



Test Project

Regional Skill Competitions Skill- Landscape Gardening

Category: Construction & Building Technology

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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: 18 Hrs for 3 days

Section - B

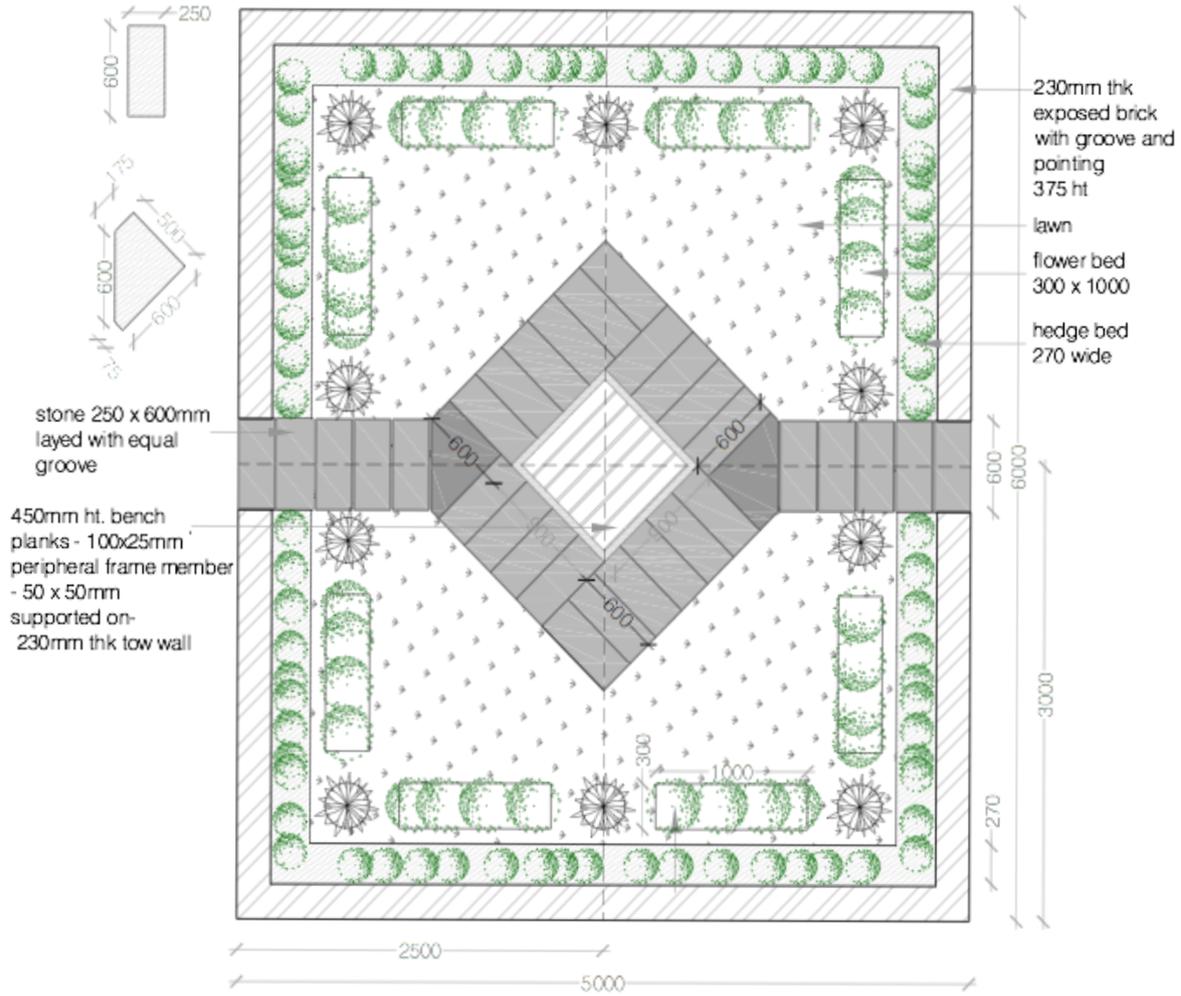
B. Test Project

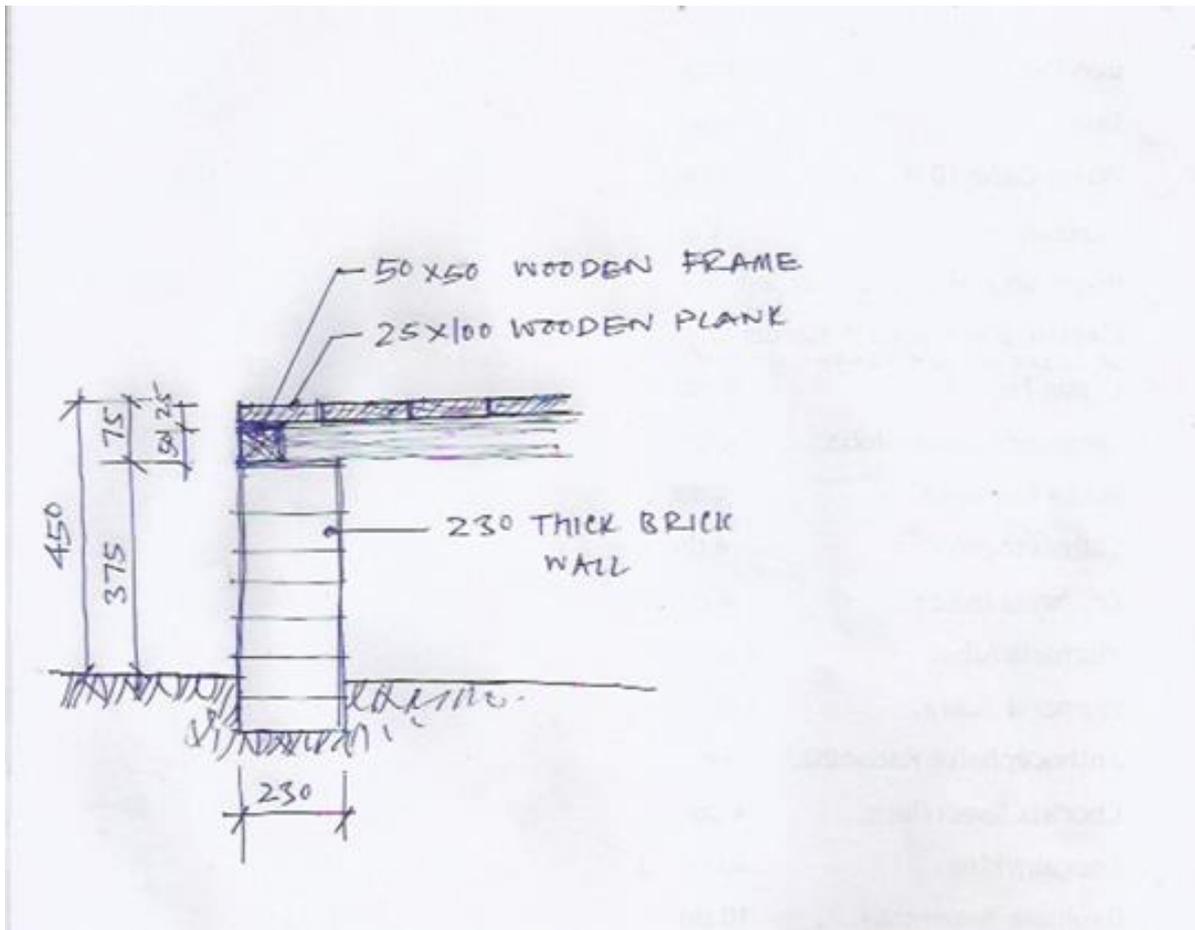
Task A – To develop a **Garden** in 30 sq. mt. (6mt. x 5mt.) plot area

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 6m x 5m (ref. drawing)
3. Two entrance of 600 mm width in opposite direction (ref. drawing)
4. Levelling and compaction of paving area.
5. Construction of 230mm thick Brick Tow wall with cement and sand mortar in the centre in Square shape having a periphery of 900 mm x 900 mm and 375 mm ht. above ground level.
6. Construction of pathways and paving 600mm wide by laying 600 mmx250 mm stones. Two rectangle stones 600X500X175X600x75mm should be used in connecting pathways and pavement. sand stone to be laid over 75mm thick PCC (ref. drawing)
7. Construction of one wooden bench measuring 900 mm x 900 mm, top to be made with 100 mm wide and 25 mm thick wooden planks joined together by 50 mm x 50 mm peripheral frame and to be placed over tow wall. Plantation of hedge plants on inner side of Boundary wall in the 270mm wide bed (ref. drawing)
8. Plantation of 4 Trees and 6 shrub plants (ref. drawing)
9. Plantation of flowering plants in the 8 no. of flower beds 300x1000mm size.
10. Grassing of lawn by using turf grass.
11. 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 properly cleaned Yes = 2 mark, no = 0 mark | |
| M 6 | 2.00 | Dead leaves and branches removed Yes =2 mark, no = 0 mark | |

M 7 2.00 Trees are firmly erect and not tilted from the ground
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 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 0 - No consideration given 1 - Competitor have taken in to consideration use of shape and texture 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 is 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 | 2.00 | Edges/outline is neatly finished & making a straight line Yes = 2.00 marks, no=0 marks | |
| M 5 | 2.00 | Overlapping of turf is not done yes = 2 marks, no = 0 marks | |
| M 6 | 2.00 | Damaged grass is not used | |

| | | |
|-----|------|--|
| | | yes = 2 mark, no = 0 mark |
| M 6 | 1.00 | Surplus turf removed from site Yes = 1 mark, no = 0 marks |
| M 7 | 1.00 | Lawn is properly cleaned Yes = 1 mark, no = 0 marks |
| M 8 | 1.00 | Grass is properly watered Yes =1 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 B. the walls Tolerance + / - 5mm =2 mark, + / - 10mm =1 mark | |
| M 2 | 2.00 | Length of B. walls Tolerance + / - 5mm =2 mark + / - 10mm =1 mark | |
| M 3 | 2.00 | Walls are vertically straight Yes =2 mark, no =0 mark | |
| M 4 | 2.00 | Walls are horizontally straight | |

| | | |
|-----|------|--|
| M 5 | 2.00 | Yes =2 mark, no =0 mark Height of Tow wall Correct=2 mark, Not correct =0 mark |
| M 6 | 2.00 | Length of Tow wall Correct =2 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 | 3.00 | Overall appearance of Boundary wall | |
| | | 0 = The wall is not finished and is not up to mark 1 = The wall is finished but It does not give the feeling of wall 2 = The wall is nicely finished, all the elements are properly connected, looks nice and give the feeling of wall 3 = The wall is very nicely finished, all elements are nicely connected, looks excellent from all angles and gives feeling of complete wall. | |
| J 2 | 3.00 | Overall appearance of Tow wall | |
| | | 0 = The wall is not finished and is not up to the mark 1 = The wall is finished but it does not give the feeling of wall 2 = The wall is nicely finished, all the elements are properly connected, looks nice and give the feeling of wall 3 = The wall is very nicely finished, all elements are nicely connected looks excellent from all the angles and gives the 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 stone path and paving are in | |

| | | |
|------|------|---|
| | | straight line Yes =1.5mark, no =0 |
| M 2 | 1.50 | The stone blocks are on equal distance Yes =1.5 mark, no =0 mark |
| M 3. | 1.50 | The stone path and paved area 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 | Sand Stones are properly laid over 75mm thick PCC 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. | The overall look of path and paving 0 - The path is not finished and is not according to design 1- The path is finished and is according to design but it does not 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 and attractive. | |

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 + / - 3mm =2mark, Tolerance + / - 5mm =1 mark | |

| | | |
|------|------|--|
| M 2 | 2.00 | Height of Bench Tolerance +/- 1mm =2 marks Tolerance + /- 2mm=1marks |
| M 3 | 2.00 | Number of planks as per design Yes =2 mark, no =0 mark |
| M 4. | 2.00 | Planks are at equal distance Yes =2 mark, no =0 mark |
| M 5. | 2.00 | Smooth Surface Yes =2 mark, no =0 mark |
| M 6 | 1.00 | Bench is properly balanced over tow wall Yes = 1 marks, no = 0 marks |

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. | 3.00. | Overall appearance of Bench 0 marks= The Bench is not finished and is not according to design 1 mark=The Bench is finished and is according to design but it does not reflect the feeling of Bench 2 marks=The Bench is finished and looks very nice. All elements are well connected according to design and it reflects the feeling of Bench 3 marks= The Bench is smartly finished, all Elements are very well connected according to design. looks excellent and attractive. | |

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

Trees 4 do
Hedge plants 70 do
Shrub plants 6 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
Sand stones 600x250mm 30 no.
Sand stone 600x175x500x600x75mm 2 no. do
Dry mix sand and cement in bags. do
Good Earth (sweet earth) as per requirement
Wooden Slates for Bench. as per requirement
Universal Saw Blade. 2 per team
Fine Saw Blade. 2 do
Nails different size. - as per requirement
Wood Blocks for peripheral frame and legs- as per requirement

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. Competitor can't meet any person during competition.
4. For any problem he can contact the expert available there.
5. Communication time will be given each day before and after the competition.
6. Approx. six hours/day, working time (except tea break and lunch) will be given for first 3 days. This may vary also.
7. 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. Knowledge and understanding of arrangement of material and also care of materials
5. Competitor should bear safety shoes; More related to Skill.