

9. Nails, screw, belts and straps shall be provided and used where suitable for fixing carpentry and joinery works. All fasteners shall be brand new and of adequate size to ensure rigidity of connections.
10. Plywood shall be good grade and made of laminated wood strips of uniform width and thickness bounded together with water resistant resin glue. It shall be free from defects such as split in veneer, buckling or warping.
11. Shop drawings complete with essential dimensions and details of construction, as may be required by the Engineer in connection with carpentry and joinery work, shall be submitted for approval before proceeding with the work.

#### XXIV.A Carpentry and Joinery Works (Typhoon Guards)

- a. Use ¾" thk. Marine Plywood, Class A with ½" thk. Hard wood strips and/or wood trims.
- b. No cut shall be made per panel of typhoon guard, unless other proper wood splicing is observed as approved by the Project Monitoring Committee.
- c. Exterior/ exposed windows shall be provided with corresponding Typhoon Guards per schedule as summarized below:

| WINDOW TYPE               | TYPHOON GUARD DIMENSIONS |             | TOTAL NO OF TYPHOON GUARDS |
|---------------------------|--------------------------|-------------|----------------------------|
|                           | Width (mm)               | Height (mm) |                            |
| <b>W1</b>                 | 1800                     | 1200        | 30                         |
| <b>W2</b>                 | 900                      | 1200        | 7                          |
| <b>W3</b>                 | 1800                     | 900         | 2                          |
| <b>W4</b>                 | 1200                     | 600         | 5                          |
| <b>W5</b>                 | 1000                     | 500         | 3                          |
| <b>W6</b>                 | 500                      | 500         | 6                          |
| <b>W7</b>                 | 1000                     | 1550        | 2                          |
| <b>W8</b>                 | 500                      | 1550        | 4                          |
| <b>Fixed Glass Window</b> | 400                      | 5040        | 5                          |
| <b>Skylight</b>           | 7200                     | 2400        | 1                          |

#### XXIV.B Carpentry and Joinery Works (Built - In Cabinets, Reception & Island Counter)

| Location                                      | Description  | Unit | Quantity Required |
|---|--|------|-------------------|
| <b>Kitchen Cabinets Counter &amp; Hanging</b> |  |      |                   |
| Second Floor Kitchen Area                     | Kitchen Counter Cabinet:<br>0.60mW x 6.77mL x 0.7mH<br>Hanging Cabinet:<br>0.45mW x 6.77mL x 1.0mH<br>Materials:<br>18mm thk Melamine Marine Laminated (Silky Oak) ¾" thk.<br>Marine plywood (Painted with white), Class A, 2"x2"x10' Good Lumber Cabinet Frame, PVC Edge Band and 20mm x 20mm Liston Wood Edging with Hydraulic Buffer Concealed Hinges (Inset), 128mm SS | set  | 1                 |

| <b>Pantry Cabinets Counter &amp; Hanging</b>          |  |     |   |
|---|--|-----|---|
| Ground Floor<br>Pantry Area                           | Counter Cabinet:<br>0.60mW x 3mL x 0.7mH<br>Hanging Cabinet:<br>0.60mW x 3mL x 1.0mH<br>Materials: 18mm thk Melamine Marine Laminated (Silky Oak), 3/4" thk. Marine plywood (Painted with white) Class A, 2"x2"x10' Good Lumber Cabinet Frame, PVC Edge Band and 20mm x 20mm Liston Wood Edging with Hydraulic Buffer Concealed Hinges (Inset), 128mm SS Flush Pull Handle.    | set | 1 |
| <b>Display Counter Cabinet</b>                        |  |     |   |
| Ground Floor –<br>near function hall<br>(see on plan) | Counter Cabinet:<br>0.325mW x 1.78mL x 0.90mH<br>Materials: 18mm thk Melamine Marine Laminated (Steam Beech), 3/4" thk. Marine plywood (Painted with white), Class A 2"x2"x10' Good Lumber Cabinet Frame, PVC Edge Band and 20mm x 20mm Liston Wood Edging on every corner with Hydraulic Buffer Concealed Hinges (Inset), 128mm SS Flush Pull Handle.                         | set | 1 |
| <b>Display Cabinet with Display Racks</b>             |  |     |   |
| Ground Floor –<br>Display Area                        | Cabinet with Display Racks:<br>0.350mW x 12.65mL x 2.8mH<br>Materials: 18mm thk Melamine Marine Laminated (Steam Beech), 3/4" thk. Marine plywood (Painted with white), Class A, 2"x2"x10' Good Lumber Cabinet Frame, PVC Edge Band with Hydraulic Buffer Concealed Hinges (Inset), 128mm SS Flush Pull Handle, with 6mm thk. clear glass on aluminum framing and accessories. | set | 1 |
| <b>Reception Counter</b>                              |  |     |   |
| Ground Floor<br>Reception Counter @<br>Function Hall  | Reception Counter:<br>0.325mW x 1.13mL x 0.90mH<br>Material: 18mm thk. Melamine Marine Laminated (Steam Beech) + PVC Edge Band on every corner   | set | 1 |
| <b>Island Table</b>                                   |  |     |   |
| Second Floor<br>Kitchen Area                          | Island Table:<br>0.8mW x 1.5mL x 0.70mH<br>Materials: 18mm thk. Melamine Marine Laminated (Steam Beech), 3/4" thk. Marine plywood (Painted with white) + PVC Edge Band and 20mm x 20mm liston wood edging on every corner with Hydraulic Buffer Concealed Hinges (Inset), 128mm SS Flush Pull Handle, and 300mm Full Extension Ball Bearing Drawer Guide.                      | set | 1 |

**XXV. Painting Works**

This Item shall consist of furnishing all paint materials, and other related products, labor, tools, equipment and plant required in undertaking the proper application of painting and related works indicated on the Plans and in accordance with this Specification.

- a. The Contractor prior to commencement of the painting, and related work shall examine the surfaces to be applied in order not to jeopardize the quality and appearances of the painting varnishing and related works.
- b. Voids, cracks, nick etc. will be repaired with proper patching material and finished flushed with surrounding surfaces.
- c. Marred or damaged shop coats on metal shall be spot primed with appropriate metal primer.
- d. Painting and varnishing works shall not be commenced when it is too hot or cold.
- e. Allow appropriate ventilation during application and drying period.
- f. All hardware will be fitted and removed or protected prior to painting and varnishing works.
- g. At the time of application paint shall show no sign of deterioration. Paint shall be thoroughly stirred, strained and kept at a uniform consistency during application. Paints of different manufacture shall not be mixed together. When thinning is necessary, this may be done immediately prior to application in accordance with the manufacturer's directions
- h. All material to be used under this Item shall be stored in a single place to be designated by the Engineer and such place shall be kept neat and clean at all time. Necessary precaution to avoid fire must be observed by removing oily rags, waste, etc. at the end of daily work.
- i. Upon completion of the work, all staging, scaffolding and paint containers shall be removed. Paint drips, oil, or stains on adjacent surfaces shall be removed and the entire job left clean and acceptable to the implementing agency.
- j. All paints shall be evenly applied. Coats shall be of proper consistency and well brushed out so as to show a minimum of brush marks.
- k. The paint when applied shall be so manipulated as to produce a uniform even coating in close contact with the surface being painted, and shall be worked into all corners and crevices.
- l. All coats shall be thoroughly dry before the succeeding coat is applied.
- m. Where surfaces are not fully covered or cannot be satisfactorily finished in the number of coats specified such preparatory coats and subsequent coats as may be required shall be applied to attain the desired evenness of surface without extra cost to the agency.
- n. Where surface is not in proper condition to receive the coat the monitoring committee shall be notified immediately. Work on the questioned portion(s) shall not start until clearance be proceed is ordered by the PMC.
- o. Hardware, lighting fixture and other similar items shall be removed or 'protected during the painting varnishing and related work operations and re-installed after completion of the work.
- p. If repainting, remove all loose, scaling, flaking and peeling off paint using wire brushing, scraping or water blasting.
- q. For chalking old paint, apply a water-based, low VOC paint for priming.
- r. In case of mildew infestation, treat with fungicidal wash solution or bleach solution (1:3, laundry bleach to water, respectively) by swabbing or brushing. To ensure proper treatment, allow to stand on surface for overnight before washing off residue.
- s. Paint colors shall be following as per plan

**XXV.A Painting Works (Concrete)**

- a. Concrete and masonry surfaces shall be coated with concrete neutralizer and allowed to dry before any painting primer coat is applied. When surface is dried apply first coating.
- b. Hairline cracks and unevenness shall be patched and sealed with approved putty or patching compound.
- c. After all defects are corrected apply the finish coats as specified on the Plans (color scheme approved).
- d. Allow new masonry to dry for 14 days (for exterior surfaces) to 28 days (for interior surfaces) under normal weather conditions before painting.