

**INVITATION TO TENDER FOR THE PROVISION OF MATERIAL REQUIRED FOR ESTABLISHING THE LOW-COST
MAKER SPACES IN NANDURBAR AND CHHATTISGARH**

Dear Sir/Madam,

STARS FORUM, Pune ("the Authority"), hereby invites tenders from eligible suppliers for the supply of laboratory infrastructure and materials required for establishing 40 low-cost Maker Spaces under the Vocational Education Programme for students of Classes VI to VIII in Nandurbar (Maharashtra) and Chhattisgarh. The detailed technical specifications and quantity of materials are provided in the **Annexure I**. The material list represents the requirement for one Maker Space, and bidders are requested to submit their quotations in the prescribed format.

It is the responsibility of all tenderers to ensure that their tender is delivered not later than 20 days of publishing. The Authority will not consider tenders received after that time. Tenderers should note that the delivery of tender documents should be via mail to the following address.

Address-

STARS Forum @ Vigyan Ashram Gat No 1157, A/P Pabal, Tal- Shirur, District- Pune 412403, Maharashtra

Mail- bhakti.starsforumindia@gmail.com, starsforumac@gmail.com

For any queries related to the tender invited, you can contact, Ranajeet Shanbhag, 9579734720.

Please note that the Authority is not bound to accept the lowest priced tender or any tender and it shall not be bound to accept the contractor as a sole supplier.

Yours sincerely,



Mr. Ranajeet Shanbhag
Secretary -STARS Forum



Annexure I.

Lab Infrastructure

Sr. No	Set up required	Qty
1	Working table-(Height 2.5 Ft, width 3ft, length 5ft) use 1-inch square tube and 12mm plywood with sun mica at the top)	1
2	Small Kitchen table with sink- Stainless steel (Height 2.5 Ft, width 2ft, length 4ft)	1
3	Stools for students (20 units)	20
4	Tool box (Size 6x4 feet size of wooden plywood of thickness 12mm)	1
5	Electrical fitting (1 MCB, 4 switch boards with 2 plugs in and 2 buttons/ 2 Fans/ 3 LED bulb lights)	1
6	Green board for teaching (5 ft length *4 ft height)	1
7	Cupboard (metal sheet- 6 ft height and 3 ft width)	1

Lab tool list

Sr.no	Particular	Brand	Unit	Quantity
1	Steel Ruler	Kristeel	set	2
2	Measuring Tape	Stanley	Each 2	4
3	Spirit Level Bottle	Taparia	SET	2
4	Tri-Square (Casting base) (construction and Carpentry)	Taparia	each	1
5	Scriber	Taparia	Each	1
6	Claw Hammer	Taparia	each	2
7	Mallet Wooden	Taparia	each	1
8	Mallet Plastic	Taparia	No	1
9	Hacksaw Frame Pipe Frame	Taparia	each	2
10	Hacksaw blades	Taparia		5
11	Hacksaw Frame Pipe Frame	Taparia		6

12	Hacksaw blades	Taparia		5
13	Combination Mini Plier	Taparia		1
14	Wire stripping pliers	Mutitec		1
15	Tweezer set-6 pcs	Armsol		1
16	Allen key set- 9pcs	Taparia		1
17	Half Round Wood rasp File	John Bhandari	No	5
18	C-Clamps (for carpentry use)	Taparia	set	2
19	Firmer Chisel	Taparia	set	1
20	Mortise Chisel	standard	set	6
21	Pairing Chisel	standard	set	1
22	Hand Drill Machine	Standered	No	5
23	Sun mica Cutter	standard	No	1
24	Auger Bit	standard	set	1
25	Gimlet	Standered	No	1
26	Center Punch	Taparia	No	1
27	Tap wrench	Taparia	No	1
28	Oil Can	Taparia	No	1
29	Hammers B/P (Hammers ball pain)	Taparia	No	1
30	Hammer C.P (hammer cross pain) with handle forged steel	Taparia	No	1
31	Flat Chisel	Taparia	No	1
32	Open End Wrench/ Spanner SET -6 pcs	Taparia	8Pec Set	2
33	Ring Spanner Set -6 pcs	Taparia	Set	2
34	Screw Driver -4 pcs	Taparia	each	2
36	Safety Helmet	generic		8

37	Safety Goggle	generic		10
38	Hand gloves pairs (constriction)	generic	pair	10
39	Gum Shoes	generic	Pairs	4
40	tyre lever set	generic	No	1
41	Karni	generic	no	2
42	Iron Ghamela (Tasla)	generic	no	2
43	Sahul (plumb line)	generic	no	1
44	Rope	generic	No	1
45	Cycle Air Pump	generic	No	1
46	Transparent water Tube	generic	No	1
47	Paint Brush	Asain	No	2
48	Roller Brush	generic	No	2
49	Paint Tray	generic	No	1
50	Hand Gloves-Cut Proof	Karam	No	10
51	Baby vice	Genenric	No.	10
52	Brush cleaner / thinner	generic	No	2

Sr.no	Particular	Brand	Unit	Qty
1	DIGITAL MULTIMETER	Mastech	No	2
2	Wire gauge	Kristeel	each	1
3	Linesman Pliers (combination pliers)	Taparia	each	1
4	Long Nose Pliers	Taparia	each	2
5	Side Cutting Pliers	Taparia	each	1
6	Screw Driver Set / Electrician- Wiremen Set	Taparia	No	1
7	Tester	Taparia	each	2
8	Wire Stripper	Taparia	each	6
9	Razor Blade Knife (Utility Knife)	Taparia	each	3
10	Hack Saw	Taparia	No	5
11	Masonry Drill bits (Concrete Drill)- 5	Taparia	5 pc set	1
12	Electric Soldering Iron	Armsol	each	5
13	Soldering wire 20/22	standard		5
14	Hot glue gun	Generic		3
15	Adapter	standard		3
16	Adapter	standard		1
17	Electrical Hand Gloves	standard	Pairs	4
18	A3 cutting mat	standered		3
19	Sand Bucket	standered	each	1
20	Fire Extinguisher CO2	ABC	No	1
21	Ardiuno uno + cable	Generic	—	5
22	Breadboard (medium size) 400 POINT	Generic	—	5
23	LDR sensor Module	Generic	—	3

24	DHT11 Temperature Sensor	Generic	–	3
25	Ultrasonic sensor	Generic	–	5
26	IR sensor	Generic	–	5
27	Soil moisture sensor	Generic	–	5
28	LM393(sound sensor)	Generic	–	5
29	gas sensor module - 5 types	Generic	–	5
30	Jumper wires(m-m,f-m,f-f)	Generic	–	5
31	box	Generic	–	4
32	Thermometer	Generic		1
33	Min Max thermometer	Generic		1
34	wet bulb dry bulb thermometer	Generic		1
35	scissors	Generic		5
36	Extension Board	Generic		2
37	Utility Box	Generic	No	1
38	5 Output Device Kit	Generic	No	5
39	DC Motors – BO Motor	Generic	No	10
40	L298N Motor Driver	Generic	No	2
41	LCD Display with I2C	Generic	No	3
42	LEDS	Generic	No	150
43	10MM LED	Generic	No	10
44	Resistors	Generic	No	100
45	Toggle Switch	Generic	No	10

46	Relay Modules	Generic	No	5
47	9V Battery with Connector	Generic	No	10
48	AA Battery Holder	Generic	No	10
49	3V coin cells (for testing)	Generic	No	10
50	Cooper Tape	Generic	No	10
51	Small Solar PV Panels	Generic	No	5
52	Sandpaper (assorted grits)	Generic	No	1
53	Flux (paste or liquid)	Generic	No	5
54	Glue Sticks	Generic	No	50
55	Posters	Generic		3
56	Robotics material	Generic		2
57	Computer	Dell Assembled		1

Sr,no	Particular	Specification	Brand	Unit	Quantity
1	Trowels	Gardening Tools (Dimensions LxWxH- 28 x 7.5 x 1 Centimeters)	Standered	each 2	3
2	Spade with Handle Fitting	Iron Steel Spade for Gardening 1.2 Kg (Handel 35 Inch)	Standered	each	2
3	Pickaxe (Tikav) with Handle	16" (410 MM)	Standered	No.	2
4	Khurpi		Standered	each	5
5	Watering Can	5 ltr Plastic can	Standered	each	2
6	Ghamale	Size-17"	unbreakable	each	4
7	Crate	Plastick-30L x 30W x 50H Centimeters	unbreakable	each	1
8	Plastic Jar - (Mug)	500 ml	unbreakable	No.	2
9	Buckets	20 ltr	unbreakable	each	2
10	Measuring Tape	100 ft cloth tape	Freemans	No.	2
11	Lactometer		Standered	No.	2
12	Measuring Cylinder	Plastic Measuring Cylinder Transparent Graduated 200ml	Standered	No.	2
13	Beaker	Beaker Glass (100, 50 ml)	Standered	No.	2

14	Hand Gloves	16"(Long)	Standered	pair	10
15	MILK MEASURE	250ml, 500 ml	local	No.	2
16	Mason Jar	Glass-300,200 ml		no.	4
17	Ph paper strips	pH 1.0 to 14.0		no.	4
18	Digging bar- पहर	Half cut	local	No	1
19	Plastic PET jar with airtight lid	250 grams for seeds / fertilizer sample storage	Standered	No	6
20	Seedling trays	HDPE plastic with 50-hole capacity	Standerd	No	6
21	Secateurs garden pruner	200 mm length Stainless steel made woth PVC grip	Falcon	No	2
22	Green Shed-net	50 % shed, UV stabilize 200 Sq ft (20 ft long * 10 ft width)	Standerd	unit (200 sq ft)	1
23	Hand Gloves (Plastic)	medium size (Plastic) pkt(50 pcs)			1
24	Safety Wall Posters	6 Sqft			2
25	Soil Testing Kit	5 Parameter-100 Test		No	1
26	Soil Mixture / Coco pit	3kg		No	5
27	EC meter	Digital Handheld	Themisto	1	1
28	Grafting sheet	100M * 2"inch	Agriworld	1	1
29	Budding Knife	2 In 1 Garden Grafting Tool Pruner Kit for Plants, Plant Cutter for Garden, Grafting Tools for Plants, Precision Garden Grafting Tool With 3 Replaceable SK5 Steel Blades (Ω , U, V-Cut)	Generic	1	1

30	Magnifying lens	75mm 4X:6X Magnifying Glass	Generic	2	1
31	Grow bag Black	Black HDPE	Generic	20	20
32	High Precision Lab Scale Digital Analytical Electronic Balance	Scales 0.01g Calibrated (600g)		1	1

Sr.no	Particular	Specification	Brand	Unit	Quantity
1	Stainless steel Plates	Diameter: (20,25 cm)	stainless steel	each	4
2	Sieves (Stainless Steel)		stainless steel	No.	1
3	Set of cooking spoon	Stainless steel	stainless steel	Set	1
4	Stainless steel Containers with Cover (Pot)	Food grade stainless steel / indalium (Containers of 1 ltr and 2 ltr with Cover capacity)	food grade stainless	Pair	1
5	Steel Bowls	Stainless steel - 100, 180 ml	stainless steel	each	4
6	kadhai (induction based)	medium size	stainless steel	No.	2
7	Grater/ Shredder	Stainless steel	stainless steel	No.	2
8	Hand Operated Chikki Slicer (Roller), cutter	stainless steel	stainless steel	No.	2
9	Knives	stainless steel	stainless steel	each 2	3
10	Polpat and Latan (Roller)	Wood	wood	Set	1
11	Steel Shelves for Utensils storage	4 Layer 18 x 24 inch Kitchen Dish Rack/Kitchen Utensils Stand(Stainless Steel)		No.	1
12	Measuring Mug / Cup	Plastic/ Glass 250ml		set	2
13	Measuring Spoons	Plastic (1/8-tsp, 1/4-tsp, 1/2-tsp, 1-tsp, 1/2-Tbsp. and 1-Tbsp.)			1
14	Mixer (Mixer-Grinder)	ISI mark Mixer with two grinding containers-500 watt	Crompton/Peigon ISI mark Mixer with two grinding containers	No.	1

15	Pressure Cooker induction based	Steel / aluminium- 5 lit	steel / aluminium	No.	1
16	Cloth Scissors		Standard	No.	4
17	Table Spoons	Stainless steel	stainless steel	each	10
18	Tong	Steel	steel	No.	2
19	Vegetable Peeler		Anjali	each	2
20	Water Container (Jug)	stainless steel 1 litre capacity	stainless steel	No.	2
21	chopping board	Stainless steel		no.	2
22	Stainless Steel container with lead	Stainless set of 0.5 lit, 1 lit, 2 lit, 5 liter	Stainless Steel	No	1
23	Dust Pan	Plastic; Size- medium	plastic	No.	1
24	Sieves	6 inch/12 inch	plastic	set	1
25	Plastic Container	Food grade plastic (Set of 4) - 250 gm	Food grade plastic (Set of 4)	each	4
26	Glass container	glass with plastic lid - half kg. Capacity	glass	each	2
27	Plastic Bucket	Plastic -10 ltr capacity	unbreakable	No	1
28	Plastic Dustbin	Plastic-5 kg	unbreakable	No	2
	Stainless steel Glasses	250 ml	steel	Set	6
29	Thermometer	Glass	Hicks/ Oval	No	1
30	Weighing machine (Digital)	5kg	ISI MARK	No	1

31	Candy Thermometer Digital (for taking food temperature)	for taking food / cooking food temperature	ISI MARK	No	1
32	Apron (Cloth)	cotton		each	10
33	Dish towels	cotton		each	6
34	Hand Gloves	Cotton - medium size		pair	10
35	Hand Gloves (Plastic)	medium size (Plastic) pkt(50 pcs)		pkt	3
36	Head Caps (Cloth)	Cotton Washable & Reusable Head Cap		each	20
37	Aluminum foil	Aluminium	standard	roll	1
38	H2S bottle Bactoscope- water test	10 bottles in 1 set		set	20
39	Packing machine	(8 inch ,200 mm)	standered	No	1
40	Metre Stick	(24 inch, 60 cm, Wooden)		No	2
41	Pin Cushion and Pins			No	1
42	Sewing Box plastic	Sewing Box - 2 Layer High Quality Plastic , 11 Inch		No	1
43	Spatulas	200 mm		No	2
44	Trimming Scissors	5" inch		No	2
45	Seam Ripper	Size - 9 cm		No	10
46	Pinking Shears	8" inches Plastic		No	3
47	Sewing and Embroidery Scissors			No	2

48	Thread	Cotton-100 pcs box		SET	2
49	Needles	Hand Swing Needles Set (50 pieces)		No	1
50	Body height measurment tape	2 m roll roller wall mounted	standered	1	2
51	Hand press lime juicer	stainless steel	standerd	no.	2
52	First aid box	Plastic First Aid Box- (Antiseptic cream 10gm- 1, Safety pin 10, Tincture iodine 20ml - 1, Bandage – 2, Band-aid-20 Tweezers - 1, antiseptic cream- 20gm Antiseptic wipes - 2, Adhesive plaster (19x 72 mm)- 10, Disposable gloves - 1 pkt, Absorbent cotton 20gm- 1, Pain relief spray -1, Eno pouch-10, ORS – 5 pkt, Glucon-D packet - 1 (200/250gm), Dettol Antiseptic liquid – 100 ml, Surgical paper tap-1 Scissors and Tweezers)	standard	1	1
54	Serving Tray or Platter	Rectangular Tray		No	2
55	Lab Safety and Info Posters	3*2 Ft Star Flex/ Vinyl Stickers		No	2
56	Digital Hemoglobinometer	Digital with 30 strips		No	1
57	Weighing machine (Digital)				1
58	Embriodary thread box	25 pcs box			1
59	Induction	2000W Peigon			1

