SkIII India

कौशल भारत－कुशल भारत

# Sample Test Project 

Regional Skill Competitions－Level 3
Skill 12 －Wall and Floor Tiling
Categary：Canstruction and Building Sechnalogy

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## Section-A

## A. Preface

## 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 require endurance, concentration, an eye for details with continuing responsibility to work professionally in order to meet the requirements of the customer.

## Eligibility Criteria (for IndiaSkills 2018 and WorldSkills 2019):

Competitors born on or after 01 Jan 1997 are eligible to attend the Competition.

Total Duration: 12 Hrs in two days

## Section - B

## B. Test Project

Wall for Tiling work is provided. For Floor the bed to be prepared by trainee Test Project is divided in two parts:

1. Wall Tiling Work
2. Floor Tiling Work
(NOTE - For drawing reading at least 1 hour before competition is required.)



## Section - C

## C. Marking Scheme

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 -7 Hours for performing practical
2. Floor Tiling Work - 5 Hours for performing practical Cleaning time is included in practical

| Marking: Measurement - WALL |  |  |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Competitor Name: |  |  |  |  |  |  |
| Sub Criterion - Module - Wall Tiling Work |  |  |  |  |  |  |
| Aspe <br> ct ID | Aspect Of Sub Criterio n | $\begin{gathered} \mathrm{Ma} \\ \mathrm{x} \\ \mathrm{Ma} \\ \text { rk } \end{gathered}$ | Aspect of Sub Criterion Description | Requirem ent of <br> Size | Resu <br> It or <br> Actu <br> al <br> Valu <br> e | Mark <br> Award ed |
| A1 | Dimensi on | 3 | Length of Module | 1810 mm |  |  |
| A2 |  | 3 | Height of Module | 1810 mm |  |  |
| A3 |  | 2 | Radius of Circle | 200 mm |  |  |
| A4 |  | 2 | Radius of a bigger arc | 602 mm |  |  |
| A5 |  | 2 | Radius of a smaller arc | 300 mm |  |  |
| B1 | Level | 2 | At the middle of first row of tile from bottom | Omm |  |  |
| B2 |  | 2 | At the top of third row from bottom | Omm |  |  |
| B3 |  | 2 | At the first row from top | Omm |  |  |



| Marking:_Measurement - FLOOR |  |  |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Competitor Name : |  |  |  |  |  |  |
| Sub Criterion - Module - Floor Tiling Work |  |  |  |  |  |  |
| Aspect ID | Aspect Of Sub <br> Criterion | Max <br> Mar <br> k | Aspect of Sub Criterion - Description | Requiremen $t$ of Size | Resul tor Actua I Value | Mark Awarde d |
| A1 | Dimension | 3 | Length of Floor | 1810 mm |  |  |
| A2 |  | 3 | Width of floor | 1206 mm |  |  |
| A3 |  | 3 | Radius of circle | 300 mm |  |  |
| B1 | Level | 2 | First layer from wall (top) | Omm |  |  |
| B2 |  | 2 | Last layer of floor from Wall A | Omm |  |  |
| C1 | Surface <br> Alignment | 2 | Diagonal from left corner to right corner | Omm |  |  |
| C2 |  | 2 | Diagonal from right corner to left corner | Omm |  |  |
| D1 | Details | 1 | Distance of centre of the right side triangle from left side of second colom from left side module | 299mm |  |  |
| D2 |  | 1 | Distance of centre of left side triangle from right side of module | 299mm |  |  |
| D3 |  | 2 | Right angle at bottom of wall and top of floor right side | 90 degrees |  |  |
| D4 |  | 2 | Right angle at bottom of wall and top of floor left side | 90 degrees |  |  |
| D5 |  | 1 | Right angle at right side corner away from wall | 90 degrees |  |  |
| D6 |  | 1 | Right angle at left side corner away from wall | 90 degrees |  |  |
| Total Marks for Floor |  | 25 |  |  |  |  |
| Total Marks for Module - Wall \& Floor Measurement - 75 |  |  |  |  |  |  |




## TOTAL MARKS FOR WALL AND FLOOR - 100 MARKS

## Section - D

## D. Infrastructure List

- 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 | 70 No.s |
| Tiles 300*300*6 mm blue | 25 No.s |
| Tiles 300*300*6 mm black | 1 bag |
| Tile grout - Chemical grout - 5kg | 2 bag |
| Tile Adhesive / Tile fixo 25kg |  |


| 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 |

## AREA OF WORKSTATION -

## Shape and Area -

The shape of workstation preferably to be 'Square'

- Workstation Area - approximately 9 sqm ( $3 \mathrm{~m}^{*} 3 \mathrm{~m}$ ) or 100 sq.ft ( $\left.10 \mathrm{ft}{ }^{*} 10 \mathrm{ft}\right)$.
- Platform for marking and cutting the tiles - 8feet * 4feet (plywood platform) and in the form of table is preferable or minimum 200 mm rise from the floor.
- Wall for test project - Minimum 2000 mm *2000mm is required with min. 300 mm width.


## Section-E

## E. Instructions for candidates

1. Time:

Drawing Reading - Either previous day or 1 hours before competition
Field Working Time - 12 Hours in 2 days

1. For Wall - 7 Hours approximately and
2. For Floor - 5 Hours (Bedding time included)

Note:
a) Before tiling on floors, kindly prepare the bed for floors with Mortar (Masala)
b) If Wall work is finished before given time, the competitor can start with Floor Tiling Module Work
Cleaning of Area - To be done in practical working time
2. Drawing - Read the drawing carefully. Understand Dimensions, Alignment, Plumb, Level and Cutting of tiles.
3. Tiles -

Tile Size -
300 * 300 * 6 mm
Joint Size - 2mm (Spacers)
Tile Colour - Mark the color of tiles
4. 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)
5. Health, Safety and Environment

Safety requirement while constructing Wall and Floor Tiling -
During Cutting and Constructing Tiles for the Wall and Floor Project following PPE's are mandatory--

- Safety shoes- All The time during the competition
- Safety Helmet- All The time during cutting and constructing
- Safety Jacket- All The time during the competition
- Ear Plugs and Nose Mask- Compulsory during Cutting of Tiles
- Hand Gloves- Handling, cutting and pasting application of tiles on wall and floor
- Goggle- During Cutting
- Knee pad - During Marking and Cutting


| High Visibility Jacket | Safety Helmet | Safety Shoes |
| :---: | :---: | :---: |
|  |  |  |
| Safety Goggles | Hand Gloves | Ear Plugs |

Safety Guidelines ---
Check for hazards at workplace and surrounding and notify the supervisor immediately Always inspect the machine before starting to work. Ensure that all the protection guards are in place.
Turn the motor off during cleaning and while carrying out adjustments of the machine and in emergency.
When operating the machine, keep your hands,ear at a safe distance
Concentrate on work and do not talk with others while working
Ensure regular cleaning of workplace
6. Cleaning -

Cleaning of module must be done in working time though 30 min extra are provided for cleaning of area around it.

- Clean all area
- Remove excess Material
- Clean tools \& Keep on safe place


## Section-F

## F. Health, Safety, and Environment

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.
