**State/District Skill Competitions**

**Test project: Sample**

**SKILL: WALL & FLOOR TILING**

**Wall & Floor Tiling**

**Skill Explained**

The work of tiller includes laying of tiles of ceramics, mosaics or natural stone on walls, floors staircases swimming pools, outside installations and facades to provide protective and decorative finishes .A tiller generally works on commercial and residential projects from drawings and instructions. . Successful tillers requires endurance, concentration, an eye for details with continuing responsibility to work professionally in order to meet the requirements of the customer.

**Eligibility Criteria**- Competitors born on or after 01 Jan 1997 are eligible to attend the Competition

**Duration of Test Project**- 8 hours in 2 days

**Preface**

**Section A**-Test Project

**Section B**-Marking Scheme

**Section C**-Infrastructure List (Tool and equipment including raw material)

**Section D-** Instruction for Competitors including Personnel Protective Clothing

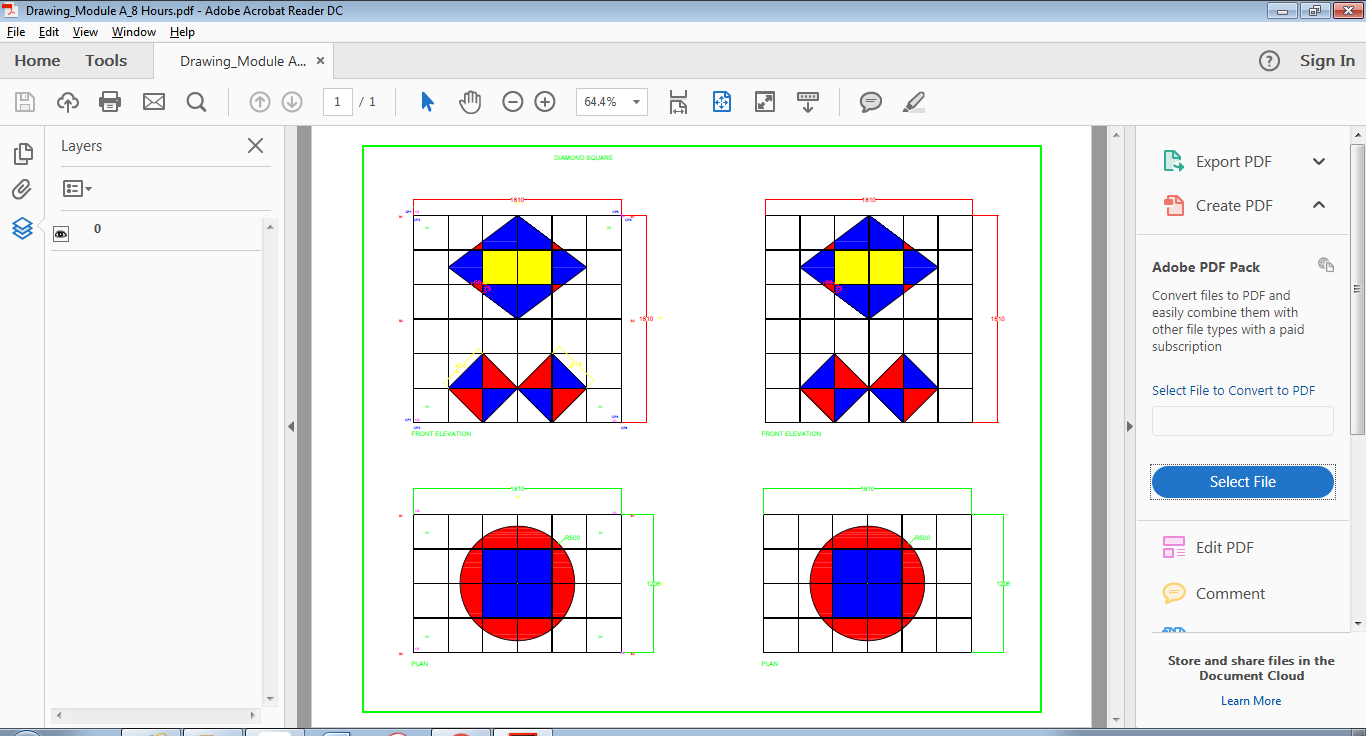
**Section E**- Health, Safety and Environment

**Section A**

Wall and Floor for Tiling work is provided

Test Project is divided in two parts:

1. Wall Tiling Work
2. Floor Tiling Work



**Section B**

The Assessment is done by awarding points by adopting two methods, Measurement and Judgments

* Measurement –One which is measurable
* Judgments-Based on Industry expectations
* Aspects are criteria’s which are judged for assessment

The assessment will be for **two parts** of project separately:

1. Wall Tiling Work
2. Floor Tiling Work

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| **Marking : Measurement - WALL** | | | | | | |
| Competitor Name : | | | | | | |
| **Sub Criterion - Module - Wall Tiling Work** | | | | | | |
| **Aspect ID** | **Aspect Of Sub Criterion** | **Max Mark** | **Aspect of Sub Criterion - Description** | **Requirement of Size** | **Result or Actual Value** | **Mark Awarded** |
| A1 | Dimension | 4 | Length of Module | 1810mm |  |  |
| A2 | 4 | Height of Module | 1810mm |  |  |
| A3 | 2 | Side of right side diamond square | 424mm |  |  |
| A4 | 2 | Side of left side diamond square | 424mm |  |  |
| B1 | Level | 3 | Top of module | 0mm |  |  |
| B2 | 3 | Middle of module | 0mm |  |  |
| B3 | 2 | Top of Second Tile from bottom | 0mm |  |  |
| B4 | 2 | Top of Second Tile from Top | 0mm |  |  |
| C1 | Surface Alignment | 3 | Diagonal from right bottom to left top | 0mm |  |  |
| C2 | 3 | Diagonal from left bottom to right top | 0mm |  |  |
| C3 | 2 | Diagonal covering both the square at bottom | 0mm |  |  |
| CP1 | Plumb | 3 | Left side - front view | 0mm |  |  |
| CP2 | 3 | Left side - side view | 0mm |  |  |
| CP3 | 3 | Right side - front view | 0mm |  |  |
| CP4 | 3 | Right side - side view | 0mm |  |  |
| CP5 | 3 | Right side of third tile from left of module/ Center of module | 0mm |  |  |
| D1 |  | 3 | Right angle at top | 90 degrees |  |  |
| D2 | 2 | Length of triangular part (red colour) in big diamond | 98mm |  |  |
| **Total Marks for Wall** | | **50** |  |  |  |  |

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| **Marking : Measurement - FLOOR** | | | | | | |
| Competitor Name : | | | | | | |
| **Sub Criterion - Module – Floor Tiling Work** | | | | | | |
| **Aspect ID** | **Aspect Of Sub Criterion** | **Max Mark** | **Aspect of Sub Criterion - Description** | **Requirement of Size** | **Result or Actual Value** | **Mark Awarded** |
| A1 | Dimension | 3 | Length of Floor | 1810mm |  |  |
| A2 | 3 | Width of floor | 1206mm |  |  |
| A3 | 2 | Radius of circle | 500mm |  |  |
| A4 | 1 | Side of square | 602mm |  |  |
| B1 | Level | 2 | First layer from wall A | 0mm |  |  |
| B2 | 2 | Last layer from Wall A | 0mm |  |  |
| C1 | Surface Alignment | 2 | Diagonal from right corner to left corner | 0mm |  |  |
| C2 | 2 | Diagonal from left corner to right corner | 0mm |  |  |
| D1 | Details | 2 | Right angle at bottom of wall and top of floor | 90 degrees |  |  |
| D2 | 1 | Right angle at side of floor away from wall | 90 degrees |  |  |
| **Total Marks for Floor** | | **20** |  |  |  |  |
| **Total Marks for Module – Wall & Floor Measurement - 70** | | | | | | |

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **Marking: Judgment - WALL** | | | | |
| **Competitor Name:** | | | | |
| **Sub Criterion: Module - WALL** | | | | |
| **Aspect ID** | **Aspect Of Sub Criterion** | **Max Mark** | **Aspect of Sub Criterion - Description** | **Mark Awarded** |
| J1 | Missing/Cutting Of Tiles | **4** | Piece of tiles missing, wrong colour tiles placed, Cutting of tiles not done properly |  |
|  | 0 | Below Industry Standard |  |
|  | 2 | Industry Standard |  |
|  | 4 | Surpasses Industry Std. in some ways |  |
| J2 | Jointing | **4** | Uniformity of Joints for vertical and horizontal, regular joints size of 2mm |  |
|  | 0 | Below Industry Standard |  |
|  | 2 | Industry Standard |  |
|  | 4 | Surpasses Industry Std. in some ways |  |
| J3 | Finishing | **4** | Overall Impression, Sharp Edge, Shape of Structure |  |
|  |  | 0 | Below Industry Standard |  |
|  | 2 | Industry Standard |  |
|  | 4 | Surpasses Industry Std. in some ways |  |
| J3 | Appearance | **1.5** | Cleaning Of Tiles and Overall Module |  |
|  |  |  |  |
| J4 | **1.5** | Cleaning Of Area Around |  |
|  |  |  |  |  |
| **Total Marks For WALL** | | **15** |  |  |
| Remarks - | | | | |

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **Marking: Judgment - FLOOR** | | | | |
| **Competitor Name:** | | | | |
| **Sub Criterion: Module - FLOOR** | | | | |
| **Aspect ID** | **Aspect Of Sub Criterion** | **Max Mark** | **Aspect of Sub Criterion - Description** | **Mark Awarded** |
| J1 | Missing/Cutting Of Tiles | **4** | Piece of tiles missing, wrong colour tiles placed, Cutting of tiles not done properly |  |
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| J3 | Finishing | **4** | Overall Impression, Sharp Edge, Shape of Structure |  |
|  |  | 0 | Below Industry Standard |  |
|  | 2 | Industry Standard |  |
|  | 4 | Surpasses Industry Std. in some ways |  |
| J3 | Appearance | **1.5** | Cleaning Of Tiles and Overall Module |  |
|  |  |  |  |
| J4 | **1.5** | Cleaning Of Area Around |  |
|  |  |  |  |  |
| **Total Marks For FLOOR** | | **15** |  |  |
| Remarks - | | | | |
| **TOTAL MARKS IN JUDGEMENT FOR MODULE – 30 MARKS** | | | | |

**Section C**

* Workshop Installation-Tools & Equipment positioned by Organizers
* Tool Kit-Tool & Equipment allowed to be brought by competitors for competitions

|  |  |
| --- | --- |
| **Infrastructure List - Wall & Floor Tiling** | |
| **Workshop Installation** | **Quantity** |
| Mortar Mixer | 1 |
| Water Tank | 1 |
| Water Bucket | 1 |
| Water Mug | 1 |
| Mortar Bucket | 1 |
| Waste skip on wheels/Wheel barrow | 1 |
| Shovel for cleaning of area | 1 |
|  |  |
| **Workshop Installation – Tools** | **Quantity** |
| Spirit Level 1m | 1 |
| Spirit Level 2m | 1 |
| Measuring Tape | 1 |
| Tile Cutting Machine | 1 |
| Trowels Big | 1 |
| Trowel Small | 1 |
| Rubber Hammer | 1 |
| Straight Edge 6 feet | 2 |
| Right angle big | 1 |
| Grout Pad | 1 |
| Rounder Big - ( considering tile size) | 1 |
| Spacers | 2 packet |
| Teeth Trowel | 1 |
| Spartech Machine if possible | 1 |
|  |  |
| **Materials/ Consumables** | **Quantity** |
|  |  |
| Plywood 2m \* 1.5m (If table is possible) | 1 |
| Broom | 1 |
| Dustpan | 1 |
| Sponge | 2 |
| Tiles 300\*300\*6 mm white | 80 No.s |
| Tiles 300\*300\*6 mm blue | 25 No.s |
| Tiles 300\*300\*6 mm red | 30 No.s |
| Tile grout - Chemical grout - 5kg | 1 bag |
| Tile Adhesive / Tile fixo 25kg | 2 bag |
| Mortar For Floor Bed 40 kg (Masala) | 1 bag |
| Masking Tape 2 inch | 1 |
| Water | As required |
| **Health & Safety Instruments** | **Quantity** |
| Ear Plug | 1 pair |
| Knee pad | 1 pair |
| Nose mask | 1 |
| Goggle | 1 |
| Safety Shoes | 1 pair |
| Hand Gloves | 1 pair |
|  |  |
| **Stationary** | **Quantity** |
| Calculator | 1 |
| Scale 600mm | 1 |
| Scale 300mm | 2 |
| Protractor Small | 1 |
| Geometric Compass box | 1 |
| Marker Pen | 5 |

**Section D**

1. **Time:**

Drawing Reading – Either previous day or 1 hour before competition

Working Time – 8.00 Hours in 2 days

1. For Wall – 5.5 Hours Max
2. For Floor - 2.5 Hours

Note:

1. Before tiling on floors, kindly prepare the bed for floors with Mortar (Masala)
2. If Wall work is finished before given time, the competitor can start with Floor Tiling Module Work

Cleaning of Area – 15 min after working time

1. **Drawing –**

Read the drawing carefully. Understand Dimensions, Alignment, Plumb, Level and Cutting of tiles.

1. **Tile Size –**

300 \* 300 \* 6 mm

Joint Size – 2mm (Spacers)

1. Mark the color of tiles
2. **PLANNING –**

Before starting to the work kindly submit the planning stating activity and time for that.

(This includes marking, cutting and time distribution for laying each layer of tile for wall & Floor)

1. Cleaning of module must be done in working time though 15 min extra are provided for cleaning of area around it.

**Section E**

1. All accredited participants, and supporting volunteers will abide by rules and regulations with regards to Health, Safety, and Environment of the Competition venue.

2. All participants, technicians and supporting staff will wear the required protective Personnel clothing.

3. All participants will assume liability for all risks of injury and damage to property, loss of property, which might be associated with or result from participation in the event. The organizers will not be liable for any damage, however in case of Injury the competitor will immediately inform the immediate organizer for medical attention.