



Skill India

कौशल भारत - कुशल भारत



India **skills**



N · S · D · C

National
Skill Development
Corporation

Transforming the skill landscape

Sample Test Project

Regional Skill Competitions – Level 3

Skill 37 - Landscape Gardening

Category: Construction & Building Technology

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SAMPLE

Section - A

A. Preface

Skill Explained:

The development of a Garden is a composite work covering all the features of soft landscape and hard landscape 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 only eligible to attend the Competition.

Total Duration: 16 Hrs for 3 days

Section - B

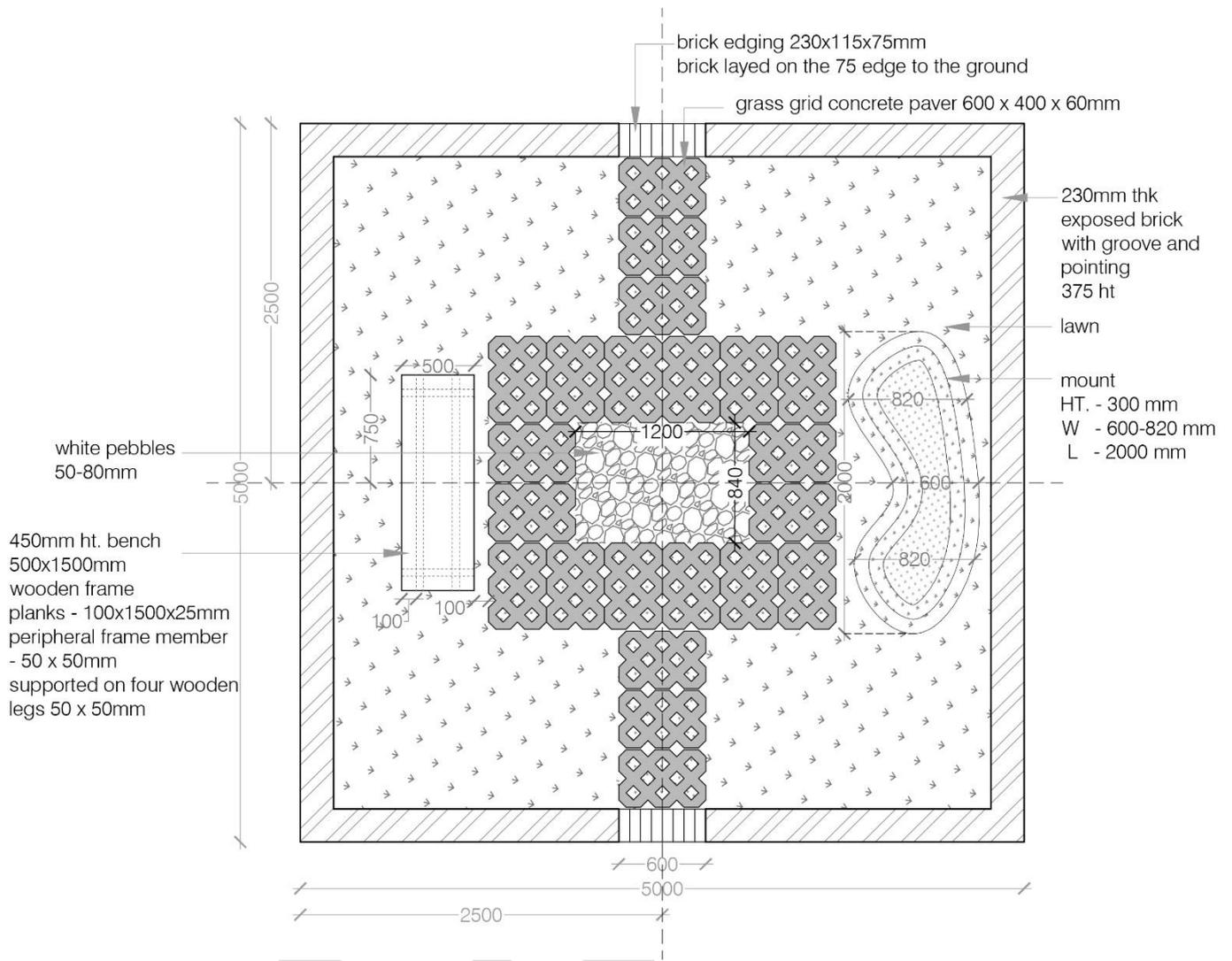
B. Test Project

Task A – To develop a **Garden** in 25 sq. mt. (5mt. x 5mt.) plot area

Competitor Instruction Sheet

You have **16 Hours** to complete this task

1. Zero point starts from the ground level.
2. Construction of 230mm thick boundary wall with bricks and sand mortar with 375 mm height above ground level. Outer dimension 5m x 5m (re. drawing)
3. Two entrance of 600 mm width in opposite direction with 230mmx115mmx75mm brick laid on the 75mm edge to the ground(ref. drawing)
4. Levelling and compaction of paving area.
5. Construction of pathways and paving 600mm wide by laying 600 mmx400 mm x60 mm grass pavers over 25mm thick sand layer than filling of sweet earth in the pavers and grassing. (ref. drawing)
6. Construction of one wooden bench 450 mm height, 500 mmx1500 mm wooden frame, 1000 mmx1500 mmx25 mm planks, peripheral frame member 50 mmx50 mm, supported on 4 wooden legs 50 mmx50 mm.
7. White stone pebbles to be laid in the central pocket surrounded by paved area (grass pavers)
8. To prepare the ground and develop a mount Ht.in the centre 300mm,Length 2000mm and width 600 to 820mm (as per drawing).
9. Grassing of lawn by using turf grass. Plantation of 4 trees, 20 shrubs and 80 seasonal flowering plants as per own landscape design.
10. Watering the Garden.



Details of the competition:

- The competitor must be able to read the drawing & develop the Garden accordingly.

Section – C

C. Marking Scheme

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

- Measurement - One which is measurable
- Judgment - Based on Industry expectations

Aspects are criteria's which are judged for assessment.

Example-Judgment Marking

If maximum marks for Judgement 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.

The Marking Scheme of the mentioned Task

Landscape Marking Form 1

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
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 = 0 mark	
M 4.	2.00.	Plants are not damaged and looking fresh Yes = 2 mark, no = 0 mark	
M 5.	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
J1.	3.00	Professional Planting Technique	
material		0 - Does not meet the standard. 1 - Planting to correct depth, soil firmed, plants upright 2 - Planting to correct depth, soil firmed, plants upright, damaged material removed 3 - Planting to correct depth, soil firmed, plants upright, damaged material removed And the most aesthetic side faces the viewing point.	
J2.	3.00	Use of shape, height and texture	
texture		0 - No consideration given 1 - Competitor have taken in to consideration use of shape and 2 - Competitor have taken in to consideration use of shape, height and texture to create A visually nice display have relationship with other plants. 3 - Competitor demonstrate an understanding of shape and texture to create a visually Excellent display and enhanced the garden greatly.	

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.	Overall appearance of the Garden	
		0 - The Garden is not finished and is not according to the design. 2 - The Garden is finished, clean & tidy. All elements are according to the the design but it does not reflect the feeling of the Garden according to the design. 4 - The Garden is finished and looks very nice, all elements are according to the design and reflects the main feeling of Garden design.	

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.

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 materials, 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 marks, no =0 mark	

M 4.	1.00	Length of Grassy mount +/- 10mm =1.00 mark, +/- 20 mm =0.50 mark
M 5	1.00	Width of grassy mount +/- 5mm =1 mark,+/- 10mm =0.5 mark
M 6	1.00	Ht. of grassy mount +/- 2mm= 1 mark,+/- 5mm= 0.5 mark
M 7	1.00.	Grass is properly watered Yes =1.00 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	

M 4	2.00	Yes =2 mark, no =0 mark Walls are straight Yes =2 mark, no =0 mark
M 5	1.00	Dimensions of Brick edging at one gate Correct=1 mark, Not correct =0 mark
M 6	1.00	Dimensions of Brick edging at another gate Correct =1 mark, Not correct= 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.	Overall appearance of wall 0 = The wall is not finished and is not up to mark 2 = The wall is finished but It does not give the feeling of wall 4 = The wall is nicely finished, all the elements are properly connected, looks nice and give the feeling of wall 6 = The wall is very nicely finished , all elements are nicely connected, looks excellent from all angles and gives feeling of complete wall.	

Landscape Marking Form 9

Skill-Landscape Gardening

Expert-

Sub Criterion-Pathways & Paving

Marking Scheme Lock / Date

Aspect ID.	Max Mark	Aspect of Sub Criterion-Description	Competitor ID and Mark / Score
M 1.	1.50.	The grass pavers path is in straight line Yes=1.5 mark, no=0	
M 2	1.50.	The pavers blocks are on equal distance Yes=1.5 mark, no=0 mark	
M 3.	1.50.	The pavers path is in level Yes=1.5mark, no=0 mark	
M 4.	1.50.	The design of path and paved area is as per drawing Yes=1.5mark, no=0 mark	

M 5 1.50 Grassing on the pavers uniformly done
 Yes =1.5 mark, no =0 mark

Landscape Marking Form 10

Skill-Landscape Gardening

Expert-

Sub Criterion-Pathways & paving

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 grass pavers path</p> <p>0- The path is not finished and is not according to design 1- The path is finished and is according to design but it doesn't look nice 2- The path is finished and is according to design and look very nice 3- The path is very well finished according to design and looks excellent & attractive</p>	
J 2	3.00.	<p>The overall look of grass over pavers</p> <p>0 - The grassing is not finished and is not according to design 1 - The grassing is finished and is according to design but doesn't look nice 2 - The grassing is finished and according to design and looks very nice 3- The grassing 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.	<p>Length and width Tolerance + / - 2mm =2mark, Tolerance + / - 4mm =1 mark</p>	
M 2.	2.00.	<p>Number of planks as per design Yes =2 mark, no =0 mark</p>	

M 3	2.00	Joints at 4 corners are at 90 degree angles Yes =2 mark, no =0 mark
M 4.	2.00	Planks are at right distance Yes =2 mark, no =0 mark
M 5.	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 & is not according to design	
		2- The Bench is finished and is according to design but it doesn't reflect the feeling of Bench	
		4- The Bench is finished and looks very nice. All elements are well Connected according to design & it reflects the feeling of Bench	
		6- The Bench is smartly finished, all elements are very well connected according to design. Looks excellent & attractive.	

Landscape Marking Form 13

Skill-Landscape Gardening

Expert-

Sub Criterion- Pebbles laying

Marking Scheme Lock / Date

Aspect ID.	Max Mark	Aspect of sub criterion-Description	Competitor ID and Mark / Score
M 1.	1.00.	Level of pebbles Tolerance + / - 5mm =1 mark, + / - 10mm =0.5 mark	
M 2	1.00	Length and width of Pebbles area Tolerance + / - 3mm =1 mark + / - 8mm =0.5 mark	
M 3	1.00	Pebbles are placed in pattern Yes =1 mark, no =0 mark	

Landscape Marking Form 14

Skill-Landscape Gardening

Expert-

Sub Criterion-Pebbles laying

Marking Scheme Lock / Date

Aspect ID	Max Mark	Aspect of Sub Criterion-Description	Competitor ID and Mark / Score
J 1	3.00.	Overall appearance of Pebbles laying 0= The Pebbles laying is not finished & is not up to mark 1= The Pebbles laying is finished but it doesn't give the good feeling 2= The Pebbles laying is nicely finished, looks nice and give good feeling 3= The Pebbles laying is very nicely finished, all elements are nicely connected, looks excellent from all angles.	

Section - D

D. Infrastructure List

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

Workshop Installations

Compactor	1 per team
Handheld Brick cutter	2 do
Drills	1 do
Wheelbarrow	2 do
Bucket	2 do
Mug	2 do
Shovel short	2 do
Shovel long	2 do
Hand Travel	2 do
Mallet	2 do
Planar	2 do
Garden Rake	2. do
Broom soft	2. do
Broom hard	2 do
Measuring tape 8 met	1 do
Tripod levelling	1 do
Levelling rod	1 do
Folding Ruler 2m.	2 do
Straight Edge 1m Aluminium	1 do
Straight Edge 2m Aluminium	1 do
Stone cutting machine	1 do
Hammer small	1 do
Hammer medium	1 do
Khurpa	2 do
Phawra	2 do
Iron Pan	1 do
Saw	1 do
Iron saw	1 do
Water Cane 10 lts.	1 do
Scatear	1 do
Iron Pan	2 do

Water source at each Garden 1 do

Electric point at each Garden 1 do

Plants

Polyalthia Longifolia (Ashok) 2 do

Anthocephalus Cadamba (Kadamb) 2 do

Gulmohar 2 do

Plumaria Rubra. 2 do

Tecoma gaudichaudi 10 do

Lagerstroemia Indica. 10 do

Nerium Oleander 10 do

Jasminum Sambac(motia). 10 do

Plumbago. 10 do

Hibiscus Hawain 10 do

Seasonal flowering plants of
different varieties 100 do

Grass

Grass Selection no. 1 25 Sq. mt. per team

Materials / Consumables

Bricks as per requirement

Dry mix sand and cement in bags. do

Sand do

Grass Pavers 600x400x60mm do

Good Earth (sweet earth) do

Wooden Slates for Bench do

Universal Saw Blade 2 per team

Fine Saw Blade 2 do

Nails different size as per requirement

Wood Blocks for peripheral frame do

Stone Pebbles (60mm to 80 mm) do

Material to be brought by the competitor

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

1. Only two competitors will be in each team.
2. Cell phone, camera and any other items except the listed items will not be permitted during competition.
3. Candidate must wear the prescribed Personnel Clothing while performing the task and ensure safety of equipment and personnel's working around his workstation.
4. Candidate should remain present at the Competition venue 30 min before start of work
5. Each candidate would be allotted a specific time to complete the task; no further extension would be given to anyone unless specified by Jury.
6. Candidates must follow the instructions given by Jury.
7. Candidate must dispose-off the environmentally harmful products carefully.
8. In case of any difficulty the candidate must seek support of Jury members.

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. Knowledge and understanding of arrangement of material and also care of materials
5. Competitor should wear safety shoes; More related to Skill.