



**Skill India**  
कौशल भारत - कुशल भारत



# Sample Test Project

**District / Zonal Skill Competitions**

**Skill- Landscape Gardening**

*Category: Construction and Building Technology*

## Table of Contents

A. Preface .....	3
B. Test Project.....	4
C. Marking Scheme .....	7
D. Infrastructure List.....	19
E. Instructions for candidates .....	21
F. Health, Safety, and Environment .....	22

## Section - A

### *A. Preface*

---

#### **Skill Explained:**

The development of a Garden is a composite work covering all the features of soft landscape and hard land scape which may include construction of Boundary wall, planters, paths, water body, garden benches, fire place, swimming pool, installation of pumps, garden lights, shaping and placing stones, slabs and precast units ,cut materials and assemble vertical and horizontal structures, Garden Technology (Plumbing, electrical, drainage and irrigation) etc. and digging ,mixing ,levelling ,shaping the ground etc. and plantation as per landscape design. The competitors should have complete knowledge and practical experience of all these works and should be able to Design, Develop and maintain all types of Gardens, i e. residential garden, office garden, public park, colony park, Hospital Garden, School Garden, Play Ground, Religious Garden, Children Park and other theme based Gardens. Competitors should also be able to read and interpret drawings.

All the materials required for hard and soft landscape will be available at site of work and the competitors should collect it as per their requirement. All the tools and equipment as per infrastructure list will be provided by the organizer.

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

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

**Total Duration: 6 Hrs**

## Section - B

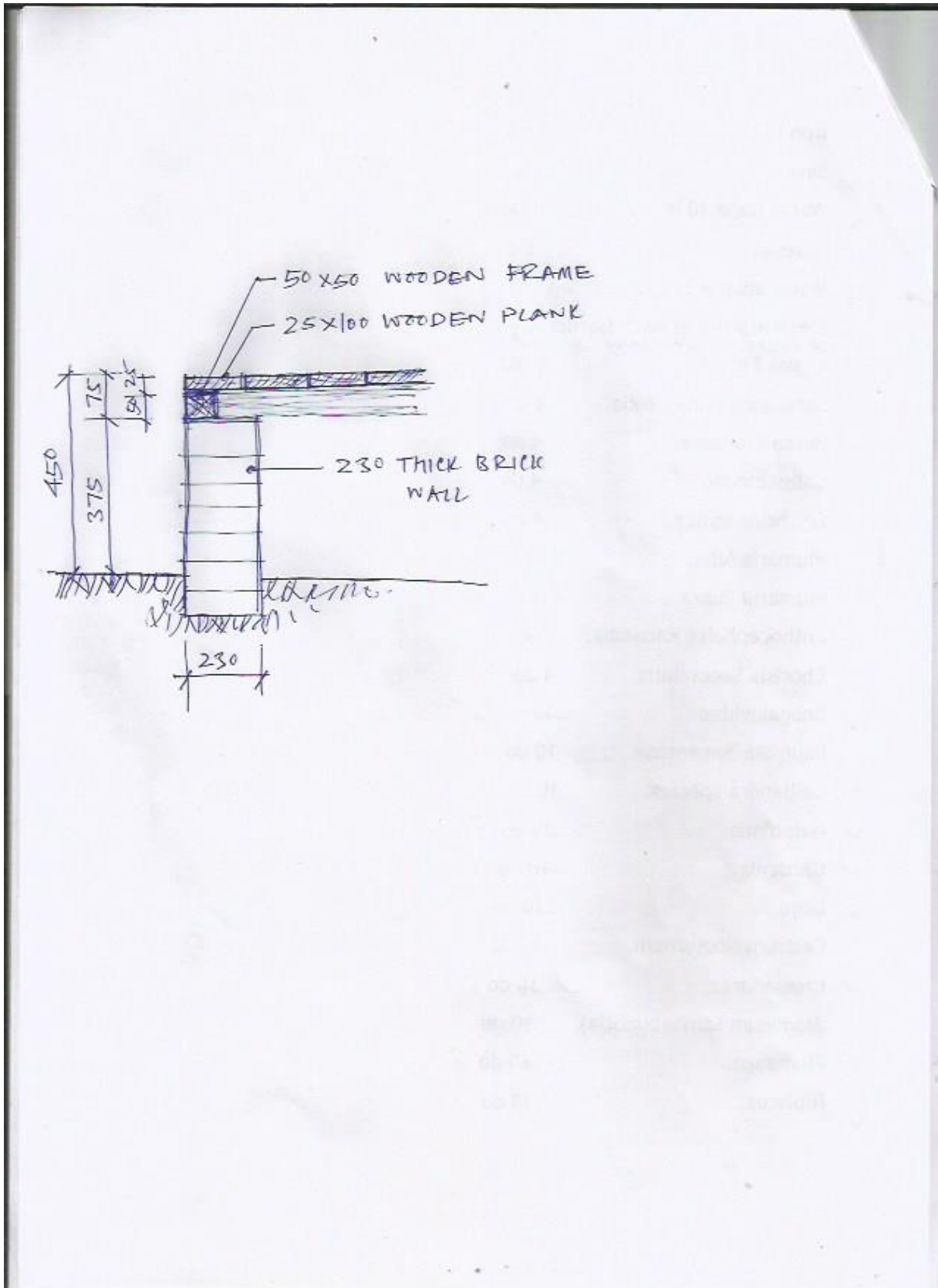
### B. Test Project

---

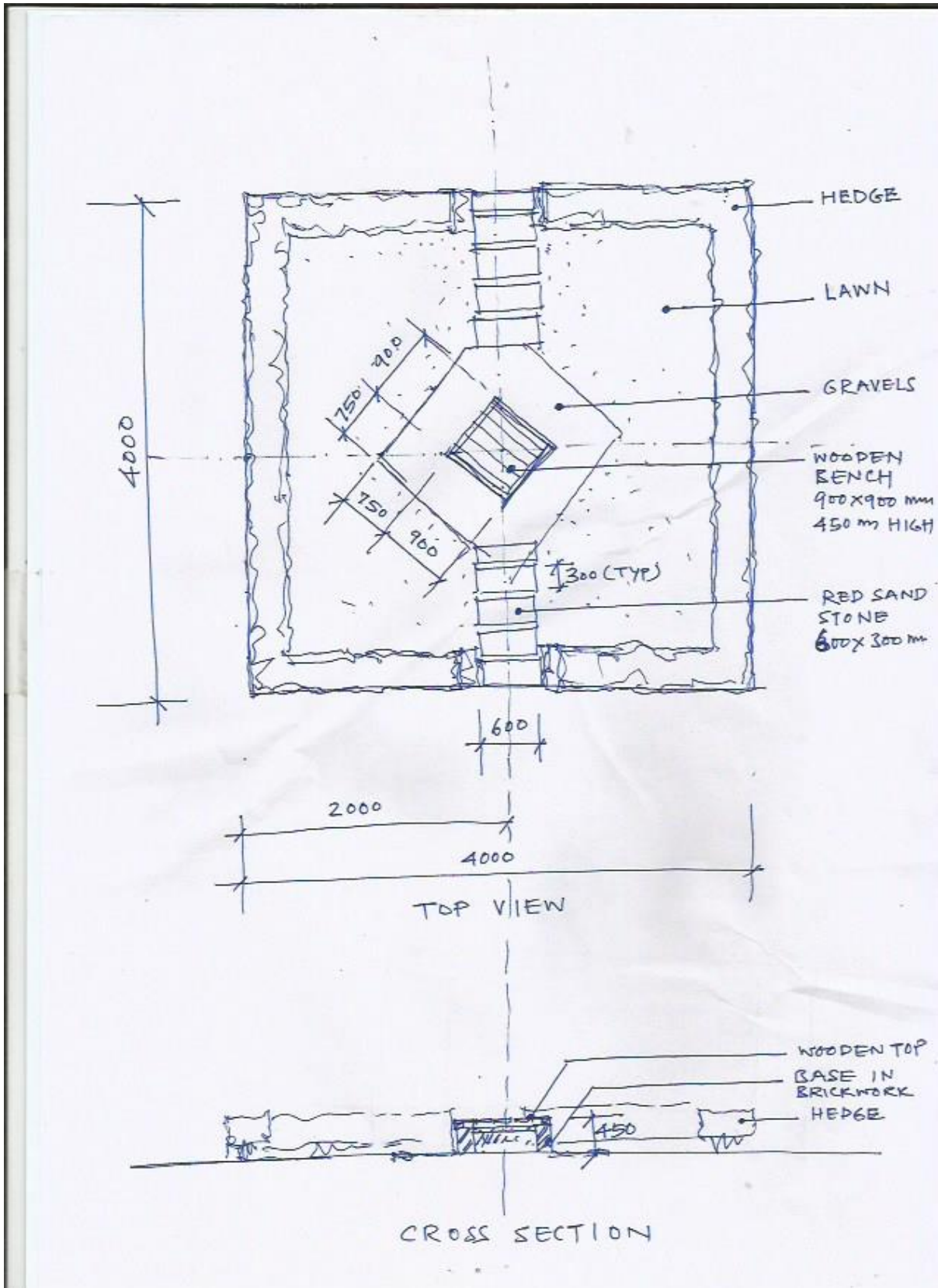
**To develop a Garden in 16 sqm. (4m. x 4m.) plot area.**

**Instruction for Competitors: -**

1. Ground level be considered as benchmark for levelling –O point
2. Two entrances of 600mm width in opposite direction.
3. Construction of 230mm thick Brick Tow wall with cement and sand mortar in the centre in square shape having a periphery of 900mmx 900mm and 375 mm ht. above ground level.
4. Levelling and compaction of paving area.
5. Construction of stone pathways 600mm wide with 600x300mm sand stone to be laid over 75mm thick Plain Concrete.
6. Construction of Gravel path 750 mm wide around Tow wall with 50mm Plain Concrete under layer. Top layer to be made with spreading stone gravels (18mm nominal size) to cover Plain Concrete.
7. Construction of one wooden bench measuring 900mm x 900mm, top to be made with 100mm wide and 25mm thick wooden planks joined together by 50mmx50mm peripheral frame and to be placed over Tow wall.
8. To prepare the ground and make ready for plantation.
9. Grassing of lawn by using turf grass, on one lawn
10. Plantation of hedge plants (Ficus Benjamina) on boundary (periphery), 2 sides of own choice
11. Plantation of 2 trees, 5 shrubs and 10 seasonal flowering plants as per own landscape design.
12. Watering



**Section of the Planned Bench**



Outline Plan-Landscape Gardening

## 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

#### Example-Judgment Marking

If maximum marks for Judgment criteria is 1 and if all 3 Experts (Juries) give 3 points to a candidate, the candidate will get 1 mark for that aspect. If 2 Experts give 3 and 1 Expert gives 2 points, then candidate will get  $(3+3+2)/9*1 = 0.89$  marks for that aspect out of 1 mark.

#### Suggested marking forms

##### Landscape Marking Form 1

Skill-Landscape Gardening.

Expert - Sub Criterion-Layout of Green Space - Plants

---

Aspect ID.	Max. Mark	Aspect of Sub Criterion Description.	Competitor ID and Mark / Score
M 1.	2.00.	Root balls of plants are not to be showing Yes =2 mark, no =0 mark.	
M 2.	2.00	Pots/ Polythene bag removed for planting Yes =2 mark, no = 0 mark.	
M 3.	2.00.	Labels and tree ties are removed Yes = 2 mark, no = o mark	
M 4.	2.00.	Plants are not damaged and looking fresh Yes = 2 mark, no = 0 mark	
M 5.	2.00	Plants are properly cleaned Yes =2 marks, no =0 mark	
M 6	2.00.	Plants are watered Yes = 2 mark, no = 0 mark	

---

## Landscape Marking Form 2

Skill-Landscape Gardening.

Expert- Sub Criterion-Layout of Green Space -Plants.

Marking Scheme Lock/Date-

---

Aspect ID.	Max. Mark	Aspect of Sub Criterion-Description	Competitor ID and mark / Score
J 1.	3.00	<p>Professional Planting Technique</p> <p>0 - Does not meet the standard.</p> <p>1 - Planting to correct depth, soil firmed, plants upright</p> <p>2 - Planting to correct depth, soil firmed, plants upright, damaged material removed</p> <p>3 -Planting to correct depth, soil firmed, plants upright, damaged material rem</p> <p>And the most aesthetic side faces the viewing points.</p>	
J 2	3.00	<p>Use of shape, height and texture</p> <p>0 - No consideration given</p> <p>1 - Competitor have taken in to consideration use of shape and Texture</p> <p>2 - Competitor have taken in to consideration use of shape, height and texture create. A visually nice display, have relationship with other plants.</p> <p>3 - Competitor demonstrate an understanding of shape and texture to create a visually Excellent display and enhanced the garden greatly.</p>	

---



### Landscape Marking Form 3

Skill-Landscape Gardening

Expert- Sub Criterion- General Impression

Marking Scheme Lock /Date

Aspect ID.	Max Mark	Aspect of Sub Criterion-description	Competitor ID and mark / Score
J 1.	6.00.	<p>Overall appearance of the Garden</p> <p>0 - The Garden is not finished and is not according to the design.</p> <p>2 - The Garden is finished, clean and tidy. All elements are according to the the design but it does not reflect the feeling of the Garden according to the design.</p> <p>4 - The Garden is finished and looks very nice, all elements are according to the design and reflects the main Feeling of Garden design.</p> <p>6 - The Garden is finished and looks Excellent. All elements are connected to each other and give the feeling of Whole. The message of the garden is clear.</p>	

### Landscape Marking Form 4

Skill-Landscape Gardening

Expert- Sub Criterion-General Impression

Marking Scheme Lock / Date

Aspect ID.	Max Mark	Aspect of Sub Criterion-Description	Competitor ID and Mark/ Score
M 1.	2.00.	Size of the garden is as per design Tolerance +/- 20 mm ,2 mark Tolerance +/- 30 mm, 1 mark	
M 2.	2.00	Lines are proper Yes =2 mark, no =0 mark	
M 3	2.00	both entrance are in the centre Yes =2 mark, no =0 mark	
M 4.	1.50.	Beds are properly dressed Yes =1.5 mark, no =0 mark	
M 5.	1.50	unused material, tools and waste Etc. removed from the Site Yes =1.5 mark, no =0 mark	
M 6.	1.50	Site is properly cleaned Yes =1.5 mark, no =0 mark	

## Landscape Marking Form 5

Skill-Landscape Gardening

Expert- Sub Criterion-Layout of Green space-Grass Turf

Marking Scheme Lock / Date

Aspect ID	Max Mark	Aspect of Sub Criterion-Description	Competitor ID and Mark / Score
M 1.	2.00	Laid Turf is not uneven. Yes =2 marks, no =0 mark	
M 2.	2.00.	Joints are neatly finished Yes =2 marks, no =0 mark	
M 3	2.00	Levels/ slopes are properly Done. Yes =2 mark, no =0 mark	
M 4.	1.50	Damaged turf not used Yes =1.5 mark, no =0 mark	
M 5.	1.50.	Surplus turf removed from site Yes =1.5mark, no =0 mark	
M 6	1.50.	Lawn is properly cleaned Yes =1.5 mark, no =0 mark	
M 7	1.50.	Grass is properly watered Yes =1.5 mark, no =0 mark	

## Landscape Marking Form 6

Skill-Landscape Gardening

Expert- Sub Criterion-Layout of Green space-Grass Turf

Marking Scheme Lock / Date

---

Aspect ID	Max Mark	Aspect of Sub Criterion-Description	Competitor ID and Mark / Score
-----------	----------	-------------------------------------	--------------------------------

---

J 1.	6.00	Overall appearance of lawn	
		0 - It is not up to the Mark	
		2 - The lawn is finished, clean And tidy but does not reflect The feeling of lawn	
		4 - The lawn is finished, clean And tidy and reflects The feeling of lawn	
		6 - The lawn is finished, clean And tidy, looking excellent And attractive.	

---

## Landscape Marking Form 7

Skill-Landscape Gardening

Expert- Sub Criterion-Brick wall

Marking Scheme Lock / Date

Aspect ID.	Max Mark	Aspect of sub criterion-Description	Competitor ID and Mark / Score
M 1.	2.00.	Height of the walls Tolerance + / - 5mm =2 mark, + / - 10mm =1 mark	
M 2	2.00	Length and width of walls Tolerance + / - 5mm =2 mark + / - 10mm =1 mark	
M 3	2.00.	Wall angles are 90 degree In making square Yes =2 mark, no =0 mark	
M 4	2.00	Walls are straight Yes =2 mark, no =0 mark	
M 5	2.00	walls are in level Yes =2 mark, no =0 mark	

## Landscape Marking Form 8

Skill-Landscape Gardening  
Expert- Sub Criterion-Brick Wall

Marking Scheme Lock / Date

Aspect ID	Max Mark	Aspect of Sub Criterion-Description	Competitor ID and Mark / Score
J 1	6.00.	<p>Overall appearance of wall</p> <p>0 = the wall is not finished And is not up to mark</p> <p>2 = the wall is finished but It does not give the feeling of wall</p> <p>4 = the wall is nicely finished, All the elements are properly Connected, looks nice and Give the feeling of wall</p> <p>6 = the wall is very nicely finished, All elements are nicely connected, Looks excellent from all angles and Gives feeling of complete wall.</p>	

## Landscape Marking Form 9

Skill-Landscape Gardening

Expert- Sub Criterion-Pathways

Marking Scheme Lock / Date

Aspect ID.	Max Mark	Aspect of Sub Criterion-Description	Competitor ID and Mark / Score
M 1.	1.50.	The sand stone path is in Straight line Yes =1.5mark, no =0	
M 2	1.50.	The stone slabs are on Equal distance Yes =1.5 mark, no =0 mark	
M 3.	1.50.	The stone path is in level Yes =1.5mark, no =0 mark	
M 4.	1.50.	The width of Gravel path Is as per design Yes =1.5mark, no =0 mark	
M 5	1.50	Gravels are placed at equal Level Yes =1.5 mark, no =0 mark	

## Landscape Marking Form 10

Skill-Landscape Gardening

Expert- Sub Criterion-Pathways

Marking Scheme Lock / Date

Aspect. ID.	Max. Mark	Aspect Sub Criterion-Description	Competitor ID and Mark /Score
J 1.	3.00.	<p>The overall look of stone path</p> <p>0 - The path is not finished and is Not according to design</p> <p>1- The path is finished and is According to design but it Does not look nice</p> <p>2 - The path is finished and is According to design and look Very nice</p> <p>3 - The path is very well finished According to design and looks Excellent and attractive</p>	
J 2	3.00.	<p>The overall look of Gravel path</p> <p>0 - The path is not finished and Is not according to design</p> <p>1 - The path is finished and is According to design but does Not look nice</p> <p>2 - The path is finished and according To design and looks very nice</p> <p>3- The path is very well finished according To design looks excellent and attractive</p>	



## Landscape Marking Form 11

Skill-Landscape Gardening

Expert- Sub Criterion-Wooden Bench

Marking Scheme Lock / Date

Aspect ID.	Max Mark	Aspect of Sub Criterion-Description	Competitor ID and Mark /Score
M 1.	2.00.	Length and width Tolerance + / - 2mm =2mark, Tolerance + / - 4mm =1 mark	
M 2	2.00	Height Tolerance + / - 1mm =2 mark Tolerance + / -2mm =1 mark	
M 3.	2.00.	Number of planks as per design Yes =2 mark, no =0 mark	
M 4	2.00	Joints at 4 corners are at 90 Degree angles Yes =2 mark, no =0 mark	
M 5.	2.00	Planks are at right distance Yes =2 mark, no =0 mark	
M 6.	2.00	Smooth Surface Yes =2 mark, no =0 mark	

## Landscape Marking Form 12

Skill-Landscape Gardening

Expert-Sub Criterion-Wooden Bench

Marking Scheme Lock / Date

Aspect ID.	Max. Mark	Aspect of Sub Criterion- Description	Competitor ID and Mark / Score
J 1.	6.00.	Overall appearance of Bench  0 - The Bench is not finished And is not according to design 2 - The Bench is finished and is According to design but it does Not reflect the feeling of Bench 4 - The Bench is finished and looks Very nice. All elements are well Connected according to design And it reflects the feeling of Bench 6 - The Bench is smartly finished, all Elements are very well connected According to design. Looks excellent And attractive.	

## Section - D

### D. Infrastructure List

---

The Infra Structure List details all equipment, material and facilities provided by the competition organiser. The infrastructure list does not include items that competitors are required to bring.

<b>Workshop Installations</b>	
• Compactor.	1 per team
• Handheld Brick cutter.	2 per team
• Drills.	1 per team
• Wheelbarrow.	1 per team
• Bucket	2
• Mug	2
• Shovel short.	2
• Shovel long	2
• Hand Travel	2
• Mallet	2
• Planar	2
• Garden Rake	2
• Broom soft.	2
• Broom hard.	2
• Measuring tape 8 met	1
• Tripod leveling.	1
• Levelling rod.	1
• Folding Ruler 2m.	2
• Straight Edge 1m Aluminum	1
• Straight Edge 2m Aluminum	1
• Stone cutting machine.	1
• Hammer small.	1
• Hammer medium.	1
• Khera.	2
• Pawar	2
• Iron Pan.	1
• Saw.	1
• Iron saw	1
• Water Cane 10 lt.	1
• Scat ear.	1
• Iron Pan	2
• Water source at each Garden	1
• Electric point at each Garden	1

<b>Plants</b>	
• Cassia Fistula.	2
• Jacaranda mimosifolia	2
• Callistemone	2
• Erythrina Indica.	2
• Plumaria Alba.	2
• Bougainvillea.	5
• Bauhinia Tomentosa.	5
• Gardenia.	5
• Ixora.	5
• Jasminum Sambac (motia).	5
• Plumbago.	5
• Hibiscus.	5
• Murraya.	5
• Ficus Benjamina 3ft.ht.	20
• Seasonal flowering plants	15
<b>Grass</b>	
Grass Selection no.1.	10 Sqm. per team
<b>Materials / Consumables</b>	
• Bricks	as per requirement
• Dry mix sand and cement in bags.	as per requirement
• Sand stone	as per requirement
• Gravels	as per requirement
• Good Earth (sweet earth)	
• Wooden Slates for Bench.	as per requirement
• Universal Saw Blade.	as per requirement
• Fine Saw Blade.	2 do
• Nails different size.	as per requirement
• Wood Blocks for peripheral frame	as per requirement

<b>Material may be brought by the competitor-Will be decided by Organizers</b>	
• Levelling Instrument	
• Pencil	
• Greasy Chalk	
• Alignment String	
• Plumb Line	
• Personnel Protective material (Glasses, ear protection, gloves, safety boots, knee protection and dust mask)	

## Section – E

### **E. Instructions for candidates**

---

- Only two competitors will be in each team.
- Cell phone, camera and any other items except the listed items will not be permitted during competition.
- Competitor can't meet any person during competition.
- For any problem competitors can contact the available expert available there.
- Communication time will be given each day before and after the competition.
- Assessment will be done on same day after competition of test project.

## **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.
4. Competitor should wear safety shoes and appropriate protective rubber gloves must be used in wet work and when handling chemicals
5. Must ensure provision of First Aid near the Competition site