



**Skill India**  
कौशल भारत - कुशल भारत



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National  
Skill Development  
Corporation

Transforming the skill landscape



India **skills**

**Test project: Plastering & Drywall**

**Category: Construction and Building Technology**

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## **Section A**

### **Skill Explained**

A Plastering & Drywall works on all sectors like Hotel, Hospital, Industrial, residential & Commercial offices. The main responsibility of a Drywall installer is to construct Drywall as per given layout which often contains technical details like electrical, plumbing services and loadings The Installer will interpret drawings, set out and measure, construct and finish to a high standard. Successful drywall installer requires endurance, concentration, an eye for details with continuing responsibility to work professionally in order to meet the requirements of the standard's & customer.

### **Eligibility Criteria-**

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

**Duration of Test project- 22 hours**

## Section B – Health, Safety and Environment

### Safety requirement during installation

Drywall is light weight system using Gypsum board & GI light weight metal section

During Handling & Installation of System following PPE's are mandatory--

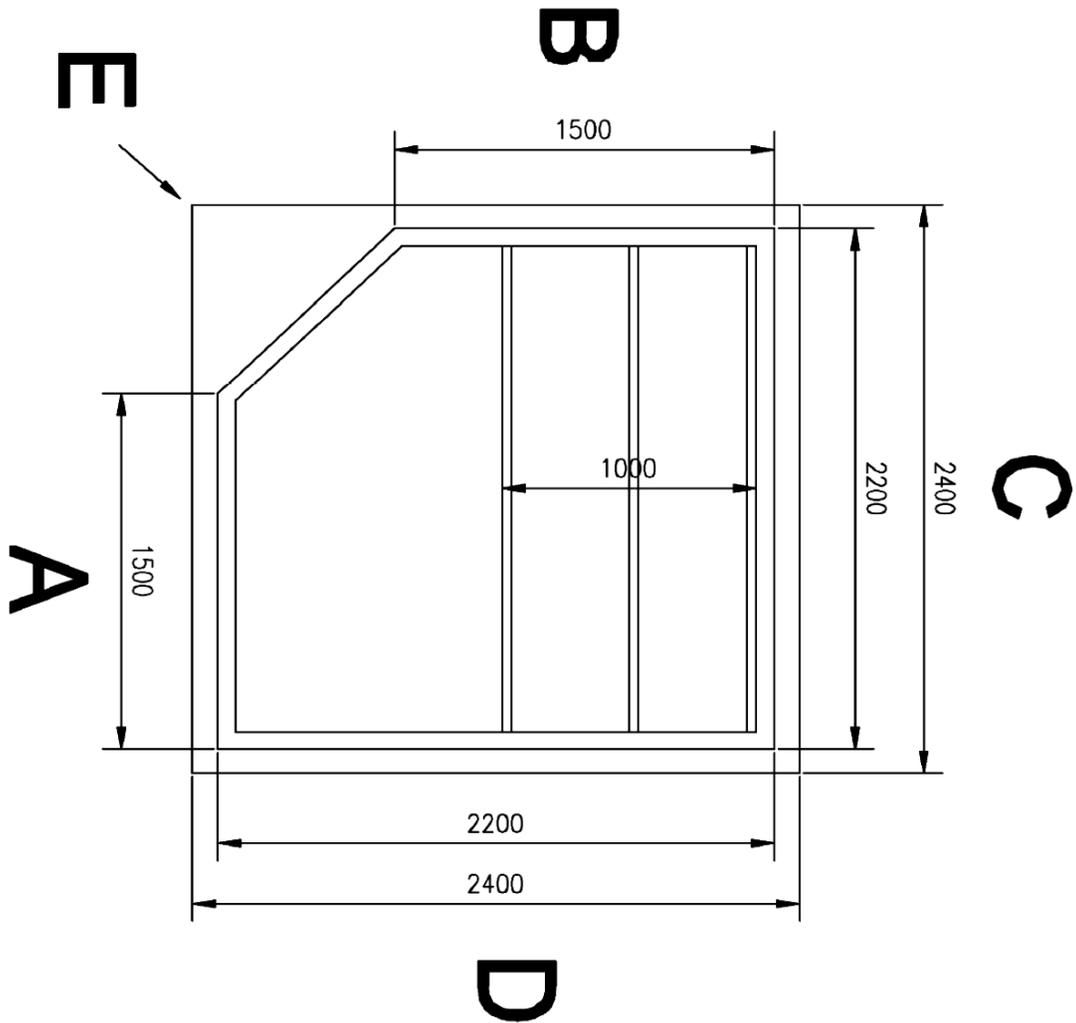
- Safety shoes- All The time during installation & Handling
- Safety Helmet- All The time during installation & Handling
- Safety Jacket- All The time during installation & Handling
- Mask- Cutting and Sanding of board & Plaster
- Hand Gloves- Handling & cutting of metal section
- Goggle- During Drilling hole in structure & plaster application

		
<b>High Visibility Jacket</b>	<b>Safety Helmet</b>	<b>Safety Shoes</b>
		
<b>Safety Goggles</b>	<b>Hand Gloves</b>	<b>Ear Plugs</b>

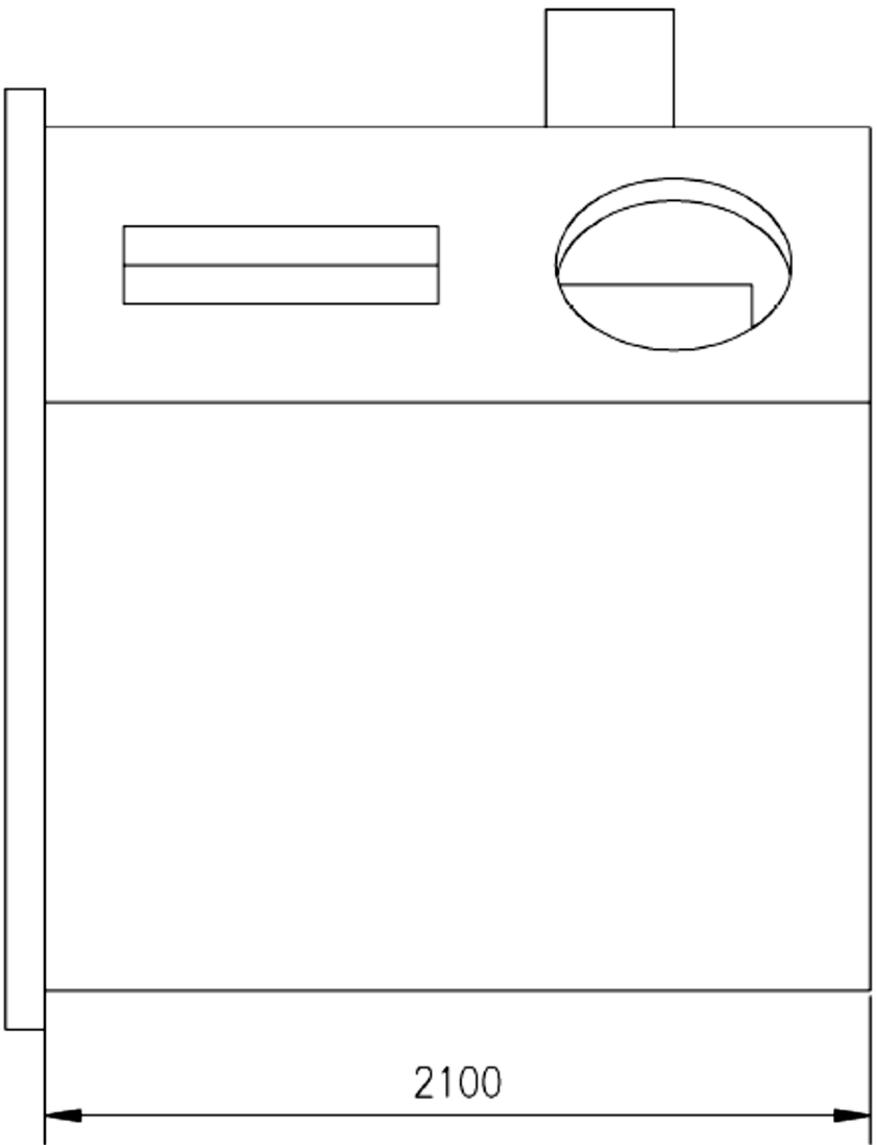
### Safety Guidelines ---

- 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 at a safe distance
- Concentrate on work and do not talk with others while working
- Ensure regular cleaning of workplace

Section C- Test Project



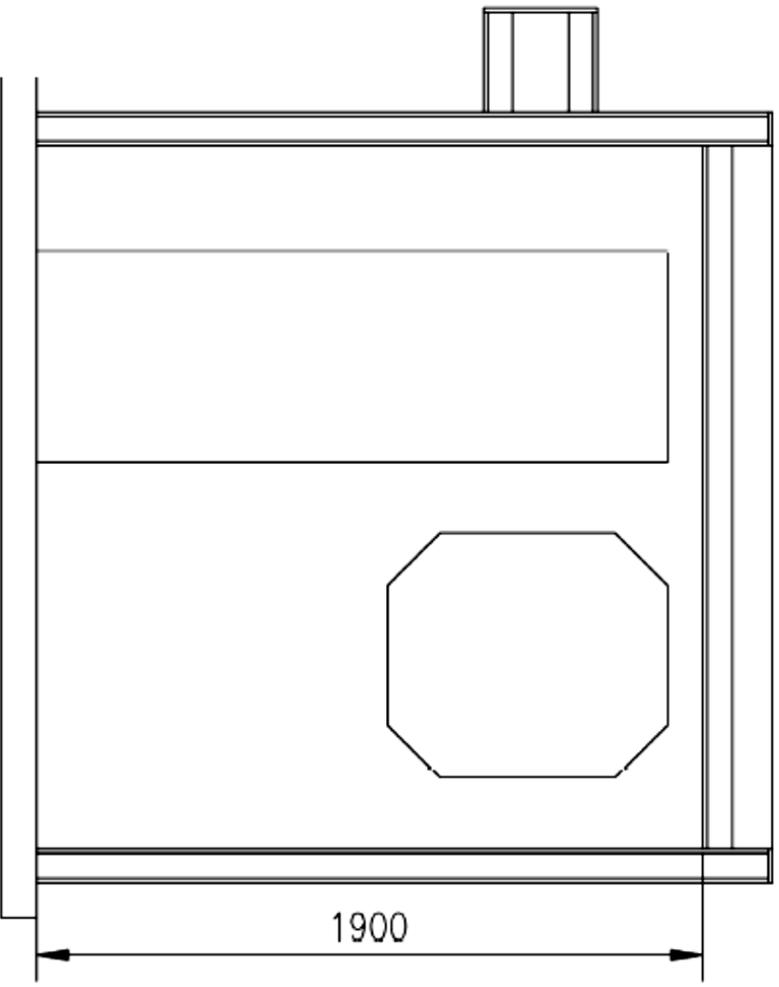
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PLAN



A

2100

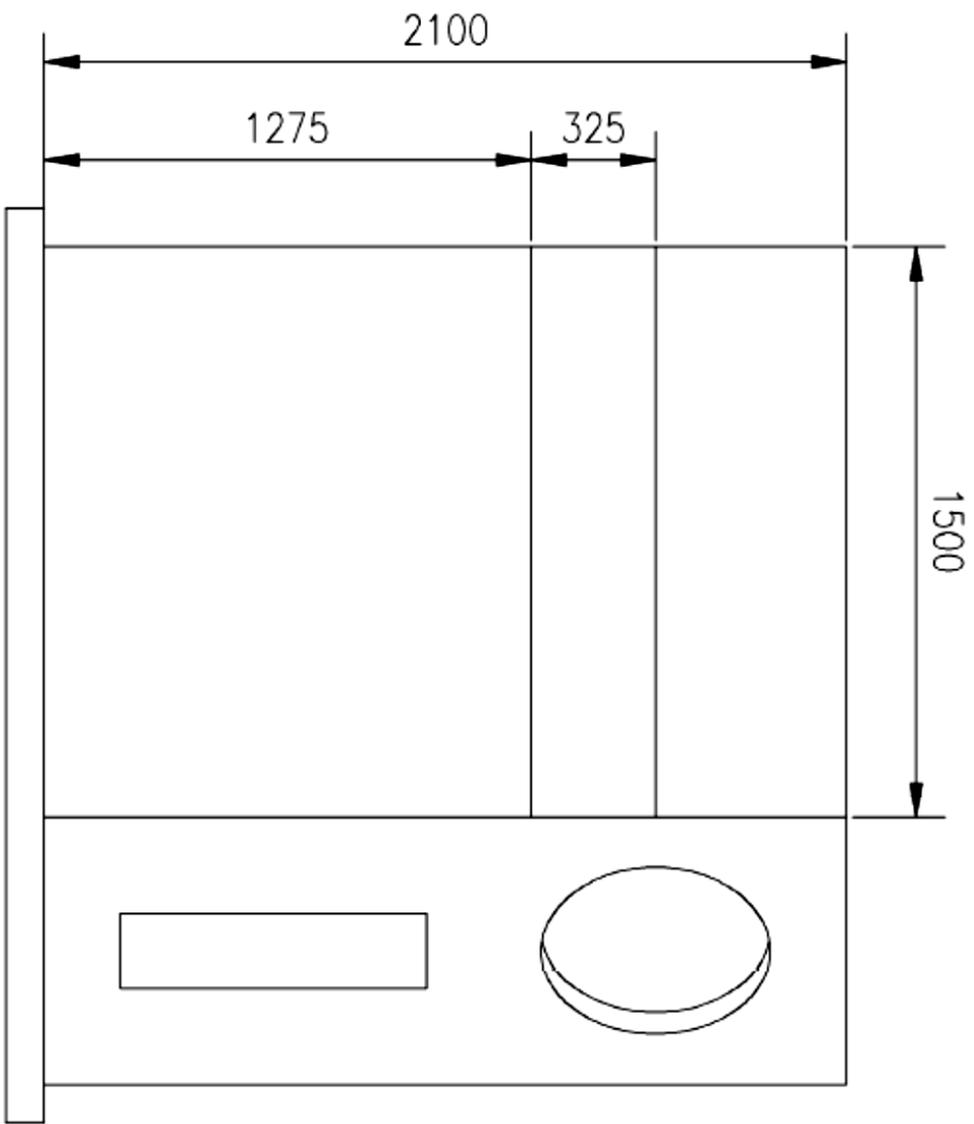
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ELEVATION



**A**

**FRONT BOARD REMOVED**

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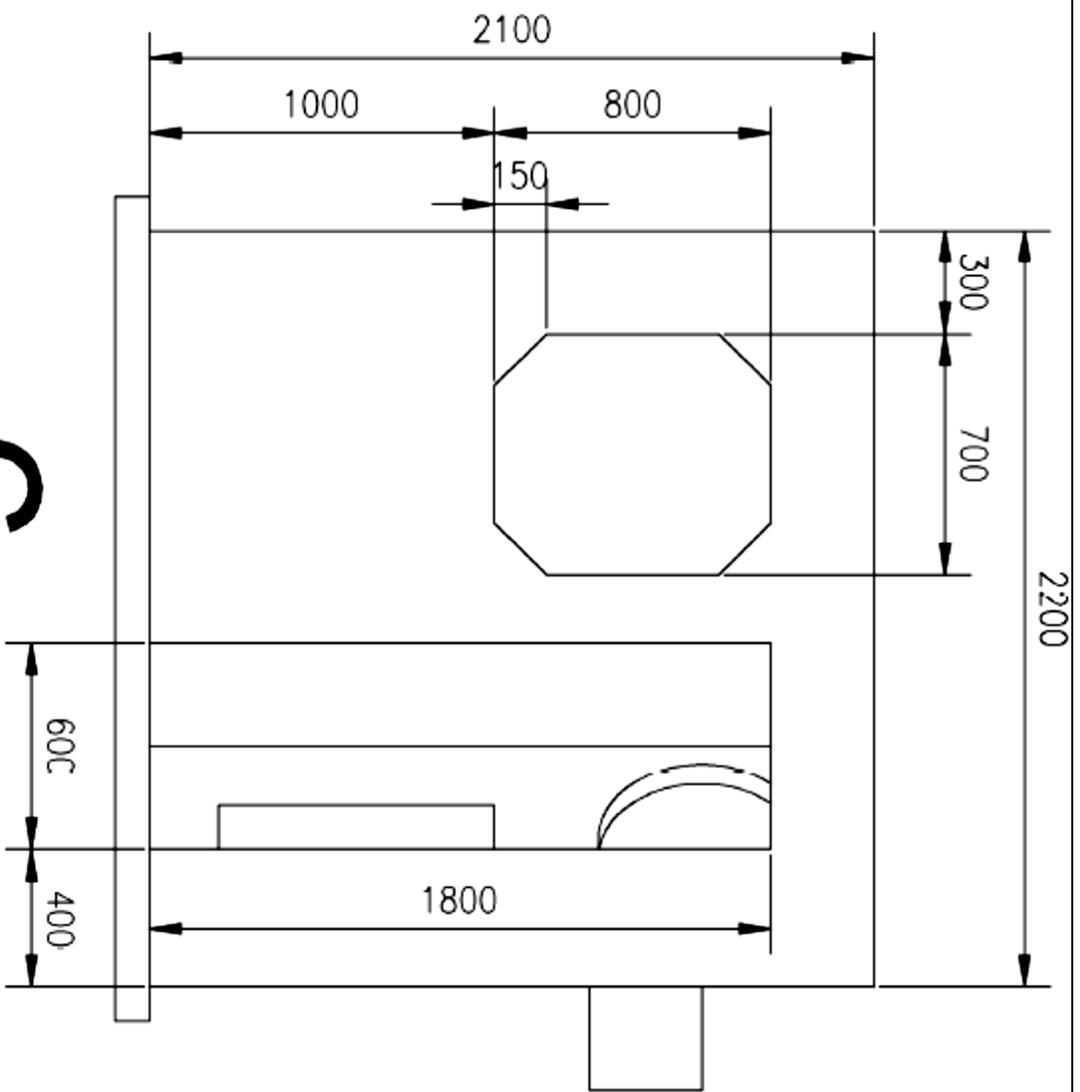


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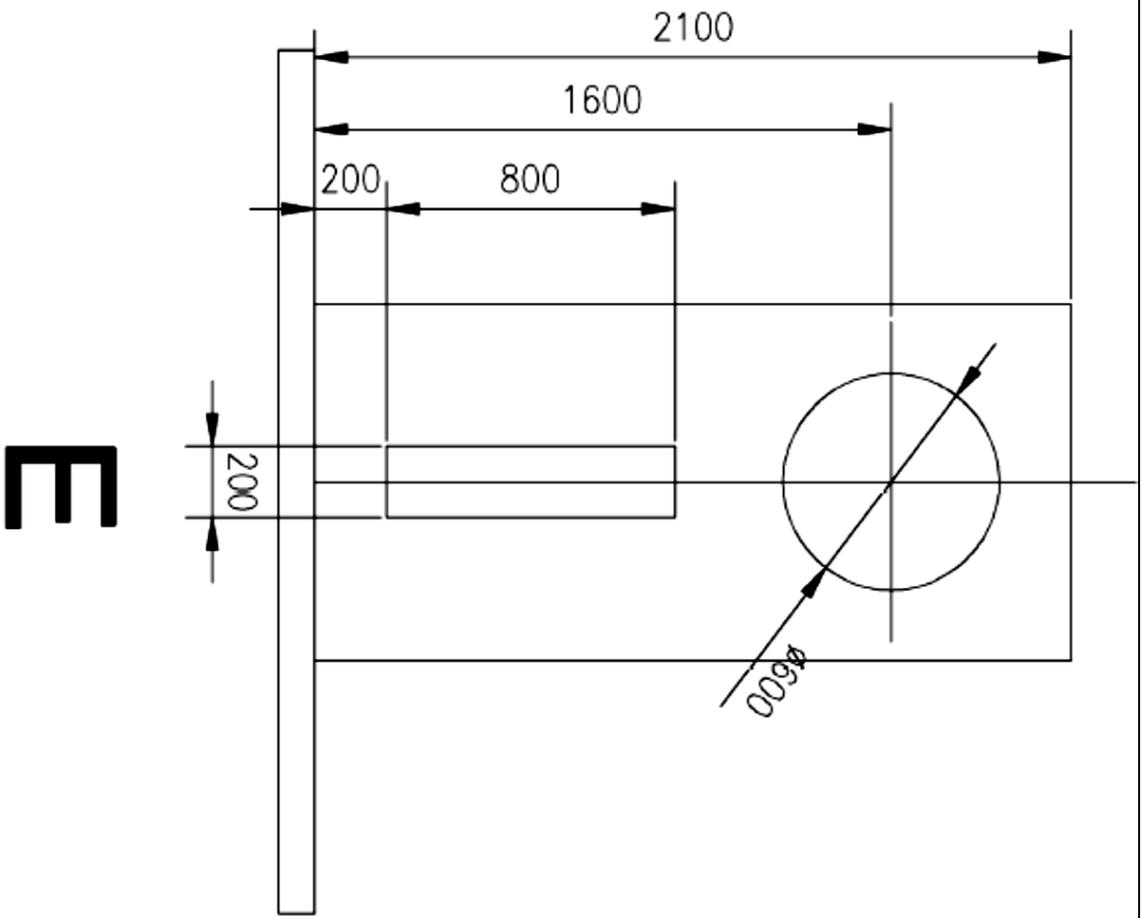
ELEVATION

C



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**E**

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## Section D- 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

Aspects	Sub criteria	Requirement	Accurate (+)(-) 0 to 2mm	(+) (-) 3 to 5mm	More than 6 mm	Actual Dimension	Marks obtained
<b>Dimensions</b>	Length of Side A	1500mm	2	1	0.5		
	Length of side C	2200mm	2	1	0.5		
	Height of Wall	2100mm	2	1	0.5		
	Length of Side B	1500mm	2	1	0.5		
	Height of small door	1680mm	2	1	0.5		
<b>Right Angle</b>	Corner of B & C	(+)(-) 2mm	2	1	0.5		
	Corner of D & A	(+)(-) 2mm	2	1	0.5		
	Top of Box	(+)(-) 2mm	2	1	0.5		
	Ceiling to Wall B	(+)(-) 2mm	2	1	0.5		
	Door opening	(+)(-) 2mm	2	1	0.5		
<b>Alignment</b>	Small vertical opening	(+)(-) 2mm	2	1	0.5		
	Small door	(+)(-) 2mm	2	1	0.5		
	Ceiling	(+)(-) 2mm	2	1	0.5		
	Wall Inner side B	(+)(-) 2mm	2	1	0.5		
	Wall Inner side D	(+)(-) 2mm	2	1	0.5		
<b>Details</b>	Height of Box from Floor	1275mm	2	1	0.5		
	Width of Box	325mm	2	1	0.5		
	Door opening	600mm	2	1	0.5		
	Door height	1800mm	2	1	0.5		
	Door Distance from corner	400mm	2	1	0.5		
	Circle Dia	600mm	2	1	0.5		
	Circle centre from floor	1600mm	2	1	0.5		
height of vertical opening	800mm	2	1	0.5			

	Hexagonal Window from corner	300mm	2	1	0.5		
	Outer Dimension of Window	700mm	2	1	0.5		
	Bottom of window from floor	1000mm	2	1	0.5		
	Height of horizontal cut from floor	600mm	2	1	0.5		
	Width of horizontal cut	200mm	2	1	0.5		
	Distance from corner of horizontal cut	690mm	2	1	0.5		
	vertical opening width	200mm	2	1	0.5		
<b>Ceiling</b>	Width of Ceiling	1000mm	2	1	0.5		
	Ceiling level from Floor	1900mm	2	1	0.5		
	Frame centre distance	500mm	2	1	0.5		
			<b>Perfect</b>	<b>50% good</b>	<b>25% good</b>		
<b>Beads</b>	Edge bead at D		2	1	0.5		
	Angle Bead at Box		2	1	0.5		
	Levelline at Door		2	1	0.5		
	paper Tape at Internal Conner A & D		2	1	0.5		
	paper Tape at Internal Corner Ceiling & B		2	1	0.5		
<b>Finishing</b>	Skimming on box		3	2	1		
	Board Joints Internal		3	2	1		
	Window Finishing		3	2	1		
	Circle Finishing		3	2	1		
	Edge bead finishing		3	2	1		
<b>Work station</b>	Quantity Work out		3	2	1		
	Clean area		3	2	1		
	Safety		3	2	1		
			<b>100</b>				

## Section –E- Infrastructure List (Tool and equipment including raw material)

List of material- Per Module/Per Competitor—

Quantity	Component	Length	Width	Thickness	Material
40 Nos	Stud	3660	70	0.5	GI
15 Nos	Floor & ceiling channel	3660	72	0.5	GI
50 Nos	Fasteners/Screws	45		8mm	GI
1 box	Metal to metal screws	13mm		4.2mm	GI
2 boxes of 1000 Nos each	Drywall screws	25mm		3.5mm	Carbon steel
22Nos	Gypsum boards	2439	1219	12.5mm	Gypsum
8 Ns	Angle Bead	2440	25	0.5	GI

Additional Material		
1 Bag	Jointing compound	Bag of 25 Kg
1 Roll	Paper Tape	Roll of 90 meter length
2 Bag	Skimming plaster	Bag of 20 kg
2 Bag	Stucco Plaster	Bag of 20 Kg
1 Roll	Levelline Tape	Roll of 30 M

### Tools & Equipment

Marker Pen	Cordless drill	Hammer	Board cutter	Crimping tool
Metal cutter	Hand saw	Plumb Bob	Spirit Level	Right Angle
Screw driver	Taping Knife	Applicator	Trowel	Brush
Sand paper	Bucket	Broom	Pan	

### Platform –

- Size – 2400 mm x2400mm
- Minimum 150mm rise from floor
- Floor should be flat.

## **Section-F- Instruction for Competitors**

1. **Time:** Drawing Reading –0.5 hour before starting competition (All Days)

- Working Time – 22 Hours.
- Cleaning of Area – within working time
- Break out time 20 Min before & after Lunch
- Lunch Break -45 min

2. **Drawing:** Read the drawing carefully, and Material work out

3. **Preparation-**

- Check the material Given for work
- Calculate material required for given work

4. **Cleaning of work place**

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

5. **Safety**

- Use Safety shoes all the Time
- Hand Glove during Cutting board & Metal sections
- Goggles while Jointing & Plastering