by **smooth finishing with top coat**.
- Surface to be finished true to line, level, and plane, free from undulations.
- Complete work to be executed as per **detailed drawings and instructions of Engineer-in-Charge (EIC)**.
- **3. Measurement & Payment**
- Measurement shall be taken as **per square metre (sqm)** of finished ceiling area.
- Rate shall include **cost of materials, GI framework, suspension system, boards, accessories, labour, jointing, finishing, cutting, openings, scaffolding, and all incidentals**.

- Payment shall be made for **completed and approved work** as per drawings and EIC directions.

**Deputy Executive Engineer  
Capital Project Sub Division 3  
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**Executive Engineer  
Capital Project Division 1  
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